

Application for Preliminary Qualification of Bonds

School Bond Qualification and Loan Program for

L'ANSE CREUSE PUBLIC SCHOOLS

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*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
517-335-0994
www.michigan.gov/sblf

Application for Preliminary Qualification of Bonds

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

Election Date

November 5, 2024

Application No.

50-140-4-K12-26-02

District Name and Address

L'Anse Creuse Public Schools
 24076 F.V. Pankow Blvd
 Clinton Township, MI 48036

School District Code and Phone No.

50-140
 586-783-6300

Superintendent Name and Email

Erik Edoff
 edoffer@lc-ps.org

Mailing Instructions

Return ONE originally signed copy to your bond counsel by OVERNIGHT MAIL.
 Retain ONE originally signed copy for your files.

Your bond counsel will transmit an electronic copy to the Department of Treasury,
 financial consultant, architectural firm, and construction management firm.

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:

17 day of June 2024 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 17 day of June 2024

Sharon Ross <small>Secretary, Board of Education</small>	Signature of Secretary
Amelia Servial <small>Treasurer, Board of Education</small>	Erik Edoff <small>Superintendent of Schools</small>
Thrun Law Firm, P.C. <small>Bond Counsel</small>	2900 West Road, Suite 400, East Lansing, MI 48823 <small>Mailing Address</small>
PFM Financial Advisors LLC <small>Financial Consultant</small>	555 Briarwood Circle, Suite 333, Ann Arbor, MI 48108 <small>Mailing Address</small>
PARTNERS in Architecture, PLC <small>Architectural Firm</small>	65 Market Street, Suite 200, Mount Clemens, MI 48043 <small>Mailing Address</small>
Barton Malow Builders <small>Construction Management Firm</small>	26500 American Drive, Southfield, MI 48034 <small>Mailing Address</small>

ATTACH PROPOSED BALLOT LANGUAGE.

L'ANSE CREUSE PUBLIC SCHOOLS
BOND PROPOSAL

Shall L'Anse Creuse Public Schools, Macomb County, Michigan, borrow the sum of not to exceed One Hundred Eighty-Eight Million Seven Hundred Thousand Dollars (\$188,700,000) and issue its general obligation unlimited tax bonds therefor, in one or more series, for the purpose of:

- remodeling, furnishing and refurnishing, and equipping and re-equipping school buildings, including for school security;
- acquiring and installing instructional technology;
- equipping, preparing, developing, and improving athletic fields and facilities, playgrounds, and sites; and
- purchasing school buses?

The following is for informational purposes only:

The estimated millage that will be levied for the proposed bonds in 2025, under current law, is 0.00 mill (\$0.00 on each \$1,000 of taxable valuation) for a 0.00 mill net increase over the prior year's levy. The maximum number of years the bonds of any series may be outstanding, exclusive of any refunding, is twenty-five (25) years. The estimated simple average annual millage anticipated to be required to retire this bond debt is 2.29 mills (\$2.29 on each \$1,000 of taxable valuation).

The school district expects to borrow from the State School Bond Qualification and Loan Program to pay debt service on these bonds. The estimated total principal amount of that borrowing is \$7,790,232 and the estimated total interest to be paid thereon is \$13,005,718. The estimated duration of the millage levy associated with that borrowing is 10 years and the estimated computed millage rate for such levy is 7.00 mills. The estimated computed millage rate may change based on changes in certain circumstances.

The total amount of qualified bonds currently outstanding is \$187,750,000. The total amount of qualified loans currently outstanding is approximately \$25,336,495.

(Pursuant to 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

L'ANSE CREUSE PUBLIC SCHOOLS

Financial information provided as of: 6/17/2024

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

Original Bond Issue			Current Outstanding Principal Balance				Outstanding Principal Balance as of Election Date				Millage	
Issue Date	Purpose	Issue Amount	Current Qualified	Current Non-Qualified	Current Non-Voted	Current Total	Qualified	Non-Qualified	Non-Voted	Election Date Total	Levied This Tax Year	Estimate Next Tax Year
2/5/2015	Refunding	\$118,685,000	\$18,970,000			\$18,970,000	\$18,970,000			\$18,970,000	2.00	
6/2/2021	Refunding	149,500,000	131,705,000			131,705,000	131,705,000			131,705,000	3.50	
1/23/2023	Refunding	39,580,000	37,075,000			37,075,000	37,075,000			37,075,000	1.50	
						0				0		
						0				0		
						0				0		
Total			\$187,750,000	\$0	\$0	\$187,750,000	\$187,750,000	\$0	\$0	\$187,750,000	7.00	7.00

Have proceeds of all existing bonds been spent? **No** The district has approximately \$400k of bond proceeds remaining, and district anticipates all bond proceeds will be spent in the near future.

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	\$188,700,000	25 years	4.75%	\$147,971,419	\$13,005,718	\$160,977,137	2.29	0.00
Proposal 2								
Proposal 3								
Proposal 4								
Combined Issue	\$188,700,000			\$147,971,419	\$13,005,718	\$160,977,137	2.29	0.00

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

C. School Bond Loan Participation

School Bond Loan Fund					Millage			Est Amt to be Borrowed			
Mandatory Final SBLF Loan Repayment Date	Estimated SBLF Balance as of Election Date	SBLF Beginning Date	Projected SBLF End Date	Estimated SBLF Interest Rate	Initial Computed Millage	Estimated Duration of Computed Millage	Maximum Millage without SBLF Participation	Existing Bonds Amount to be borrowed	Existing Bonds Interest to be accrued	Proposed Bonds Amount to be borrowed	Proposed Bonds Interest to be accrued
2046	25,336,495	2006	2036	5.00%	7.00	10	7.74	\$0	\$4,151,022	\$7,790,232	\$13,005,718

D. Property Tax Assumptions

Current		Growth Rate				Property Taxes Levied		Pending
Tax Year	Taxable Value	Prior 5 Year Average	Prior 20 Year Average	Projected Rate Years 1 - 5	Projected Rate Years 6+	Winter	Summer	Material Tax Appeals in District
2024	\$3,476,945,362	5.49%	2.30%	5.49%	2.30%	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. Key Financial Measures

1st Year Millage Increase	Total Debt to Taxable Value	Weighted Average Maturity of Bonds	120% of Average Useful Life of Assets	Current & Proposed Bond Debt plus SBLF Debt	Total Loans do not exceed 25% of the Taxable Value
0.00	11.56%	16.51	26.47	\$401,786,495	TRUE

F. Bond Issuance

Series/ Proposal	Amount	Dated Date	Construction Fund Beg. Date	Construction Fund End Date
1	\$110,000,000	1/20/2025	1/20/2025	12/1/2027
2	78,700,000	6/1/2027	6/1/2027	12/1/2029
3				
4				
5				

G. 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 Nate Watson
 Firm PFM Financial Advisors LLC



PQ Millage 2025

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Suite 333
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734-994-9700
734-994-9710 fax
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\$110,000,000
L'ANSE CREUSE PUBLIC SCHOOLS
2025 SCHOOL BUILDING AND SITE BONDS

BOND SIZING SCHEDULE			
ESTIMATED BOND ISSUANCE COSTS			
Bond Discount	1.090%	\$1,199,000	
Bond Insurance		0	
Bond Attorney Fee		137,485	
Financial Consultant Fee		126,000	
Credit Rating		77,000	
Qualification of Bonds		26,000	
Official Statement Printing & Mailing		2,500	
Notice of Sale Publication		1,800	
Treasury Filing Fee(s)		1,000	
Auditor's Consent Fee		500	
Paying Agent Upfront Fee		500	
Municipal Advisory Council Fee		450	
TOTAL BOND ISSUANCE COSTS		\$1,572,235	
ESTIMATED OTHER COSTS			
Reimbursable Election Costs			\$5,143
Capitalized Interest			0
Other			0
TOTAL OTHER COSTS			\$5,143
BOND SIZING			
Total Bond Issuance and Other Costs			\$1,577,378
Total Project Expenditures			110,000,000
Total Project, Issuance & Other Costs			111,577,378
Less Original Issue Premium			0
Less Estimated Construction Fund Earnings			(1,577,378)
Less Other Adjustments			0
AMOUNT OF BOND ISSUE			\$110,000,000

PROJECT FUND DRAWS AND EARNINGS SECTION

Date	Estimated Expenditures			Average Life = 1.45 years		Project Fund Balance	Estimated Interest Rate	Projected Interest Earned
	Project Expenditures	Issuance & Other Costs	Totals	Month	Payout %			
Jan 25						\$110,000,000		
Jan 25	\$4,715,146	\$1,577,378	\$6,292,524	1	5.64%	103,707,476	1.00%	\$86,423
Feb 25	3,295,640		3,295,640	2	8.59%	100,498,259	1.00%	83,749
Mar 25	141,520		141,520	3	8.72%	100,440,487	1.00%	83,700
Apr 25	233,712		233,712	4	8.93%	100,290,476	1.00%	83,575
May 25	482,076		482,076	5	9.36%	99,891,975	1.00%	83,243
Jun 25	2,467,127		2,467,127	6	11.57%	97,508,091	1.00%	81,257
Jul 25	1,275,119		1,275,119	7	12.72%	96,314,230	1.00%	80,262
Aug 25	1,651,853		1,651,853	8	14.20%	94,742,639	1.00%	78,952
Sep 25	2,009,946		2,009,946	9	16.00%	92,811,645	1.00%	77,343
Oct 25	2,345,584		2,345,584	10	18.10%	90,543,404	1.00%	75,453
Nov 25	2,731,010		2,731,010	11	20.55%	87,887,846	1.00%	73,240
Dec 25	3,161,443		3,161,443	12	23.38%	84,799,643	1.00%	70,666
Jan 26	3,555,154		3,555,154	13	26.57%	81,315,155	1.00%	67,763
Feb 26	3,906,666		3,906,666	14	30.07%	77,476,252	1.00%	64,564
Mar 26	4,260,378		4,260,378	15	33.89%	73,280,437	1.00%	61,067
Apr 26	4,609,848		4,609,848	16	38.02%	68,731,657	1.00%	57,276
May 26	4,897,950		4,897,950	17	42.41%	63,890,983	1.00%	53,242
Jun 26	6,701,264		6,701,264	18	48.41%	57,242,962	1.00%	47,702
Jul 26	5,264,260		5,264,260	19	53.13%	52,026,404	1.00%	43,355
Aug 26	5,332,899		5,332,899	20	57.91%	46,736,861	1.00%	38,947
Sep 26	5,321,367		5,321,367	21	62.68%	41,454,442	1.00%	34,545
Oct 26	5,228,885		5,228,885	22	67.37%	36,260,103	1.00%	30,217
Nov 26	5,056,412		5,056,412	23	71.90%	31,233,907	1.00%	26,028
Dec 26	4,806,655		4,806,655	24	76.21%	26,453,280	1.00%	22,044
Jan 27	4,484,002		4,484,002	25	80.23%	21,991,323	1.00%	18,326
Feb 27	4,123,967		4,123,967	26	83.92%	17,885,682	1.00%	14,905
Mar 27	3,733,447		3,733,447	27	87.27%	14,167,140	1.00%	11,806
Apr 27	3,290,535		3,290,535	28	90.22%	10,888,411	1.00%	9,074
May 27	2,803,890		2,803,890	29	92.73%	8,093,595	1.00%	6,745
Jun 27	2,332,275		2,332,275	30	94.82%	5,768,065	1.00%	4,807
Jul 27	1,933,725		1,933,725	31	96.55%	3,839,146	1.00%	3,199
Aug 27	1,414,214		1,414,214	32	97.82%	2,428,131	1.00%	2,023
Sep 27	1,033,239		1,033,239	33	98.75%	1,396,916	1.00%	1,164
Oct 27	745,077		745,077	34	99.41%	653,002	1.00%	544
Nov 27	449,880		449,880	35	99.82%	203,667	1.00%	170
Dec 27	203,836		203,836	36	100.00%	0	1.00%	0
Jan 28	0		0	37	100.00%	0	1.00%	0
	\$110,000,000	\$1,577,378	\$111,577,378					\$1,577,378



PQ Millage 2027

\$78,700,000

**L'ANSE CREUSE PUBLIC SCHOOLS
2027 SCHOOL BUILDING AND SITE BONDS**

BOND SIZING SCHEDULE			
ESTIMATED BOND ISSUANCE COSTS			ESTIMATED OTHER COSTS
Bond Discount	1.060%	\$834,220	Reimbursable Election Costs
Bond Insurance		0	Capitalized Interest
Bond Attorney Fee		108,024	Other
Financial Consultant Fee		95,830	
Credit Rating		64,000	TOTAL OTHER COSTS
Qualification of Bonds		19,600	
Official Statement Printing & Mailing		2,000	BOND SIZING
Notice of Sale Publication		1,800	Total Bond Issuance and Other Costs
Treasury Filing Fee(s)		1,000	Total Project Expenditures
Auditor's Consent Fee		500	Total Project, Issuance & Other Costs
Paying Agent Upfront Fee		500	Less Original Issue Premium
Municipal Advisory Council Fee		450	Less Estimated Construction Fund Earnings
TOTAL BOND ISSUANCE COSTS		\$1,127,924	Less Other Adjustments
			AMOUNT OF BOND ISSUE
			\$78,700,000

PROJECT FUND DRAWS AND EARNINGS SECTION

Date	Estimated Expenditures			Average Life = 1.45 years		Project Fund Balance	Estimated Interest Rate	Projected Interest Earned
	Project Expenditures	Issuance & Other Costs	Totals	Month	Payout %			
Jun 27						\$78,700,000		
Jun 27	\$1,089,249	\$1,128,856	\$2,218,106	1	2.78%	76,481,894	1.00%	\$63,735
Jul 27	119,413		119,413	2	2.93%	76,426,217	1.00%	63,689
Aug 27	197,168		197,168	3	3.18%	76,292,737	1.00%	63,577
Sep 27	272,175		272,175	4	3.52%	76,084,139	1.00%	63,403
Oct 27	343,391		343,391	5	3.95%	75,804,151	1.00%	63,170
Nov 27	409,828		409,828	6	4.46%	75,457,493	1.00%	62,881
Dec 27	470,571		470,571	7	5.05%	75,049,803	1.00%	62,542
Jan 28	524,787		524,787	8	5.71%	74,587,558	1.00%	62,156
Feb 28	757,199		757,199	9	6.66%	73,892,515	1.00%	61,577
Mar 28	1,289,840		1,289,840	10	8.27%	72,664,251	1.00%	60,554
Apr 28	1,926,788		1,926,788	11	10.68%	70,798,017	1.00%	58,998
May 28	3,217,512		3,217,512	12	14.71%	67,639,503	1.00%	56,366
Jun 28	5,103,833		5,103,833	13	21.11%	62,592,037	1.00%	52,160
Jul 28	5,241,429		5,241,429	14	27.67%	57,402,768	1.00%	47,836
Aug 28	4,693,312		4,693,312	15	33.55%	52,757,291	1.00%	43,964
Sep 28	4,352,068		4,352,068	16	39.01%	48,449,187	1.00%	40,374
Oct 28	4,613,796		4,613,796	17	44.78%	43,875,766	1.00%	36,563
Nov 28	4,784,118		4,784,118	18	50.78%	39,128,211	1.00%	32,607
Dec 28	4,859,307		4,859,307	19	56.86%	34,301,511	1.00%	28,585
Jan 29	4,837,605		4,837,605	20	62.92%	29,492,490	1.00%	24,577
Feb 29	4,719,254		4,719,254	21	68.84%	24,797,813	1.00%	20,665
Mar 29	4,506,506		4,506,506	22	74.48%	20,311,972	1.00%	16,927
Apr 29	4,203,565		4,203,565	23	79.75%	16,125,335	1.00%	13,438
May 29	3,816,509		3,816,509	24	84.53%	12,322,263	1.00%	10,269
Jun 29	3,374,726		3,374,726	25	88.76%	8,957,806	1.00%	7,465
Jul 29	2,887,246		2,887,246	26	92.37%	6,078,025	1.00%	5,065
Aug 29	2,342,557		2,342,557	27	95.31%	3,740,533	1.00%	3,117
Sep 29	1,751,884		1,751,884	28	97.50%	1,991,765	1.00%	1,660
Oct 29	1,127,383		1,127,383	29	98.91%	866,042	1.00%	722
Nov 29	608,008		608,008	30	99.68%	258,756	1.00%	216
Dec 29	258,972		258,972	31	100.00%	0	1.00%	0
Jan 30	0		0	32	100.00%	0	1.00%	0
	\$78,700,000	\$1,128,856	\$79,828,856					\$1,128,857

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PQ Millage

\$188,700,000 L'ANSE CREUSE PUBLIC SCHOOLS COUNTY OF MACOMB, STATE OF MICHIGAN 2025, 2027 SCHOOL BUILDING AND SITE BONDS (GENERAL OBLIGATION - UNLIMITED TAX)

ESTIMATED MILLAGE NEEDED TO RETIRE BONDED DEBT

Table comparing Series 2025 and Series 2027 bond details including Amount, TIC, Dated Date, First Payment, First Levy, Capitalized Int, Debt/TV, Bond Term, 1:5 Ratio, Average Life, and 120% ProjUsefullife.

Ballot Information table with columns: Election Date (November 5, 2024), First Yr. Millage (0.00), Avg. Millage (2.29).

Levy Cycle July Only table with columns: Millage Impact (Projected 7.00, Current 7.00, Net Increase 0.00).

Interest Factor 0.85

Summary table for Current Interest Bonds, School Bond Loan Fund, Less SBLF Interest on Prior Bonds, Total Interest Cost.

Last SBLF Borrowing: 2030, Last SBLF Repayment: 2036, Mandatory Repayment: 2046

Main data table with columns: Fiscal Year, Existing UTQ Debt, Series 2025 (Interest Due, Interest Rate, Principal Due, Total Debt Service), Series 2027 (Principal Due, Total Debt Service), Exempt PP Reimbursement Amount, Delinquency Allowance, Use of Funds on Hand, Proposed and Existing UTQ Debt, Projected Tax Base, Growth Rate, Mills Needed New Bond, All Qualified Debt, Mills Levied Qualified Debt.

School Bond Loan Fund table with columns: July 1 Beginning Balance, (Borrowed) / Repaid, Interest During Year, Year End Balance, Interest Rate: 5.00%.

NOTE: The Mills to be Levied is estimated. The actual millage shall be determined ANNUALLY by the Department of Treasury.

[1] Includes \$187,750,000 of Existing UT Debt and \$0 of Existing LTNQ Debt
[2] Includes \$6,000,000 of equivalent IFT valuations & less DDA/TIFA debt captures of \$0 for 2025.
[3] Based on \$88,940,800 of Exempt Personal Property for 2024

NT



**L'ANSE CREUSE PUBLIC SCHOOLS
COUNTY OF MACOMB, STATE OF MICHIGAN
EXISTING DEBT BEFORE ADDITIONAL BONDING**

2015 REFUNDING BONDS - UTQ

*Tax-Type: Unlimited Tax Qualified
Original Amount: \$118,685,000
Net Interest Cost: 3.779%
Call Date: 05/01/2025
Voter Approved Before 2015: Yes
Dated: 02/05/2015*

2021 REFUNDING BONDS - UTQ

*Tax-Type: Unlimited Tax Qualified
Original Amount: \$149,500,000
Net Interest Cost: 1.979%
Call Date: 05/01/2030
Voter Approved Before 2015: Yes
Dated: 06/02/2021*

Levy Year	FY End Year	Interest Due Nov 1	Interest Due May 1	Interest Rate	Principal Due May 1	Total Debt Service
2024	2025	\$385,031	\$385,031	5.000%	\$4,695,000	\$5,465,063
2025	2026	267,656	267,656	5.000%	0	535,313
2026	2027	267,656	267,656	5.000%	0	535,313
2027	2028	267,656	267,656	5.000%	0	535,313
2028	2029	267,656	267,656	5.000%	0	535,313
2029	2030	267,656	267,656	5.000%	0	535,313
2030	2031	267,656	267,656	5.000%	0	535,313
2031	2032	267,656	267,656	5.000%	0	535,313
2032	2033	267,656	267,656	5.000%	0	535,313
2033	2034	267,656	267,656	5.000%	0	535,313
2034	2035	267,656	267,656	5.000%	0	535,313
2035	2036	267,656	267,656	3.750%	2,885,000	3,420,313
2036	2037	213,563	213,563	3.750%	2,870,000	3,297,125
2037	2038	159,750	159,750	3.750%	2,850,000	3,169,500
2038	2039	106,313	106,313	3.750%	2,835,000	3,047,625
2039	2040	53,156	53,156	3.750%	2,835,000	2,941,313
2040	2041	0	0	0.000%	0	0
2041	2042	0	0	0.000%	0	0
Totals:		\$3,862,031	\$3,862,031		\$18,970,000	\$26,694,063

Interest Due Nov 1	Interest Due May 1	Interest Rate	Principal Due May 1	Total Debt Service
\$1,164,921	\$1,164,921	0.876%	\$9,160,000	\$11,489,842
1,124,800	1,124,800	1.126%	14,175,000	16,424,600
1,044,995	1,044,995	1.443%	14,335,000	16,424,989
941,568	941,568	1.643%	14,550,000	16,433,135
822,039	822,039	1.841%	14,790,000	16,434,079
685,897	685,897	1.941%	15,055,000	16,426,795
539,789	539,789	2.041%	15,345,000	16,424,577
383,193	383,193	2.141%	15,395,000	16,161,386
218,390	218,390	2.211%	6,300,000	6,736,779
148,743	148,743	2.311%	6,300,000	6,597,486
75,947	75,947	2.411%	6,300,000	6,451,893
0	0	0.000%	0	0
0	0	0.000%	0	0
0	0	0.000%	0	0
0	0	0.000%	0	0
0	0	0.000%	0	0
0	0	0.000%	0	0
0	0	0.000%	0	0
\$7,150,281	\$7,150,281		\$131,705,000	\$146,005,561



**L'ANSE CREUSE PUBLIC SCHOOLS
COUNTY OF MACOMB, STATE OF MICHIGAN
EXISTING DEBT BEFORE ADDITIONAL BONDING**

2023 REFUNDING BONDS - UTQ

Tax-Type: Unlimited Tax Qualified

Original Amount: \$39,580,000

Net Interest Cost: 5.000%

Call Date: 05/01/2033

Voter Approved Before 2015: Yes

Dated: 01/23/2023

Levy Year	FY End Year	Interest Due Nov 1	Interest Due May 1	Interest Rate	Principal Due May 1	Total Debt Service	TOTAL UTQ	
							Principal	Total Debt Service
2024	2025	\$926,875	\$926,875	5.000%	\$2,640,000	\$4,493,750	\$16,495,000	\$21,448,654
2025	2026	860,875	860,875	5.000%	2,780,000	4,501,750	16,955,000	21,461,662
2026	2027	791,375	791,375	5.000%	2,920,000	4,502,750	17,255,000	21,463,052
2027	2028	718,375	718,375	5.000%	3,065,000	4,501,750	17,615,000	21,470,198
2028	2029	641,750	641,750	5.000%	3,210,000	4,493,500	18,000,000	21,462,891
2029	2030	561,500	561,500	5.000%	3,360,000	4,483,000	18,415,000	21,445,107
2030	2031	477,500	477,500	5.000%	3,510,000	4,465,000	18,855,000	21,424,890
2031	2032	389,750	389,750	5.000%	3,660,000	4,439,500	19,055,000	21,136,198
2032	2033	298,250	298,250	5.000%	3,820,000	4,416,500	10,120,000	11,688,592
2033	2034	202,750	202,750	5.000%	3,975,000	4,380,500	10,275,000	11,513,299
2034	2035	103,375	103,375	5.000%	4,135,000	4,341,750	10,435,000	11,328,956
2035	2036	0	0	0.000%	0	0	2,885,000	3,420,313
2036	2037	0	0	0.000%	0	0	2,870,000	3,297,125
2037	2038	0	0	0.000%	0	0	2,850,000	3,169,500
2038	2039	0	0	0.000%	0	0	2,835,000	3,047,625
2039	2040	0	0	0.000%	0	0	2,835,000	2,941,313
2040	2041	0	0	0.000%	0	0	0	0
2041	2042	0	0	0.000%	0	0	0	0
Totals:		\$5,972,375	\$5,972,375		\$37,075,000	\$49,019,750	\$187,750,000	\$221,719,374

NT 5.9.24



BEFORE ADDITIONAL BONDING

**L'ANSE CREUSE PUBLIC SCHOOLS
COUNTY OF MACOMB, STATE OF MICHIGAN**

ESTIMATED MILLAGE NEEDED TO RETIRE BONDED DEBT BEFORE ADDITIONAL BONDING

Computed Mills at time of last new money bond: 7.00	
Debt/TV ^[2] : 5.40%	2024 Qual. Debt Levy: 7.00
Collection Cycle	Non-Qual. Levy: 0.00
July Levy 100%	Total Levy: 7.00

Mandatory Loan Repayment Date:	2046
Estimated Loan Repayment Date:	2029
SBLF Interest Rate:	5.00%

Existing Unlimited Tax Qualified Debt & Mills

School Bond Loan Fund

Levy Year	Fiscal Year End	Projected Tax Base ^[1]	Growth Rate	Existing UTQ Payments	Use of Funds on Hand \$1,588,468	Delinquency Allowance 8.00%	Exempt Pers. Property Receipts ^[3]	Net UTQ Payments	Needed All Qualified Debt	Mills Levied Qualified Debt	School Bond Loan Fund FY Begin Balance	(Borrowed) / Repaid	Accrued Interest During Year	F/Y Ending Balance
2024	2025	\$3,482,945,362	6.72%	\$21,448,654	(\$1,588,468)	\$1,950,449	(\$622,586)	\$21,188,050	6.08	7.00	\$24,939,309	\$3,192,568	\$1,235,501	\$22,982,242
2025	2026	3,674,257,397	5.49%	21,461,662	0	0	(622,586)	20,839,077	5.67	7.00	22,982,242	4,880,725	1,107,784	19,209,302
2026	2027	3,876,077,864	5.49%	21,463,052	0	0	(622,586)	20,840,466	5.38	7.00	19,209,302	6,292,079	906,955	13,824,178
2027	2028	4,088,983,973	5.49%	21,470,198	0	0	(622,586)	20,847,612	5.10	7.00	13,824,178	7,775,276	625,645	6,674,547
2028	2029	4,313,584,638	5.49%	21,462,891	0	0	(622,586)	20,840,306	4.83	6.44	6,674,547	6,949,684	275,137	(0)
2029	2030	4,550,522,221	5.49%	21,445,107	0	0	(572,995)	20,872,112	4.59	4.59	(0)	0	0	0
2030	2031	4,655,213,686	2.30%	21,424,890	0	0	(407,949)	21,016,941	4.51	4.51	0	0	0	0
2031	2032	4,762,313,733	2.30%	21,136,198	0	0	(401,542)	20,734,657	4.35	4.35	0	(0)	0	0
2032	2033	4,871,877,774	2.30%	11,688,592	0	0	(387,240)	11,301,352	2.32	2.32	0	0	0	0
2033	2034	4,983,962,497	2.30%	11,513,299	0	0	(206,317)	11,306,981	2.27	2.27	0	(0)	0	0
2034	2035	5,098,625,895	2.30%	11,328,956	0	0	(201,778)	11,127,178	2.18	2.18	0	0	0	0
2035	2036	5,215,927,292	2.30%	3,420,313	0	0	(194,103)	3,226,209	0.62	0.62	0	0	0	(0)
2036	2037	5,335,927,381	2.30%	3,297,125	0	0	(55,013)	3,242,112	0.61	0.61	(0)	0	0	0
2037	2038	5,458,688,249	2.30%	3,169,500	0	0	(54,040)	3,115,460	0.57	0.57	0	0	0	0
2038	2039	5,584,273,412	2.30%	3,047,625	0	0	(50,762)	2,996,863	0.54	0.54	0	0	0	0
2039	2040	5,712,747,846	2.30%	2,941,313	0	0	(47,731)	2,893,581	0.51	0.51	0	0	0	0
2040	2041	5,844,178,023	2.30%	0	0	0	0	0	0.00	0.00	0	0	0	0
				\$221,719,374	(\$1,588,468)	\$1,950,449	(\$5,692,398)	\$216,388,957			\$4,151,022			

[1] Includes \$6,000,000 of equivalent IFT valuations & less DDA/TIFA debt captures of \$0 for 2024.

[2] Includes principal outstanding: \$187,750,000 of unlimited tax bonds and \$0 of limited tax bonds

[3] Based on \$88,940,800 of Exempt Personal Property for 2024



**L'ANSE CREUSE PUBLIC SCHOOLS
COUNTY OF MACOMB, STATE OF MICHIGAN
Taxable Value History**

Levy Year	Taxable Value	Exempt Personal Property	Adjusted Total	T.V. Change	Adjusted T.V. Change	5 Year Average	20 Year Average
2024	\$3,476,945,362	\$88,940,800	\$3,565,886,162	7.05%	6.72%	5.49%	2.30%
2023	3,248,047,706	93,375,814	3,341,423,520	7.08%	6.94%	5.19%	2.28%
2022	3,033,397,278	91,281,014	3,124,678,292	6.81%	6.24%	4.66%	2.17%
2021	2,840,039,441	101,083,914	2,941,123,355	3.23%	3.27%	4.10%	
2020	2,751,168,516	96,928,061	2,848,096,577	4.54%	4.30%	4.10%	
2019	2,631,676,862	98,929,364	2,730,606,226	5.28%	5.20%	3.75%	
2018	2,499,648,739	96,012,464	2,595,661,203	4.22%	4.31%	3.06%	
2017	2,398,532,196	89,957,117	2,488,489,313	2.83%	3.44%	1.85%	
2016	2,332,600,523	73,171,481	2,405,772,004	0.09%	3.23%	0.38%	
2015	2,330,483,582	0	2,330,483,582	2.55%	2.55%	(1.55)%	
2014	2,272,424,166	0	2,272,424,166	1.76%	1.76%	(3.39)%	
2013	2,233,038,503	0	2,233,038,503	(1.73)%	(1.73)%	(4.58)%	
2012	2,272,455,685	0	2,272,455,685	(3.89)%	(3.89)%	(3.92)%	
2011	2,364,429,928	0	2,364,429,928	(6.44)%	(6.44)%	(1.86)%	
2010	2,527,113,535	0	2,527,113,535	(6.66)%	(6.66)%	0.75%	
2009	2,707,443,818	0	2,707,443,818	(4.16)%	(4.16)%	3.36%	
2008	2,825,021,534	0	2,825,021,534	1.54%	1.54%	5.44%	
2007	2,782,106,909	0	2,782,106,909	6.41%	6.41%	6.08%	
2006	2,614,587,245	0	2,614,587,245	6.63%	6.63%		
2005	2,452,084,084	0	2,452,084,084	6.36%	6.36%		
2004	2,305,382,935	0	2,305,382,935	6.24%	6.24%		
2003	2,169,886,032	0	2,169,886,032	4.74%	4.74%		
2002	2,071,597,144	0	2,071,597,144				

Enrollment Projections

L'Anse Creuse Public Schools

50-140

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 Builders

Source Stanfred Consultants

Explanation of Method Selected

1.5 Projections expecting enrollments to fall between the Most Likely and High projections, closer to the Most Likely projections - Two times the Most Likely projections, plus the High projections, divided by three

Subtotals by Grade:

Grade 1	2018-19 Preceding 5-Year Enrollment 2	2023-24 Current Enrollment 3	2028-29 Projected 5-Year Enrollment 4	(Col 4 - Col 3) / Col 3 Projected Enrollment Change (%) 5
K		653	650	-0.46%
1		618	621	0.43%
2		664	621	-6.53%
3		656	634	-3.30%
4		692	659	-4.72%
5		690	648	-6.04%
6		706	666	-5.62%
7		759	714	-5.88%
8		681	699	2.69%
9		713	707	-0.84%
10		679	670	-1.28%
11		704	642	-8.76%
12		698	686	-1.77%
Total	9,928	8,913	8,619	-3.30%

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.

Project Sheet

Atwood Elementary				Project No. [n]	1
Proposal #:	Series 1	Series 2	n/a	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.

Construction Cost Per Square Foot

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

Does this proposed project address any existing environmental or usability problems? (check all that apply)

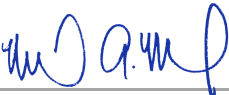
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

Estimated Cost of Proposed Construction Project

Column 1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	312,443	1,821,291	0	0	2,133,734
Construction Contingencies	295,090	229,754	0	0	524,844
Instructional Technology	706,383	62,280	0	0	768,663
Loose Furnishing/Equipment	0	147,829	0	0	147,829
Buses	0	0	0	0	0
Site Work	1,932,076	266,138	0	0	2,198,214
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	250,123	195,736	0	0	445,860
CM Fees and Costs	314,927	272,745	0	0	587,672
Estimated Costs	3,811,042	2,995,774	0	0	6,806,816

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.


6/17/2024 PARTNERS in Architecture, PLC #44723

Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA 586-469-3600
 Printed Name mmalone@partnersinarch.com Phone Number
 E-mail Address

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: K-5

Atwood Elementary

Year Built: 2004

45690 North Ave, Macomb, MI

Building Size: 69,296

Building Project Work List

Site Size: 9.90

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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REMODELING WORK

Exterior Work

Roofing

roof work - priority 1	3,355	sqft	26.31	88,300	102,218	135,063	1	2
roof work - priority 2	13,245	sqft	26.31	348,500	403,432	533,063	1	2

Envelope

upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	1	2
replace select exterior doors - high priority	12	ea	5,500.00	66,000	76,403	100,953	1	2

Exterior Work Subtotal: 524,800 607,522 802,730

Interior Work

replace interior openings	1	allo	25,000.00	25,000	28,941	38,240	2	2
replace carpet (classrooms, media center, offices)	36,860	sqft	9.00	331,700	383,984	507,366	1	2
replace architectural trim out/specialties	1	lpsm	28,500.00	28,500	32,992	43,593	1	1

Interior Work Subtotal: 385,200 445,917 589,199

Mechanical Systems

Plumbing Work

replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	1	2
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HVAC System

upgrade temperature controls	69,296	sqft	6.00	415,800	481,340	636,005	1	2
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Mechanical Systems Subtotal: 491,800 569,320 752,254

Electrical Systems

Power

electrical to support technology	33	ea	1,500.00	49,500	57,302	75,715	1	1
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Lighting

upgrade building exterior lighting	1	lpsm	17,000.00	17,000	19,680	26,003	1	2
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Electrical Systems Subtotal: 66,500 76,982 101,718

Construction Subtotal: 1,468,300 1,699,741 2,245,901

Technology Infrastructure

demo coax/legacy cables	1	lpsm	7,500.00	7,500	8,682	10,649	1	1
replace cabling infrastructure	69,296	sf	0.65	45,000	52,093	63,892	1	1
replace fiber to IDFs	1	ea	3,500.00	3,500	4,052	4,969	1	1
replace network switches - core/aggregate	1	ea	5,000.00	5,000	5,788	7,099	1	1
replace network switches - edge	12	ea	4,000.00	48,000	55,566	68,152	1	1
replace rack UPS	2	ea	1,200.00	2,400	2,778	3,408	1	1
update wireless infrastructure	37	ea	1,200.00	44,400	51,399	63,040	1	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1	1

Technology Infrastructure Subtotal: 180,800 209,299 256,705

Technology Safety & Security

upgrade security camera system	30	ea	1,500.00	45,000	52,093	63,892	1	1
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1	1
install emergency alert system	69,296	sf	0.75	52,000	60,197	73,831	1	2
replace PA systems	69,296	sf	1.25	86,600	100,250	122,957	1	2

Technology Safety & Security Subtotal: 194,100 224,695 275,588

Technology & Safety Infrastructure Subtotal: 374,900 433,994 532,293

REMODELING SUBTOTAL: 1,843,200 2,133,734 2,778,195

SITE WORK

Site Paving

repave parking lot & sidewalks	103,200	sqft	11.78	1,215,700	1,407,325	1,859,526	1	1
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Site Paving Subtotal: 1,215,700 1,407,325 1,859,526

Site Improvements

upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	1	1
upgrade playground soft surfaces	8,130	sqft	25.00	203,300	235,345	310,966	1	1
replace playground pavement surfaces	29,400	sqft	3.50	102,900	119,120	157,395	2	2
replace athletic fields, exterior courts, & furnishings	1	lpsm	75,000.00	75,000	86,822	114,719	2	2
upgrade site sign - digital	1	lpsm	52,000.00	52,000	60,197	79,539	2	2

Site Improvement Subtotal: 683,200 790,889 1,045,018

SITE WORK SUBTOTAL: 1,898,900 2,198,214 2,904,544

INSTRUCTIONAL TECHNOLOGY

Computers and Mobile Devices

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: K-5

Atwood Elementary

Year Built: 2004

45690 North Ave, Macomb, MI

Building Size: 69,296

Building Project Work List

Site Size: 9.90

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
		teacher computers (desktop + 1:1 device)	35	each	1,250.00	43,800	50,704	62,188	2	2
		admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2	2
		student desktops	40	each	800.00	32,000	37,044	45,434	1	1
		mobile devices: k-5 (iPads)	721	each	400.00	288,200	333,628	409,194	1	1
		mobile device storing/charging (classroom)	30	each	400.00	12,000	13,892	17,038	1	1
		mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual										
		classroom AV (display, sound, PA, doc camera)	30	each	9,000.00	270,000	312,559	383,353	1	1
		conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							768,663	942,765		

FURNITURE, FURNISHINGS AND EQUIPMENT

Non-Instructional Equipment

		purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
		purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
		purchase radio / walkie-talkies	37	each	400.00	14,800	17,133	21,013	1	2
Non-Instructional Equipment Subtotal:							32,761	40,181		

Furniture, Furnishings & Equipment (FFE)

		purchase furniture	1	lpsm	99,428	99,400	115,068	141,131	2	2
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F,F,&E Subtotal: 115,068 141,131

F, F, & E SUBTOTAL: 147,829 181,312

PROJECT TOTAL:							5,248,440	6,806,816		
Construction Contingency:							524,844			
Permits / General Conditions:							171,510			
Design Consultants:							445,860			
C.M. Costs:							416,162			
BUILDING TOTAL:							6,806,816			

Notes:

Scope of work is conceptual and will be detailed throughout the design phase
 Indirect Costs include; contingency, general conditions & professional fees

Building Utilization

School Building Name

Atwood Elementary

Project No. [n] 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	14	25	350
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	24		550
Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	0		0
Total	24		550

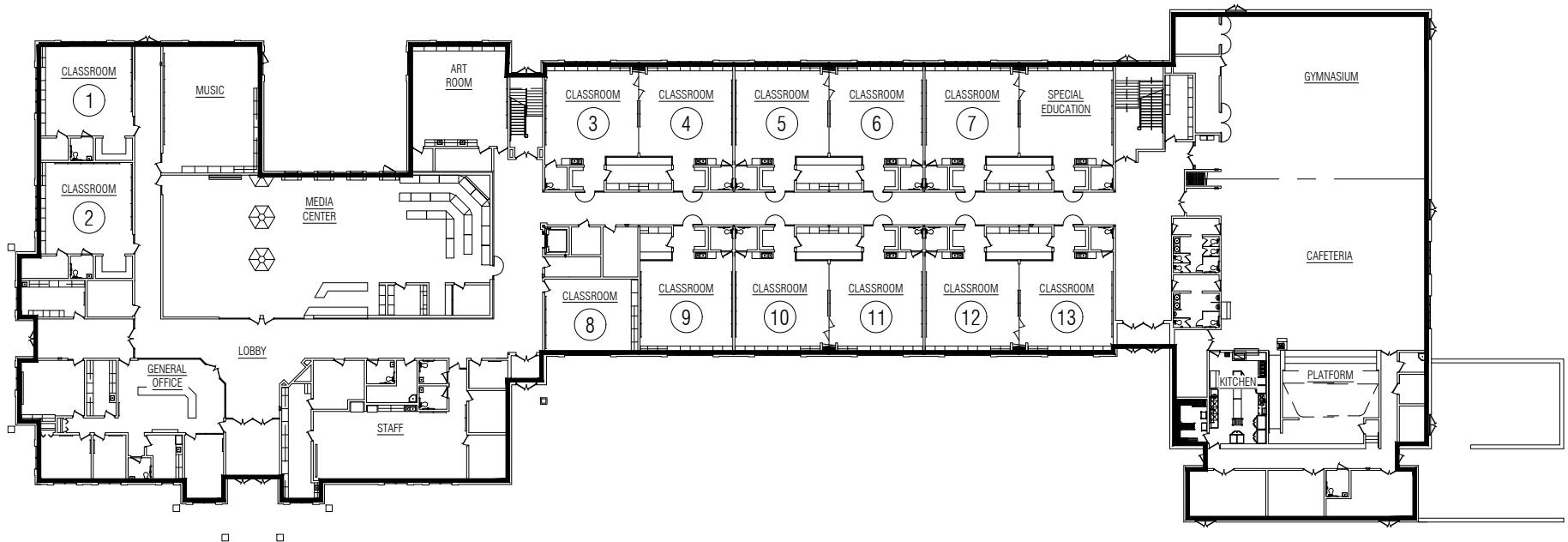
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

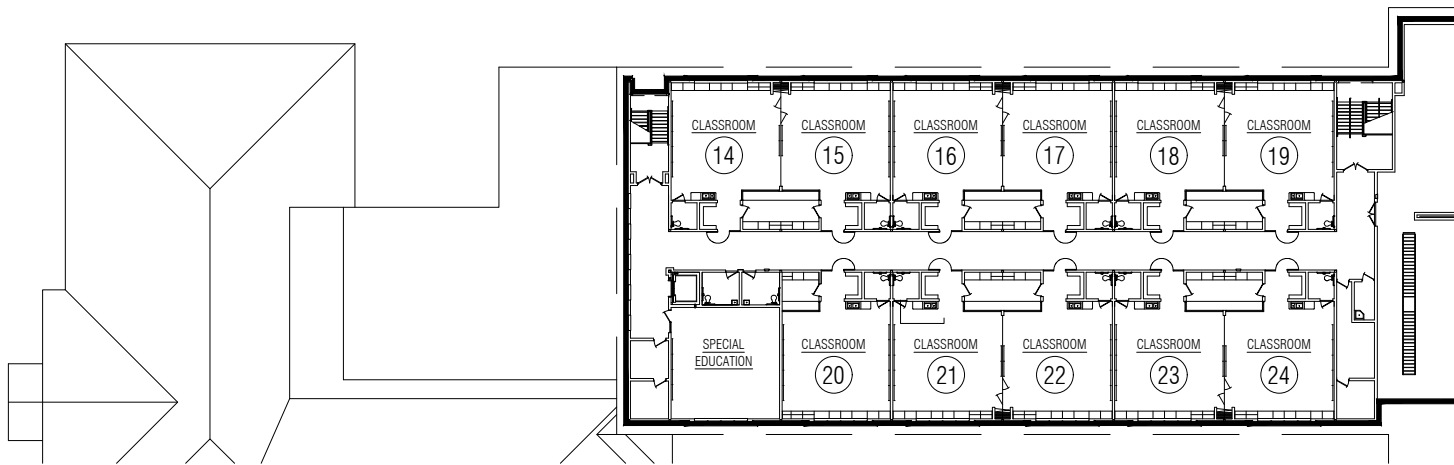
Projected 5-Year Enrollment 570

Utilization Percentage 104%

(Projected 5-Year Enrollment / Total Capacity)




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

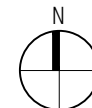
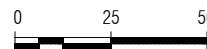




PARTNERS in Architecture, PLC

KEY

-  NEW CONSTRUCTION
-  REMODELED AREA
-  TEACHING STATION



Atwood Elementary Second Floor
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

Carkenord Elementary				Project No. [n]	2
Proposal #:	Series 1	Series 2	n/a	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

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

Does this proposed project address any existing environmental or usability problems? (check all that apply)

<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

Estimated Cost of Proposed Construction Project

Column 1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	4,866,961	455,815	0	0	5,322,776
Construction Contingencies	665,035	93,834	0	0	758,870
Instructional Technology	697,539	60,775	0	0	758,314
Loose Furnishing/Equipment	0	147,397	0	0	147,397
Buses	0	0	0	0	0
Site Work	1,085,852	274,357	0	0	1,360,209
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	566,486	79,632	0	0	646,118
CM Fees and Costs	787,152	102,815	0	0	889,967
Estimated Costs	8,669,024	1,214,626	0	0	9,883,651

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.


6/17/2024
PARTNERS in Architecture, PLC #44723

Signature Date Firm Name and License Number

Michael A. Malone, AIA mmalone@partnersinarch.com 586-469-3600
 Printed Name E-mail Address Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: K-5

Carkenord Elementary

Year Built: 2001

27100 24-Mile Road, Chesterfield, MI

Building Size: 69,375

Building Project Work List

Site Size: 23.00

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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REMODELING WORK

Exterior Work

Roofing

roof work - priority 1	80,000	sqft	10.38	830,400	961,292	1,270,174	1	1
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Envelope

replace exterior masonry	1	lpsm	8,500	8,500	9,840	13,002	1	1
upgrade select exterior glazing	1	lpsm	22,000	22,000	25,468	33,651	1	1
replace select exterior envelope materials	1	lpsm	45,000	45,000	52,093	68,832	1	1
replace EIFS with metal panel	2,796	sqft	70.00	195,720	226,570	299,372	1	1
replace select exterior doors - high priority	12	ea	5,500	66,000	76,403	100,953	1	1

Exterior Work Subtotal: 1,167,620 1,351,666 1,785,983

Interior Work

replace casework (countertops and hardware)	1	lpsm	78,250.00	78,250	90,584	119,691	2	2
replace interior openings	1	allo	50,000.00	50,000	57,881	76,480	2	2
replace drywall partitions & paint due to construction	1	lpsm	167,500.00	167,500	193,902	256,207	2	2
replace carpet (classrooms, media center, offices)	50,500	sqft	9.00	454,500	526,141	695,200	1	1
replace VCT flooring (gym, cafeteria, service)	6,000	sqft	8.00	48,000	55,566	73,420	2	2
replace architectural trim out/specialties	1	lpsm	45,000.00	45,000	52,093	68,832	1	1

Interior Work Subtotal: 843,250 976,167 1,289,829

Mechanical Systems

Plumbing Work

replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	1	1
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HVAC System

replace roof top units, classroom units, valves, pumps, & select piping	1	lpsm	1,463,000.00	1,463,000	1,693,605	2,237,795	1	1
replace mdf/idf air conditioning	3	ea	15,000.00	45,000	52,093	68,832	1	1

Integrated Automation

upgrade temperature controls	69,375	sqft	6.00	416,250	481,861	636,693	1	1
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Mechanical Systems Subtotal: 2,000,250 2,315,539 3,059,569

Electrical Systems

Power

electrical to support technology	32	ea	1,500.00	48,000	55,566	73,420	1	1
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Lighting

upgrade building exterior lighting	17	ea	850.00	14,450	16,728	22,103	1	1
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Electrical Systems Subtotal: 62,450 72,294 95,523

Construction Subtotal: 4,073,570 4,715,666 6,230,904

Technology Infrastructure

demo coax/legacy cables	1	lpsm	7,500.00	7,500	8,682	10,649	1	1
replace cabling infrastructure	69,375	sf	0.65	45,094	52,202	64,025	1	1
replace fiber to IDFs	2	ea	3,500.00	7,000	8,103	9,939	1	1
replace network switches - core/aggregate	1	ea	5,000.00	5,000	5,788	7,099	1	1
replace network switches - edge	16	ea	4,000.00	64,000	74,088	90,869	1	1
replace rack UPS	3	ea	1,200.00	3,600	4,167	5,111	1	1
update wireless infrastructure	40	ea	1,200.00	48,000	55,566	68,152	1	1
data center (disaster recovery) - series 1	1	lpsm	75,000.00	75,000	86,822	106,487	1	1
data center (disaster recovery) - series 2	1	lpsm	50,000.00	50,000	57,881	70,991	2	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1	1

Technology Infrastructure Subtotal: 330,194 382,241 468,818

Technology Safety & Security

upgrade security camera system	30	ea	1,500.00	45,000	52,093	63,892	1	1
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1	1
install emergency alert system	69,375	sf	0.75	52,031	60,233	73,875	1	1
replace PA systems	69,375	sf	1.25	86,719	100,388	123,126	1	1

Technology Safety & Security Subtotal: 194,250 224,869 275,801

Technology & Safety Infrastructure Subtotal: 524,444 607,109 744,619

REMODELING SUBTOTAL: 4,598,014 5,322,776 6,975,524

SITE WORK

Site Paving

repave north lot, drop off loop, & sidewalks	1	lpsm	525,500.00	525,500	608,332	803,801	1	1
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Site Paving Subtotal: 608,332 803,801

Site Improvements

upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	1	1
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L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: K-5

Carkenord Elementary

Year Built: 2001

27100 24-Mile Road, Chesterfield, MI

Building Size: 69,375

Building Project Work List

Site Size: 23.00

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
		upgrade playground soft surfaces	6,500	sqft	25.00	162,500	188,114	248,559	1	1
		replace playground pavement surfaces	50,000	ea	3.50	175,000	202,584	267,679	2	2
		replace athletic fields, exterior courts, & furnishings	1	lpsm	10,000.00	10,000	11,576	15,296	2	2
		upgrade site sign - digital	1	lpsm	52,000.00	52,000	60,197	79,539	2	2
Site Improvement Subtotal:							751,877	993,471		
SITE WORK SUBTOTAL:							1,360,209	1,797,272		

INSTRUCTIONAL TECHNOLOGY

Computers and Mobile Devices

		teacher computers (desktop + 1:1 device)	34	each	1,250.00	42,500	49,199	60,343	2	2
		admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2	2
		student desktops	40	each	800.00	32,000	37,044	45,434	1	1
		mobile devices: k-5 (iPads)	725	each	400.00	289,960	335,665	411,693	1	1
		mobile device storing/charging (classroom)	29	each	400.00	11,600	13,428	16,470	1	1
		mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1

Audiovisual

		classroom AV (display, sound, PA, doc camera)	29	each	9,000.00	261,000	302,140	370,575	1	1
		conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1

INSTRUCTIONAL TECHNOLOGY SUBTOTAL: 758,314 930,072

FURNITURE, FURNISHINGS AND EQUIPMENT

Non-Instructional Equipment

		purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
		purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
		purchase radio / walkie-talkies	36	each	400.00	14,400	16,670	20,446	1	2

Non-Instructional Equipment Subtotal: 32,298 39,613

Furniture, Furnishings & Equipment (FFE)

		purchase furniture	1	lpsm	99,427.50	99,428	115,100	141,170	2	2
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F,F,&E Subtotal: 115,100 141,170

F, F, & E SUBTOTAL: 147,397 180,783

PROJECT TOTAL: 7,588,696 9,883,651

Notes:

Scope of work is conceptual and will be detailed throughout the design phase
Indirect Costs include; contingency, general conditions & professional fees

Construction Contingency: 758,870
Permits / General Conditions: 267,339
Design Consultants: 646,118
C.M. Costs: 622,628

BUILDING TOTAL: 9,883,651

Building Utilization

School Building Name

Carkenord Elementary

Project No. [n] 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	14	25	350
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	24		550

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

Total	24		550
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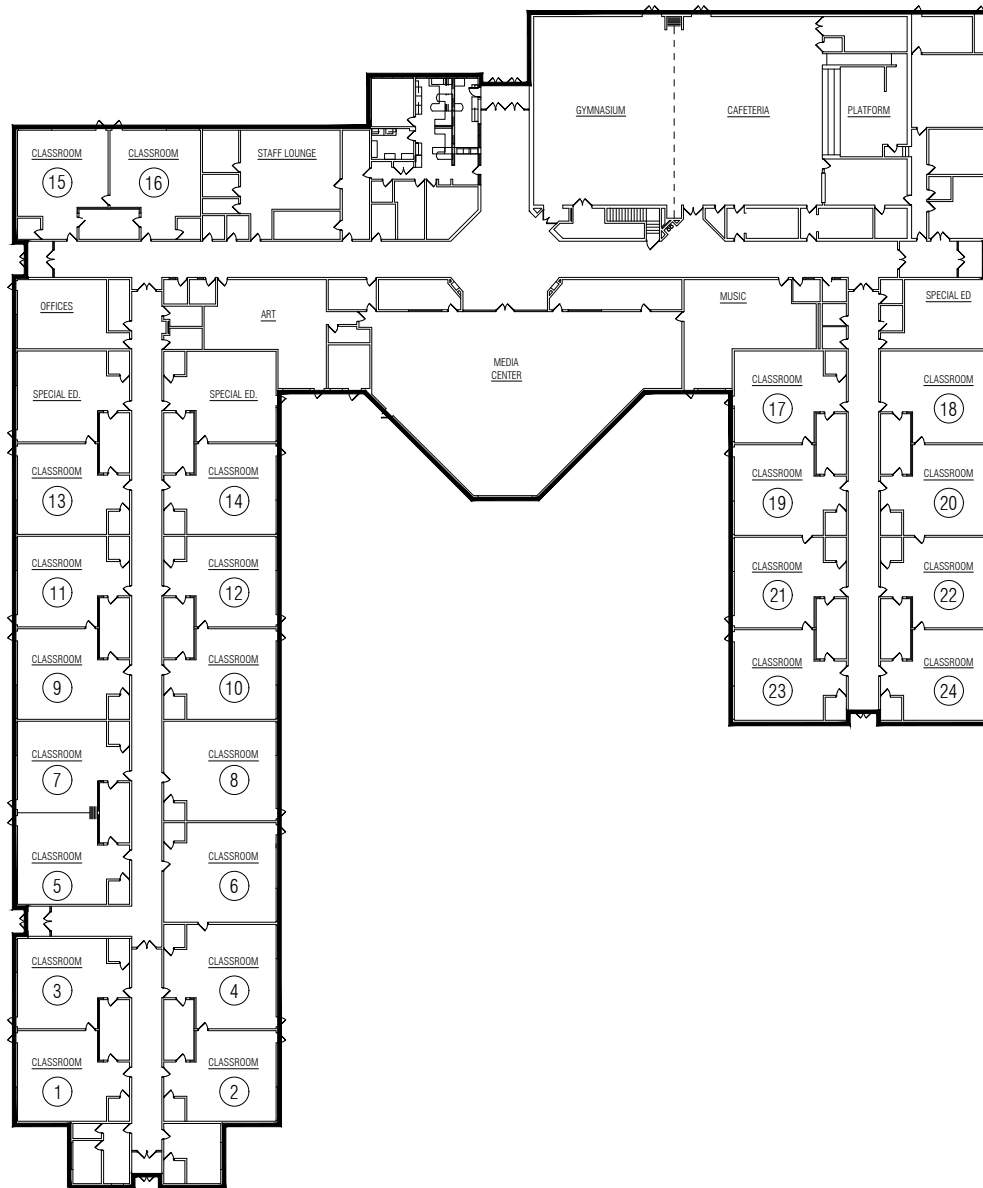
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 570

Utilization Percentage 104%

(Projected 5-Year Enrollment / Total Capacity)

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



Project Sheet

Graham Elementary & Early Childhood Center	Project No. [n]	3
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Proposal #:	Series 1	Series 2	n/a	n/a	<i>For multiple proposals, include a separate project page for each.</i>
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

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

Does this proposed project address any existing environmental or usability problems? (check all that apply)

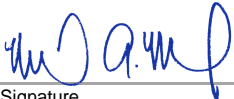
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

Estimated Cost of Proposed Construction Project

Column 1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	3,658,152	263,971	0	0	3,922,123
Construction Contingencies	458,242	126,997	0	0	585,239
Instructional Technology	498,844	56,434	0	0	555,278
Loose Furnishing/Equipment	0	137,326	0	0	137,326
Buses	0	0	0	0	0
Site Work	425,427	812,238	0	0	1,237,666
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	390,783	107,705	0	0	498,488
CM Fees and Costs	554,771	137,207	0	0	691,978
Estimated Costs	5,986,219	1,641,879	0	0	7,628,098

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.


6/17/2024
PARTNERS in Architecture, PLC #44723

Signature Date Firm Name and License Number

Michael A. Malone, AIA mmalone@partnersinarch.com 586-469-3600
 Printed Name E-mail Address Phone Number

2024 Bond Program

Grades: preK-5

Graham Elementary / Early Childhood Center

Year Built: 1964

25555 Crocker Blvd, Harrison Twp, MI

Building Size: 60,614

Building Project Work List

Site Size: 9.83

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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REMODELING WORK

Exterior Work

Roofing

roof work - priority 1	43,500	sqft	25.00	1,087,500	1,258,917	1,663,432	1	1
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Envelope

replace exterior masonry	1	lpsm	15,480.00	15,480	17,920	23,678	1	1
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	1	1
replace select exterior envelop materials	1	lpsm	16,000.00	16,000	18,522	24,473	1	1
reroute roof overflow drainage	1	lpsm	3,000.00	3,000	3,473	4,589	1	1
replace EIFS with metal panel	2,796	sqft	70.00	195,720	226,570	299,372	1	1
replace select exterior doors - high priority	12	ea	5,500.00	66,000	76,403	100,953	1	1

Exterior Work Subtotal: 1,627,273 2,150,149

Interior Work

replace casework (countertops and hardware)	1	lpsm	35,000.00	35,000	40,517	53,536	1	1
replace interior openings	1	allo	50,000.00	50,000	57,881	76,480	2	2
replace drywall partitions & paint due to construction	1	allo	5,000.00	5,000	5,788	7,648	1	1
replace carpet (classrooms, media center, offices)	38,100	sqft	9.00	342,900	396,950	524,497	1	1
replace VCT flooring (gym, cafeteria, service)	2,000	sqft	8.00	16,000	18,522	24,473	2	2

Interior Work Subtotal: 519,658 686,634

Mechanical Systems

Plumbing Work

replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	1	1
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HVAC System

replace roof top units, classroom units, valves, pumps, & select piping	1	lpsm	635,066.00	635,066	735,168	971,393	1	1
replace mdf/idf air conditioning	2	ea	15,000.00	30,000	34,729	45,888	1	1

Integrated Automation

upgrade temperature control system	60,614	sqft	6.00	363,684	421,010	556,289	1	1
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Mechanical Systems Subtotal: 1,278,886 1,689,818

Electrical Systems

Power

electrical to support technology	29	ea	1,500.00	43,500	50,357	66,537	1	1
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Lighting

upgrade building exterior lighting	34	ea	850.00	28,900	33,455	44,205	1	1
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Electrical Systems Subtotal: 83,812 110,743

Construction Subtotal: 3,509,630 4,637,344

Technology Infrastructure

demo coax/legacy cables	1	lpsm	7,500.00	7,500	8,682	10,649	1	1
replace cabling infrastructure	60,614	sf	0.65	39,399	45,609	55,940	1	1
replace fiber to IDFs	1	ea	3,500.00	3,500	4,052	4,969	1	1
replace network switches - core/aggregate	1	ea	5,000.00	5,000	5,788	7,099	1	1
replace network switches - edge	14	ea	4,000.00	56,000	64,827	79,510	1	1
replace rack UPS	2	ea	1,200.00	2,400	2,778	3,408	1	1
update wireless infrastructure	34	ea	1,200.00	40,800	47,231	57,929	1	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1	1

Technology Infrastructure Subtotal: 207,908 255,000

Technology Safety & Security

upgrade security camera system	30	ea	1,500.00	45,000	52,093	63,892	1	1
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1	1
install emergency alert system	60,614	sf	0.75	45,461	52,626	64,546	1	2
replace PA systems	60,614	sf	1.25	75,768	87,710	107,577	1	2

Technology Safety & Security Subtotal: 204,585 250,923

Technology & Safety Infrastructure Subtotal: 412,493 505,923

REMODELING SUBTOTAL: 3,922,123 5,143,267

SITE WORK

Site Paving

repave parking lots, bus loop, driveway, & sidewalks	1	lpsm	376,150.00	376,150	435,441	575,356	1	2
Repave side lot	1	lpsm	183,542.00	183,542	212,473	280,745	2	2

Site Paving Subtotal: 647,913 856,101

Site Improvements

upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	1	1
upgrade playground soft surfaces	4,700	sqft	25.00	117,500	136,021	179,727	1	1

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: preK-5

Graham Elementary / Early Childhood Center

Year Built: 1964

25555 Crocker Blvd, Harrison Twp, MI

Building Size: 60,614

Building Project Work List

Site Size: 9.83

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
		replace playground pavement surfaces	25,700	sqft	3.50	89,950	104,128	137,587	2	2
		upgrade site sign - digital	1	lpsm	52,000.00	52,000	60,197	79,539	2	2
Site Improvement Subtotal:							589,752	779,251		
SITE WORK SUBTOTAL:							1,237,666	1,635,352		

INSTRUCTIONAL TECHNOLOGY										
Computers and Mobile Devices										
		teacher computers (desktop + 1:1 device)	31	each	1,250.00	38,750	44,858	55,018	2	2
		admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2	2
		student desktops	40	each	800.00	32,000	37,044	45,434	1	1
		mobile devices: k-5 (iPads)	366	each	400.00	146,520	169,615	208,033	1	1
		mobile device storing/charging (classroom)	26	each	400.00	10,400	12,039	14,766	1	1
		mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual										
		classroom AV (display, sound, PA, doc camera)	26	each	9,000.00	234,000	270,884	332,240	1	1
		conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							555,278	681,048		

FURNITURE, FURNISHINGS AND EQUIPMENT										
Non-Instructional Equipment										
		purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
		purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
		purchase radio / walkie-talkies	33	each	400.00	13,200	15,281	18,742	1	2
Non-Instructional Equipment Subtotal:							30,909	37,909		
Furniture, Furnishings & Equipment (FFE)										
		purchase furniture	1	lpsm	91,927.50	91,928	106,418	130,521	2	2
F,F,&E Subtotal:							106,418	130,521		
F, F, & E SUBTOTAL:							137,326	168,431		

PROJECT TOTAL:							5,852,392	7,628,098			
Construction Contingency:							585,239				
Permits / General Conditions:							208,881				
Design Consultants:							498,488				
C.M. Costs:							483,097				
BUILDING TOTAL:							7,628,098				

Notes:

Scope of work is conceptual and will be detailed throughout the design phase
 Indirect Costs include; contingency, general conditions & professional fees

Building Utilization

School Building Name

Graham Elementary & Early Childhood Center

Project No. [n] 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	7	20	140
(3-5) Upper Elementary	7	25	175
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	14		315

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

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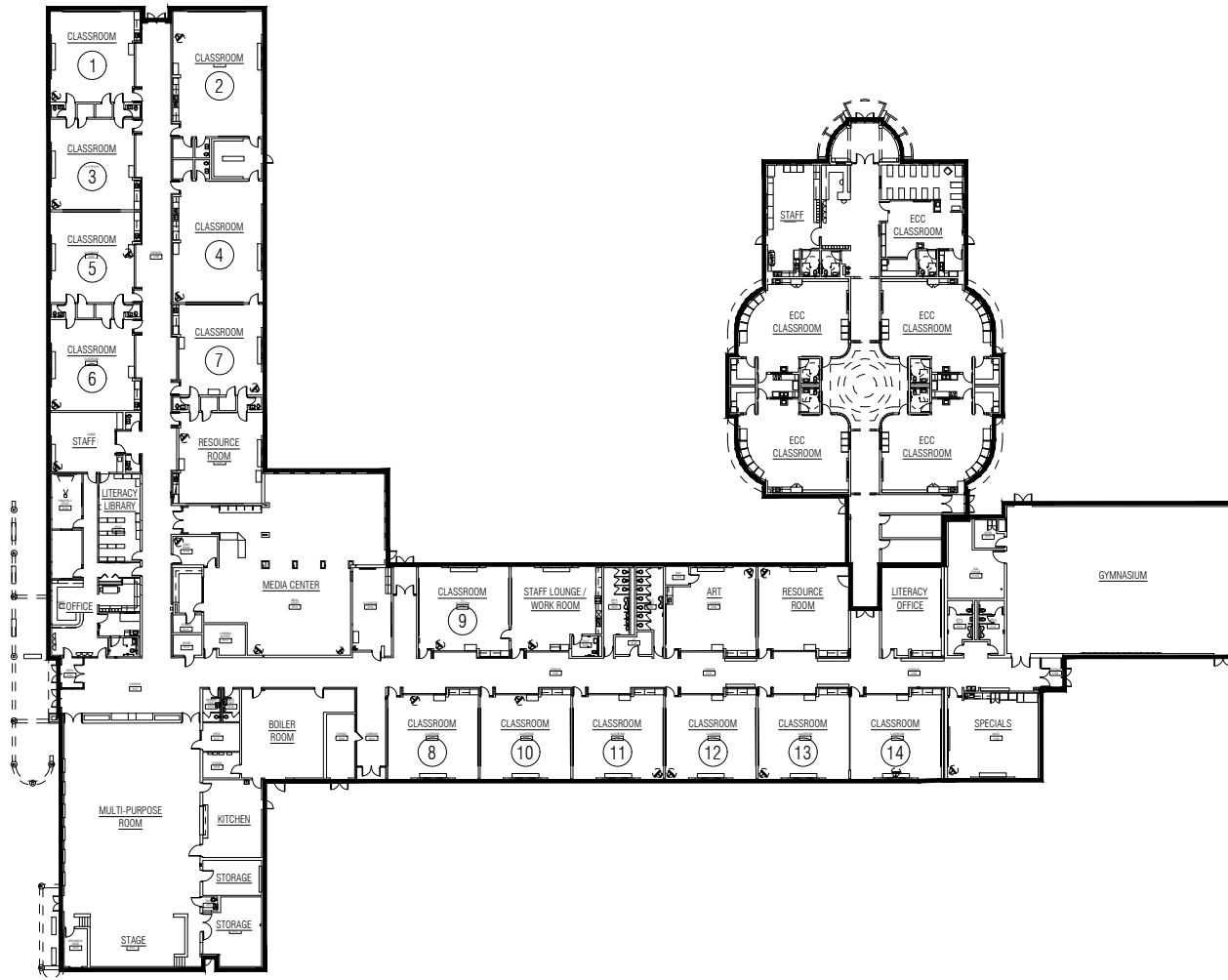
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 350




Utilization Percentage 111%

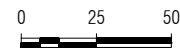
(Projected 5-Year Enrollment / Total Capacity)

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



PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION



Graham Elementary
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

Green Elementary				Project No. [n]	4
Proposal #:	Series 1	Series 2	n/a	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.

Construction Cost Per Square Foot

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

Does this proposed project address any existing environmental or usability problems? (check all that apply)

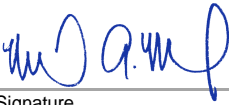
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

Estimated Cost of Proposed Construction Project

Column 1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	230,252	1,852,992	0	0	2,083,243
Construction Contingencies	133,937	294,299	0	0	428,236
Instructional Technology	591,083	60,775	0	0	651,859
Loose Furnishing/Equipment	0	138,715	0	0	138,715
Buses	0	0	0	0	0
Site Work	518,037	890,508	0	0	1,408,545
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	112,391	251,261	0	0	363,652
CM Fees and Costs	111,429	364,246	0	0	475,674
Estimated Costs	1,697,129	3,852,796	0	0	5,549,925

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.


6/17/2024
PARTNERS in Architecture, PLC #44723

Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.com 586-469-3600
 Printed Name E-mail Address Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: K-5

Green Elementary

Year Built: 2009

47260 Sugarbush Road, Chesterfield, MI

Building Size: 71,473

Building Project Work List

Site Size: 7.75

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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REMODELING WORK

Exterior Work

Roofing

Envelope

upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	1	2
replace select exterior envelop materials	1	lpsm	279,900.00	279,900	324,019	428,133	1	2
reroute roof overflow drainage	1	lpsm	7,500.00	7,500	8,682	11,472	1	2

Exterior Work Subtotal: 309,400 358,169 473,256

Interior Work

replace interior openings	1	allo	25,000.00	25,000	28,941	38,240	2	2
replace carpet (classrooms, media center, offices)	38,500	lpsm	9.00	346,500	401,117	530,004	5	2
replace architectural trim out/specialties	1	lpsm	15,000.00	15,000	17,364	22,944	1	2

Interior Work Subtotal: 386,500 447,422 591,188

Mechanical Systems

Plumbing Work

replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	1	2
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HVAC System

replace AC chiller, rooftop units, classroom units, refurbish mezzanine units	1	lpsm	202,200.00	202,200	234,072	309,284	2	2
replace mdf/idf air conditioning	2	ea	15,000.00	30,000	34,729	45,888	1	2

Integrated Automation

upgrade temperature control system	71,473	sqft	6.00	428,838	496,434	655,948	1	2
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Mechanical Systems Subtotal: 737,038 853,214 1,127,368

Electrical Systems

Power

electrical to support technology	32	ea	1,500.00	48,000	55,566	73,420	1	1
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Lighting

upgrade building exterior lighting	16	ea	850.00	13,600	15,744	20,802	5	2
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Electrical Systems Subtotal: 61,600 71,310 94,223

Construction Subtotal: 1,494,538 1,730,115 2,286,035

Technology Infrastructure

data cabling for renovations	1	ea	10,000.00	10,000	11,576	14,198	2	2
demo coax/legacy cables	1	lpsm	7,500.00	7,500	8,682	10,649	1	1
replace fiber to IDFs	1	ea	3,500.00	3,500	4,052	4,969	1	1
replace network switches - core/aggregate	1	ea	5,000.00	5,000	5,788	7,099	1	1
replace network switches - edge	13	ea	4,000.00	52,000	60,197	73,831	1	1
replace rack UPS	2	ea	1,200.00	2,400	2,778	3,408	1	1
update wireless infrastructure	1	ea	1,200.00	1,200	1,389	1,704	1	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1	1

Technology Infrastructure Subtotal: 106,600 123,403 151,354

Technology Safety & Security

upgrade security camera system	30	ea	1,500.00	45,000	52,093	63,892	1	1
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1	1
install emergency alert system	71,473	sf	0.75	53,605	62,054	76,109	1	2
replace PA systems	71,473	sf	1.25	89,341	103,424	126,849	1	2

Technology Safety & Security Subtotal: 198,446 229,726 281,759

Technology & Safety Infrastructure Subtotal: 305,046 353,129 433,113

REMODELING SUBTOTAL: 1,799,584 2,083,243 2,719,148

SITE WORK

Site Paving

repave parking lot including stormwater management	1	lpsm	637,100.00	637,100	737,523	974,504	1	2
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Site Paving Subtotal: 637,100 737,523 974,504

Site Improvements

upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	1	1
upgrade playground soft surfaces	7,900	sqft	25.00	197,500	228,631	302,095	1	1
replace playground pavement surfaces	21,900	sqft	3.66	80,154	92,788	122,603	2	2
upgrade site sign - digital	1	lpsm	52,000.00	52,000	60,197	79,539	2	2

Site Improvement Subtotal: 579,654 671,022 886,635

SITE WORK SUBTOTAL: 1,216,754 1,408,545 1,861,138

INSTRUCTIONAL TECHNOLOGY

Computers and Mobile Devices

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: K-5

Green Elementary

Year Built: 2009

47260 Sugarbush Road, Chesterfield, MI

Building Size: 71,473

Building Project Work List

Site Size: 7.75

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
		teacher computers (desktop + 1:1 device)	34	each	1,250.00	42,500	49,199	60,343	2	2
		admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2	2
		student desktops	40	each	800.00	32,000	37,044	45,434	1	1
		mobile devices: k-5 (iPads)	495	each	400.00	198,000	229,210	281,126	1	1
		mobile device storing/charging (classroom)	29	each	400.00	11,600	13,428	16,470	1	1
		mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual										
		classroom AV (display, sound, PA, doc camera)	29	each	9,000.00	261,000	302,140	370,575	1	1
		conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							651,859	799,505		

FURNITURE, FURNISHINGS AND EQUIPMENT

Non-Instructional Equipment

		purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
		purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
		purchase radio / walkie-talkies	36	each	400.00	14,400	16,670	20,446	1	2
Non-Instructional Equipment Subtotal:							32,298	39,613		

Furniture, Furnishings & Equipment (FFE)

		purchase furniture	1		91,927.50	91,928	106,418	130,521	2	2
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F,F,&E Subtotal: 106,418 130,521

F, F, & E SUBTOTAL: 138,715 170,134

PROJECT TOTAL: 4,282,362 5,549,925

Construction Contingency: 428,236

Permits / General Conditions: 138,101

Design Consultants: 363,652

C.M. Costs: 337,573

BUILDING TOTAL: 5,549,925

Notes:

Scope of work is conceptual and will be detailed throughout the design phase

Indirect Costs include; contingency, general conditions & professional fees

Building Utilization

School Building Name

Green Elementary

Project No. [n] 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	9	25	225
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	19		425

Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	0		0
Total	19		425

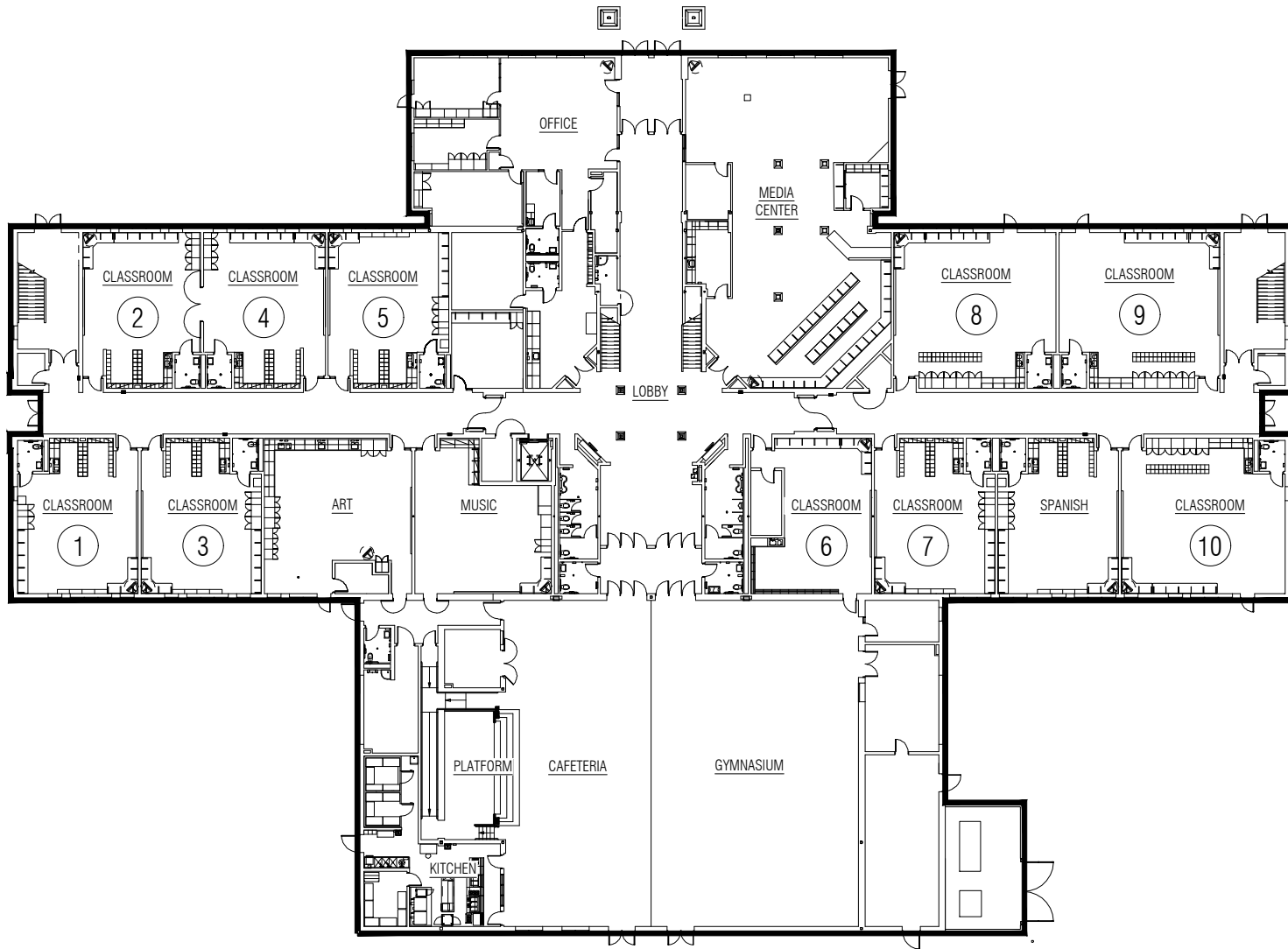
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

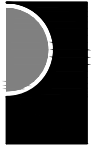
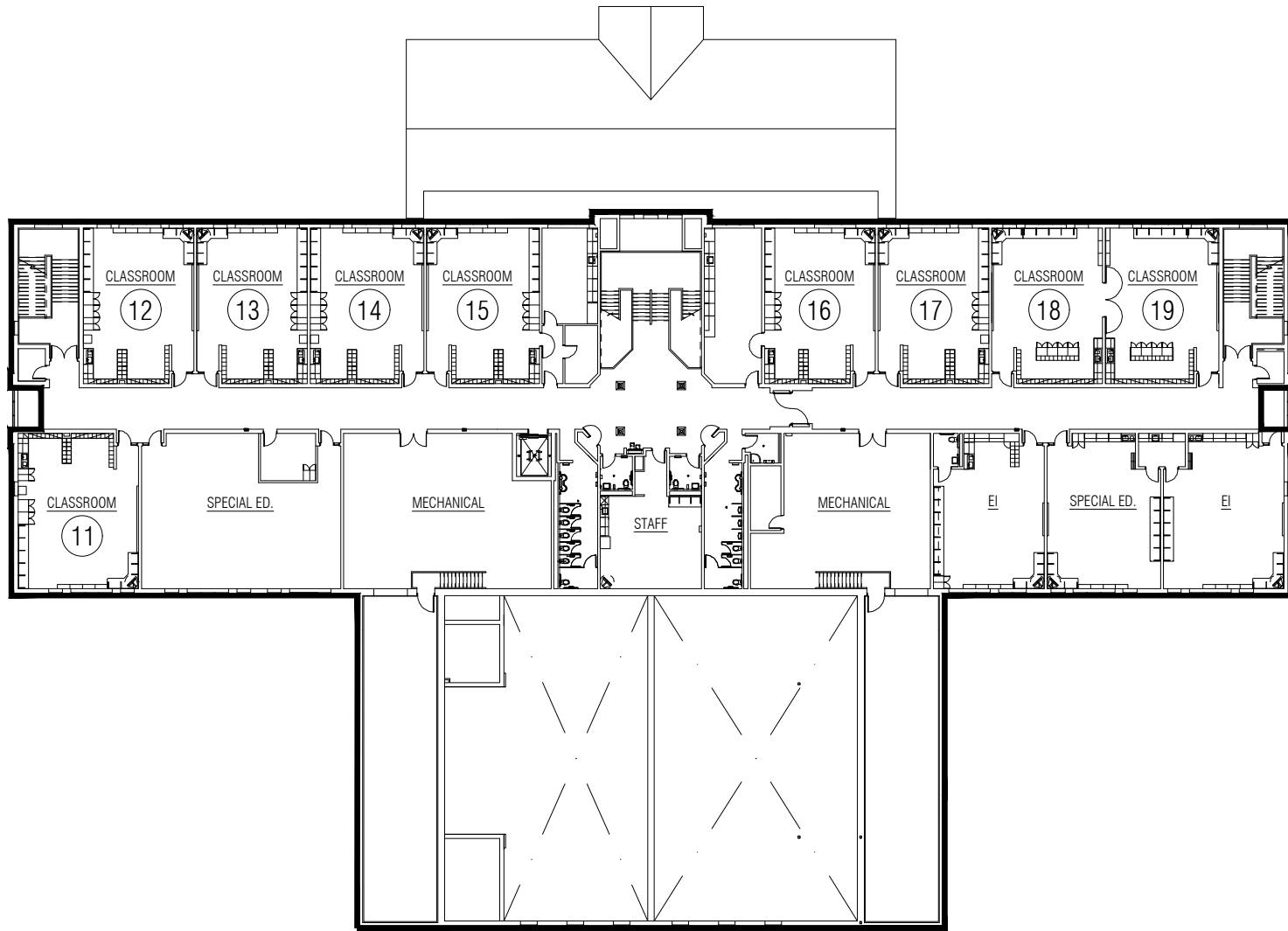
Projected 5-Year Enrollment 450

Utilization Percentage 106%




(Projected 5-Year Enrollment / Total Capacity)

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





PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION



Green Elementary Second Floor
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

Higgins Elementary				Project No. [n]	5
Proposal #:	Series 1	Series 2	n/a	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.

Construction Cost Per Square Foot

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

Does this proposed project address any existing environmental or usability problems? (check all that apply)

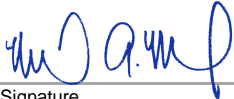
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements		
<input type="checkbox"/> Other - please list:	1.	2.	3.		

Estimated Cost of Proposed Construction Project

Column 1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	3,459,312	368,192	0	0	3,827,504
Construction Contingencies	591,764	124,270	0	0	716,034
Instructional Technology	529,729	54,987	0	0	584,716
Loose Furnishing/Equipment	0	145,545	0	0	145,545
Buses	0	0	0	0	0
Site Work	1,928,603	673,975	0	0	2,602,578
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	505,309	105,278	0	0	610,587
CM Fees and Costs	734,706	131,087	0	0	865,794
Estimated Costs	7,749,424	1,603,335	0	0	9,352,759

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.


6/17/2024
PARTNERS in Architecture, PLC #44723

Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.com 586-469-3600
 Printed Name E-mail Address Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: K-5

Higgins Elementary

Year Built: 1995

29901 24-Mile Road, Chesterfield, MI

Building Size: 66,129

Building Project Work List

Site Size: 17.46

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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REMODELING WORK

Exterior Work

Envelope

upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	1	1	
reroute roof overflow drainage	1	lpsm	57,600.00	57,600	66,679	88,105	1	1	
replace select exterior doors - high priority	12	ea	5,500.00	66,000	76,403	100,953	1	1	
replace select exterior doors - medium priority	33	ea	5,500.00	181,500	210,109	277,621	1	1	
Exterior Work Subtotal:						378,659	500,330		

Interior Work

replace casework (countertops and hardware)	1	lpsm	65,000.00	65,000	75,246	99,424	1	1	
replace interior openings	1	allo	50,000.00	50,000	57,881	76,480	2	2	
replace drywall partitions & paint due to construction	1	lpsm	40,000.00	40,000	46,305	61,184	2	2	
replace carpet (classrooms, media center, offices)	53,500	lpsm	9.00	481,500	557,396	736,499	1	1	
replace VCT flooring (gym, cafeteria, service)	4,000	sqft	8.00	32,000	37,044	48,947	2	2	
replace ceilings	64,000	lpsm	10.00	640,000	740,880	978,940	1	1	
replace architectural trim out/specialties	1	lpsm	16,000.00	16,000	18,522	24,473	1	1	
Interior Work Subtotal:						1,533,274	2,025,946		

Mechanical Systems

Plumbing Work

replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	1	1
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HVAC System

replace roof top units, classroom units, valves, pumps, & select piping	1	lpsm	751,726.00	751,726	870,217	1,149,835	1	1
replace mdf/idf air conditioning	1	ea	15,000.00	15,000	17,364	22,944	1	1

Integrated Automation

upgrade temperature control system	66,129	sqft	6.00	396,774	459,316	606,903	1	1
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Mechanical Systems Subtotal: 1,434,876 1,895,931

Electrical Systems

Power

electrical to support technology	28	ea	1,500.00	42,000	48,620	64,243	1	1
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Lighting

upgrade building exterior lighting	20	ea	850.00	17,000	19,680	26,003	2	2
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Electrical Systems Subtotal: 68,300 90,246

Construction Subtotal: 3,415,110 4,512,453

Technology Infrastructure

demo coax/legacy cables	1	lpsm	7,500.00	7,500	8,682	10,649	1	1
replace cabling infrastructure	66,129	sf	0.65	42,984	49,759	61,030	1	1
replace network switches - core/aggregate	1	ea	5,000.00	5,000	5,788	7,099	1	1
replace network switches - edge	10	ea	4,000.00	40,000	46,305	56,793	1	1
replace rack UPS	1	ea	1,200.00	1,200	1,389	1,704	1	1
update wireless infrastructure	39	ea	1,200.00	46,800	54,177	66,448	1	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1	1

Technology Infrastructure Subtotal: 195,041 239,218

Technology Safety & Security

upgrade security camera system	30	ea	1,500.00	45,000	52,093	63,892	1	1
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1	1
install emergency alert system	66,129	sf	0.75	49,597	57,414	70,419	1	2
replace PA systems	66,129	sf	1.25	82,661	95,691	117,365	1	2

Technology Safety & Security Subtotal: 217,353 266,584

Technology & Safety Infrastructure Subtotal: 412,394 505,802

REMODELING SUBTOTAL: 3,827,504 5,018,254

SITE WORK

Site Paving

repave sw parking lot, driveways, & sidewalks including stormwater mgnt	121,600	sqft	10.00	1,216,000	1,407,672	1,859,985	1	1
repave burdi north & south parking lots, sidewalks	40,500	sqft	7.61	308,205	356,786	471,428	1	2

Site Paving Subtotal: 1,764,458 2,331,413

Site Improvements

upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	1	1
upgrade playground soft surfaces	8,000	sqft	25.00	200,000	231,525	305,919	1	1
replace playground pavement surfaces	36,000	lpsm	2.00	72,000	83,349	110,131	2	2
replace athletic fields, exterior courts, & furnishings	2	ea	75,000.00	150,000	173,644	229,439	2	2
upgrade site sign - digital	1	lpsm	52,000.00	52,000	60,197	79,539	2	2

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: K-5

Higgins Elementary

Year Built: 1995

29901 24-Mile Road, Chesterfield, MI

Building Size: 66,129

Building Project Work List

Site Size: 17.46

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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Site Improvement Subtotal: 838,121 1,107,425
SITE WORK SUBTOTAL: 2,602,578 3,438,839

INSTRUCTIONAL TECHNOLOGY

Computers and Mobile Devices

teacher computers (desktop + 1:1 device)	30	each	1,250.00	37,500	43,411	53,244	2	2
admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2	2
student desktops	40	each	800.00	32,000	37,044	45,434	1	1
mobile devices: k-5 (iPads)	457	each	400.00	182,600	211,382	259,260	1	1
mobile device storing/charging (classroom)	25	each	400.00	10,000	11,576	14,198	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1

Audiovisual

classroom AV (display, sound, PA, doc camera)	25	each	9,000.00	225,000	260,466	319,461	1	1
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1

INSTRUCTIONAL TECHNOLOGY SUBTOTAL: 584,716 717,155

FURNITURE, FURNISHINGS AND EQUIPMENT

Non-Instructional Equipment

purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
purchase radio / walkie-talkies	32	each	400.00	12,800	14,818	18,174	1	2

Non-Instructional Equipment Subtotal: 30,446 37,341

Furniture, Furnishings & Equipment (FFE)

purchase furniture	1	lpsm	99,427.50	99,428	115,100	141,170	2	2
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F,F,&E Subtotal: 115,100 141,170

F, F, & E SUBTOTAL: 145,545 178,511

PROJECT TOTAL: 7,160,344 9,352,759

Construction Contingency: 716,034
 Permits / General Conditions: 264,778
 Design Consultants: 610,587
 C.M. Costs: 601,016

BUILDING TOTAL: 9,352,759

Notes:

Scope of work is conceptual and will be detailed throughout the design phase
 Indirect Costs include; contingency, general conditions & professional fees

Building Utilization

School Building Name

Higgins Elementary

Project No. [n] 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	10	25	250
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	17		390

Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	0		0
Total	17		390

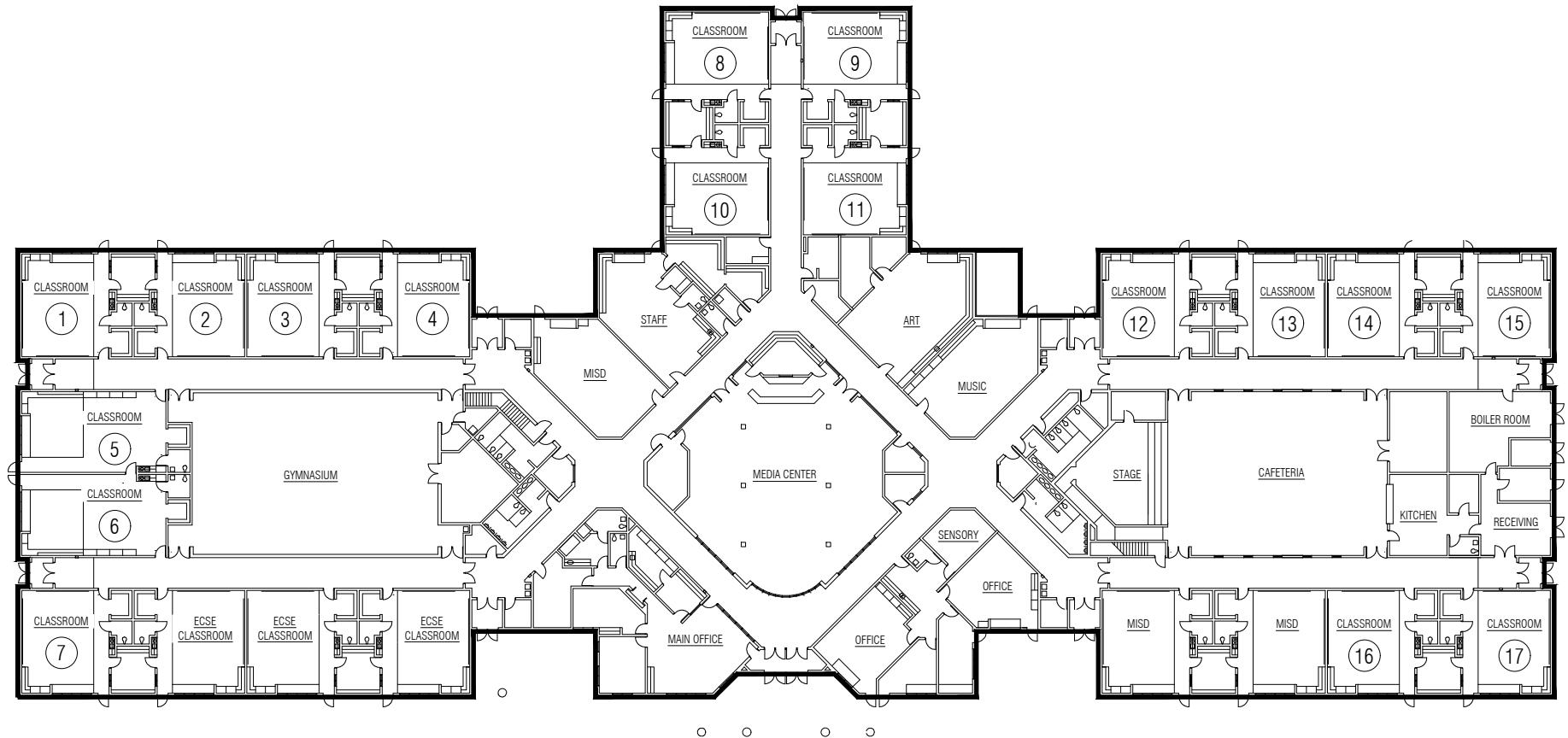
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 434




Utilization Percentage 111%

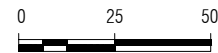
(Projected 5-Year Enrollment / Total Capacity)

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



PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION



Higgins Elementary
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

Lobbestsel Elementary				Project No. [n]	6
Proposal #:	Series 1	Series 2	n/a	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

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

Does this proposed project address any existing environmental or usability problems? (check all that apply)

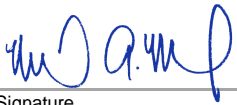
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements		
<input type="checkbox"/> Other - please list:	1.	2.	3.		

Estimated Cost of Proposed Construction Project

Column 1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	548,262	931,211	0	0	1,479,473
Construction Contingencies	181,133	130,389	0	0	311,522
Instructional Technology	458,744	53,540	0	0	512,284
Loose Furnishing/Equipment	0	110,353	0	0	110,353
Buses	0	0	0	0	0
Site Work	804,324	208,787	0	0	1,013,111
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	153,206	110,793	0	0	264,000
CM Fees and Costs	184,299	146,738	0	0	331,037
Estimated Costs	2,329,968	1,691,812	0	0	4,021,780

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.


6/17/2024
PARTNERS in Architecture, PLC #44723

Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.com 586-469-3600
 Printed Name E-mail Address Phone Number

2024 Bond Program

Grades: K-5

Lobbestael Elementary

Year Built: 1972

38495 Prentiss, Harrison Twp, MI

Building Size: 52,630

Building Project Work List

Site Size: 8.00

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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REMODELING WORK

Exterior Work

Roofing

roof work - priority 1	1	lpsm	2,500.00	2,500	2,894	3,824	1	2
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Envelope

replace exterior masonry	1	lpsm	41,000.00	41,000	47,463	62,713	1	2
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	1	2
replace select exterior envelop materials	1	lpsm	12,000.00	12,000	13,892	18,355	1	2

Exterior Work Subtotal: 89,716 118,543

Interior Work

replace drywall partitions & paint due to construction	1	lpsm	22,000.00	22,000	25,468	33,651	2	2
replace carpet (classrooms & corridors)	28,000	lpsm	9.00	252,000	291,722	385,457	1	1
replace VCT flooring (gym, cafeteria, service)	12,500	sqft	8.00	100,000	115,763	152,959	2	2

Interior Work Subtotal: 457,262 604,189

Mechanical Systems

Plumbing Work

replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	1	2
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HVAC System

replace mdf/idf air conditioning	2	ea	15,000.00	30,000	34,729	45,888	1	2
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Integrated Automation

upgrade temperature controls	52,630	sqft	6.00	315,780	365,555	483,015	1	2
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Mechanical Systems Subtotal: 488,263 645,152

Electrical Systems

Power

upgrade electrical systems - Priority 1	1	lpsm	2,175.00	2,175	2,518	3,327	1	2
electrical to support technology	27	ea	1,500.00	40,500	46,884	61,949	1	1

Lighting

upgrade building exterior lighting	22	ea	850.00	18,700	21,648	28,603	1	2
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Electrical Systems Subtotal: 71,049 93,879

Construction Subtotal: 1,106,290 1,461,763

Technology Infrastructure

demo coax/legacy cables	1	lpsm	7,500.00	7,500	8,682	10,649	1	1
replace cabling infrastructure	52,630	sf	0.65	34,210	39,602	48,572	1	1
replace fiber to IDFs	1	ea	3,500.00	3,500	4,052	4,969	1	1
replace network switches - core/aggregate	1	ea	5,000.00	5,000	5,788	7,099	1	1
replace network switches - edge	12	ea	4,000.00	48,000	55,566	68,152	1	1
replace rack UPS	2	ea	1,200.00	2,400	2,778	3,408	1	1
update wireless infrastructure	30	ea	1,200.00	36,000	41,675	51,114	1	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1	1

Technology Infrastructure Subtotal: 187,083 229,458

Technology Safety & Security

upgrade security camera system	30	ea	1,500.00	45,000	52,093	63,892	1	1
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1	1
install emergency alert system	52,630	sf	0.75	39,473	45,694	56,044	1	2
replace PA systems	52,630	sf	1.25	65,788	76,157	93,407	1	2

Technology Safety & Security Subtotal: 186,100 228,251

Technology & Safety Infrastructure Subtotal: 373,183 457,709

REMODELING SUBTOTAL: 1,479,473 1,919,472

SITE WORK

Site Paving

repave bus loop, new concrete drives and UG stormwater structures	6,200	sqft	19.09	118,358	137,014	181,040	2	2
repave parking lots, replace sidewalks	33,500	sqft	7.83	262,305	303,651	401,220	1	1

Site Paving Subtotal: 440,665 582,259

Site Improvements

upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	1	1
upgrade playground soft surfaces	7,300	sqft	25.00	182,500	211,267	279,151	1	1
replace playground pavement surfaces	1	lpsm	10,000.00	10,000	11,576	15,296	2	2
upgrade site sign - digital	1	lpsm	52,000.00	52,000	60,197	79,539	2	2

Site Improvement Subtotal: 572,446 756,384

SITE WORK SUBTOTAL: 1,013,111 1,338,643

INSTRUCTIONAL TECHNOLOGY

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: K-5

Lobbestael Elementary

Year Built: 1972

38495 Prentiss, Harrison Twp, MI

Building Size: 52,630

Building Project Work List

Site Size: 8.00

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
Computers and Mobile Devices										
		teacher computers (desktop + 1:1 device)	29	each	1,250.00	36,250	41,964	51,469	2	2
		admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2	2
		student desktops	40	each	800.00	32,000	37,044	45,434	1	1
		mobile devices: k-5 (iPads)	327	each	400.00	130,680	151,278	185,543	1	1
		mobile device storing/charging (classroom)	24	each	400.00	9,600	11,113	13,630	1	1
		mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual										
		classroom AV (display, sound, PA, doc camera)	24	each	9,000.00	216,000	250,047	306,683	1	1
		conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							512,284	628,316		

FURNITURE, FURNISHINGS AND EQUIPMENT

Non-Instructional Equipment

		purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
		purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
		purchase radio / walkie-talkies	31	each	400.00	12,400	14,355	17,606	1	2

Non-Instructional Equipment Subtotal: 29,982 36,774

Furniture, Furnishings & Equipment (FFE)

		purchase furniture	1	lpsm	69,427.50	69,428	80,371	98,575	2	2
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F,F,&E Subtotal: 80,371 98,575

F, F, & E SUBTOTAL: 110,353 135,349

PROJECT TOTAL:							3,115,221	4,021,780			
Construction Contingency:							311,522				
Permits / General Conditions:							93,254				
Design Consultants:							264,000				
C.M. Costs:							237,784				
BUILDING TOTAL:							4,021,780				

Notes:

Scope of work is conceptual and will be detailed throughout the design phase
 Indirect Costs include; contingency, general conditions & professional fees

Building Utilization

School Building Name

Lobbestael Elementary

Project No. [n] 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	6	20	120
(3-5) Upper Elementary	8	25	200
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	14		320
Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	0		0
Total	14		320

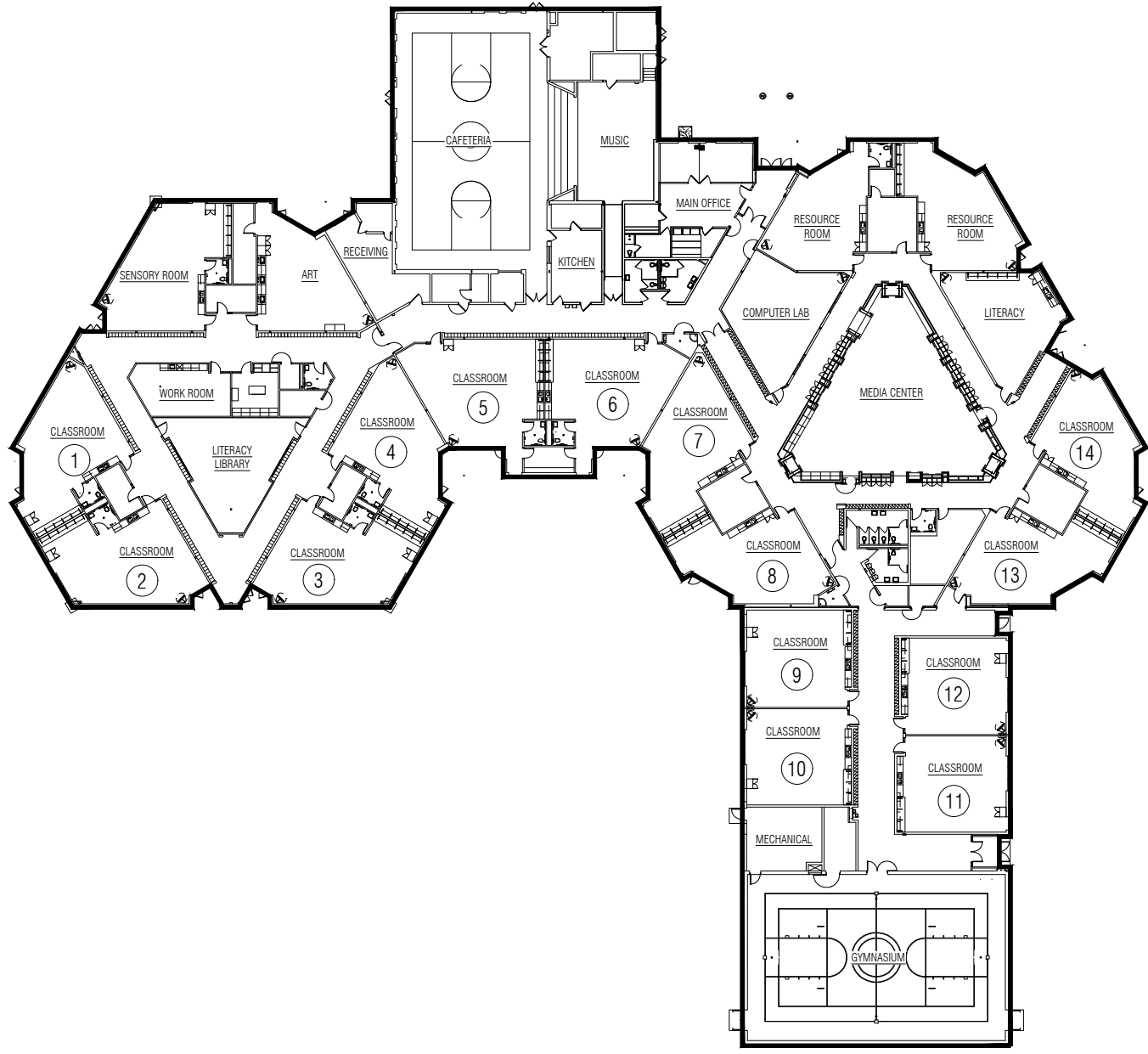
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 350

Utilization Percentage 109%




(Projected 5-Year Enrollment / Total Capacity)

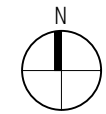
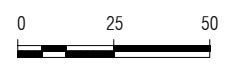
Please transfer applicable information to the Utilization Summary on Page 6 of the application.



PARTNERS in Architecture, PLC

KEY

-  NEW CONSTRUCTION
-  REMODELED AREA
-  TEACHING STATION



Lobbestael Elementary
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

South River Elementary	Project No. [n]	7
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Proposal #:	Series 1	Series 2	n/a	n/a	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

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

Does this proposed project address any existing environmental or usability problems? (check all that apply)

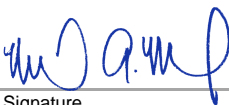
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

Estimated Cost of Proposed Construction Project

Column 1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	211,151	1,234,040	0	0	1,445,191
Construction Contingencies	235,596	152,388	0	0	387,984
Instructional Technology	592,565	56,434	0	0	648,999
Loose Furnishing/Equipment	0	137,326	0	0	137,326
Buses	0	0	0	0	0
Site Work	1,552,240	96,083	0	0	1,648,323
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	199,655	129,360	0	0	329,015
CM Fees and Costs	250,332	167,984	0	0	418,316
Estimated Costs	3,041,538	1,973,615	0	0	5,015,153

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.


6/17/2024
PARTNERS in Architecture, PLC #44723

Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.com 586-469-3600
 Printed Name E-mail Address Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: K-5

South River Elementary

Year Built: 2007

27733 South River Road, Harrison Twp, MI

Building Size: 71,561

Building Project Work List

Site Size: 10.00

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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REMODELING WORK

Exterior Work

Envelope

upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	1	2
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Exterior Work Subtotal: 25,468 33,651

Interior Work

replace interior openings	1	lpsm	25,000.00	25,000	28,941	38,240	2	2
replace carpet (classrooms, media center, offices)	30,000	lpsm	9.00	270,000	312,559	412,990	5	2

Interior Work Subtotal: 341,499 451,230

Mechanical Systems

Plumbing Work

replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	1	2
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HVAC System

replace mdf/idf air conditioning	2	ea	15,000.00	30,000	34,729	45,888	1	2
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Integrated Automation

upgrade temperature controls	71,473	sqft	6.00	428,838	496,434	655,948	1	2
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Mechanical Systems Subtotal: 619,142 818,084

Electrical Systems

Power

electrical to support technology	29	ea	1,500.00	43,500	50,357	66,537	1	1
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Lighting

upgrade building exterior lighting	21	ea	850.00	17,850	20,664	27,303	5	2
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Electrical Systems Subtotal: 71,020 93,841

Construction Subtotal: 1,057,129 1,396,806

Technology Infrastructure

data cabling for renovations	1	ea	10,000.00	10,000	11,576	14,198	2	2
demo coax/legacy cables	1	lpsm	7,500.00	7,500	8,682	10,649	1	1
replace fiber to IDFs	1	ea	3,500.00	3,500	4,052	4,969	1	1
replace network switches - core/aggregate	1	ea	5,000.00	5,000	5,788	7,099	1	1
replace network switches - edge	10	ea	4,000.00	40,000	46,305	56,793	1	1
replace rack UPS	2	ea	1,200.00	2,400	2,778	3,408	1	1
update wireless infrastructure	36	ea	1,200.00	43,200	50,009	61,337	1	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1	1

Technology Infrastructure Subtotal: 158,132 193,948

Technology Safety & Security

upgrade security camera system	30	ea	1,500.00	45,000	52,093	63,892	1	1
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1	1
install emergency alert system	71,561	sf	0.75	53,671	62,131	76,203	1	2
replace PA systems	71,561	sf	1.25	89,451	103,551	127,005	1	2

Technology Safety & Security Subtotal: 229,930 282,009

Technology & Safety Infrastructure Subtotal: 388,061 475,957

REMODELING SUBTOTAL: 1,445,191 1,872,763

SITE WORK

Site Paving

replace site paving - priority 1 (include UG stormwater structure)	47,300	sqft	14.18	670,714	776,435	1,025,919	1	1
replace site paving - priority 2	62,300	sqft	3.28	204,344	236,554	312,563	1	1

Site Paving Subtotal: 1,012,989 1,338,483

Site Improvements

upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	1	1
upgrade playground soft surfaces	8,633	sqft	25.00	215,825	249,844	330,124	1	1
replace playground pavement surfaces	31,000	sqft	1.00	31,000	35,886	47,417	2	2
upgrade site sign - digital	1	lpsm	52,000.00	52,000	60,197	79,539	2	2

Site Improvement Subtotal: 635,334 839,479

SITE WORK SUBTOTAL: 1,648,323 2,177,962

INSTRUCTIONAL TECHNOLOGY

Computers and Mobile Devices

teacher computers (desktop + 1:1 device)	31	each	1,250.00	38,750	44,858	55,018	2	2
admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2	2
student desktops	40	each	800.00	32,000	37,044	45,434	1	1
mobile devices: k-5 (iPads)	569	each	400.00	227,480	263,337	322,982	1	1
mobile device storing/charging (classroom)	26	each	400.00	10,400	12,039	14,766	1	1

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: K-5

South River Elementary

Year Built: 2007

27733 South River Road, Harrison Twp, MI

Building Size: 71,561

Building Project Work List

Site Size: 10.00

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
		mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual										
		classroom AV (display, sound, PA, doc camera)	26	each	9,000.00	234,000	270,884	332,240	1	1
		conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							648,999	795,998		

FURNITURE, FURNISHINGS AND EQUIPMENT

Non-Instructional Equipment

		purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
		purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
		purchase radio / walkie-talkies	33	each	400.00	13,200	15,281	18,742	1	2
Non-Instructional Equipment Subtotal:							30,909	37,909		

Furniture, Furnishings & Equipment (FFE)

		purchase furniture	1	lpsm	91,927.50	91,928	106,418	130,521	2	2
F,F,&E Subtotal:							106,418	130,521		
F, F, & E SUBTOTAL:							137,326	168,431		

PROJECT TOTAL: 3,879,839 5,015,153

Construction Contingency: 387,984

Permits / General Conditions: 119,040

Design Consultants: 329,015

C.M. Costs: 299,276

BUILDING TOTAL: 5,015,153

Notes:

Scope of work is conceptual and will be detailed throughout the design phase

Indirect Costs include; contingency, general conditions & professional fees

Building Utilization

School Building Name

South River Elementary

Project No. [n] 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	8	20	160
(3-5) Upper Elementary	10	25	250
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	18		410

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

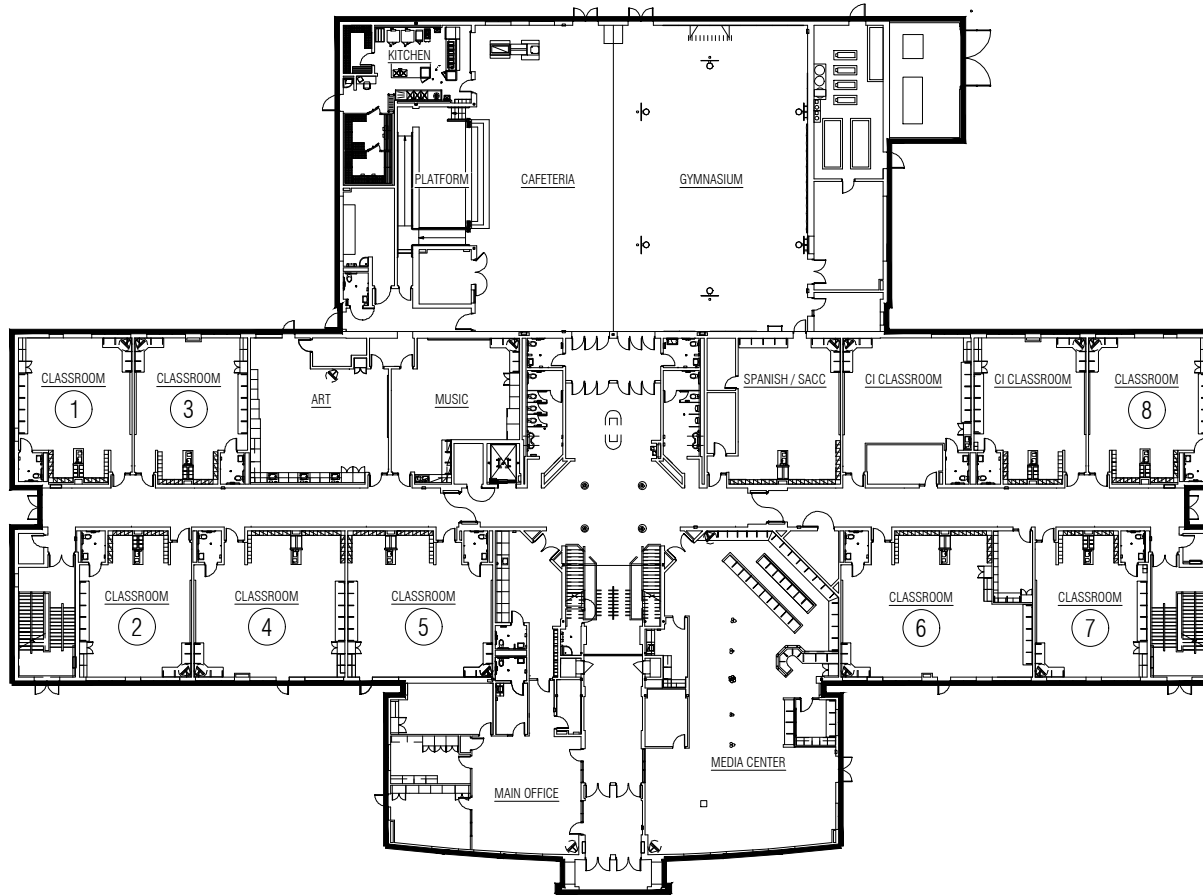
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 450




Utilization Percentage 110%

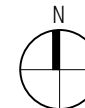
(Projected 5-Year Enrollment / Total Capacity)

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

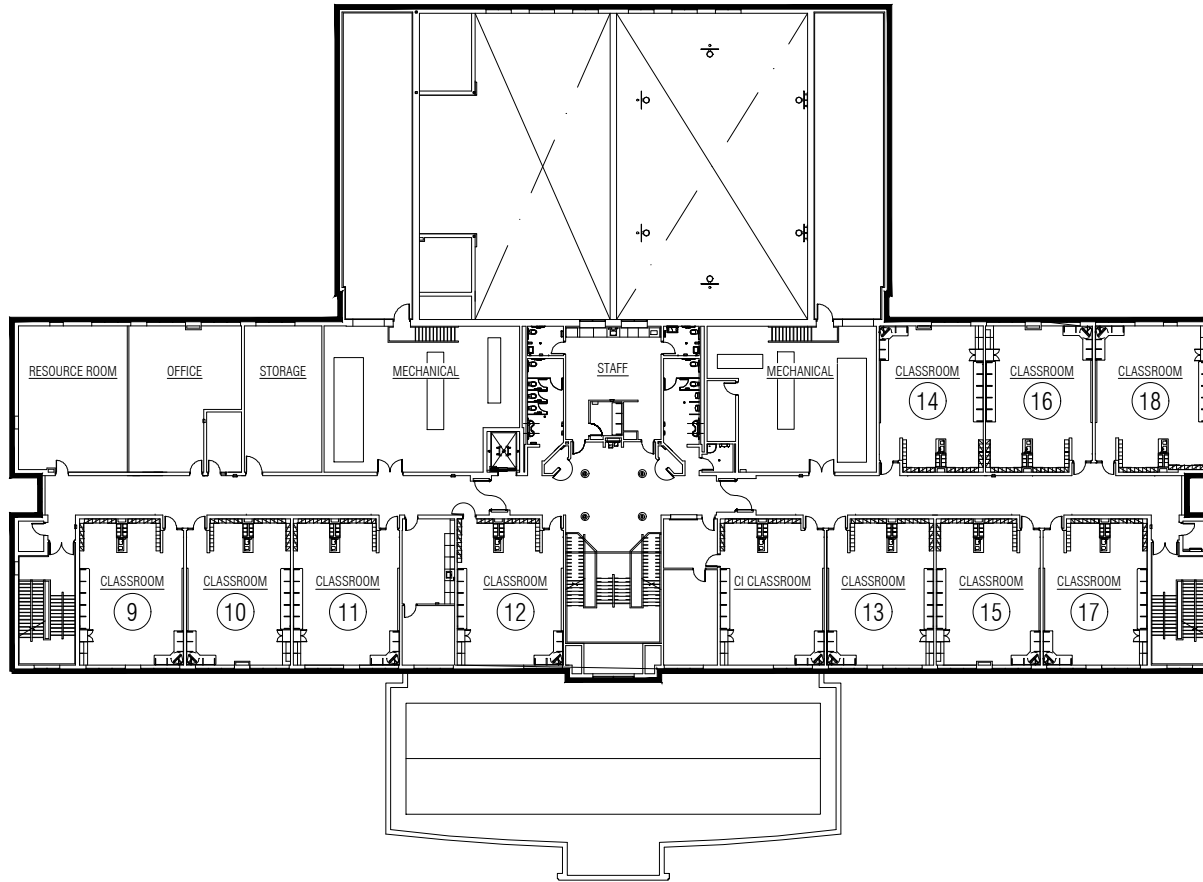


PARTNERS in Architecture, PLC




- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  # TEACHING STATION

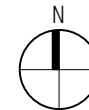
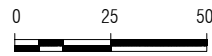


South River Elementary First Floor
L'ANSE CREUSE PUBLIC SCHOOLS



PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION



South River Elementary Second Floor
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

Tenniswood Elementary				Project No. [n]	8
Proposal #:	Series 1	Series 2	n/a	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

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

Does this proposed project address any existing environmental or usability problems? (check all that apply)

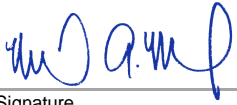
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements		
<input type="checkbox"/> Other - please list:	1.	2.	3.		

Estimated Cost of Proposed Construction Project

Column 1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	605,904	967,196	0	0	1,573,100
Construction Contingencies	189,508	119,632	0	0	309,141
Instructional Technology	474,858	52,093	0	0	526,951
Loose Furnishing/Equipment	0	109,890	0	0	109,890
Buses	0	0	0	0	0
Site Work	814,323	67,142	0	0	881,465
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	160,339	101,566	0	0	261,905
CM Fees and Costs	194,176	132,210	0	0	326,386
Estimated Costs	2,439,108	1,549,729	0	0	3,988,838

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.


6/17/2024
PARTNERS in Architecture, PLC #44723

Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.com 586-469-3600
 Printed Name E-mail Address Phone Number

2024 Bond Program

Grades: K-5

Tenniswood Elementary

Year Built: 1973

27733 Glenwood, Clinton Twp, MI

Building Size: 52,620

Building Project Work List

Site Size: 8.07

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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REMODELING WORK

Exterior Work

Roofing

roof work - priority 1	1	lpsm	4,550.00	4,550	5,267	6,960	1	2
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Envelope

relace exterior masonry	1	lpsm	73,240.00	73,240	84,784	112,027	1	2
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	1	2
replace select exterior envelop materials	1	lpsm	12,100.00	12,100	14,007	18,508	1	2

Exterior Work Subtotal: 129,527 171,146

Interior Work

replace drywall partitions & paint due to construction	1	lpsm	27,500.00	27,500	31,835	42,064	2	2
replace carpet (classrooms & corridors)	33,700	lpsm	9.00	303,300	351,108	463,926	1	1
replace VCT flooring (gym, cafeteria, service)	12,800	sqft	8.00	102,400	118,541	156,630	2	2

Interior Work Subtotal: 501,483 662,620

Mechanical Systems

Plumbing Work

replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	1	2
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HVAC System

replace mdf/idf air conditioning	2	ea	15,000.00	30,000	34,729	45,888	1	2
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Integrated Automation

upgrade temperature control system	52,620	sqft	6.00	315,720	365,485	482,923	1	2
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Mechanical Systems Subtotal: 488,194 645,060

Electrical Systems

Power

upgrade electrical systems - priority 1	1	lpsm	10,000.00	10,000	11,576	15,296	1	2
electrical to support technology	26	ea	1,500.00	39,000	45,147	59,654	1	1

Lighting

upgrade building exterior lighting	23	each	850.00	19,550	22,632	29,904	1	2
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Electrical Systems Subtotal: 79,355 104,854

Construction Subtotal: 1,198,559 1,583,679

Technology Infrastructure

demo coax/legacy cables	1	lpsm	7,500.00	7,500	8,682	10,649	1	1
replace cabling infrastructure	52,620	sf	0.65	34,203	39,594	48,562	1	1
replace fiber to IDFs	1	ea	3,500.00	3,500	4,052	4,969	1	1
replace network switches - core/aggregate	1	ea	5,000.00	5,000	5,788	7,099	1	1
replace network switches - edge	12	ea	4,000.00	48,000	55,566	68,152	1	1
replace rack UPS	2	ea	1,200.00	2,400	2,778	3,408	1	1
update wireless infrastructure	31	ea	1,200.00	37,200	43,064	52,818	1	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1	1

Technology Infrastructure Subtotal: 188,465 231,152

Technology Safety & Security

upgrade security camera system	30	ea	1,500.00	45,000	52,093	63,892	1	1
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1	1
install emergency alert system	52,620	sf	0.75	39,465	45,686	56,033	1	2
replace PA systems	52,620	sf	1.25	65,775	76,143	93,389	1	2

Technology Safety & Security Subtotal: 186,077 228,223

Technology & Safety Infrastructure Subtotal: 374,541 459,375

REMODELING SUBTOTAL: 1,573,100 2,043,055

SITE WORK

Site Paving

replace sidewalks	3,750	sqft	12.35	46,313	53,613	70,839	1	1
replace parking lots and bus loop	54,000	sqft	3.72	200,880	232,544	307,265	1	1

Site Paving Subtotal: 286,156 378,104

Site Improvements

upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	1	1
upgrade playground soft surfaces	8,250	sqft	25.00	206,250	238,760	315,479	1	1
replace playground pavement surfaces	6,000	sqft	1.00	6,000	6,946	9,178	2	2
upgrade site sign - digital	1	lpsm	52,000.00	52,000	60,197	79,539	2	2

Site Improvement Subtotal: 595,309 786,593

SITE WORK SUBTOTAL: 881,465 1,164,697

INSTRUCTIONAL TECHNOLOGY

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: K-5

Tenniswood Elementary

Year Built: 1973

27733 Glenwood, Clinton Twp, MI

Building Size: 52,620

Building Project Work List

Site Size: 8.07

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
Computers and Mobile Devices										
		teacher computers (desktop + 1:1 device)	28	each	1,250.00	35,000	40,517	49,694	2	2
		admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2	2
		student desktops	40	each	800.00	32,000	37,044	45,434	1	1
		mobile devices: k-5 (iPads)	385	each	400.00	154,000	178,274	218,653	1	1
		mobile device storing/charging (classroom)	23	each	400.00	9,200	10,650	13,062	1	1
		mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual										
		classroom AV (display, sound, PA, doc camera)	23	each	9,000.00	207,000	239,628	293,904	1	1
		conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							526,951	646,305		

FURNITURE, FURNISHINGS AND EQUIPMENT

Non-Instructional Equipment

		purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
		purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
		purchase radio / walkie-talkies	30	each	400.00	12,000	13,892	17,038	1	2

Non-Instructional Equipment Subtotal: 29,519 36,206

Furniture, Furnishings & Equipment (FFE)

		purchase furniture	1	lpsm	69,427.50	69,428	80,371	98,575	2	2
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F, F, & E Subtotal: 80,371 98,575

F, F, & E SUBTOTAL: 109,890 134,781

PROJECT TOTAL: 3,091,406 3,988,838

Construction Contingency: 309,141

Permits / General Conditions: 91,521

Design Consultants: 261,905

C.M. Costs: 234,865

BUILDING TOTAL: 3,988,838

Notes:

Scope of work is conceptual and will be detailed throughout the design phase

Indirect Costs include; contingency, general conditions & professional fees

Building Utilization

School Building Name

Tenniswood Elementary

Project No. [n] 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	5	20	100
(3-5) Upper Elementary	8	25	200
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	13		300
Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	0		0
Total	13		300

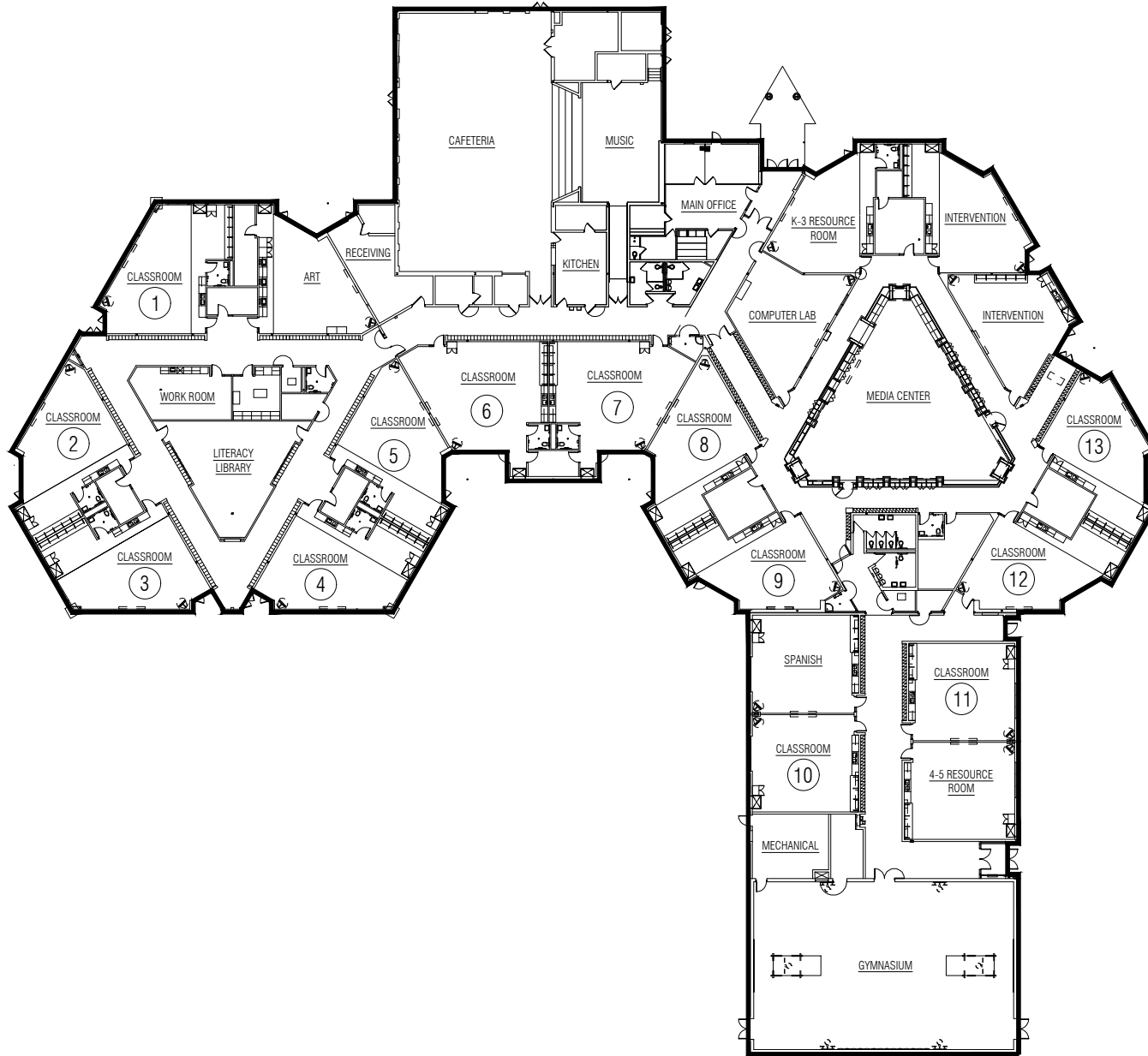
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 330




Utilization Percentage 110%

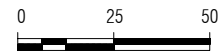
(Projected 5-Year Enrollment / Total Capacity)

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



PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION



Tenniswood Elementary
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

Yacks Elementary				Project No. [n]	9
Proposal #:	Series 1	Series 2	n/a	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

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

Does this proposed project address any existing environmental or usability problems? (check all that apply)

<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

Estimated Cost of Proposed Construction Project

Column 1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	552,498	1,280,433	0	0	1,832,931
Construction Contingencies	158,334	226,277	0	0	384,611
Instructional Technology	509,911	59,328	0	0	569,239
Loose Furnishing/Equipment	0	112,206	0	0	112,206
Buses	0	0	0	0	0
Site Work	520,931	810,801	0	0	1,331,732
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	133,433	193,000	0	0	326,433
CM Fees and Costs	147,527	274,897	0	0	422,424
Estimated Costs	2,022,633	2,956,942	0	0	4,979,575

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.


6/17/2024
PARTNERS in Architecture, PLC #44723

Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.com 586-469-3600
 Printed Name E-mail Address Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: K-5

Yacks Elementary

Year Built: 1976

34700 Union Lake Road, Harrison Twp, MI

Building Size: 56,567

Building Project Work List

Site Size: 9.97

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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REMODELING WORK

Exterior Work

Roofing

roof work - priority 1	1	lpsm	5,500.00	5,500	6,367	8,413	1	2
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Envelope

replace exterior masonry	1	lpsm	82,500.00	82,500	95,504	126,191	1	2
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	1	2
replace select exterior envelop materials	1	lpsm	200,200.00	200,200	231,757	306,225	1	2

Exterior Work Subtotal: 359,095 474,480

Interior Work

replace drywall partitions & paint due to construction	1	lpsm	50,000.00	50,000	57,881	76,480	2	2
replace carpet (classrooms & corridors)	25,377	lpsm	9.00	228,400	264,402	349,359	1	1
replace VCT flooring (gym, cafeteria, service)	13,650	sqft	8.00	109,200	126,413	167,032	2	2
replace architectural trim out/specialties	1	lpsm	10,000.00	10,000	11,576	15,296	1	1

Interior Work Subtotal: 460,272 608,166

Mechanical Systems

Plumbing Work

replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	1	2
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HVAC System

replace mdf/idf air conditioning	3	ea	15,000.00	45,000	52,093	68,832	1	2
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Integrated Automation

upgrade temperature controls	56,567	ea	6.00	339,402	392,900	519,147	1	2
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Mechanical Systems Subtotal: 532,973 704,228

Electrical Systems

Power

upgrade electrical systems - priority 1	1	lpsm	4,350.00	4,350	5,036	6,654	1	2
electrical to support technology	31	ea	1,500.00	46,500	53,830	71,126	1	1

Lighting

upgrade building exterior lighting	24	ea	850.00	20,400	23,616	31,204	1	2
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Electrical Systems Subtotal: 82,481 108,984

Construction Subtotal: 1,434,821 1,895,857

Technology Infrastructure

demo coax/legacy cables	1	lpsm	7,500.00	7,500	8,682	10,649	1	1
replace cabling infrastructure	56,567	sf	0.65	36,769	42,564	52,205	1	1
replace fiber to IDFs	2	ea	3,500.00	7,000	8,103	9,939	1	1
replace network switches - core/aggregate	1	ea	5,000.00	5,000	5,788	7,099	1	1
replace network switches - edge	13	ea	4,000.00	52,000	60,197	73,831	1	1
replace rack UPS	3	ea	1,200.00	3,600	4,167	5,111	1	1
update wireless infrastructure	32	ea	1,200.00	38,400	44,453	54,521	1	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1	1

Technology Infrastructure Subtotal: 202,895 248,851

Technology Safety & Security

upgrade security camera system	30	ea	1,500.00	45,000	52,093	63,892	1	1
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1	1
install emergency alert system	56,567	sf	0.75	42,425	49,113	60,237	1	2
replace PA systems	56,567	sf	1.25	70,709	81,854	100,394	1	2

Technology Safety & Security Subtotal: 195,215 239,431

Technology & Safety Infrastructure Subtotal: 398,110 488,282

REMODELING SUBTOTAL: 1,832,931 2,384,139

SITE WORK

Site Paving

repave south lot, drop off loop, and sidewalks	46,100	sqft	11.74	541,400	626,738	828,122	1	2
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Site Paving Subtotal: 626,738 828,122

Site Improvements

upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	1	1
upgrade playground soft surfaces	8,000	sqft	25.00	200,000	231,525	305,919	1	1
replace playground pavement surfaces	27,000	sqft	1.00	27,000	31,256	41,299	2	2
replace athletic fields, exterior courts, & furnishings	1	lpsm	80,000.00	80,000	92,610	122,367	2	2
upgrade site sign - digital	1	lpsm	52,000.00	52,000	60,197	79,539	2	2

Site Improvement Subtotal: 704,994 931,522

SITE WORK SUBTOTAL: 1,331,732 1,759,644

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: K-5

Yacks Elementary

Year Built: 1976

34700 Union Lake Road, Harrison Twp, MI

Building Size: 56,567

Building Project Work List

Site Size: 9.97

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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INSTRUCTIONAL TECHNOLOGY

Computers and Mobile Devices

teacher computers (desktop + 1:1 device)	33	each	1,250.00	41,250	47,752	58,568	2	2
admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2	2
student desktops	40	each	800.00	32,000	37,044	45,434	1	1
mobile devices: k-5 (iPads)	343	each	400.00	137,280	158,919	194,914	1	1
mobile device storing/charging (classroom)	28	each	400.00	11,200	12,965	15,902	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1

Audiovisual

classroom AV (display, sound, PA, doc camera)	28	each	9,000.00	252,000	291,722	357,796	1	1
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1

INSTRUCTIONAL TECHNOLOGY SUBTOTAL: 569,239 698,172

FURNITURE, FURNISHINGS AND EQUIPMENT

Non-Instructional Equipment

purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
purchase radio / walkie-talkies	35	each	400.00	14,000	16,207	19,878	1	2

Non-Instructional Equipment Subtotal: 31,835 39,045

Furniture, Furnishings & Equipment (FFE)

purchase furniture	1	lpsm	69,427.50	69,428	80,371	98,575	2	2
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F,F,&E Subtotal: 80,371 98,575

F, F, & E SUBTOTAL: 112,206 137,620

PROJECT TOTAL: 3,846,107 4,979,575

Construction Contingency: 384,611

Permits / General Conditions: 121,728

Design Consultants: 326,433

C.M. Costs: 300,695

BUILDING TOTAL: 4,979,575

Notes:

Scope of work is conceptual and will be detailed throughout the design phase

Indirect Costs include; contingency, general conditions & professional fees

Building Utilization

School Building Name

Yacks Elementary

Project No. [n] 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	5	20	100
(3-5) Upper Elementary	8	25	200
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	13		300

Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	0		0
Total	13		300

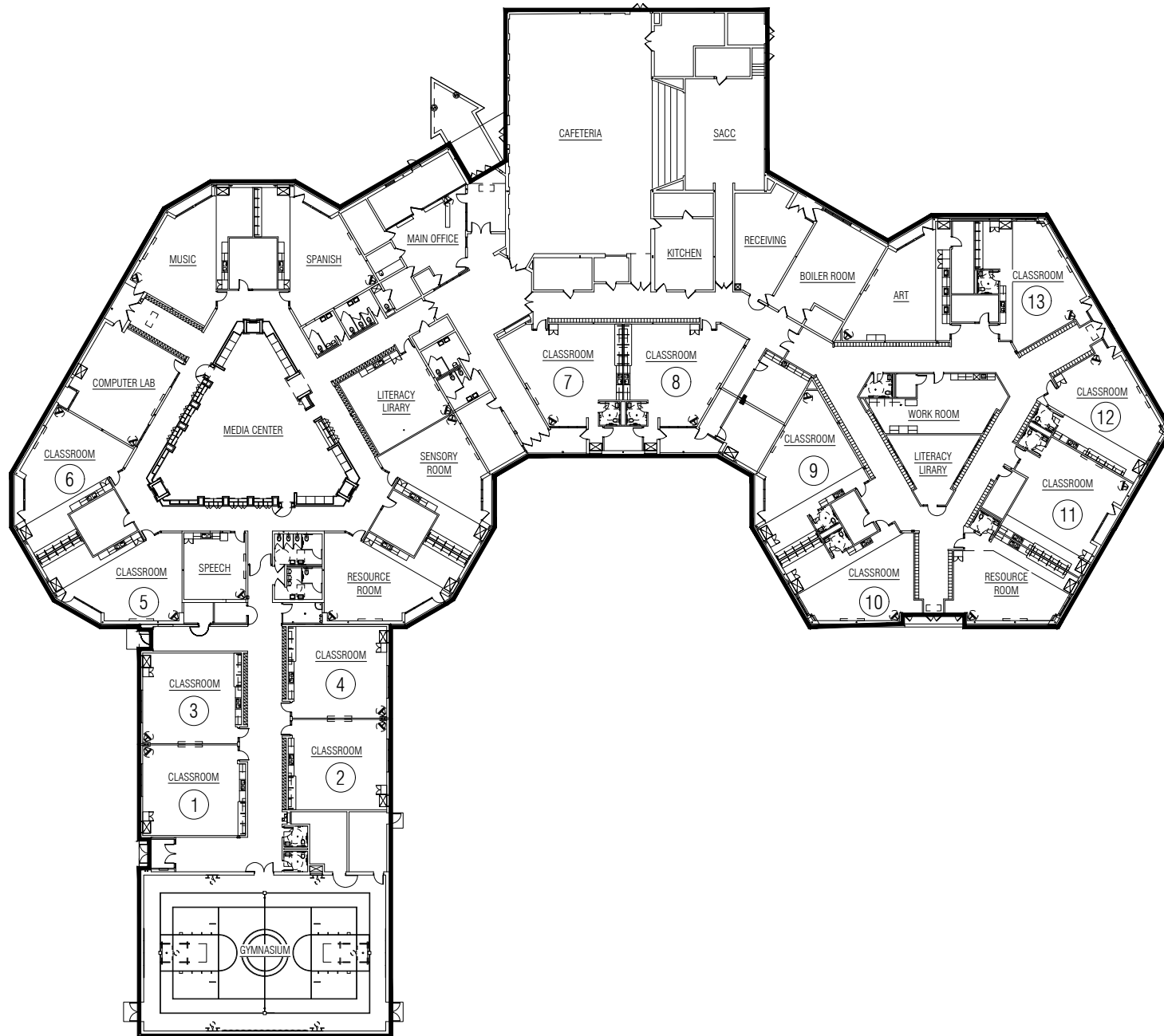
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 330




Utilization Percentage 110%

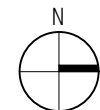
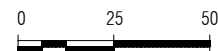
(Projected 5-Year Enrollment / Total Capacity)

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



PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION



Yacks Elementary
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

Middle School Central				Project No. [n]	10
Proposal #:	Series 1	Series 2	n/a	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.

Construction Cost Per Square Foot

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

Does this proposed project address any existing environmental or usability problems? (check all that apply)

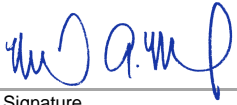
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

Estimated Cost of Proposed Construction Project

Column 1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	4,644,592	628,655	0	0	5,273,247
Construction Contingencies	545,508	264,210	0	0	809,718
Instructional Technology	810,488	140,362	0	0	950,850
Loose Furnishing/Equipment	0	147,513	0	0	147,513
Buses	0	0	0	0	0
Site Work	0	1,725,573	0	0	1,725,573
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	464,091	225,031	0	0	689,122
CM Fees and Costs	629,585	311,992	0	0	941,577
Estimated Costs	7,094,264	3,443,337	0	0	10,537,601

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.


6/17/2024
PARTNERS in Architecture, PLC #44723

Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.com 586-469-3600
 Printed Name E-mail Address Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 6-8

Middle School Central

Year Built: 1957

3800 Reimold Road, Harrison Twp, MI

Building Size: 101,828

Building Project Work List

Site Size: 13.33

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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REMODELING WORK

Exterior Work

Roofing

replace select gutters & downspouts	1	lpsm	2,000.00	2,000	2,315	3,059	1	1
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Envelope

replace exterior masonry	1	lpsm	159,242.86	159,243	184,344	243,577	1	1
replace exterior steel lintels	1	lpsm	50,000.00	50,000	57,881	76,480	1	1
upgrade select exterior glazing	1	lpsm	38,050.00	38,050	44,048	58,201	1	1
replace select exterior envelop materials	1	lpsm	77,000.00	77,000	89,137	117,779	1	1
reroute roof overflow drainage	1	lpsm	9,900.00	9,900	11,460	15,143	1	1
replace EIFS with metal panels	5,015	sqft	70.00	351,050	406,384	536,964	1	1
replace select exterior doors - high priority	12	ea	5,500.00	66,000	76,403	100,953	1	1

Exterior Work Subtotal: 871,973 1,152,155

Interior Work

replace interior openings	1	allo	25,000.00	25,000	28,941	38,240	2	2
replace drywall partitions & paint due to construction	1	lpsm	40,000.00	40,000	46,305	61,184	2	2
replace carpet (band and choir and select classrooms)	29,015	sf	9.00	261,100	302,256	399,377	1	1
replace architectural trim out/specialties	1	lpsm	25,000.00	25,000	28,941	38,240	1	1
renovate space for emerging programs	2,000	sqft	100.00	200,000	231,525	305,919	2	2

Interior Work Subtotal: 637,967 842,959

Mechanical Systems

Plumbing Work

replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	155,000.00	155,000	179,432	237,087	1	1
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HVAC System

replace roof top units and classroom units, valves, pumps, & piping	1	lpsm	1,697,924.11	1,697,924	1,965,559	2,597,133	1	1
replace mdf/idf air conditioning	5	ea	15,000.00	75,000	86,822	114,719	1	1

Integrated Automation

upgrade temperature control system	101,828	sqft	6.00	610,968	707,272	934,532	1	1
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Mechanical Systems Subtotal: 2,939,085 3,883,472

Electrical Systems

Power

electrical to support technology	46	ea	1,500.00	69,000	79,876	105,542	1	1
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Lighting

upgrade building exterior lighting	35	ea	850.00	29,750	34,439	45,505	1	1
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Electrical Systems Subtotal: 114,315 151,047

Construction Subtotal: 4,563,340 6,029,633

Technology Infrastructure

demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	1	1
replace cabling infrastructure	101,828	sf	0.65	66,188	76,621	93,976	1	1
replace fiber to IDFs	4	ea	3,500.00	14,000	16,207	19,878	1	1
replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1	1
replace network switches - edge	23	ea	4,000.00	92,000	106,502	130,624	1	1
network switches - multigig	1	ea	10,000.00	10,000	11,576	14,198	1	1
replace rack UPS	5	ea	1,200.00	6,000	6,946	8,519	1	1
update wireless infrastructure	62	ea	1,200.00	74,400	86,127	105,635	1	2
upgrade phone system	1	lpsm	35,000.00	35,000	40,517	49,694	1	1

Technology Infrastructure Subtotal: 366,490 449,500

Technology Safety & Security

upgrade security camera system	55	ea	1,500.00	82,500	95,504	117,136	1	1
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1	1
install emergency alert system	101,828	sf	0.75	76,371	88,409	108,434	1	2
replace PA systems	101,828	sf	1.25	127,285	147,348	180,723	1	2

Technology Safety & Security Subtotal: 343,416 421,200

Technology & Safety Infrastructure Subtotal: 709,907 870,701

REMODELING SUBTOTAL: 5,273,247 6,900,334

SITE WORK

Site Paving

repave west and south lots, sidewalks, and UG stormwater structures	105,100	sqft	13.34	1,402,453	1,623,515	2,145,183	1	2
replace curbs and concrete slabs	1	lpsm	36,161.30	36,161	41,861	55,312	1	2

Site Paving Subtotal: 1,665,376 2,200,495

Site Improvements

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 6-8

Middle School Central

Year Built: 1957

3800 Reimold Road, Harrison Twp, MI

Building Size: 101,828

Building Project Work List

Site Size: 13.33

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
		upgrade site sign - digital	1	lpsm	52,000.00	52,000	60,197	79,539	2	2
Site Improvement Subtotal:							60,197	79,539		
SITE WORK SUBTOTAL:							1,725,573	2,280,034		

INSTRUCTIONAL TECHNOLOGY

Computers and Mobile Devices

teacher computers (desktop + 1:1 device)	53	each	1,250.00	66,250	76,693	94,064	2	2
admin staff computers	20	each	1,000.00	20,000	23,153	28,397	2	2
student desktops	101	each	800.00	80,800	93,536	114,722	1	1
mobile devices: 6-12	592	each	350.00	207,130	239,779	294,089	1	1
mobile device storing/charging (classroom)	43	each	400.00	17,200	19,911	24,421	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1

Audiovisual

classroom AV (display, sound, PA, doc camera)	43	each	9,000.00	387,000	448,001	549,473	1	1
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2	2
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1

INSTRUCTIONAL TECHNOLOGY SUBTOTAL: 950,850 1,166,218

FURNITURE, FURNISHINGS AND EQUIPMENT

Non-Instructional Equipment

purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
purchase radio / walkie-talkies	55	each	400.00	22,000	25,468	31,236	1	2

Non-Instructional Equipment Subtotal: 41,096 50,404

Furniture, Furnishings & Equipment (FFE)

purchase furniture	1	lpsm	91,927.50	91,928	106,418	140,612	2	2
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F,F,&E Subtotal: 106,418 140,612

F, F, & E SUBTOTAL: 147,513 191,016

PROJECT TOTAL: 8,097,183 10,537,601

Construction Contingency: 809,718

Permits / General Conditions: 281,395

Design Consultants: 689,122

C.M. Costs: 660,182

BUILDING TOTAL: 10,537,601

Notes:

Scope of work is conceptual and will be detailed throughout the design phase

Indirect Costs include; contingency, general conditions & professional fees

Building Utilization

School Building Name

Middle School Central

Project No. [n] 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	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	35	22.5	788
(9-12) High School	0	21.25	0
Subtotal	35		788

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

Total	35		788
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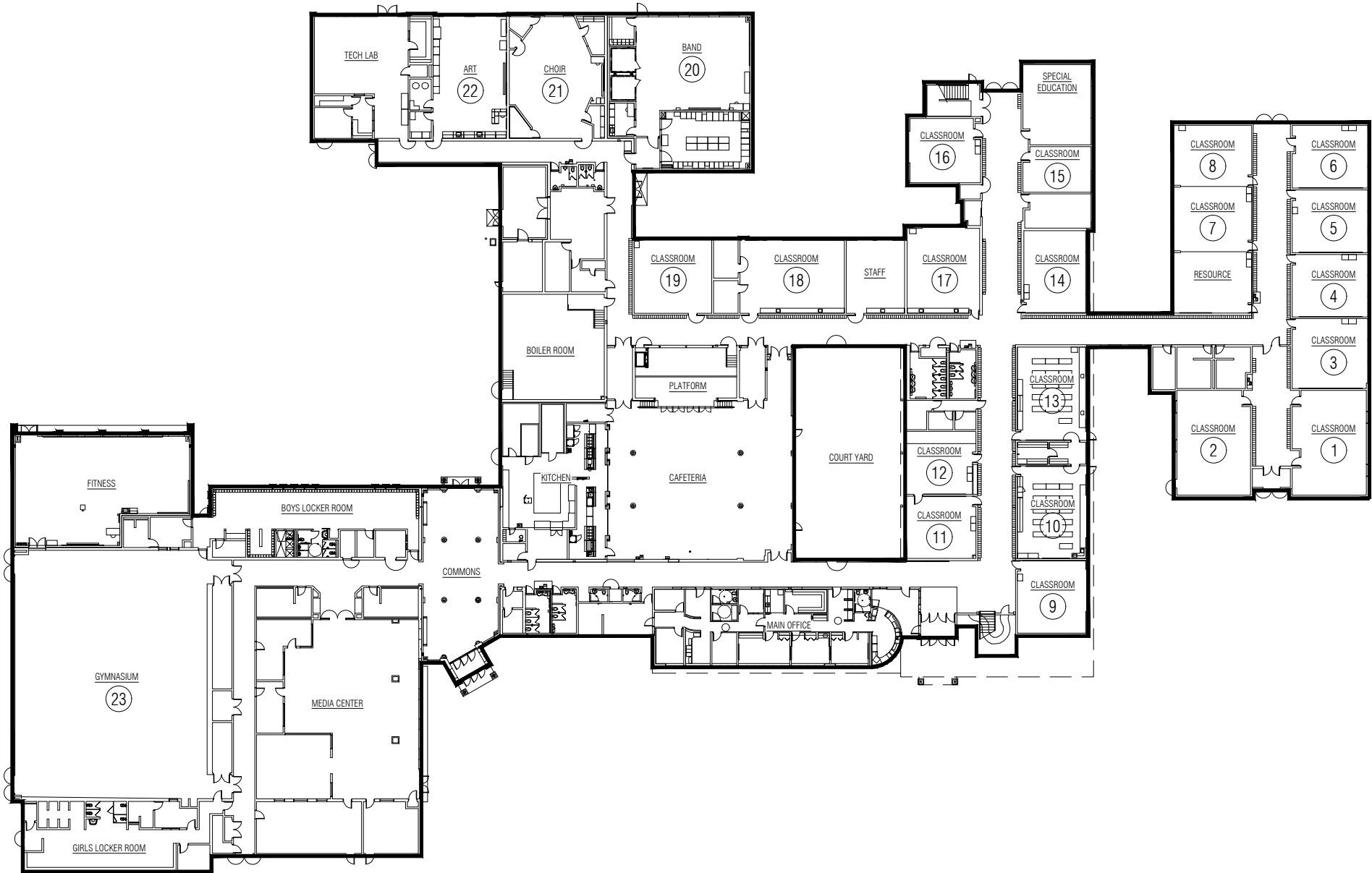
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 550




Utilization Percentage 70%

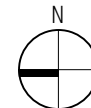
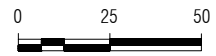
(Projected 5-Year Enrollment / Total Capacity)

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

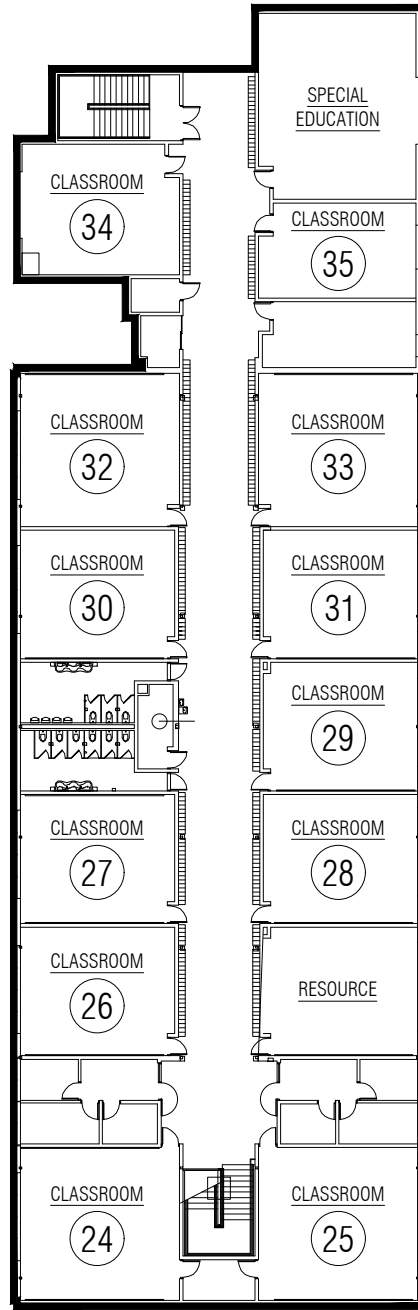


PARTNERS in Architecture, PLC




- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION

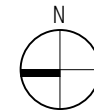


Middle School Central First Floor
L'ANSE CREUSE PUBLIC SCHOOLS



PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION



Middle School Central Second Floor
 L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

Middle School East				Project No. [n]	11
Proposal #:	Series 1	Series 2	n/a	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.

Construction Cost Per Square Foot

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

Does this proposed project address any existing environmental or usability problems? (check all that apply)

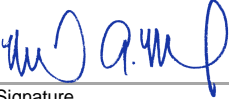
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

Estimated Cost of Proposed Construction Project

Column 1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	5,454,760	887,375	0	0	6,342,135
Construction Contingencies	775,767	221,040	0	0	996,807
Instructional Technology	836,783	180,879	0	0	1,017,662
Loose Furnishing/Equipment	0	147,513	0	0	147,513
Buses	0	0	0	0	0
Site Work	1,466,129	994,631	0	0	2,460,760
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	661,459	187,264	0	0	848,722
CM Fees and Costs	936,233	233,313	0	0	1,169,546
Estimated Costs	10,131,131	2,852,015	0	0	12,983,146

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.


6/17/2024
PARTNERS in Architecture, PLC #44723

Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.com 586-469-3600
 Printed Name E-mail Address Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 6-8

Middle School East

Year Built: 2000

30300 Hickey Road, Chesterfield, MI

Building Size: 132,974

Building Project Work List

Site Size: 46.01

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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REMODELING WORK

Exterior Work

Roofing

roof work - priority 1	157,000	sqft	5.00	785,000	908,736	1,200,731	1	1
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Envelope

upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	2	2
replace select exterior doors - high priority	20	ea	5,500.00	110,000	127,339	168,255	1	1
replace select exterior doors - medium priority	50	ea	5,500.00	275,000	318,347	420,638	1	1

Exterior Work Subtotal: 1,379,889 1,823,275

Interior Work

replace casework (countertops and hardware)	1	lpsm	150,000.00	150,000	173,644	229,439	1	1
replace interior openings	1	allo	25,000.00	25,000	28,941	38,240	2	2
replace drywall partitions & paint due to construction	1	lpsm	70,000.00	70,000	81,034	107,072	2	2
replace carpet (classrooms, media center, offices)	44,075	lpsm	9.00	396,700	459,230	606,790	1	1
replace VCT flooring (cafeteria, music, & thresholds)	13,500	lpsm	8.00	108,000	125,024	165,196	2	2
replace architectural trim out/specialties	1	lpsm	24,500.00	24,500	28,362	37,475	1	1
renovate space for emerging programs	2,000	sqft	100.00	200,000	231,525	305,919	2	2

Interior Work Subtotal: 1,127,758 1,490,130

1,305,882

Mechanical Systems

Plumbing Work

replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	1	1
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HVAC System

replace chiller, roof top units and classroom units, valves, pumps	1	lpsm	1,550,049.72	1,550,050	1,794,376	2,370,945	1	1
replace mdf/idf air conditioning	4	ea	15,000.00	60,000	69,458	91,776	1	1

Integrated Automation

upgrade temperature control system	132,974	sqft	6.00	797,844	923,604	1,220,377	1	1
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Mechanical Systems Subtotal: 2,875,417 3,799,347

Electrical Systems

Power

upgrade electrical systems - priority 1	1	lpsm	3,500.00	3,500	4,052	5,354	1	1
electrical to support technology	46	ea	1,500.00	69,000	79,876	105,542	1	1

Lighting

upgrade building exterior lighting	60	ea	850.00	51,000	59,039	78,009	1	1
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Electrical Systems Subtotal: 142,967 188,905

Construction Subtotal: 5,526,031 7,301,656

Technology Infrastructure

demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	1	1
replace cabling infrastructure	132,974	sf	0.65	86,433	100,057	122,720	1	1
replace fiber to IDFs	4	ea	3,500.00	14,000	16,207	19,878	1	1
replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1	1
replace network switches - edge	25	ea	4,000.00	100,000	115,763	141,983	1	1
network switches - multigig	1	ea	10,000.00	10,000	11,576	14,198	1	1
replace rack UPS	5	ea	1,200.00	6,000	6,946	8,519	1	1
update wireless infrastructure	63	ea	1,200.00	75,600	87,516	107,339	1	2
upgrade phone system	1	lpsm	35,000.00	35,000	40,517	49,694	1	1

Technology Infrastructure Subtotal: 400,577 491,307

Technology Safety & Security

upgrade security camera system	55	ea	1,500.00	82,500	95,504	117,136	1	1
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1	1
install emergency alert system	132,974	sf	0.75	99,731	115,451	141,600	1	2
replace PA systems	132,974	sf	1.25	166,218	192,418	236,000	1	2

Technology Safety & Security Subtotal: 415,527 509,644

Technology & Safety Infrastructure Subtotal: 816,104 1,000,951

REMODELING SUBTOTAL: 6,342,135 8,302,607

SITE WORK

Site Paving

repave lots and UG storm water structures, drives, & sidewalks	122,100	sqft	10.12	1,235,497	1,430,242	1,889,808	1	1
reseal northwest lot	31,000	sqft	1.00	31,000	35,886	47,417	2	1

Site Paving Subtotal: 1,466,129 1,937,225

Site Improvements

replace athletic fields, exterior courts, & furnishings	1	lpsm	807,200.00	807,200	934,435	1,234,688	2	2
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L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 6-8

Middle School East

Year Built: 2000

30300 Hickey Road, Chesterfield, MI

Building Size: 132,974

Building Project Work List

Site Size: 46.01

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
		upgrade site sign - digital	1	lpsm	52,000.00	52,000	60,197	79,539	2	2
Site Improvement Subtotal:							994,631	1,314,226		
SITE WORK SUBTOTAL:							2,460,760	3,251,451		

INSTRUCTIONAL TECHNOLOGY

Computers and Mobile Devices

teacher computers (desktop + 1:1 device)	53	each	1,250.00	66,250	76,693	94,064	2	2
admin staff computers	20	each	1,000.00	20,000	23,153	28,397	2	2
student desktops	101	each	800.00	80,800	93,536	114,722	1	1
mobile devices: 6-12	657	each	350.00	229,845	266,074	326,340	1	1
mobile device storing/charging (classroom)	43	each	400.00	17,200	19,911	24,421	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1

Audiovisual

classroom AV (display, sound, PA, doc camera)	43	each	9,000.00	387,000	448,001	549,473	1	1
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2	2
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
kiva audiovisual	1	lpsm	35,000.00	35,000	40,517	49,694	2	2

INSTRUCTIONAL TECHNOLOGY SUBTOTAL: 1,017,662 1,248,163

FURNITURE, FURNISHINGS AND EQUIPMENT

Non-Instructional Equipment

purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2		
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2		
purchase radio / walkie-talkies	55	each	400.00	22,000	25,468	31,236	1	2		
Non-Instructional Equipment Subtotal:							41,096	50,404		

Furniture, Furnishings & Equipment (FFE)

purchase furniture	1	lpsm	91,927.50	91,928	106,418	130,521	2	2		
F,F,&E Subtotal:							106,418	130,521		
F, F, & E SUBTOTAL:							147,513	180,925		

PROJECT TOTAL: 9,968,071 12,983,146

Construction Contingency: 996,807

Permits / General Conditions: 351,419

Design Consultants: 848,722

C.M. Costs: 818,127

BUILDING TOTAL: 12,983,146

Notes:

Scope of work is conceptual and will be detailed throughout the design phase

Indirect Costs include; contingency, general conditions & professional fees

Building Utilization

School Building Name

Middle School East

Project No. [n] 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	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	32	22.5	720
(9-12) High School	0	21.25	0
Subtotal	32		720
Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	0		0
Total	32		720

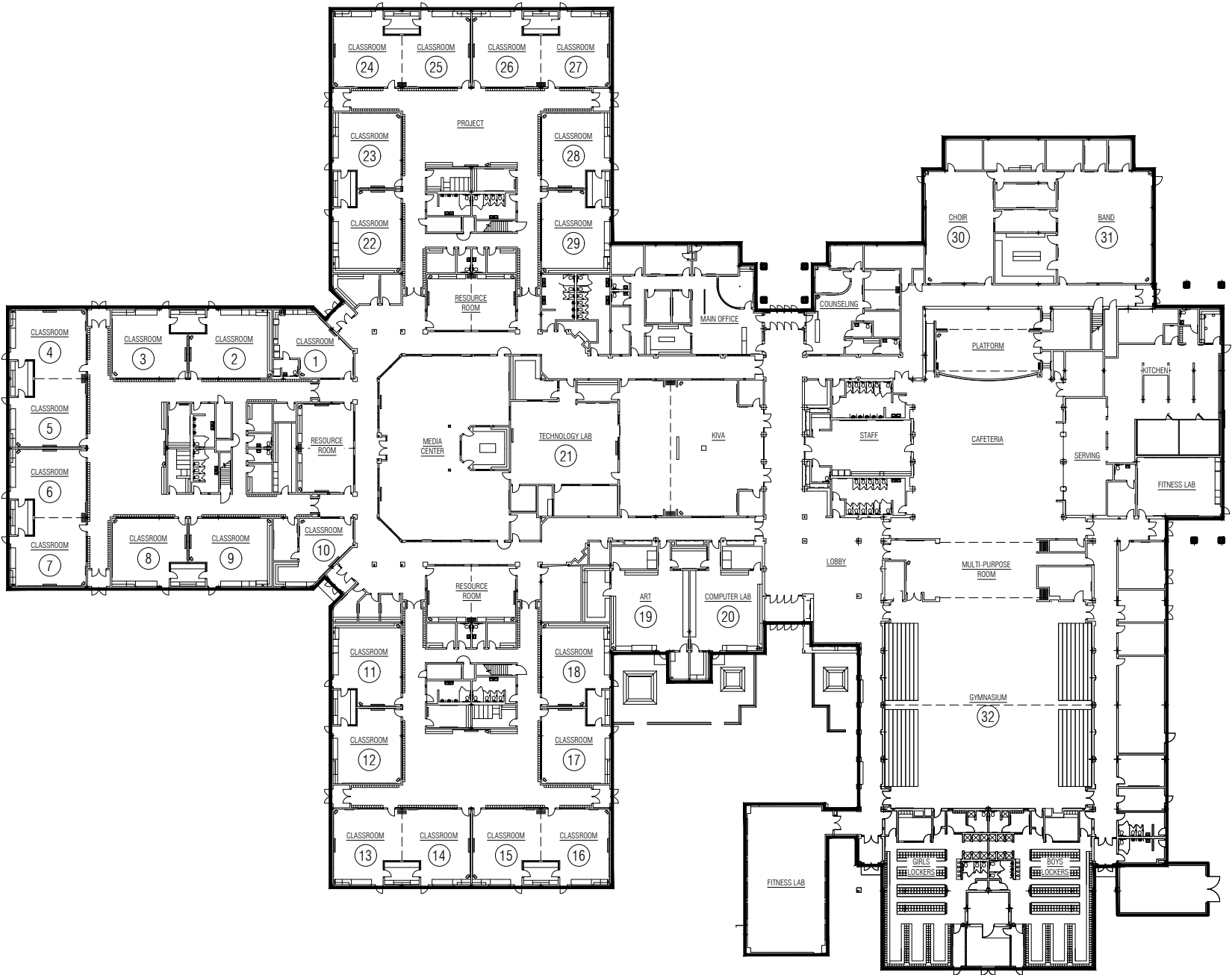
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 510




Utilization Percentage 71%

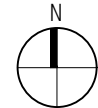
(Projected 5-Year Enrollment / Total Capacity)

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



PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  # TEACHING STATION



Middle School East
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

Middle School North				Project No. [n]	12
Proposal #:	Series 1	Series 2	n/a	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.

Construction Cost Per Square Foot

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

Does this proposed project address any existing environmental or usability problems? (check all that apply)

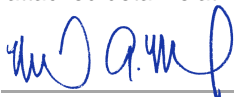
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

Estimated Cost of Proposed Construction Project

Column 1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	605,498	3,717,714	0	0	4,323,212
Construction Contingencies	144,002	452,872	0	0	596,874
Instructional Technology	834,520	140,362	0	0	974,882
Loose Furnishing/Equipment	0	147,513	0	0	147,513
Buses	0	0	0	0	0
Site Work	0	523,131	0	0	523,131
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	119,674	386,740	0	0	506,415
CM Fees and Costs	87,569	563,148	0	0	650,717
Estimated Costs	1,791,264	5,931,480	0	0	7,722,744

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

6/17/2024

Date

PARTNERS in Architecture, PLC #44723

Firm Name and License Number

Michael A. Malone, AIA

Printed Name

mmalone@partnersinarch.com

E-mail Address

586-469-3600

Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 6-8

Middle School North

Year Built: 1965

46201 Fairchild Road, Macomb, MI

Building Size: 78,388

Building Project Work List

Site Size: 24.11

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
REMODELING WORK										
Exterior Work										
Roofing										
		roof work - priority 1	26,500	sqft	25.89	686,085	794,229	1,049,431	1	2
Envelope										
		upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	2	2
		reroute roof overflow drainage	1	lpsm	315,000.00	315,000	364,652	481,822	1	2
		replace select exterior doors - high priority	12	lpsm	5,500.00	66,000	76,403	100,953	1	2
							Exterior Work Subtotal:	1,260,752	1,665,857	
Interior Work										
		replace interior openings	1	lpsm	25,000.00	25,000	28,941	38,240	2	2
		replace drywall partitions & paint due to construction	1	lpsm	70,000.00	70,000	81,034	107,072	2	2
		replace carpet (classrooms, media center, offices)	51,200	lpsm	9.00	460,800	533,434	704,836	1	2
		replace architectural trim out/specialties	1	lpsm	24,500.00	24,500	28,362	37,475	1	1
		renovate space for emerging programs	2,000	sqft	100.00	200,000	231,525	305,919	2	2
		replace lockers	675	ea	200.00	135,000	156,279	206,495	1	1
							Interior Work Subtotal:	1,094,303	1,445,924	
Mechanical Systems										
Plumbing Work										
		replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	1	2
HVAC System										
		replace roof top units, classroom units, pumps, valves, & select piping	1	lpsm	442,000.00	442,000	511,670	676,080	1	2
		replace mdf/idf air conditioning	3	ea	15,000.00	45,000	52,093	68,832	1	2
Integrated Automation										
		upgrade temperature controls	86,640	sqft	6.00	519,840	601,780	795,144	1	2
							Mechanical Systems Subtotal:	1,253,523	1,656,305	
Electrical Systems										
Power										
		panels for new mechanical	1	allo	25,000.00	25,000	28,941	38,240	1	2
		electrical to support technology	46	ea	1,500.00	69,000	79,876	105,542	1	1
							Electrical Systems Subtotal:	108,817	143,782	
							Construction Subtotal:	3,717,394	4,911,867	
Technology Infrastructure										
		demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	1	1
		replace cabling infrastructure	78,388	sf	0.65	50,952	58,984	72,343	1	1
		replace fiber to IDFs	2	ea	3,500.00	7,000	8,103	9,939	1	1
		replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1	1
		replace network switches - edge	19	ea	4,000.00	76,000	87,980	107,907	1	1
		network switches - multigig	1	ea	10,000.00	10,000	11,576	14,198	1	1
		replace rack UPS	3	ea	1,200.00	3,600	4,167	5,111	1	1
		update wireless infrastructure	60	ea	1,200.00	72,000	83,349	102,228	1	2
		upgrade phone system	1	lpsm	35,000.00	35,000	40,517	49,694	1	1
							Technology Infrastructure Subtotal:	316,671	388,397	
Technology Safety & Security										
		upgrade security camera system	55	ea	1,500.00	82,500	95,504	117,136	1	1
		replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1	1
		install emergency alert system	78,388	sf	0.75	58,791	68,058	83,473	1	2
		replace PA systems	78,388	sf	1.25	97,985	113,430	139,122	1	2
							Technology Safety & Security Subtotal:	289,147	354,639	
							Technology & Safety Infrastructure Subtotal:	605,818	743,036	
							REMODELING SUBTOTAL:	4,323,212	5,654,903	
SITE WORK										
Site Paving										
		repave north lot and receiving parking lot, bus loop and drive	45,100	sqft	8.87	399,900	462,934	611,684	1	2
							Site Paving Subtotal:	462,934	611,684	
Site Improvements										
		upgrade site sign - digital	1	lpsm	52,000.00	52,000	60,197	79,539	2	2
							Site Improvement Subtotal:	60,197	79,539	
							SITE WORK SUBTOTAL:	523,131	691,223	
INSTRUCTIONAL TECHNOLOGY										

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 6-8

Middle School North

Year Built: 1965

46201 Fairchild Road, Macomb, MI

Building Size: 78,388

Building Project Work List

Site Size: 24.11

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
Computers and Mobile Devices										
		teacher computers (desktop + 1:1 device)	53	each	1,250.00	66,250	76,693	94,064	2	2
		classroom printers	53	each	250.00	13,250	15,339	18,813	1	1
		admin staff computers	20	each	1,000.00	20,000	23,153	28,397	2	2
		student desktops	69	each	800.00	55,200	63,901	78,374	1	1
		mobile devices: 6-12	686	each	350.00	240,240	278,108	341,099	1	1
		mobile device storing/charging (classroom)	43	each	400.00	17,200	19,911	24,421	1	1
		mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual										
		classroom AV (display, sound, PA, doc camera)	43	each	9,000.00	387,000	448,001	549,473	1	1
		av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2	2
		conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							974,882	1,195,693		

FURNITURE, FURNISHINGS AND EQUIPMENT										
Non-Instructional Equipment										
		purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
		purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
		purchase radio / walkie-talkies	55	each	400.00	22,000	25,468	31,236	1	2
Non-Instructional Equipment Subtotal:							41,096	50,404		
Furniture, Furnishings & Equipment (FFE)										
		purchase furniture	1	lpsm	91,927.50	91,928	106,418	130,521	2	2
F,F,&E Subtotal:							106,418	130,521		
F, F, & E SUBTOTAL:							147,513	180,925		

PROJECT TOTAL:							5,968,738	7,722,744		
Construction Contingency:							596,874			
Permits / General Conditions:							186,583			
Design Consultants:							506,415			
C.M. Costs:							464,134			
BUILDING TOTAL:							7,722,744			

Notes:
 Scope of work is conceptual and will be detailed throughout the design phase
 Indirect Costs include; contingency, general conditions & professional fees

Building Utilization

School Building Name

Middle School North

Project No. [n] 12

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	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	34	22.5	765
(9-12) High School	0	21.25	0
Subtotal	34		765
Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	0		0
Total	34		765

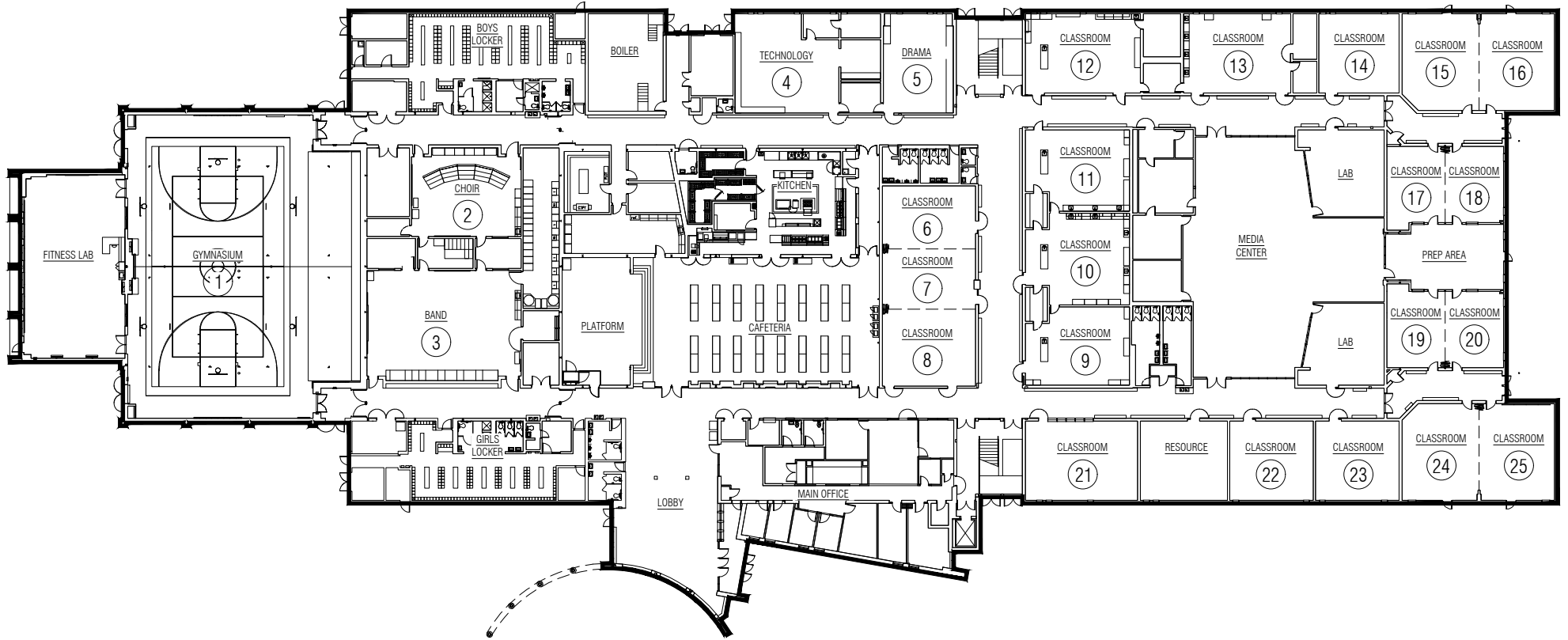
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

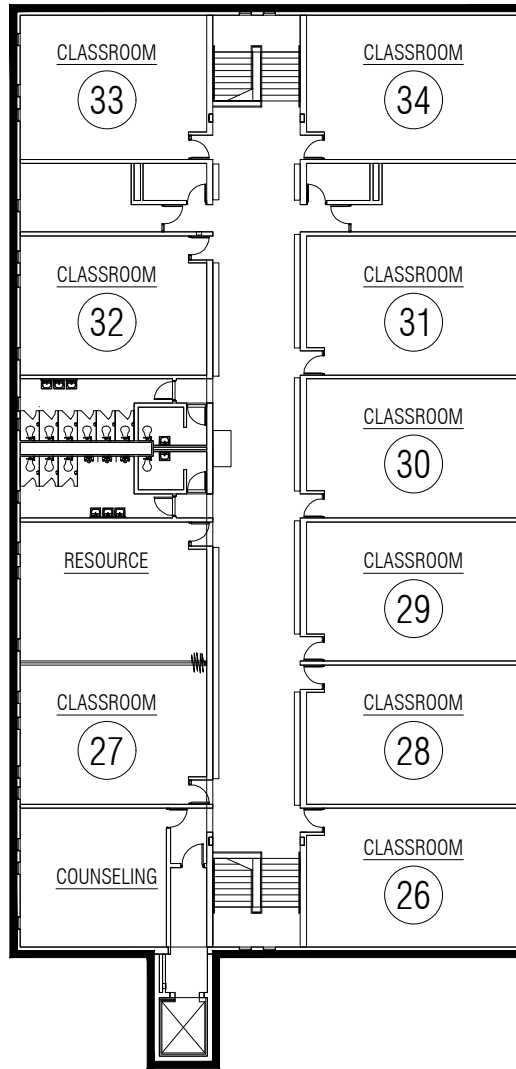
Projected 5-Year Enrollment 540

Utilization Percentage 71%

(Projected 5-Year Enrollment / Total Capacity)




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

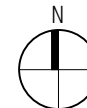




PARTNERS in Architecture, PLC

KEY

-  NEW CONSTRUCTION
-  REMODELED AREA
-  TEACHING STATION



Middle School North Second Floor
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

Middle School South				Project No. [n]	13
Proposal #:	Series 1	Series 2	n/a	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.

Construction Cost Per Square Foot

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

Does this proposed project address any existing environmental or usability problems? (check all that apply)

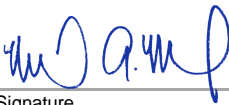
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

Estimated Cost of Proposed Construction Project

Column 1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	498,051	5,374,225	0	0	5,872,277
Construction Contingencies	128,131	731,086	0	0	859,217
Instructional Technology	783,261	140,362	0	0	923,623
Loose Furnishing/Equipment	0	147,513	0	0	147,513
Buses	0	0	0	0	0
Site Work	0	1,648,758	0	0	1,648,758
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	106,163	625,350	0	0	731,513
CM Fees and Costs	68,985	937,480	0	0	1,006,465
Estimated Costs	1,584,591	9,604,774	0	0	11,189,366

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.


6/17/2024
PARTNERS in Architecture, PLC #44723

Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.com 586-469-3600
 Printed Name E-mail Address Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 6-8

Middle School South

Year Built: 1973

34641 Jefferson Ave, Harrison Twp, MI

Building Size: 91,747

Building Project Work List

Site Size: 24.20

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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REMODELING WORK

Exterior Work

Roofing

roof work - priority 1	17,440	sqft	25.03	436,523	505,330	667,703	1	2
roof work - priority 2	61,960	sqft	25.03	1,550,859	1,795,313	2,372,183	2	2

Envelope

upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	2	2
reroute roof overflow drainage	1	lpsm	21,400.00	21,400	24,773	32,733	1	2
replace select exterior doors - high priority	12	ea	5,500.00	66,000	76,403	100,953	1	2

Exterior Work Subtotal: 2,427,287 3,207,223

Interior Work

replace interior openings	1	lpsm	25,000.00	25,000	28,941	38,240	2	2
replace drywall partitions & paint due to construction	1	lpsm	85,000.00	85,000	98,398	130,015	2	2
replace carpet (2nd floor classrooms & corridor)	11,800	lpsm	9.00	106,200	122,940	162,443	1	2
replace architectural trim out/specialties	1	lpsm	50,000.00	50,000	57,881	76,480	1	1
renovate space for emerging programs	2,000	sqft	100.00	200,000	231,525	305,919	2	2
replace telescoping bleachers	400	seats	200.00	80,000	92,610	122,367	2	2

Interior Work Subtotal: 632,295 835,464

Mechanical Systems

Plumbing Work

replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	1	2
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HVAC System

replace roof top units and classroom units, valves, pumps	1	lpsm	1,080,000.00	1,080,000	1,250,235	1,651,961	1	2
replace mdf/idf air conditioning	3	ea	15,000.00	45,000	52,093	68,832	1	2

Integrated Automation

upgrade temperature control system	91,747	sqft	6.00	550,482	637,252	842,013	1	2
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Mechanical Systems Subtotal: 2,027,559 2,679,055

Electrical Systems

Power

upgrade electrical systems - priority 1 (new panels for mech)	1	allo	25,000.00	25,000	28,941	38,240	1	2
electrical to support technology	46	ea	1,500.00	69,000	79,876	105,542	1	1

Lighting

upgrade building exterior lighting	22	ea	850.00	18,700	21,648	28,603	1	2
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Electrical Systems Subtotal: 130,464 172,385

Construction Subtotal: 5,217,606 6,894,127

Technology Infrastructure

demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	1	1
replace cabling infrastructure	91,747	sf	0.65	59,636	69,036	84,672	1	1
replace fiber to IDFs	2	ea	3,500.00	7,000	8,103	9,939	1	1
replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1	1
replace network switches - edge	21	ea	4,000.00	84,000	97,241	119,265	1	1
network switches - multigig	1	ea	10,000.00	10,000	11,576	14,198	1	1
replace rack UPS	3	ea	1,200.00	3,600	4,167	5,111	1	1
update wireless infrastructure	59	ea	1,200.00	70,800	81,960	100,524	1	2
upgrade phone system	1	lpsm	35,000.00	35,000	40,517	49,694	1	1

Technology Infrastructure Subtotal: 334,595 410,380

Technology Safety & Security

upgrade security camera system	55	ea	1,500.00	82,500	95,504	117,136	1	1
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1	1
install emergency alert system	91,747	sf	0.75	68,810	79,656	97,699	1	2
replace PA systems	91,747	sf	1.25	114,684	132,761	162,831	1	2

Technology Safety & Security Subtotal: 320,076 392,574

Technology & Safety Infrastructure Subtotal: 654,671 802,954

REMODELING SUBTOTAL: 5,872,277 7,697,081

SITE WORK

Site Paving

repave south east lot, drive, sidewalks, and UG stormwater structures	144,800	sqft	7.83	1,133,784	1,312,497	1,734,228	1	2
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Site Paving Subtotal: 1,312,497 1,734,228

Site Improvements

replace athletic fields, exterior courts, & furnishings	1	lpsm	238,475.00	238,475	276,065	364,770	2	2
upgrade site sign - digital	1	lpsm	52,000.00	52,000	60,197	79,539	2	2

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 6-8

Middle School South

Year Built: 1973

34641 Jefferson Ave, Harrison Twp, MI

Building Size: 91,747

Building Project Work List

Site Size: 24.20

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
						Site Improvement Subtotal:	336,261	444,309		
						SITE WORK SUBTOTAL:	1,648,758	2,178,537		

INSTRUCTIONAL TECHNOLOGY

Computers and Mobile Devices

teacher computers (desktop + 1:1 device)	53	each	1,250.00	66,250	76,693	94,064	2	2
classroom printers	53	each	250.00	13,250	15,339	18,813	1	1
admin staff computers	20	each	1,000.00	20,000	23,153	28,397	2	2
student desktops	133	each	800.00	106,400	123,171	151,070	1	1
mobile devices: 6-12	414	each	350.00	144,760	167,578	205,534	1	1
mobile device storing/charging (classroom)	43	each	400.00	17,200	19,911	24,421	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1

Audiovisual

classroom AV (display, sound, PA, doc camera)	43	each	9,000.00	387,000	448,001	549,473	1	1
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2	2
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1

INSTRUCTIONAL TECHNOLOGY SUBTOTAL: 923,623 1,132,823

FURNITURE, FURNISHINGS AND EQUIPMENT

Non-Instructional Equipment

purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
purchase radio / walkie-talkies	55	each	400.00	22,000	25,468	31,236	1	2

Non-Instructional Equipment Subtotal: 41,096 50,404

Furniture, Furnishings & Equipment (FFE)

purchase furniture	1	lpsm	91,927.50	91,928	106,418	130,521	2	2
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F,F,&E Subtotal: 106,418 130,521

F, F, & E SUBTOTAL: 147,513 180,925

PROJECT TOTAL: 8,592,171 11,189,366

Construction Contingency: 859,217

Permits / General Conditions: 302,120

Design Consultants: 731,513

C.M. Costs: 704,345

BUILDING TOTAL: 11,189,366

Notes:

Scope of work is conceptual and will be detailed throughout the design phase

Indirect Costs include; contingency, general conditions & professional fees

Building Utilization

School Building Name

Middle School South

Project No. [n] 13

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	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	27	22.5	608
(9-12) High School	0	21.25	0
Subtotal	27		608

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

Total	27		608
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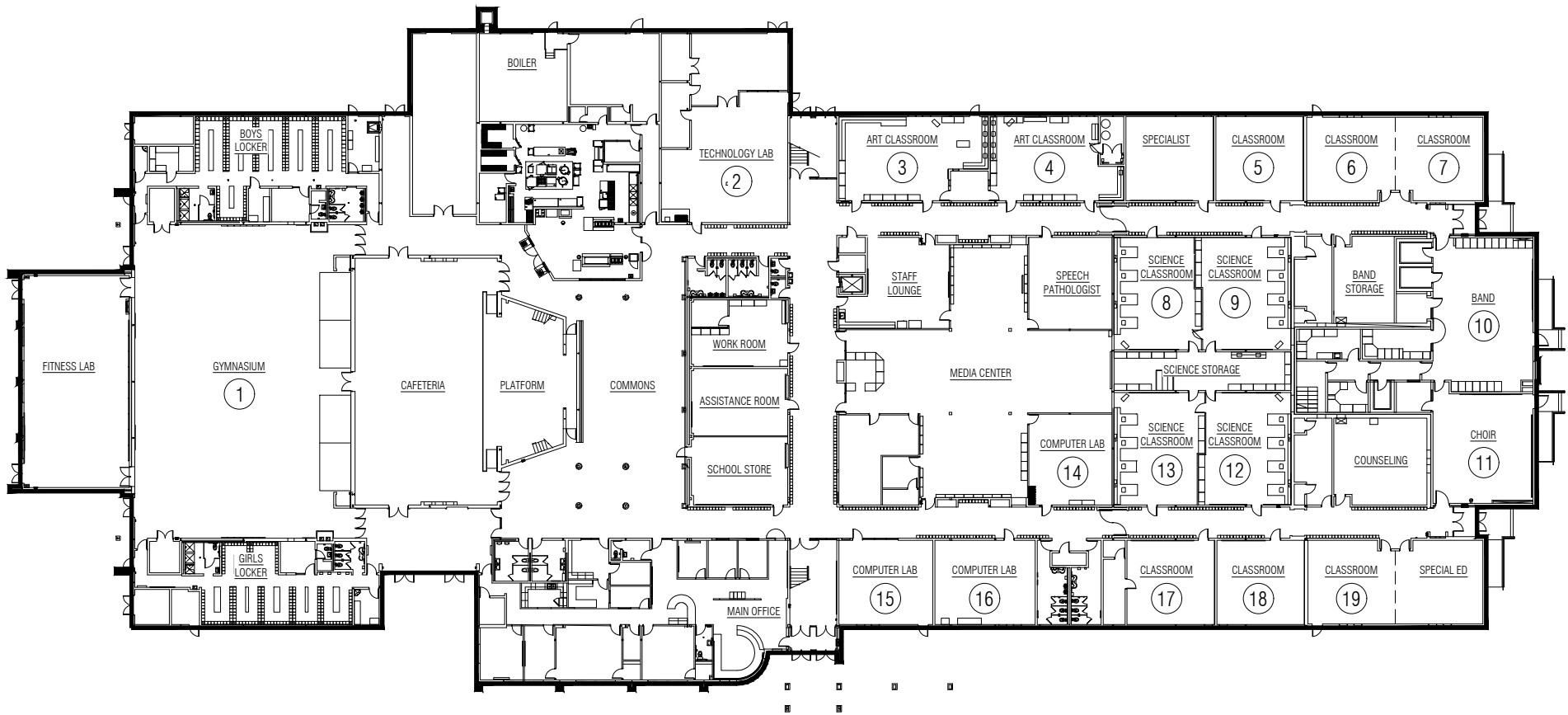
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

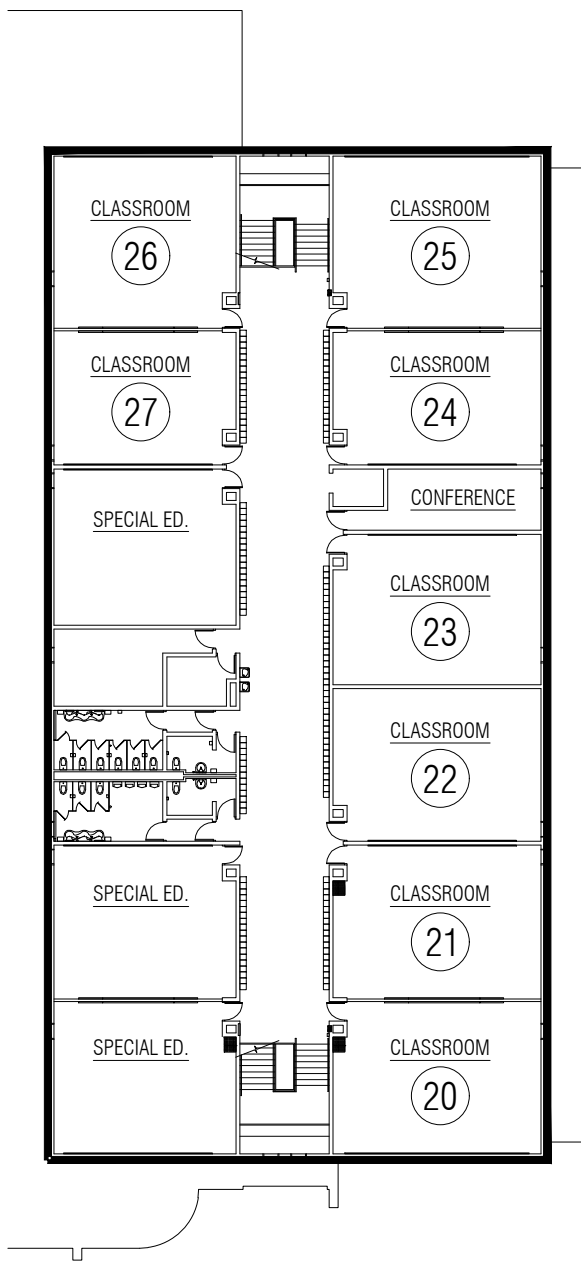
Projected 5-Year Enrollment 480

Utilization Percentage 79%




(Projected 5-Year Enrollment / Total Capacity)

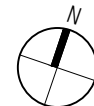
Please transfer applicable information to the Utilization Summary on Page 6 of the application.





PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION



Middle School South Second Floor
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

L'Anse Creuse High School	Project No. [n]	14
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Proposal #:	Series 1	Series 2	n/a	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.

Construction Cost Per Square Foot

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

Does this proposed project address any existing environmental or usability problems? (check all that apply)

<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements		
<input type="checkbox"/> Other - please list:	1.	2.	3.		

Estimated Cost of Proposed Construction Project

Column 1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	6,602,675	4,960,062	0	0	11,562,737
Construction Contingencies	1,545,641	801,318	0	0	2,346,959
Instructional Technology	1,525,055	201,137	0	0	1,726,193
Loose Furnishing/Equipment	0	531,525	0	0	531,525
Buses	0	0	0	0	0
Site Work	7,328,675	2,320,459	0	0	9,649,134
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	1,318,255	683,877	0	0	2,002,132
CM Fees and Costs	1,875,425	984,616	0	0	2,860,041
Estimated Costs	20,195,726	10,482,995	0	0	30,678,721

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.

6/17/2024
PARTNERS in Architecture, PLC #44723

Signature
Date
Firm Name and License Number

Michael A. Malone, AIA
mmalone@partnersinarch.com
586-469-3600

Printed Name
E-mail Address
Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 9-12

L'Anse Creuse High School

Year Built: 1955

38495 L'Anse Creuse Road, Harrison Twp, MI

Building Size: 213,591

Building Project Work List

Site Size: 30.02

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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REMODELING WORK

Exterior Work

Roofing

roof work - priority 1	90,000	sqft	25.00	2,250,000	2,604,656	3,441,584	1	1
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Envelope

replace exterior masonry	1	lpsm	273,055.00	273,055	316,095	417,663	1	1
upgrade select exterior glazing	1	lpsm	46,000.00	46,000	53,251	70,361	1	1
replace select exterior envelop materials	1	lpsm	100,000.00	100,000	115,763	152,959	1	1
reroute roof overflow drainage	1	lpsm	31,500.00	31,500	36,465	48,182	1	1
replace EIFS with metal panel	11,100	sqft	70.00	777,000	899,475	1,188,494	1	1
replace select exterior doors - high priority	20	lpsm	5,500.00	110,000	127,339	168,255	1	1

Exterior Work Subtotal: 4,153,043 5,487,499

Interior Work

replace interior openings	1	lpsm	50,000.00	50,000	57,881	76,480	2	2
replace drywall partitions & paint due to construction	1	lpsm	90,000.00	90,000	104,186	137,663	2	2
replace carpet (select classrooms)	19,300	lpsm	9.00	173,700	201,079	265,690	1	2
replace architectural trim out/specialties	1	lpsm	50,000.00	50,000	57,881	76,480	1	1
renovate space for emerging programs	2,000	sqft	100.00	200,000	231,525	305,919	2	2
upgrade music program (4 pre-fab studios & music spaces)	1	lpsm	500,000.00	500,000	578,813	764,797	2	2

Interior Work Subtotal: 1,333,237 1,761,632

Mechanical Systems

Plumbing Work

replace water heater, pumps, select toilet room faucets & flush valves, water bottle fillers, and grease traps	1	lpsm	151,000.00	151,000	174,801	230,969	1	1
replace pool system equipment	1	lpsm	540,000.00	540,000	625,118	825,980	1	1

HVAC System

replace select RTUs, classroom units, valves, pumps, and piping	1	lpsm	317,800.01	317,800	367,893	486,105	1	2
replace pool and locker room mechanical equipment	1	lpsm	308,750.00	308,750	357,417	472,262	1	1
replace mdf/idf air conditioning	8	ea	15,000.00	120,000	138,915	183,551	1	2
locker rooms HVAC upgrades (duct and mechanical units)	1	allo	175,000.00	175,000	202,584	267,679	1	1

Integrated Automation

upgrade temperature control system	213,591	sqft	6.00	1,281,546	1,483,550	1,960,244	1	2
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Mechanical Systems Subtotal: 3,350,278 4,426,789

Electrical Systems

Power

electrical to support technology	76	ea	1,500.00	114,000	131,969	174,374	1	1
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Lighting

upgrade building exterior lighting	30	ea	850.00	25,500	29,519	39,005	1	1
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Electronic Safety & Security

replace fire alarm system	131,780	sqft	7.00	922,460	1,067,863	1,410,988	1	2
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Electrical Systems Subtotal: 1,229,351 1,624,367

Construction Subtotal: 10,065,909 13,300,287

Technology Infrastructure

data cabling for renovations	1	ea	10,000.00	10,000	11,576	14,198	1	1
demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	1	1
replace cabling infrastructure	213,591	sf	0.65	138,834	160,718	197,120	1	1
replace fiber to IDFs	9	ea	3,500.00	31,500	36,465	44,725	1	1
replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1	1
replace network switches - edge	52	ea	4,000.00	208,000	240,786	295,324	1	1
network switches - multigig	2	ea	10,000.00	20,000	23,153	28,397	1	1
replace rack UPS	10	ea	1,200.00	12,000	13,892	17,038	1	1
update wireless infrastructure	95	ea	1,200.00	114,000	131,969	161,860	1	2
upgrade phone system	1	lpsm	50,000.00	50,000	57,881	70,991	1	1

Technology Infrastructure Subtotal: 698,435 856,630

Technology Safety & Security

upgrade security camera system	175	ea	1,500.00	262,500	303,877	372,705	1	1
install emergency alert system	213,591	sf	0.75	160,193	185,444	227,447	1	2
replace PA systems	213,591	sf	1.25	266,989	309,073	379,078	1	2

Technology Safety & Security Subtotal: 798,393 979,229

Technology & Safety Infrastructure Subtotal: 1,496,828 1,835,859

REMODELING SUBTOTAL: 11,562,737 15,136,147

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 9-12

L'Anse Creuse High School

Year Built: 1955

38495 L'Anse Creuse Road, Harrison Twp, MI

Building Size: 213,591

Building Project Work List

Site Size: 30.02

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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SITE WORK

Site Paving

repave main parking lot, drives, speed bumps, and replace sidewalks	1	lpsm	1,912,500.00	1,912,500	2,213,958	2,925,347	1	2
Site Paving Subtotal:						2,213,958	2,925,347	

Site Improvements

replace athletic fields, exterior courts, & furnishings	1	lpsm	1,810,785.00	1,810,785	2,096,210	2,769,764	1	1
upgrade baseball & softball synthetic turf	1	lpsm	3,270,000.00	3,270,000	3,785,434	5,001,769	2	1
upgrade ball fields (dugouts, bleachers, backstops, fencingf)	1	lpsm	1,250,000.00	1,250,000	1,447,031	1,911,991	2	1
upgrade site sign - digital	1	lpsm	92,000.00	92,000	106,502	140,723	2	2
Site Improvement Subtotal:						7,435,176	9,824,247	
SITE WORK SUBTOTAL:						9,649,134	12,749,594	

INSTRUCTIONAL TECHNOLOGY

Computers and Mobile Devices

teacher computers (desktop + 1:1 device)	83	each	1,250.00	103,750	120,104	147,307	2	2
admin staff computers	35	each	1,000.00	35,000	40,517	49,694	2	2
student desktops	101	each	800.00	80,800	93,536	114,722	1	1
mobile devices: 6-12	1,364	each	350.00	477,400	552,650	677,825	1	1
mobile device storing/charging (classroom)	73	each	400.00	29,200	33,803	41,459	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1

Audiovisual

classroom AV (display, sound, PA, doc camera)	73	each	9,000.00	657,000	760,560	932,826	1	1
science/art room/MC displays	5	each	5,000.00	25,000	28,941	35,496	1	1
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2	2
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
stadium sound system	1	lpsm	40,000.00	40,000	46,305	56,793	1	1

INSTRUCTIONAL TECHNOLOGY SUBTOTAL: 1,726,193 2,117,175

FURNITURE, FURNISHINGS AND EQUIPMENT

Non-Instructional Equipment

purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
purchase radio / walkie-talkies	85	each	400.00	34,000	39,359	48,274	1	2
Non-Instructional Equipment Subtotal:						54,987	67,442	

Furniture, Furnishings & Equipment (FFE)

purchase furniture	1	lpsm	194,004.00	194,004	224,584	275,452	2	2
purchase band trailers	1	lpsm	117,647.00	117,647	136,191	179,952	2	2
purchase band equipment	1	lpsm	100,000.00	100,000	115,763	152,959	2	2
F,F,&E Subtotal:						476,537	608,363	
F, F, & E SUBTOTAL:						531,525	675,805	

PROJECT TOTAL: 23,469,589 30,678,721

Construction Contingency: 2,346,959

Permits / General Conditions: 878,548

Design Consultants: 2,002,132

C.M. Costs: 1,981,494

BUILDING TOTAL: 30,678,721

Notes:

Scope of work is conceptual and will be detailed throughout the design phase
Indirect Costs include; contingency, general conditions & professional fees

Building Utilization

School Building Name

L'Anse Creuse High School

Project No. [n] 14

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	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	72	21.25	1,530
Subtotal	72		1,530

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

Total	72		1,530
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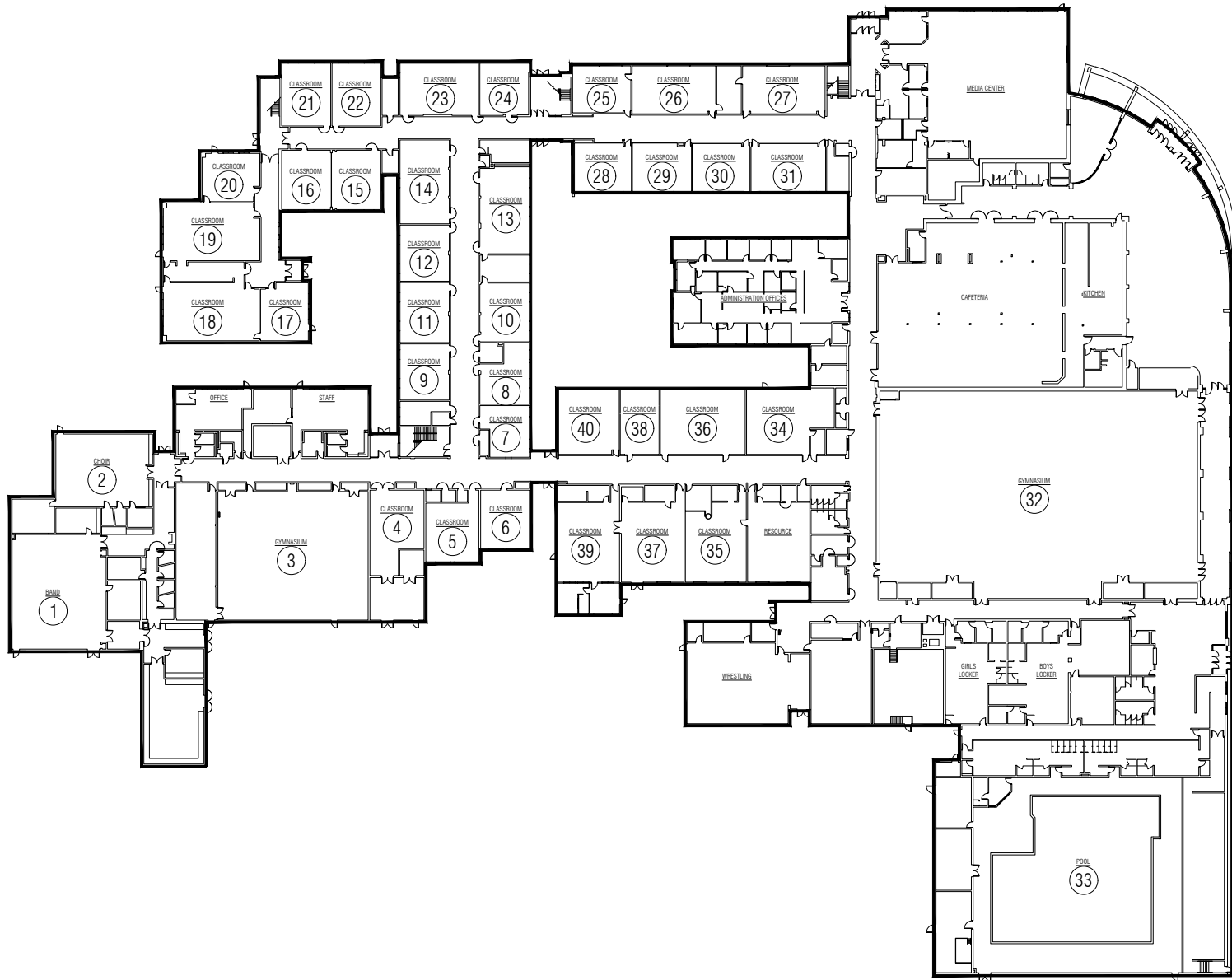
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 1,305




Utilization Percentage 85%

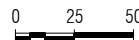
(Projected 5-Year Enrollment / Total Capacity)

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

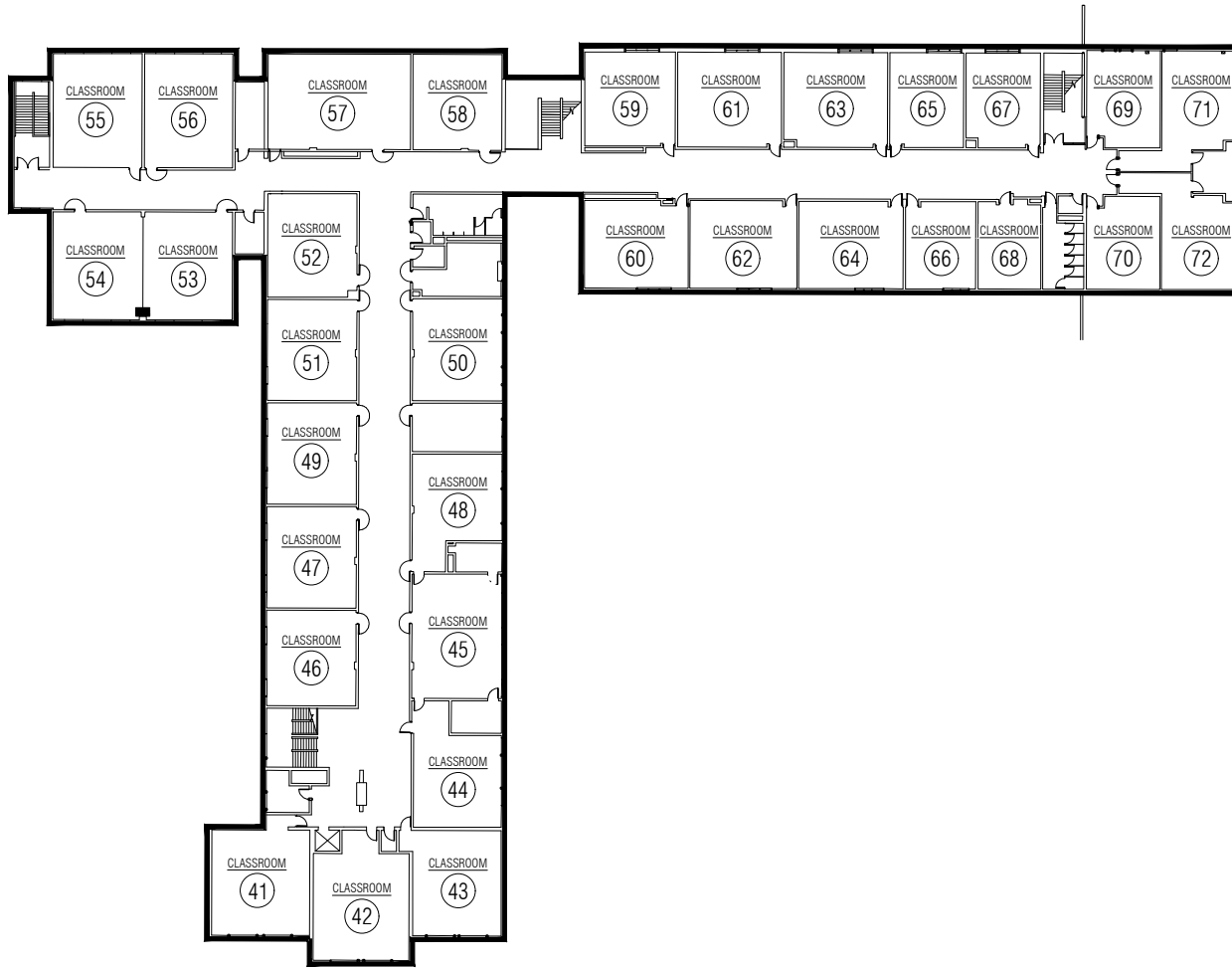


PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION






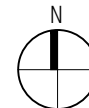
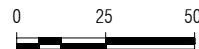
L'Anse Creuse High School First Floor
L'ANSE CREUSE PUBLIC SCHOOLS



PARTNERS in Architecture, PLC

KEY

-  NEW CONSTRUCTION
-  REMODELED AREA
-  TEACHING STATION



L'Anse Creuse High School Second Floor
 L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

High School North				Project No. [n]	15
Proposal #:	Series 1	Series 2	n/a	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

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

Does this proposed project address any existing environmental or usability problems? (check all that apply)

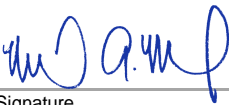
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements		
<input type="checkbox"/> Other - please list:	1.	2.	3.		

Estimated Cost of Proposed Construction Project

Column 1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	6,154,972	7,014,285	0	0	13,169,257
Construction Contingencies	1,516,195	1,049,288	0	0	2,565,483
Instructional Technology	1,678,302	332,817	0	0	2,011,119
Loose Furnishing/Equipment	0	532,914	0	0	532,914
Buses	0	0	0	0	0
Site Work	7,328,675	2,612,863	0	0	9,941,538
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	1,292,526	895,897	0	0	2,188,422
CM Fees and Costs	1,822,630	1,300,181	0	0	3,122,811
Estimated Costs	19,793,300	13,738,244	0	0	33,531,544

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.


6/17/2024
PARTNERS in Architecture, PLC #44723

Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.com 586-469-3600
 Printed Name E-mail Address Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 9-12

High School North

Year Built: 1972

23700 21-Mile Road, Macomb, MI

Building Size: 238,187

Building Project Work List

Site Size: 41.12

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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REMODELING WORK

Exterior Work

Roofing

roof work - priority 1 (balance from summer 2023)	143,407	sqft	25.00	3,585,175	4,150,288	5,483,859	1	1
roof work - priority 2	10,200	sqft	8.00	81,600	94,462	124,815	2	1

Envelope

replace exterior masonry	1	lpsm	356030	356,030	412,149	544,581	1	2
upgrade select exterior glazing	1	lpsm	81,000.00	81,000	93,768	123,897	1	1
replace select exterior envelop materials	1	lpsm	31,500.00	31,500	36,465	48,182	1	2
reroute roof overflow drainage	1	lpsm	45,000.00	45,000	52,093	68,832	1	2
replace EIFS with metal panel	4,050	sqft	70.00	283,500	328,187	433,640	1	2
replace select exterior doors - high priority	24	ea	5,500.00	132,000	152,807	201,906	1	1

Exterior Work Subtotal: 5,320,219 7,029,711

Interior Work

replace interior openings	1	lpsm	50,000.00	50,000	57,881	76,480	2	2
replace drywall partitions & paint due to construction	1	lpsm	90,000.00	90,000	104,186	137,663	2	2
replace carpet (30 classrooms)	31,200	sf	9.00	280,800	325,061	429,510	1	2
replace architectural trim out/specialties	1	lpsm	50,000.00	50,000	57,881	76,480	1	2
renovate space for emerging programs	2,000	sqft	100.00	200,000	231,525	305,919	2	2

Interior Work Subtotal: 979,119 1,293,730

Mechanical Systems

Plumbing Work

replace water heater, pumps, select toilet room faucets & flush valves, water bottle fillers, and grease traps	1	lpsm	151,000.00	151,000	174,801	230,969	1	2
replace pool system equipment	1	lpsm	577,500.00	577,500	668,528	883,340	1	1

HVAC System

replace boilers, chillers, roof top units, classroom units, pumps, valves, & piping	1	lpsm	1,810,576.97	1,810,577	2,095,969	2,769,446	1	2
replace pool and locker room mechanical equipment	1	lpsm	308,750.00	308,750	357,417	472,262	1	2
replace mdf/idf air conditioning	9	ea	15,000.00	135,000	156,279	206,495	1	2

Integrated Automation

upgrade temperature controls	238,187	sqft	6.00	1,429,122	1,654,387	2,185,975	1	2
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Mechanical Systems Subtotal: 5,107,382 6,748,487

Electrical Systems

Power

electrical to support technology	79	ea	1,500.00	118,500	137,179	181,257	1	1
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Lighting

upgrade building exterior lighting	51	ea	850.00	43,350	50,183	66,308	2	2
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Electrical Systems Subtotal: 187,362 247,565

Construction Subtotal: 11,594,082 15,319,492

Technology Infrastructure

data cabling for renovations	1	ea	10,000.00	10,000	11,576	14,198	2	2
demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	1	1
replace cabling infrastructure	238,187	sf	0.65	154,822	179,225	219,820	1	1
replace fiber to IDFs	8	ea	3,500.00	28,000	32,414	39,755	1	1
replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1	1
replace network switches - edge	49	ea	4,000.00	196,000	226,895	278,286	1	1
network switches - multigig	2	ea	10,000.00	20,000	23,153	28,397	1	1
replace rack UPS	9	ea	1,200.00	10,800	12,502	15,334	1	1
update wireless infrastructure	111	ea	1,200.00	133,200	154,196	189,121	1	2
upgrade phone system	1	lpsm	50,000.00	50,000	57,881	70,991	1	1

Technology Infrastructure Subtotal: 719,836 882,879

Technology Safety & Security

upgrade security camera system	175	ea	1,500.00	262,500	303,877	372,705	1	1
install emergency alert system	238,187	sf	0.75	178,640	206,798	253,638	1	2
replace PA systems	238,187	sf	1.25	297,734	344,664	422,730	1	2

Technology Safety & Security Subtotal: 855,339 1,049,073

(830,000.00) Technology & Safety Infrastructure Subtotal: 1,575,175 1,931,952

346750

REMODELING SUBTOTAL: 13,169,257 17,251,445

SITE WORK

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 9-12

High School North

Year Built: 1972

23700 21-Mile Road, Macomb, MI

Building Size: 238,187

Building Project Work List

Site Size: 41.12

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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Site Paving

repave east lots, north and east drives, and replace sidewalks	1	lspm	2,165,089.00	2,165,089	2,506,361	3,311,705	1	2
Site Paving Subtotal:						2,506,361	3,311,705	

Site Improvements

replace football field synthetic turf, tracks, and tennis courts	1	lpsm	1,810,785.00	1,810,785	2,096,210	2,769,764	1	1
upgrade baseball & softball synthetic turf	1	lpsm	3,270,000.00	3,270,000	3,785,434	5,001,769	2	1
upgrade ball fields (dugouts, bleachers, backstops, fencing)	1	lpsm	1,250,000.00	1,250,000	1,447,031	1,911,991	2	1
upgrade site sign - digital	1	lpsm	92,000.00	92,000	106,502	140,723	2	2
Site Improvement Subtotal:						7,435,176	9,824,247	
SITE WORK SUBTOTAL:						9,941,538	13,135,953	

INSTRUCTIONAL TECHNOLOGY

Computers and Mobile Devices

teacher computers (desktop + 1:1 device)	86	each	1,250.00	107,500	124,445	152,631	2	2
admin staff computers	35	each	1,000.00	35,000	40,517	49,694	2	2
student desktops	133	each	800.00	106,400	123,171	151,070	1	1
mobile devices: 6-12	1,703	each	350.00	595,980	689,921	846,189	1	1
mobile device storing/charging (classroom)	76	each	400.00	30,400	35,192	43,163	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1

Audiovisual

classroom AV (display, sound, PA, doc camera)	76	each	9,000.00	684,000	791,816	971,162	1	1
science/art room/MC displays	5	each	5,000.00	25,000	28,941	35,496	1	1
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2	2
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
stadium sound system	1	lpsm	40,000.00	40,000	46,305	56,793	2	2
lgi audiovisual	2	each	35,000.00	70,000	81,034	99,388	2	2

INSTRUCTIONAL TECHNOLOGY SUBTOTAL: 2,011,119 2,466,637

FURNITURE, FURNISHINGS AND EQUIPMENT

Non-Instructional Equipment

purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
purchase radio / walkie-talkies	88	each	400.00	35,200	40,748	49,978	1	2

Non-Instructional Equipment Subtotal: 56,376 69,146

Furniture, Furnishings & Equipment (FFE)

purchase furniture	1	lpsm	194,004.50	194,005	224,584	275,453	2	2
purchase band trailers	1	lpsm	117,647.00	117,647	136,191	179,952	2	2
purchase band equipment	1	lpsm	100,000.00	100,000	115,763	152,959	2	2

F,F,&E Subtotal: 476,538 608,364

F, F, & E SUBTOTAL: 532,914 677,510

PROJECT TOTAL: 25,654,828 33,531,544

Construction Contingency: 2,565,483

Permits / General Conditions: 958,653

Design Consultants: 2,188,422

C.M. Costs: 2,164,158

BUILDING TOTAL: 33,531,544

Notes:

Scope of work is conceptual and will be detailed throughout the design phase
Indirect Costs include; contingency, general conditions & professional fees

Building Utilization

School Building Name

High School North

Project No. [n] 15

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	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	82	21.25	1,743
Subtotal	82		1,743

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

Total	82		1,743
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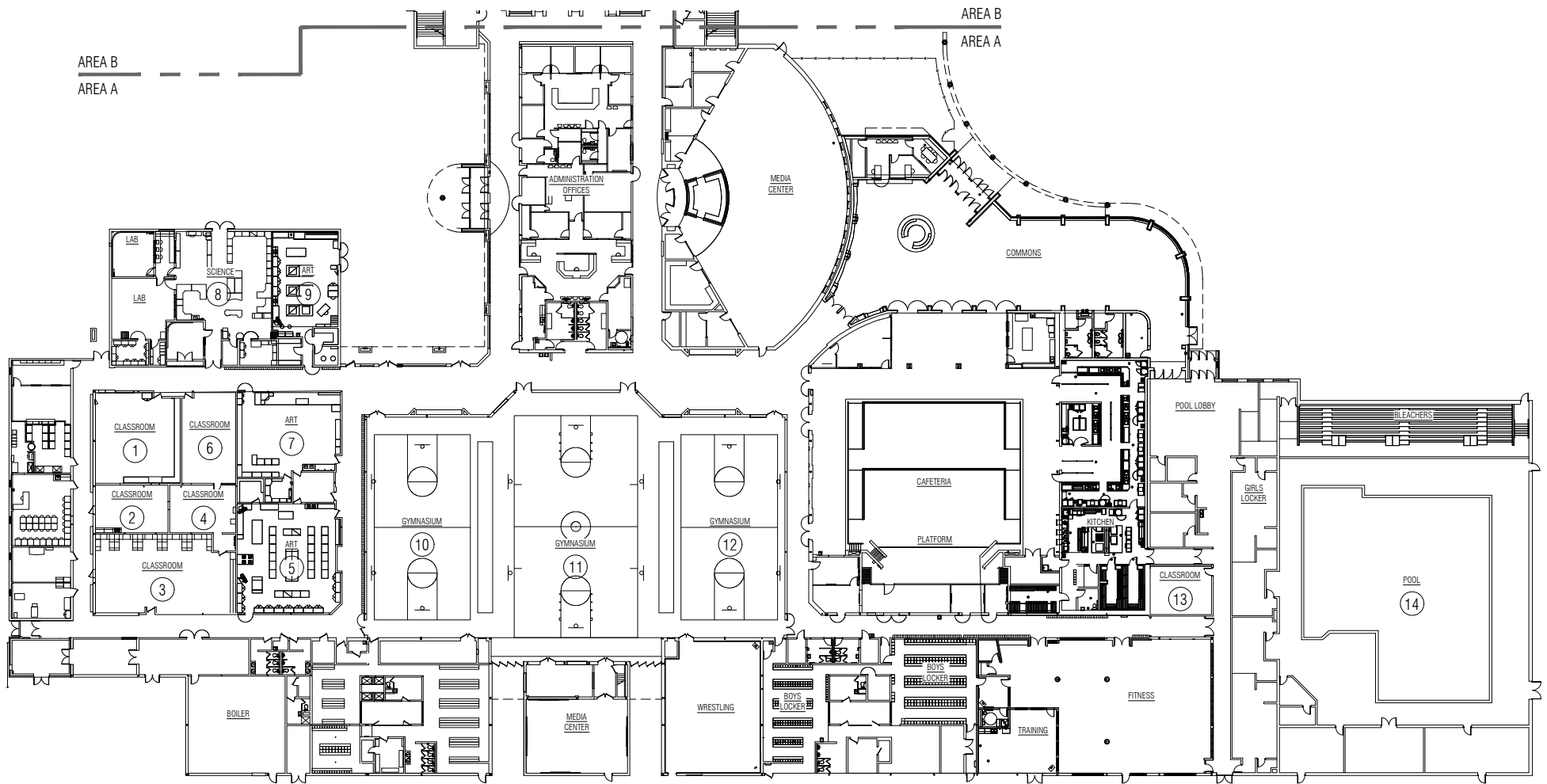
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 1,400




Utilization Percentage 80%

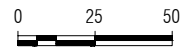
(Projected 5-Year Enrollment / Total Capacity)

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

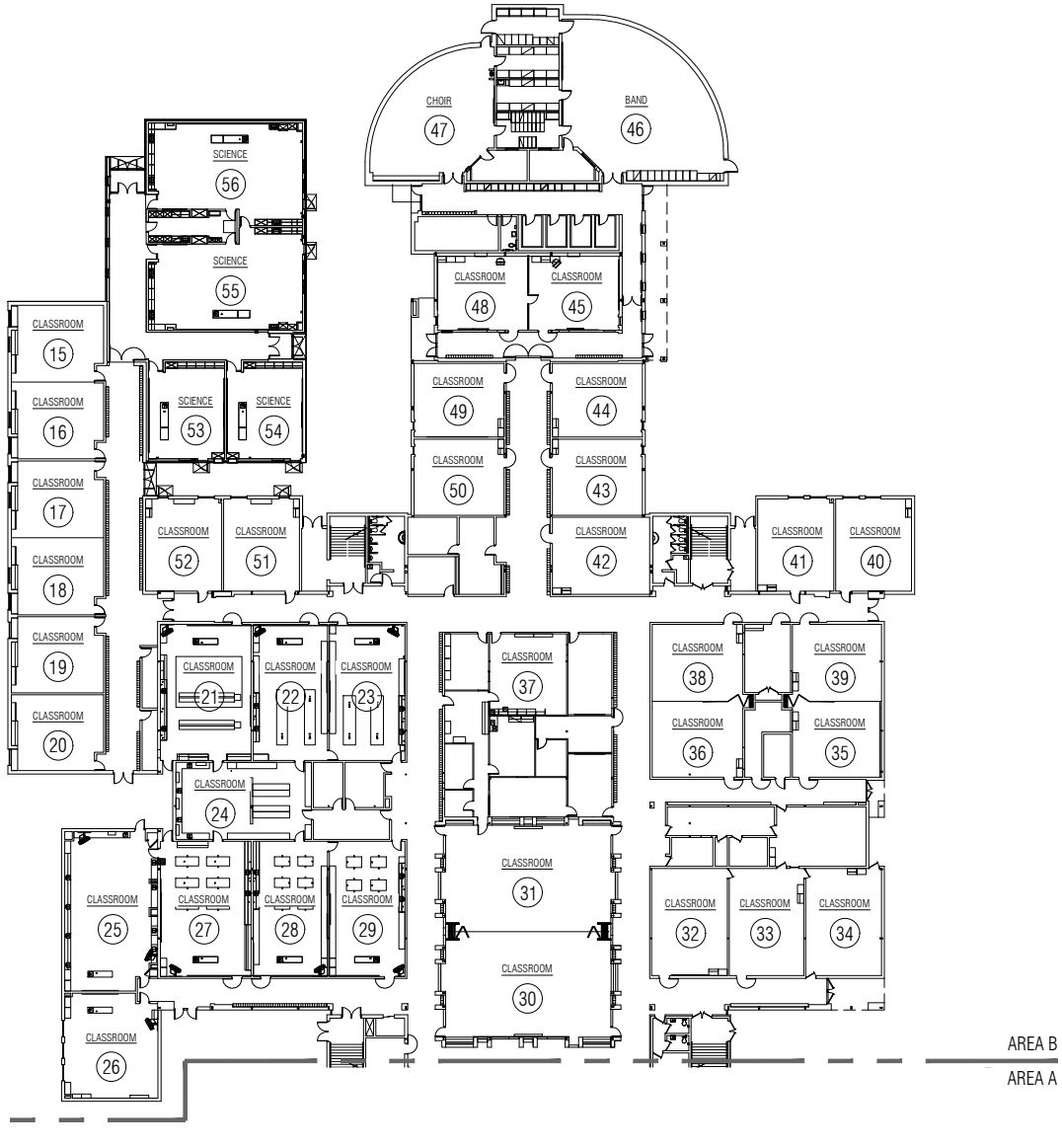


PARTNERS in Architecture, PLC




- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION

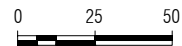


High School North First Floor - Area A
L'ANSE CREUSE PUBLIC SCHOOLS

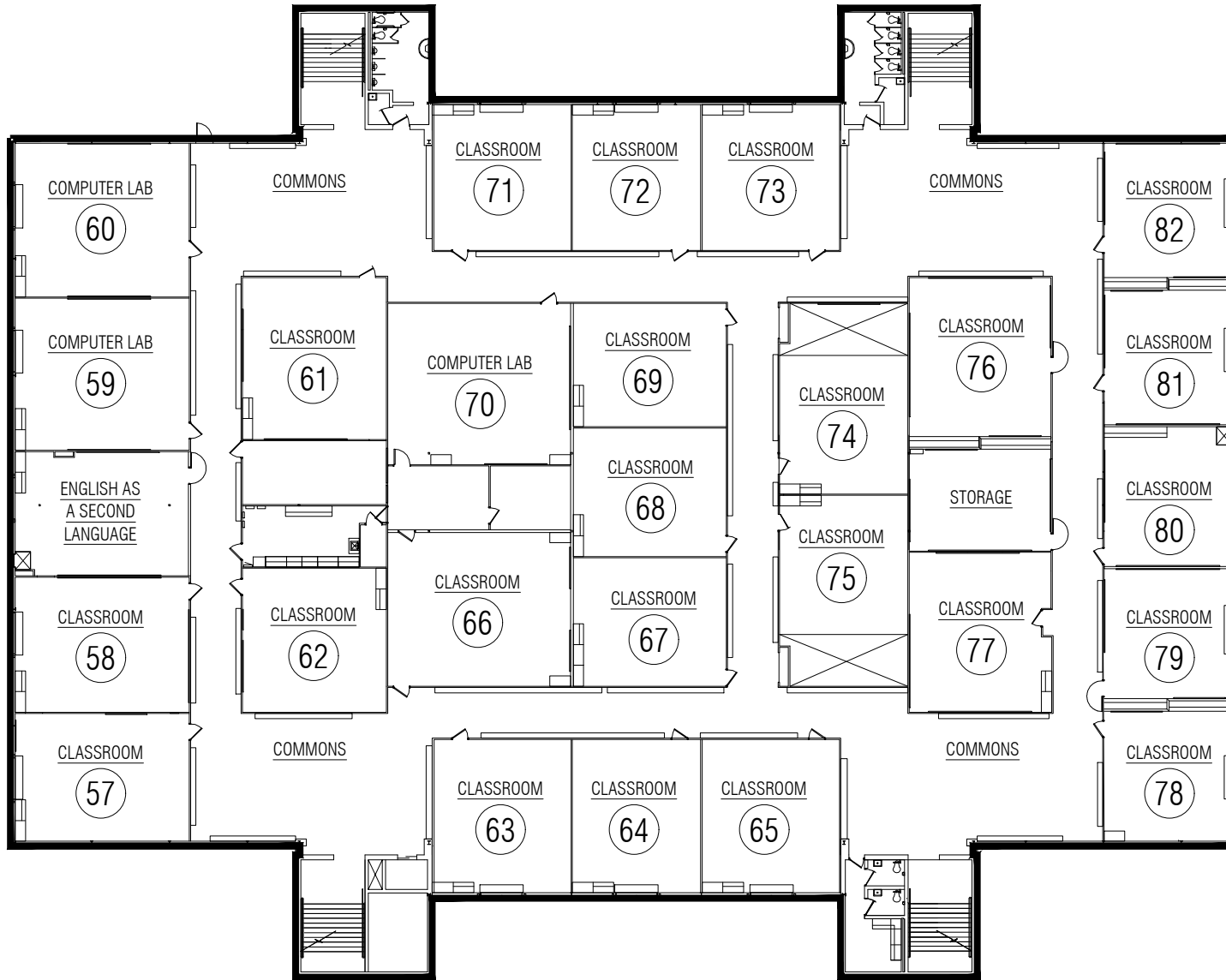


PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION



High School North First Floor - Area B
L'ANSE CREUSE PUBLIC SCHOOLS



Project Sheet

Burdi Early Childhood Center	Project No. [n]	16
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Proposal #:	Series 1	Series 2	n/a	n/a	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

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

Does this proposed project address any existing environmental or usability problems? (check all that apply)

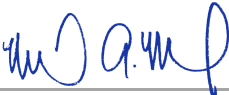
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements		
<input type="checkbox"/> Other - please list:	1.	2.	3.		

Estimated Cost of Proposed Construction Project

Column 1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	440,842	409,525	0	0	850,368
Construction Contingencies	60,222	56,609	0	0	116,831
Instructional Technology	161,373	30,388	0	0	191,761
Loose Furnishing/Equipment	0	65,985	0	0	65,985
Buses	0	0	0	0	0
Site Work	0	60,197	0	0	60,197
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	50,691	48,020	0	0	98,711
CM Fees and Costs	54,467	61,434	0	0	115,901
Estimated Costs	767,595	732,157	0	0	1,499,753

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.


6/17/2024
PARTNERS in Architecture, PLC #44723

Signature
Date
Firm Name and License Number

Michael A. Malone, AIA
mmalone@partnersinarch.com
586-469-3600

Printed Name
E-mail Address
Phone Number

2024 Bond Program

Grades: preK

Burdi Early Childhood Center

Year Built: 1995

29851 24-Mile Road, Chesterfield, MI

Building Size: 17,102

Building Project Work List

Site Size: inc w/ Higgins

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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REMODELING WORK

Exterior Work

Roofing

roof work - priority 1	1	lpsm	7,000.00	7,000	8,103	10,707	1	1
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Envelope

upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	1	1
replace select exterior envelop materials	1	lpsm	25,000.00	25,000	28,941	38,240	1	1
reroute roof overflow drainage	1	lpsm	41,000.00	41,000	47,463	62,713	1	2
replace select exterior doors - high priority	18	lpsm	5,500.00	99,000	114,605	151,430	1	1

Exterior Work Subtotal: 224,579 296,741

Interior Work

replace casework (countertops and hardware)	1	lpsm	80,000.00	80,000	92,610	122,367	1	1
replace interior openings	1	allo	5,000.00	5,000	5,788	7,648	2	2
replace drywall partitions & paint due to construction	1	lpsm	20,000.00	20,000	23,153	30,592	2	2
renovate toilet room & locker room	1	lpsm	50,953.50	50,954	58,985	77,938	1	2
replace carpet (classrooms)	7,800	lpsm	9.00	70,200	81,265	107,377	1	2
replace VCT flooring (classrooms and workrooms)	3,000	sqft	8.00	24,000	27,783	36,710	2	2
replace architectural trim out/specialties	1	lpsm	10,000.00	10,000	11,576	15,296	1	1

Interior Work Subtotal: 301,160 397,929

Mechanical Systems

HVAC System

replace mdf/idf air conditioning	1	ea	15,000.00	15,000	17,364	22,944	1	2
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Integrated Automation

upgrade temperature controls	17,102	sqft	3.00	51,306	59,393	78,477	1	2
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Mechanical Systems Subtotal: 76,757 101,421

Electrical Systems

Power

electrical to support technology	14	ea	1,500.00	21,000	24,310	32,121	1	1
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Lighting

upgrade building exterior lighting	18	ea	850.00	15,300	17,712	23,403	1	2
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Electrical Systems Subtotal: 42,022 55,524

Construction Subtotal: 644,519 851,615

Technology Infrastructure

data cabling for renovations	1	ea	10,000.00	10,000	11,576	14,198	2	2
demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	1	1
replace cabling infrastructure	17,102	sf	0.65	11,116	12,869	15,783	1	1
replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1	1
replace network switches - edge	5	ea	4,000.00	20,000	23,153	28,397	1	1
replace rack UPS	1	ea	1,200.00	1,200	1,389	1,704	1	1
update wireless infrastructure	14	ea	1,200.00	16,800	19,448	23,853	1	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1	1

Technology Infrastructure Subtotal: 119,370 146,407

Technology Safety & Security

upgrade security camera system	20	ea	1,500.00	30,000	34,729	42,595	1	1
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1	1
install emergency alert system	17,102	sf	0.75	12,827	14,848	18,211	1	2
replace PA systems	17,102	sf	1.25	21,378	24,747	30,352	1	2

Technology Safety & Security Subtotal: 86,479 106,067

0.00 Technology & Safety Infrastructure Subtotal: 205,849 252,474

346750 REMODELING SUBTOTAL: 850,368 1,104,090

SITE WORK

Site Improvements

upgrade site sign - digital	1	lpsm	52,000.00	52,000	60,197	79,539	2	2
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Site Improvement Subtotal: 60,197 79,539

SITE WORK SUBTOTAL: 60,197 79,539

INSTRUCTIONAL TECHNOLOGY

Computers and Mobile Devices

teacher computers (desktop + 1:1 device)	13	each	1,250.00	16,250	18,811	23,072	2	2
admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2	2
student desktops	35	each	800.00	28,000	32,414	39,755	1	1

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: preK

Burdi Early Childhood Center

Year Built: 1995

29851 24-Mile Road, Chesterfield, MI

Building Size: 17,102

Building Project Work List

Site Size: inc w/ Higgins

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
		mobile device storing/charging (classroom)	11	each	400.00	4,400	5,094	6,247	1	1
		mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual										
		classroom AV (display, sound, PA, doc camera)	11	each	9,000.00	99,000	114,605	140,563	1	1
		conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							191,761	235,194		

FURNITURE, FURNISHINGS AND EQUIPMENT

Non-Instructional Equipment

		purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
		purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
		purchase radio / walkie-talkies	15	each	400.00	6,000	6,946	8,519	1	2
Non-Instructional Equipment Subtotal:							22,574	27,687		

Furniture, Furnishings & Equipment (FFE)

		purchase furniture	1	lpsm	37,500.00	37,500	43,411	53,244	2	2
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F,F,&E Subtotal: 43,411 53,244

F, F, & E SUBTOTAL: 65,985 80,930

PROJECT TOTAL: 1,168,310 1,499,753

Construction Contingency: 116,831

Permits / General Conditions: 31,007

Design Consultants: 98,711

C.M. Costs: 84,894

BUILDING TOTAL: 1,499,753

Notes:

Scope of work is conceptual and will be detailed throughout the design phase

Indirect Costs include; contingency, general conditions & professional fees

Project Sheet

Pankow Career Tech Center & Armstrong Performing Arts Center Project No. [n] 17

Proposal #:	Series 1	Series 2	n/a	n/a	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft	n/a	Cost per Sq Ft	n/a
New Addition Square Ft	n/a	Cost per Sq Ft	n/a

Does this proposed project address any existing environmental or usability problems? (check all that apply)

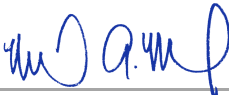
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

Estimated Cost of Proposed Construction Project

Column 1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	944,424	4,608,609	0	0	5,553,034
Construction Contingencies	456,468	510,540	0	0	967,008
Instructional Technology	535,876	308,218	0	0	844,094
Loose Furnishing/Equipment	0	183,947	0	0	183,947
Buses	0	0	0	0	0
Site Work	3,084,376	4,631	0	0	3,089,007
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	388,054	435,011	0	0	823,066
CM Fees and Costs	518,900	607,792	0	0	1,126,692
Estimated Costs	5,928,099	6,658,748	0	0	12,586,846

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.

	6/17/2024	PARTNERS in Architecture, PLC #44723
Signature	Date	Firm Name and License Number

Michael A. Malone, AIA	mmalone@partnersinarch.com	586-469-3600
Printed Name	E-mail Address	Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 9-12

Pankow / Performing Arts Center

Year Built: 1974

24600 F.V.Pankow Blvd, Clinton Twp, MI

Building Size: 140,891

Building Project Work List

Site Size: 42.57

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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REMODELING WORK

Exterior Work

Roofing

roof work - priority 1	33,500	sqft	25.47	853,245	987,738	1,305,118	1	2
roof work - priority 2	11,100	sqft	30.37	337,107	390,243	515,637	2	2

Envelope

upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	1	2
replace select exterior envelop materials	1	lpsm	15,000.00	15,000	17,364	22,944	2	2
replace EIFS with metal panels	2,960	sqft	70.00	207,200	239,860	316,932	1	2
replace select exterior doors - high priority	12	ea	5,500.00	66,000	76,403	100,953	1	2

Exterior Work Subtotal: 1,737,077 2,295,234

Interior Work

replace interior openings	1	allo	50,000.00	50,000	57,881	76,480	2	2
replace architectural trim out/specialties	1	lpsm	25,000.00	25,000	28,941	38,240	1	1
improve arts program (dance studio floor)	1	lpsm	25,000.00	25,000	28,941	38,240	2	2

Interior Work Subtotal: 115,763 152,959

Mechanical Systems

Plumbing Work

replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	119,500.00	119,500	138,336	182,786	1	2
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HVAC System

replace select RTUs, chillers, classroom units, refurbish mezz. AHU units	1	lpsm	654,410.00	654,410	757,561	1,000,981	2	2
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Integrated Automation

upgrade temperature control system	140,891	sqft	6.00	845,346	978,594	1,293,035	1	2
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Mechanical Systems Subtotal: 1,874,491 2,476,803

Electrical Systems

Power

upgrade electrical systems - Priority 1	24,950	sqft	7.00	174,650	202,179	267,143	1	1
emergency generator for JAPAC	1	lpsm	75,000.00	75,000	86,822	114,719	1	1
electrical to support technology	42	ea	1,500.00	63,000	72,930	96,364	1	1

Lighting

upgrade building exterior lighting	62	ea	850.00	52,700	61,007	80,610	2	2
upgrade theater lighting	1	lpsm	350,000.00	350,000	405,169	535,358	2	2

Electronic Safety & Security

upgrade fire alarm panel	1	lpsm	15,000.00	15,000	17,364	22,944	1	2
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Electrical Systems Subtotal: 845,471 1,117,138

Construction Subtotal: 4,572,802 6,042,134

Technology Infrastructure

data cabling for renovations	1	ea	10,000.00	10,000	11,576	14,198	2	2
demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	1	1
replace cabling infrastructure	140,891	sf	0.65	91,579	106,014	130,027	1	1
replace fiber to IDFs	7	ea	3,500.00	24,500	28,362	34,786	1	1
replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1	1
replace network switches - edge	39	ea	4,000.00	156,000	180,590	221,493	1	1
network switches - multigig	1	ea	10,000.00	10,000	11,576	14,198	1	1
replace rack UPS	8	ea	1,200.00	9,600	11,113	13,630	1	1
update wireless infrastructure	64	ea	1,200.00	76,800	88,906	109,043	1	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1	1

Technology Infrastructure Subtotal: 489,072 599,847

Technology Safety & Security

upgrade security camera system	95	ea	1,500.00	142,500	164,962	202,325	1	1
install emergency alert system	140,891	sf	0.75	105,668	122,324	150,031	1	2
replace PA systems	140,891	sf	1.25	176,114	203,874	250,051	1	2

Technology Safety & Security Subtotal: 491,159 602,407

Technology & Safety Infrastructure Subtotal: 980,232 1,202,254

REMODELING SUBTOTAL: 5,553,034 7,244,389

SITE WORK

Site Paving

repave north lots and install UG stormwater structure, replace sidewalks	142,000	sqft	12.00	1,704,000	1,972,593	2,606,427	1	1
repave west and south lots	137,200	sqft	7.00	960,400	1,111,783	1,469,021	1	1

Site Paving Subtotal: 3,084,376 4,075,448

Site Improvements

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 9-12

Pankow / Performing Arts Center

Year Built: 1974

24600 F.V.Pankow Blvd, Clinton Twp, MI

Building Size: 140,891

Building Project Work List

Site Size: 42.57

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
		replace playground paved surfaces	400	sqft	10.00	4,000	4,631	6,118	1	2
Site Improvement Subtotal:							4,631	6,118		
SITE WORK SUBTOTAL:							3,089,007	4,081,566		

INSTRUCTIONAL TECHNOLOGY

Computers and Mobile Devices

teacher computers (desktop + 1:1 device)	49	each	1,250.00	61,250	70,905	86,964	2	2
admin staff computers	20	each	1,000.00	20,000	23,153	28,397	2	2
student desktops	69	each	800.00	55,200	63,901	78,374	1	1
mobile devices: 6-12	95	each	350.00	33,110	38,329	47,010	1	1
mobile device storing/charging (classroom)	39	each	400.00	15,600	18,059	22,149	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1

Audiovisual

classroom AV (display, sound, PA, doc camera)	39	each	9,000.00	351,000	406,326	498,359	1	1
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2	2
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
auditorium audiovisual	1	lpsm	150,000.00	150,000	173,644	212,974	2	2

INSTRUCTIONAL TECHNOLOGY SUBTOTAL: 844,094 1,035,281

FURNITURE, FURNISHINGS AND EQUIPMENT

Non-Instructional Equipment

purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
purchase radio / walkie-talkies	51	each	400.00	20,400	23,616	28,964	1	2

Non-Instructional Equipment Subtotal: 39,243 48,132

Furniture, Furnishings & Equipment (FFE)

purchase furniture	1	lpsm	125,000.00	125,000	144,703	177,478	2	2
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F,F,&E Subtotal: 144,703 177,478

F, F, & E SUBTOTAL: 183,947 225,611

PROJECT TOTAL: 9,670,081 12,586,846

Construction Contingency: 967,008

Permits / General Conditions: 337,120

Design Consultants: 823,066

C.M. Costs: 789,573

BUILDING TOTAL: 12,586,846

Notes:

Scope of work is conceptual and will be detailed throughout the design phase

Indirect Costs include; contingency, general conditions & professional fees

Project Sheet

Pellerin Center (Riverside Academy for alternative education)	Project No. [n]	18
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Proposal #:	Series 1	Series 2	n/a	n/a	<i>For multiple proposals, include a separate project page for each.</i>
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

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

Does this proposed project address any existing environmental or usability problems? (check all that apply)

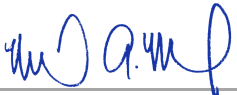
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

Estimated Cost of Proposed Construction Project

Column 1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	134,169	617,940	0	0	752,109
Construction Contingencies	56,017	137,642	0	0	193,659
Instructional Technology	396,487	104,186	0	0	500,673
Loose Furnishing/Equipment	29,519	28,941	0	0	58,460
Buses	0	0	0	0	0
Site Work	0	625,349	0	0	625,349
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	46,335	116,810	0	0	163,145
CM Fees and Costs	27,985	150,860	0	0	178,845
Estimated Costs	690,512	1,781,728	0	0	2,472,240

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.


6/17/2024
PARTNERS in Architecture, PLC #44723

Signature
Date
Firm Name and License Number

Michael A. Malone, AIA
mmalone@partnersinarch.com
586-469-3600

Printed Name
E-mail Address
Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 9-12

Pellerin Center

Year Built: 2009

24001 F.V.Pankow Blvd, Clinton Twp, MI

Building Size: 37,897

Building Project Work List

Site Size: 3.15

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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REMODELING WORK

Exterior Work

Envelope

upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	1	2
Exterior Work Subtotal:						25,468	33,651	

Interior Work

replace architectural trim out/specialties	1	lpsm	15,000.00	15,000	17,364	22,944	1	2
Interior Work Subtotal:						17,364	22,944	

Mechanical Systems

Plumbing Work

replace water heater & water bottle filling stations	1	lpsm	20,000.00	20,000	23,153	30,592	1	2
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HVAC System

replace mdf/idf air conditioning	2	ea	15,000.00	30,000	34,729	45,888	1	2
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Integrated Automation

upgrade temperature control system	34,970	sqft	6.00	209,800	242,870	320,909	1	2
Mechanical Systems Subtotal:						300,751	397,388	

Electrical Systems

Power

electrical to support technology	21	ea	1,500.00	31,500	36,465	48,182	1	1
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Lighting

upgrade building exterior lighting	18	ea	850.00	15,300	17,712	23,403	1	2
Electrical Systems Subtotal:						54,177	71,585	
Construction Subtotal:						397,760	525,568	

Technology Infrastructure

data cabling for renovations	1	ea	10,000.00	10,000	11,576	14,198	2	2
demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
replace fiber to IDFs	1	ea	3,500.00	3,500	4,052	4,969	1	2
replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1	1
replace network switches - edge	12	ea	4,000.00	48,000	55,566	68,152	1	1
replace rack UPS	2	ea	1,200.00	2,400	2,778	3,408	1	1
update wireless infrastructure	27	ea	1,200.00	32,400	37,507	46,002	1	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1	1
Technology Infrastructure Subtotal:						162,415	199,202	

Technology Safety & Security

upgrade security camera system	60	ea	1,500.00	90,000	104,186	127,784	1	2
install emergency alert system	37,897	sf	0.75	28,400	32,877	40,323	1	2
replace PA systems	37,897	sf	1.25	47,400	54,871	67,300	1	2
Technology Safety & Security Subtotal:						191,934	235,407	
Technology & Safety Infrastructure Subtotal:						354,349	434,609	
REMODELING SUBTOTAL:						752,109	960,177	

SITE WORK

Site Paving

replace parking lot, replace sidewalks	73,000	sqft	7.40	540,200	625,349	826,286	1	2
Site Paving Subtotal:						625,349	826,286	
SITE WORK SUBTOTAL:						625,349	826,286	

INSTRUCTIONAL TECHNOLOGY

Computers and Mobile Devices

teacher computers (desktop + 1:1 device)	28	each	1,250.00	35,000	40,517	49,694	2	2
admin staff computers	20	each	1,000.00	20,000	23,153	28,397	2	2
student desktops	69	each	800.00	55,200	63,901	78,374	1	1
mobile devices: 6-12	315	each	350.00	110,100	127,455	156,323	1	1
mobile device storing/charging (classroom)	18	each	400.00	7,200	8,335	10,223	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1

Audiovisual

classroom AV (display, sound, PA, doc camera)	18	each	9,000.00	162,000	187,535	230,012	1	1
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2	2
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:						500,673	614,075	

FURNITURE, FURNISHINGS AND EQUIPMENT

Non-Instructional Equipment

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 9-12

Pellerin Center

Year Built: 2009

24001 F.V.Pankow Blvd, Clinton Twp, MI

Building Size: 37,897

Building Project Work List

Site Size: 3.15

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
		purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	1
		purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	1
		purchase radio / walkie-talkies	30	each	400.00	12,000	13,892	17,038	1	1
Non-Instructional Equipment Subtotal:							29,519	36,206		
Furniture, Furnishings & Equipment (FFE)										
		purchase furniture	1	lpsm	25,000.00	25,000	28,941	35,496	2	2
F,F,&E Subtotal:							28,941	35,496		
F, F, & E SUBTOTAL:							58,460	71,701		

PROJECT TOTAL:							1,936,591	2,472,240			
Construction Contingency:							193,659				
Permits / General Conditions:							45,017				
Design Consultants:							163,145				
C.M. Costs:							133,828				
BUILDING TOTAL:							2,472,240				

Notes:

Scope of work is conceptual and will be detailed throughout the design phase
 Indirect Costs include; contingency, general conditions & professional fees

Project Sheet

Wheeler Community Center & Administrative Offices Project No. [n] 19

Proposal #:	Series 1	Series 2	n/a	n/a	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

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

Does this proposed project address any existing environmental or usability problems? (check all that apply)

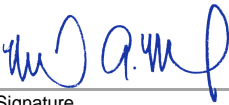
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements		
<input type="checkbox"/> Other - please list:	1.	2.	3.		

Estimated Cost of Proposed Construction Project

Column 1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	123,171	706,626	0	0	829,797
Construction Contingencies	20,571	119,109	0	0	139,680
Instructional Technology	70,152	377,965	0	0	448,117
Loose Furnishing/Equipment	12,387	0	0	0	12,387
Buses	0	0	0	0	0
Site Work	0	106,502	0	0	106,502
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	16,971	99,894	0	0	116,865
CM Fees and Costs	9,051	97,575	0	0	106,627
Estimated Costs	252,303	1,507,670	0	0	1,759,974

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.

	6/17/2024	PARTNERS in Architecture, PLC #44723
Signature	Date	Firm Name and License Number

Michael A. Malone, AIA	mmalone@partnersinarch.com	586-469-3600
Printed Name	E-mail Address	Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: n/a

n/a

Wheeler Community Center

Year Built: 2004

24076 F.V.Pankow Blvd, Clinton Twp, MI

Building Size: 48900

n/a

Building Project Work List

Site Size:

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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REMODELING WORK

Exterior Work

Envelope

upgrade select exterior glazing	1	lpsm	23,750.00	23,750	27,494	36,328	1	2
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Exterior Work Subtotal: 27,494 36,328

Interior Work

replace interior openings	1	lpsm	1,000.00	1,000	1,158	1,530	2	2
replace architectural trim out/specialties	1	lpsm	137,000.00	137,000	158,595	209,554	1	2

Interior Work Subtotal: 159,752 211,084

Mechanical Systems

Plumbing Work

replace water heater, valves, and new water bottle filling station	1	lpsm	73,500	73,500	85,085	112,425	1	2
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Integrated Automation

upgrade temperature controls	48,900	ea	1.75	85,575	99,064	130,895	2	2
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Mechanical Systems Subtotal: 184,149 243,320

Electrical Systems

Power

electrical to support technology	9	ea	1,500.00	13,500	15,628	20,650	1	2
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Electrical Systems Subtotal: 15,628 20,650

Construction Subtotal: 387,023 511,381

Technology Infrastructure

data cabling for renovations	1	ea	10,000.00	10,000	11,576	14,198	1	2
demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
replace cabling infrastructure	48,900	sf	0.65	31,785	36,795	45,129	1	2
replace fiber to IDFs	1	ea	3,500.00	3,500	4,052	4,969	1	2
replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1	1
replace network switches - edge	15	ea	4,000.00	60,000	69,458	85,190	1	1
network switches - multigig	1	ea	10,000.00	10,000	11,576	14,198	1	1
replace rack UPS	2	ea	1,200.00	2,400	2,778	3,408	1	1
update wireless infrastructure	40	ea	1,200.00	48,000	55,566	68,152	1	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1	1

Technology Infrastructure Subtotal: 242,737 297,716

Technology Safety & Security

upgrade security camera system	50	ea	1,500.00	75,000	86,822	106,487	1	2
install emergency alert system	48,900	sf	0.75	36,675	42,456	52,072	1	2
replace PA systems	48,900	sf	1.25	61,125	70,760	86,787	1	2

Technology Safety & Security Subtotal: 200,038 245,346

Technology & Safety Infrastructure Subtotal: 442,774 543,063

REMODELING SUBTOTAL: 829,797 1,054,444

SITE WORK

Site Improvements

upgrade site sign - digital	1	lpsm	92,000.00	92,000	106,502	140,723	2	2
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Site Improvement Subtotal: 106,502 140,723

SITE WORK SUBTOTAL: 106,502 140,723

INSTRUCTIONAL TECHNOLOGY

Computers and Mobile Devices

teacher computers (desktop + 1:1 device)	16	each	1,250.00	20,000	23,153	28,397	2	2
admin staff computers	45	each	1,000.00	45,000	52,093	63,892	2	2
student desktops	69	each	800.00	55,200	63,901	78,374	1	1
mobile device storing/charging (classroom)	6	each	400.00	2,400	2,778	3,408	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1

Audiovisual

classroom AV (display, sound, PA, doc camera)	6	each	9,000.00	54,000	62,512	76,671	1	2
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2	2
conference room / IEP	7	each	5,000.00	35,000	40,517	49,694	1	2
board room audiovisual	1	lpsm	137,500	137,500	159,173	195,226	2	2

INSTRUCTIONAL TECHNOLOGY SUBTOTAL: 448,117 549,615

FURNITURE, FURNISHINGS AND EQUIPMENT

Non-Instructional Equipment

purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	1
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L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: n/a

n/a

Wheeler Community Center

Year Built: 2004

24076 F.V.Pankow Blvd, Clinton Twp, MI

Building Size: 48900

n/a

Building Project Work List

Site Size:

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
		purchase radio / walkie-talkies	18	each	400.00	7,200	8,335	10,223	1	1
Non-Instructional Equipment Subtotal:							12,387	15,192		
F, F, & E SUBTOTAL:							12,387	15,192		

PROJECT TOTAL:							1,396,802	1,759,974		
Construction Contingency:							139,680			
Permits / General Conditions:							21,715			
Design Consultants:							116,865			
C.M. Costs:							84,912			
BUILDING TOTAL:							1,759,974			

Notes:
 Scope of work is conceptual and will be detailed throughout the design phase
 Indirect Costs include; contingency, general conditions & professional fees

Project Sheet

Brender Support Services Center	Project No. [n]	20
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Proposal #:	Series 1	Series 2	n/a	n/a	<i>For multiple proposals, include a separate project page for each.</i>
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input checked="" type="checkbox"/> Buses	<input checked="" type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

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

Does this proposed project address any existing environmental or usability problems? (check all that apply)

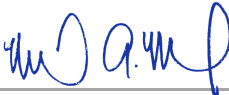
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

Estimated Cost of Proposed Construction Project

Column 1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	1,134,976	1,625,368	0	0	2,760,344
Construction Contingencies	113,590	165,431	0	0	279,021
Instructional Technology	0	0	0	0	0
Loose Furnishing/Equipment	926	28,941	0	0	29,867
Buses	2,628,157	351,576	0	0	2,979,733
Site Work	0	0	0	0	0
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	93,844	140,161	0	0	234,005
CM Fees and Costs	53,635	174,866	0	0	228,501
Estimated Costs	4,025,128	2,486,343	0	0	6,511,471

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.


6/17/2024
PARTNERS in Architecture, PLC #44723

Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.com 586-469-3600
 Printed Name E-mail Address Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: n/a

n/a

Brender Support Services Center

Year Built: 1975

24400 F.V.Pankow Blvd, Clinton Twp, MI

Building Size: 31,438

n/a

Building Project Work List

Site Size: inc w/ Pankow

1.158

Date: 6/6/24

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
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REMODELING WORK

Exterior Work

Roofing

roof work - priority 1	27,730	sqft	25.00	693,250	802,524	1,060,390	1	2
roof work - priority 2	1	lpsm	12,600.00	12,600	14,586	19,273	2	2

Exterior Work Subtotal: 817,110 1,079,663

Interior Work

replace architectural trim out/specialties	1	lpsm	12,000.00	12,000	13,892	18,355	2	2
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Interior Work Subtotal: 13,892 18,355

Mechanical Systems

Plumbing Work

replace hot water heater and select piping	1	lpsm	57,000.00	57,000	65,985	87,187	1	2
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Integrated Automation

upgrade temperature control system	31,438	sqft	6.00	188,628	218,360	288,524	2	2
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Mechanical Systems Subtotal: 284,345 375,711

Electrical Systems

Power

electrical to support technology	3	ea	1,500.00	4,500	5,209	6,883	1	1
replace data center room UPS	2	ea	15,000.00	30,000	34,729	45,888	1	1

Electrical Systems Subtotal: 39,938 52,771

Construction Subtotal: 1,155,284 1,526,500

Technology Infrastructure

replace cabling infrastructure	31,438	sf	0.65	20,435	23,656	29,014	1	1
replace fiber to IDFs	3	ea	3,500.00	10,500	12,155	14,908	1	1
replace network switches - core/aggregate	2	ea	20,000.00	40,000	46,305	56,793	1	1
replace network switches - edge	10	ea	4,000.00	40,000	46,305	56,793	1	1
update wireless infrastructure	21	ea	1,200.00	25,200	29,172	35,780	2	2
data center - series 1	1	lpsm	550,000.00	550,000	636,694	780,905	1	1
data center - series 2	1	lpsm	300,000.00	300,000	347,288	425,948	2	2
upgrade phone system	1	lpsm	125,000.00	125,000	144,703	177,478	1	1

Technology Infrastructure Subtotal: 1,286,277 1,577,619

Technology Safety & Security

upgrade security camera system	35	ea	1,500.00	52,500	60,775	74,541	1	2
video surveillance servers	4	ea	40,000.00	160,000	185,220	227,172	1	1
install emergency alert system	31,438	sf	0.75	23,579	27,295	33,477	1	2
replace PA systems	31,438	sf	1.25	39,298	45,492	55,796	1	2

Technology Safety & Security Subtotal: 318,782 390,986

0.00 Technology & Safety Infrastructure Subtotal: 1,605,059 1,968,605

346750 REMODELING SUBTOTAL: 2,760,344 3,495,106

FURNITURE, FURNISHINGS AND EQUIPMENT

Non-Instructional Equipment

purchase admin staff computers	25	each	1,000.00	25,000	28,941	35,496	2	2
purchase radio / walkie-talkies	2	each	400.00	800	926	1,136	1	1

Non-Instructional Equipment Subtotal: 29,867 36,632

F, F, & E SUBTOTAL: 29,867 36,632

BUSES

purchase buses	24	each	109,506.56	2,628,157	2,628,157	2,628,157	1	1
purchase buses	3	each	117,192.00	351,576	351,576	351,576	1	2

27 BUSES SUBTOTAL: 2,979,733 2,979,733

PROJECT TOTAL: 5,769,944 6,511,471

Construction Contingency: 279,021

Permits / General Conditions: 50,833

Design Consultants: 234,005

C.M. Costs: 177,668

BUILDING TOTAL: 6,511,471

Notes:

Scope of work is conceptual and will be detailed throughout the design phase
Indirect Costs include; contingency, general conditions & professional fees

Utilization Summary

L'Anse Creuse Public Schools

50-140

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	Atwood Elementary	K-5	K-5	570	550	0	550	104%	0
2	Carkenord Elementary	K-5	K-5	570	550	0	550	104%	0
3	Graham Elementary & ECC	preK-5	preK-5	350	315	0	315	111%	0
4	Green Elementary	K-5	K-5	450	425	0	425	106%	0
5	Higgins Elementary	K-5	K-5	434	390	0	390	111%	0
6	Lobbestael Elementary	K-5	K-5	350	320	0	320	109%	0
7	South River Elementary	K-5	K-5	450	410	0	410	110%	0
8	Tenniswood Elementary	K-5	K-5	330	300	0	300	110%	0
9	Yacks Elementary	K-5	K-5	330	300	0	300	110%	0
10	Middle School Central	6-8	6-8	550	788	0	788	70%	0
11	Middle School East	6-8	6-8	510	720	0	720	71%	0
12	Middle School North	6-8	6-8	540	765	0	765	71%	0
13	Middle School South	6-8	6-8	480	608	0	608	79%	0
14	L'Anse Creuse High	9-12	9-12	1,305	1,530	0	1,530	85%	0
15	High School North	9-12	9-12	1,400	1,743	0	1,743	80%	0
16	Burdi Early Childhood Center	preK	preK	n/a	n/a	n/a	n/a	n/a	n/a
17	Pankow Center (career tech)	9-12	9-12	n/a	n/a	n/a	n/a	n/a	n/a
18	Pellerin Center (alt ed)	9-12	9-12	n/a	n/a	n/a	n/a	n/a	n/a
19	Wheeler Community Center	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
20	Brender Service Center	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total				8,619	9,713	0	9,713	89%	0

Facility Summary

L'Anse Creuse Public Schools
50-140

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 Total Sq.Ft.	7 New Site (Acres)	8 Bldg In Use? Y/N	9 Sq Ft of Closed Facility	10 Disposition of Closed Facility**
1	Instructional	Atwood Elementary	45690 North Avenue	Macomb	2004	69,296	0	Yes	0	n/a
2	Instructional	Carkenord Elementary	27100 24-Mile Road	Chesterfield	2001	69,375	0	Yes	0	n/a
3	Instructional	Graham Elementary	25555 Crocker Road	Harrison Twp	1964	60,614	0	Yes	0	n/a
4	Instructional	Green Elementary	47260 Sugerbush Road	Chesterfield	2009	71,473	0	Yes	0	n/a
5	Instructional	Higgins Elementary	29901 24-Mile Road	Chesterfield	1995	66,129	0	Yes	0	n/a
6	Instructional	Lobbestael Elementary	38495 Prentiss Street	Harrison Twp	1972	52,630	0	Yes	0	n/a
7	Instructional	South River Elementary	27733 South River Road	Harrison Twp	2007	71,561	0	Yes	0	n/a
8	Instructional	Tenniswood Elementary	23450 Glenwood Avenue	Clinton Twp	1973	52,620	0	Yes	0	n/a
9	Instructional	Yacks Elementary	34700 Union Lake Road	Harrison Twp	1976	56,567	0	Yes	0	n/a
10	Instructional	Middle School Central	38000 Reimold	Harrison Twp	1957	101,828	0	Yes	0	n/a
11	Instructional	Middle School East	30300 Hickey Road	Chesterfield	2000	132,974	0	Yes	0	n/a
12	Instructional	Middle School North	46201 Fairchild	Macomb	1965	78,388	0	Yes	0	n/a
13	Instructional	Middle School South	34641 Jefferson Avenue	Harrison Twp	1973	91,747	0	Yes	0	n/a
14	Instructional	L'Anse Creuse High	38495 L'Anse Creuse Road	Harrison Twp	1955	213,591	0	Yes	0	n/a
15	Instructional	High School North	23700 21-Mile Road	Macomb	1972	238,187	0	Yes	0	n/a
16	Instructional	Burdi Early Childhood Center	29851 24-Mile Road	Chesterfield	1995	17,102	0	Yes	0	n/a
17	Instructional	Pankow Center (career tech)	24600 F.V. Pankow Blvd	Clinton Twp	1974	140,891	0	Yes	0	n/a
18	Instructional	Pellerin Center (alt ed)	24001 F.V. Pankow Blvd	Clinton Twp	2009	37,897	0	Yes	0	n/a
19	Non-Instructional	Wheeler Community Center	24076 F.V. Pankow Blvd	Clinton Twp	2004	48,900	0	Yes	0	n/a
20	Bus Garage	Brender Service Center	24400 F.V. Pankow Blvd	Clinton Twp	1975	31,438	0	Yes	0	n/a
Total	-----	-----	-----	-----	-----	1,703,208	0			-----

***Facility Type:**

Instructional
Non-Instructional
Bus Garage
Storage
Stadium

****Closed Facility Reference:**

1. Demolish
2. Convert to non-instructional
3. Sell or lease
4. Retain for future use
5. Undetermined

Cost Summary - SERIES 1

L'Anse Creuse Public Schools

50-140

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Proj. #	Cost per Sq Foot	New Cons Sq Feet	New Construction	Remodeling	Contingency	Instructional Technology	Loose Furn and Equip	Buses	Site Work	Site Acquisition	A/E Fees and Costs	CM Fees and Costs	Project Costs
1		0	0	312,443	295,090	706,383	0	0	1,932,076	0	250,123	314,927	3,811,042
2		0	0	4,866,961	665,035	697,539	0	0	1,085,852	0	566,486	787,152	8,669,024
3		0	0	3,658,152	458,242	498,844	0	0	425,427	0	390,783	554,771	5,986,219
4		0	0	230,252	133,937	591,083	0	0	518,037	0	112,391	111,429	1,697,129
5		0	0	3,459,312	591,764	529,729	0	0	1,928,603	0	505,309	734,706	7,749,424
6		0	0	548,262	181,133	458,744	0	0	804,324	0	153,206	184,299	2,329,968
7		0	0	211,151	235,596	592,565	0	0	1,552,240	0	199,655	250,332	3,041,538
8		0	0	605,904	189,508	474,858	0	0	814,323	0	160,339	194,176	2,439,108
9		0	0	552,498	158,334	509,911	0	0	520,931	0	133,433	147,527	2,022,633
10		0	0	4,644,592	545,508	810,488	0	0	0	0	464,091	629,585	7,094,264
11		0	0	5,454,760	775,767	836,783	0	0	1,466,129	0	661,459	936,233	10,131,131
12		0	0	605,498	144,002	834,520	0	0	0	0	119,674	87,569	1,791,264
13		0	0	498,051	128,131	783,261	0	0	0	0	106,163	68,985	1,584,591
14		0	0	6,602,675	1,545,641	1,525,055	0	0	7,328,675	0	1,318,255	1,875,425	20,195,726
15		0	0	6,154,972	1,516,195	1,678,302	0	0	7,328,675	0	1,292,526	1,822,630	19,793,300
16		0	0	440,842	60,222	161,373	0	0	0	0	50,691	54,467	767,595
17		0	0	944,424	456,468	535,876	0	0	3,084,376	0	388,054	518,900	5,928,099
18		0	0	134,169	56,017	396,487	29,519	0	0	0	46,335	27,985	690,512
19		0	0	123,171	20,571	70,152	12,387	0	0	0	16,971	9,051	252,303
20		0	0	1,134,976	113,590	0	926	2,628,157	0	0	93,844	53,635	4,025,128
Total	#DIV/0!	0	0	41,183,067	8,270,752	12,691,952	42,832	2,628,157	28,789,668	0	7,029,788	9,363,785	110,000,000

17. Funding:

PLUS: Election/Bond Issue Costs: \$1,577,378
 LESS: Estimated Interest Earnings: \$1,577,378
 Other (specify): \$0

AMOUNT OF PROPOSED ISSUE **\$110,000,000**
 (Amount to be Qualified)

Cost Summary - SERIES 2

L'Anse Creuse Public Schools

50-140

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Proj. #	Cost per Sq Foot	New Cons Sq Feet	New Construction	Remodeling	Contingency	Instructional Technology	Loose Furn and Equip	Buses	Site Work	Site Acquisition	A/E Fees and Costs	CM Fees and Costs	Project Costs
1		0	0	1,821,291	229,754	62,280	147,829	0	266,138	0	195,736	272,745	2,995,774
2		0	0	455,815	93,834	60,775	147,397	0	274,357	0	79,632	102,815	1,214,626
3		0	0	263,971	126,997	56,434	137,326	0	812,238	0	107,705	137,207	1,641,879
4		0	0	1,852,992	294,299	60,775	138,715	0	890,508	0	251,261	364,246	3,852,796
5		0	0	368,192	124,270	54,987	145,545	0	673,975	0	105,278	131,087	1,603,335
6		0	0	931,211	130,389	53,540	110,353	0	208,787	0	110,793	146,738	1,691,812
7		0	0	1,234,040	152,388	56,434	137,326	0	96,083	0	129,360	167,984	1,973,615
8		0	0	967,196	119,632	52,093	109,890	0	67,142	0	101,566	132,210	1,549,729
9		0	0	1,280,433	226,277	59,328	112,206	0	810,801	0	193,000	274,897	2,956,942
10		0	0	628,655	264,210	140,362	147,513	0	1,725,573	0	225,031	311,992	3,443,337
11		0	0	887,375	221,040	180,879	147,513	0	994,631	0	187,264	233,313	2,852,015
12		0	0	3,717,714	452,872	140,362	147,513	0	523,131	0	386,740	563,148	5,931,480
13		0	0	5,374,225	731,086	140,362	147,513	0	1,648,758	0	625,350	937,480	9,604,774
14		0	0	4,960,062	801,318	201,137	531,525	0	2,320,459	0	683,877	984,616	10,482,995
15		0	0	7,014,285	1,049,288	332,817	532,914	0	2,612,863	0	895,897	1,300,181	13,738,244
16		0	0	409,525	56,609	30,388	65,985	0	60,197	0	48,020	61,434	732,157
17		0	0	4,608,609	510,540	308,218	183,947	0	4,631	0	435,011	607,792	6,658,748
18		0	0	617,940	137,642	104,186	28,941	0	625,349	0	116,810	150,860	1,781,728
19		0	0	706,626	119,109	377,965	0	0	106,502	0	99,894	97,575	1,507,670
20		0	0	1,625,368	165,431	0	28,941	351,576	0	0	140,161	174,866	2,486,343
Total	#DIV/0!	0	0	39,725,525	6,006,986	2,473,324	3,148,893	351,576	14,722,121	0	5,118,388	7,153,186	78,700,000

17. Funding:

PLUS: Election/Bond Issue Costs: \$1,128,857

LESS: Estimated Interest Earnings: \$1,128,857

Other (specify): \$0

AMOUNT OF PROPOSED ISSUE **\$78,700,000**
(Amount to be Qualified)

Cost Summary - COMBINED SERIES 1 & 2

L'Anse Creuse Public Schools

50-140

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Proj. #	Cost per Sq Foot	New Cons Sq Feet	New Construction	Remodeling	Contingency	Instructional Technology	Loose Furn and Equip	Buses	Site Work	Site Acquisition	A/E Fees and Costs	CM Fees and Costs	Project Costs
1		0	0	2,133,734	524,844	768,663	147,829	0	2,198,214	0	445,860	587,672	6,806,816
2		0	0	5,322,776	758,870	758,314	147,397	0	1,360,209	0	646,118	889,967	9,883,651
3		0	0	3,922,123	585,239	555,278	137,326	0	1,237,666	0	498,488	691,978	7,628,098
4		0	0	2,083,243	428,236	651,859	138,715	0	1,408,545	0	363,652	475,674	5,549,925
5		0	0	3,827,504	716,034	584,716	145,545	0	2,602,578	0	610,587	865,794	9,352,759
6		0	0	1,479,473	311,522	512,284	110,353	0	1,013,111	0	264,000	331,037	4,021,780
7		0	0	1,445,191	387,984	648,999	137,326	0	1,648,323	0	329,015	418,316	5,015,153
8		0	0	1,573,100	309,141	526,951	109,890	0	881,465	0	261,905	326,386	3,988,838
9		0	0	1,832,931	384,611	569,239	112,206	0	1,331,732	0	326,433	422,424	4,979,575
10		0	0	5,273,247	809,718	950,850	147,513	0	1,725,573	0	689,122	941,577	10,537,601
11		0	0	6,342,135	996,807	1,017,662	147,513	0	2,460,760	0	848,722	1,169,546	12,983,146
12		0	0	4,323,212	596,874	974,882	147,513	0	523,131	0	506,415	650,717	7,722,744
13		0	0	5,872,277	859,217	923,623	147,513	0	1,648,758	0	731,513	1,006,465	11,189,366
14		0	0	11,562,737	2,346,959	1,726,193	531,525	0	9,649,134	0	2,002,132	2,860,041	30,678,721
15		0	0	13,169,257	2,565,483	2,011,119	532,914	0	9,941,538	0	2,188,422	3,122,811	33,531,544
16		0	0	850,368	116,831	191,761	65,985	0	60,197	0	98,711	115,901	1,499,753
17		0	0	5,553,034	967,008	844,094	183,947	0	3,089,007	0	823,066	1,126,692	12,586,846
18		0	0	752,109	193,659	500,673	58,460	0	625,349	0	163,145	178,845	2,472,240
19		0	0	829,797	139,680	448,117	12,387	0	106,502	0	116,865	106,627	1,759,974
20		0	0	2,760,344	279,021	0	29,867	2,979,733	0	0	234,005	228,501	6,511,471
Total	#DIV/0!	0	0	80,908,592	14,277,738	15,165,275	3,191,726	2,979,733	43,511,789	0	12,148,176	16,516,971	188,700,000

17. Funding:

PLUS: Election/Bond Issue Costs: \$2,706,235

LESS: Estimated Interest Earnings: \$2,706,235

Other (specify): \$0

AMOUNT OF PROPOSED ISSUE **\$188,700,000**
(Amount to be Qualified)

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
MS North	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
		Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7
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	0	0	0	0.00%	0.00
Building Improvements	30	1	31	19,355,705	6,000,269	25,355,974	35.12%	10.89
Roofing	20	1	21	14,405,477	4,465,698	18,871,175	26.14%	5.49
Flooring	10	0	10		0	0	0.00%	0.00
Furnishing/ Equipment	10	1	11	0	0	0	0.00%	0.00
Technology Infrastructure	10	1	11	7,421,884	2,003,909	9,425,793	13.06%	1.44
Technology (instr/non-instr)	5	1	6	12,734,784	3,183,696	15,918,480	22.05%	1.32
Buses	6	1	7	2,628,157	0	2,628,157	3.64%	0.25
Total for purposes of determining weighted avg useful life				56,546,008	15,653,571	72,199,579	100.00%	19.39

120% of average useful life of assets → 23.27

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
		Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7
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	0	0	0	0.00%	0.00
Building Improvements	30	2	32	25,181,120	7,932,053	33,113,173	55.79%	17.85
Roofing	20	2	22	8,766,508	2,761,450	11,527,958	19.42%	4.27
Flooring	10	0	10	0	0	0	0.00%	0.00
Furnishing/ Equipment	10	1	11	2,501,434	650,373	3,151,806	5.31%	0.58
Technology Infrastructure	10	1	11	5,777,897	1,560,032	7,337,930	12.36%	1.36
Technology (instr/non-instr)	5	1	6	3,120,783	748,988	3,869,771	6.52%	0.39
Buses	6	1	7	351,576	0	351,576	0.59%	0.04
Total for purposes of determining weighted avg useful life				45,699,318	13,652,896	59,352,214	100.00%	24.50

120% of average useful life of assets → 29.40

3881, Worksheet 1: Useful Life Calculation - SERIES 1 & 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
		Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7
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	0	0	0	0.00%	0.00
Building Improvements	30	2	32	44,536,825	13,932,321	58,469,147	44.45%	14.22
Roofing	20	2	22	23,171,985	7,227,148	30,399,133	23.11%	5.08
Flooring	10	0	10	0	0	0	0.00%	0.00
Furnishing/ Equipment	10	1	11	2,501,434	650,373	3,151,806	2.40%	0.26
Technology Infrastructure	10	1	11	13,199,782	3,563,941	16,763,723	12.74%	1.40
Technology (instr/non-instr)	5	1	6	15,855,567	3,932,684	19,788,251	15.04%	0.90
Buses	6	2	8	2,979,733	0	2,979,733	2.27%	0.18
Total for purposes of determining weighted avg useful life				102,245,326	29,306,467	131,551,793	100.00%	22.06

120% of average useful life of assets

→

26.47