

December 15, 2014

Ms. Carol Densmore Michigan Department of Treasury School Bond Qualification and Loan Program 430 W. Allegan Street Lansing, MI 48922

RE:

Berkley School District

Application for Preliminary Qualification of Bonds

Opinion regarding cost estimates No. SBL 63-050-4-K12-10-02

Dear Ms. Densmore:

Please be advised that Stantec jointly developed and concurs with the estimates prepared by McCarthy & Smith, Inc. in the Application for Preliminary Qualification of Bonds based on our historical costs for recently completed projects of similar size and scope. We are confident that the estimates are appropriate for the proposed scope of work.

Sincerely

Lee A. Andrea, AIA, NCARB, LEED AP

Principal

c: Dennis McDavid, Berkley School District

Larry Gallagher, Berkley School District

Bill McCarthy, McCarthy & Smith, Inc.

Jeffrey J. Soles, Thrun Law

Paul Stauder, Stauder, Barch & Associates



December 8, 2014

Jeffery J. Soles Thrun Law Firm, P.C. 2900 West Road; Suite 400 East Lansing, MI 48823

RE:

Berkley School District

Application for Preliminary Qualification of Bonds

Opinion regarding cost estimates No. SBL 63-050-4-K12-10-02

Dear Mr. Soles:

Enclosed are two draft copies of the Preliminary Qualification Documents for the referenced project. Please deliver to Treasury by Tuesday, December 9 for our scheduled meeting on Monday, December 15.

Let me know if you need anything else.

Sincerely

Lee A. Andrea, AIA, NCARB, LEED AP

Principal

Enclosure

c: Dennis McDavid, Berkley School District

Larry Gallagher, Berkley School District Bill McCarthy, McCarthy & Smith, Inc. Paul Stauder, Stauder, Barch & Associates



December 3, 2014

Ms. Carol Densmore School Bond Qualification Bond and Loan Program State of Michigan Michigan Department of Treasury School Bond Loan Program 430 W. Allegan, 4th Floor Lansing, MI 48922

Re:

Berkley School District - Application for Preliminary Qualification of Bonds

- May 2015 Bond Election

Subj: Confirmation of Cost

Dear Ms. Densmore:

McCarthy & Smith, Inc., as the Construction Manager for Berkley School District, has worked with the project architect, Stantec, to establish cost estimates for the proposed Berkley School District May 2015 Bond issue election. We believe these estimates to be appropriate for the proposed work. Cost estimates for new construction slightly exceeds the current \$209.00 per square foot for Oakland County due to the limited size of the additions proposed.

A schedule addressing the Owner's goals has been prepared, and provides for a reasonable approach to the construction activities required for the project.

Please contact me if you have any questions.

Sincerely,

William T. McCarthy

William J. Melathy

President

WTM:mbd

Attachments

Mr. Dennis McDavid, Berkley School District C:

Mr. Larry Gallagher, Berkley School District

Mr. Lee Andrea, Stantec

File

BONDING PROPOSAL

Shall Berkley School District, Oakland County, Michigan, borrow the sum of not to exceed Fifty-Eight Million Nine Hundred Fifty Thousand Dollars (\$58,950,000) and issue its general obligation unlimited tax bonds therefor, for the purpose of:

erecting, furnishing and equipping additions to school buildings; remodeling, furnishing and refurnishing, and equipping and re-equipping school buildings; acquiring, installing and equipping or re-equipping school buildings for instructional technology; and developing and improve the sites?

The following is for informational purposes only:

The estimated millage that will be levied for the proposed bonds in 2015 is 3.00 mills (\$3.00 on each \$1,000 of taxable valuation). The maximum number of years the bonds 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 4.17 mills (\$4.17 on each \$1,000 of taxable valuation).

The school district does not expect to borrow from the State to pay debt service on the bonds. The total amount of qualified bonds currently outstanding is \$12,435,000. The total amount of qualified loans currently outstanding is \$-0-. The estimated computed millage rate may change based on changes in certain circumstances.

(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.)

Application for Preliminary Qualification of Bonds

School Bond Qualification and Loan Program for

Berkley School District

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^{*} Include building floor/site plans and activity/cost estimates for each project.

Application Attachments

(Please "X" all that apply)

Χ	Debt service projection support
X	Existing debt schedules
X	Construction fund/bond issuance cost schedules
X	Enrollment projections (prepared by an approved service provider)
X	Comparison of the current proposal to previous defeated proposal
	Letter addressing classroom capacity utilization rate
	Architect's statement regarding closing/demolition of existing facility
X	Letter addressing new construction costs exceeding the cost per square foot parameter
X	Architect/Construction manager's opinion regarding cost estimates
	Status of unaudited bonds
X	Useful Life Calculation Worksheet

For additional information about the School Bond Qualification and Loan Program, visit: $\frac{www.michigan.gov/sblf}{}$

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Application for Preliminary Qualification of Bonds

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

Michigan Department of Treasury Bureau of State and Authority Finance School Bond Qualification and Loan Program 430 West Allegan Street Lansing, Michigan 48922 Telephone: (517) 335-0994

Application Number:

SBL 63-050-4-K12-10-02

Legal Name of School District							
Berkley School District				63-050	248	3.837.8000	
Address			ity			ZIP Code	
14700 W. Lincoln		C	Oak Park			48237	
MAILING INSTRUCTIONS:	Return TWO originally signed Return ONE originally signed Return ONE originally signed Return ONE originally signed Retain ONE originally signed Retain ONE originally signed or	copy to your fir copy to your ar copy to your co	ancial consul chitectural firr nstruction ma	tant. n.			
CONTACT PERSON: Person	to whom questions and corresponder	nce concerning	this application	on should be directed.			
Dennis McDavi	d		ntendent		248.837.800		
Name			Title		Telephone Numb	ber	
		dmcdavid@be	•	<u>org</u>	248.544.586	60	
	<u></u>	E-ma	I Address		Fax Number	<u>-</u>	
	C	Certificate					
description in this application (2) That said application is pr on said bond issue. (3) Resolved that this Board of bond issue has been approve (4) Read this application and	iminary qualification of bonds by the S	state Treasurer tion prior to the cation application applications contain	official action on to the Stat	of the Board of Educa e Treasurer for qualific true to the best knowle	ar) cool construction tion calling the electic ation of their bonds a	on fter this Board.	
	e hereunto set my hand this	_	5th	day of	January (month)	2015 : (year)	
Secretary, Boa		_		Sign	ature of Secretary		
Roger		_			nnis McDavid		
Treasurer, Boa	rd of Education	_		Superi	ntendent of Schools		
	run	_			; East Lansing, MI 48	826	
	Counsel			Mailing Address			
	n & Associates Consultant			k Drive; Ann Arbor, N	ЛІ 48108		
			Mailing Address				
Stantec Arch	nitecture, Inc.	_			Highway; Berkley MI 4 Mailing Address	18072	
					-		
McCarthy &	Smith, Inc.	_			r, Farmington Hills, M Mailing Address	1 48335	
Construction Wa	anagomonii i iiiii			IV.	g / waress		

Proposed Election Date:

May 5, 2015

Financial Summary

Financial information provided as of : 11/01/14 BERKLEY SCHOOL DISTRICT

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

Issue Date	Purpose	Original Issue Amount	Current Outstanding Principal Balance			Outstanding Principal Balance as of Election Date			Millage Levied This Tax	Millage Estimate Next Tax
			Qualified	Non-Qualified	Non-Voted	Qualified	Non-Qualified	Non-Voted	Year	Year
06/23/05	Refunding	9,425,000	7,005,000			5,805,000			1.70	
05/28/09	Refunding	16,480,000	8,260,000			6,630,000			2.30	
	•	Totals	15,265,000	0	0	12,435,000	0	0	4.00	4.00

Total Outstanding Bond Debt As Of: Current Date 15,265,000 Election Date 12,435,000

Have proceeds of all existing bonds been spen Yes (If No, provide status of unspent/unaudited bonds)

B. Proposed Bond Issue List each ballot proposal separately.

		ziot odon banot pi	opoda, dopa, atoly	•				
	Amount	Bond Term	Avg Int Rate	Bond Interest	SLRF Interest	Total Interest	Avg Millage	Millage Year 1
Proposal 1	58,950,000	24.85	4.50%	41,623,088	0	41,623,088	4.17	3.00
Proposal 2								
Proposal 3								
Proposal 4								
				l				
Combined Issue	58.950.000	24.85	4.50%	41.623.088	1 0	41.623.088	4.17	3.00

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

C. School Bond Loan Participation:

Mandatory Final Loan Repayment Date:	2046	
Current School Bond Loan Fund Balance:	0	
Estimated School Bond Loan Fund Balance as of B	Election Date	0
Beginning Date in School Bond Loan Fund	n/a	
Projected School Bond Loan Fund End Date	n/a	
Estimated School Bond Loan Fund Interest Rate		5.00%
Maximum School Bond Loan Fund Balance		n/a
Maximum School Bond Loan Fund Balance Year		n/a
Initial Computed Millage		n/a
Estimated Duration of Computed Millage		n/a
Est Amt to be Borrowed on Existing Bonds	Principal:	0
	Interest:	0
Est Amt to be Borrowed on Proposed Bonds	Principal:	0
	Interest:	0

D. Property Tax Assumptions:

Tax Year	2014
Current Taxable Value	890,089,958
Prior 5 Year Average Growth Rate	-2.39%
Prior 20 Year Average Growth Rate	2.43%
Projected Growth Rate Used Years 1 - 5	-2.39%
Projected Growth Rate Used Years 6+	2.43%
Property Taxes Levied in Winter	0%
Property Taxes Levied in Summer	100%
Any material tax appeals pending in the district?	no
(If district is aware of any event or circumstance	that could

significantly affect its future, disclosure must be included.)

E. Millage

Total Estimated Proposed Millage for Next Tax Year	7.00
Estimated Duration of Millage Levy	25 years
Maximum millage without SBLF participation	7.76
1st Year Millage Increase	3.00

F. Key Financial Measures:

Interest to Bond Ratio	70.61%
Bonded Debt to Taxable Value	8.02%
Total Debt to Taxable Value	8.02%
Weighted Average Maturity of Bonds	15.69
120% of Average Useful Life of Assets	35.44
Total Current Bond Debt plus School Bond Loan Debt	15,265,000

G. Bond Issuance

	Amount	Dated	Construction Fund			
	Amount	Date	Beg. Date	End Date		
Series1	58,950,000	06/25/15	06/01/15	11/01/18		
Series2						
Series3						

H. Certification:

The financial impact presented herin is based on certain assumptions regarding interst rates and taxable value growth rates.

Actual millage rates may be subject to adjustment based on differences in these assumptions, actual intersert rates, and future taxable value growth.

_			
Prepared By:	Paul Stauder	Firm:	Stauder, Barch & Associates

BERKLEY SCHOOL DISTRICT EXISTING UNLIMITED TAX DEBT: BEFORE ADDITIONAL BONDING

* NIC calculated from: 05/01/14

2005 REFUNDING BONDS - UTQ
Original Amount: \$9,425,000
Net Interest Cost: 4.470%
Maturities >= 2016 Callable 5/1/15 @ 100.00

2009 REFUNDING BONDS - UTQ
Original Amount: \$16,480,000
Net Interest Cost: 3.130%
Non-Callable

	Fiscal	\$7,005,000	Curr	ent Interes	t Bonds Dated	06/23/05	\$8,260,000		Current Interest	Bonds Dated	05/28/09	TOTAL	DEBT
	Year	Interest	Interest		Principal		Interest	Interest		Principal			
Tax	Ended	Due	Due	Interest	Due	Total	Due	Due	Interest	Due	Total	Total	Total
Year	6-30,	Nov 1	May 1	Rate	May 1	P&I	Nov 1	May 1	Rate	May 1	P&I	Principal	P&I
2014	2015	\$160,438	\$160,438	5.000%	\$1,200,000	\$1,520,875	\$162,641	\$162,641	3.500%	\$1,630,000	\$1,955,283	\$2,830,000	\$3,476,158
2015	2016	130,438	130,438	4.500%	1,310,000	1,570,875	134,116	134,116	3.500%	1,635,000	1,903,233	2,945,000	3,474,108
2016	2017	100,963	100,963	4.750%	1,415,000	1,616,925	105,504	105,504	3.750%	1,645,000	1,856,008	3,060,000	3,472,933
2017	2018	67,356	67,356	4.750%	1,535,000	1,669,713	74,660	74,660	4.00% / 3.80%	1,655,000	1,804,320	3,190,000	3,474,033
2018	2019	30,900	30,900	4.000%	1,545,000	1,606,800	42,375	42,375	5.000%	1,695,000	1,779,750	3,240,000	3,386,550
2019	2020	0	0	0.000%	0	0	0	0	0.000%	0	0	0	0
2020	2021	0	0	0.000%	0	0	0	0	0.000%	0	0	0	0
2021	2022	0	0	0.000%	0	0	0	0	0.000%	0	0	0	0
2022	2023	0	0	0.000%	0	0	0	0	0.000%	0	0	0	0
2023	2024	0	0	0.000%	0	0	0	0	0.000%	0	0	0	0
2024	2025	0	0	0.000%	0	0	0	0	0.000%	0	0	0	0
2025	2026	0	0	0.000%	0	0	0	0	0.000%	0	0	0	0
2026	2027	0	0	0.000%	0	0	0	0	0.000%	0	0	0	0
2027	2028	0	0	0.000%	0	0	0	0	0.000%	0	0	0	0
	_	\$490,094	\$490,094		\$7,005,000	\$7,985,188	\$519,296	\$519,296		\$8,260,000	\$9,298,593	\$15,265,000	\$17,283,780

BEFORE ADDITIONAL BONDING

BERKLEY SCHOOL DISTRICT COUNTY OF OAKLAND, STATE OF MICHIGAN

Schedule of Estimated Millage Needed to Retire Bonded Debt

Taxable Value Growth History								
2009	\$1,008,061,600							
2010	932,444,830	(7.50%)						
2011	879,328,330	(5.70%)						
2012	862,250,550	(1.94%)						
2013	870,934,100	1.01%						
2014	890,089,958	2.20%						
Average Grow	th Rate:	(2.39%)						

Collection Cycle
July Levy: 100%

<u>. </u>				Plus:	(Use) of				Mills	Net
	F/Y		Capitalized	7.00%	Funds on				Needed	District
Tax	End	Existing Debt	or Accrued	Allow for	Hand	Net	Projected	Growth	All	Payments
Year	6-30,	\$15,265,000	Interest	Delinq.	\$203,207	Existing Debt	Txbl Value [1]	Rate	Debt	\$17,329,798
2014	2015	\$3,476,158	\$0	\$249,225	(\$165,023)	\$3,560,360	\$890,089,958	2.20%	4.00	\$3,560,360
2015	2016	3,474,108			(38,184)	3,435,923	898,990,858	1.00%	3.82	3,435,923
2016	2017	3,472,933			0	3,472,933	912,475,720	1.50%	3.81	3,472,933
2017	2018	3,474,033			0	3,474,033	930,725,235	2.00%	3.73	3,474,033
2018	2019	3,386,550			0	3,386,550	949,339,740	2.00%	3.57	3,386,550
2019	2020	0			0	0	968,326,534	2.00%	0.00	0
2020	2021	0			0	0	987,693,065	2.00%	0.00	0
2021	2022	0			0	0	1,007,446,926	2.00%	0.00	0
2022	2023	0			0	0	1,027,595,865	2.00%	0.00	0
2023	2024	0			0	0	1,048,147,782	2.00%	0.00	0
2024	2025	0			0	0	1,069,110,738	2.00%	0.00	0
2025	2026	0			0	0	1,090,492,953	2.00%	0.00	0
2026	2027	0			0	0	1,112,302,812	2.00%	0.00	0
2027	2028	0			0	0	1,134,548,868	2.00%	0.00	0
2028	2029	0			0	0	1,157,239,845	2.00%	0.00	0
2029	2030	0			0	0	1,180,384,642	2.00%	0.00	0
2030	2031	0			0	0	1,203,992,335	2.00%	0.00	0
2031	2032	0			0	0	1,228,072,182	2.00%	0.00	0
2032	2033	0			0	0	1,252,633,625	2.00%	0.00	0
	_	\$17,283,780	\$0	\$249,225		\$17,329,798				\$17,329,798
	_								•	kca

4.0000

Current Levy

[1] Includes \$0 of Equivalent IFT Valuations & Less DDA/TIFA Debt Captures of \$0 . kcg

BEFORE ADDITIONAL BONDING

BERKLEY SCHOOL DISTRICT COUNTY OF OAKLAND, STATE OF MICHIGAN

Schedule of Estimated Millage Needed to Retire Bonded Debt

Taxable Value Growth History									
2009	\$1,008,061,600								
2010	932,444,830	(7.50%)							
2011	879,328,330	(5.70%)							
2012	862,250,550	(1.94%)							
2013	870,934,100	1.01%							
2014	890,089,958	2.20%							
Average Growt	(2.39%)								

Notes:	Collection Cycle
Statutory Taxable Value Growth	July Levy: 100%

				Plus:	(Use) of				Mills	Net
	F/Y		Capitalized	7.00%	Funds on				Needed	District
Tax	End	Existing Debt	or Accrued	Allow for	Hand	Net	Projected	Growth	All	Payments
Year	6-30,	\$15,265,000	Interest	Delinq.	\$203,207	Existing Debt	Txbl Value [1]	Rate	Debt	\$17,329,798
2014	2015	\$3,476,158	\$0	\$249,225	(\$165,023)	\$3,560,360	\$890,089,958	2.20%	4.00	\$3,560,360
2015	2016	3,474,108			1,279	3,475,386	868,846,573	(2.39%)	4.00	3,475,386
2016	2017	3,472,933			(39,463)	3,433,470	848,110,194	(2.39%)	4.05	3,433,470
2017	2018	3,474,033			0	3,474,033	827,868,721	(2.39%)	4.20	3,474,033
2018	2019	3,386,550			0	3,386,550	808,110,343	(2.39%)	4.19	3,386,550
2019	2020	0			0	0	788,823,529	(2.39%)	0.00	0
2020	2021	0			0	0	807,965,927	2.43%	0.00	0
2021	2022	0			0	0	827,572,855	2.43%	0.00	0
2022	2023	0			0	0	847,655,584	2.43%	0.00	0
2023	2024	0			0	0	868,225,662	2.43%	0.00	0
2024	2025	0			0	0	889,294,914	2.43%	0.00	0
2025	2026	0			0	0	910,875,454	2.43%	0.00	0
2026	2027	0			0	0	932,979,690	2.43%	0.00	0
2027	2028	0			0	0	955,620,329	2.43%	0.00	0
2028	2029	0			0	0	978,810,390	2.43%	0.00	0
2029	2030	0			0	0	1,002,563,204	2.43%	0.00	0
2030	2031	0			0	0	1,026,892,428	2.43%	0.00	0
2031	2032	0			0	0	1,051,812,050	2.43%	0.00	0
2032	2033	0			0	0	1,077,336,397	2.43%	0.00	0
	_	\$17,283,780	\$0	\$249,225		\$17,329,798			-	\$17,329,798
									•	kcg

4.0000

Current Levy

[1] Includes \$0 of Equivalent IFT Valuations & Less DDA/TIFA Debt Captures of \$0 . kcg

1.70 years

BERKLEY SCHOOL DISTRICT COUNTY OF OAKLAND, STATE OF MICHIGAN PROPOSED 2015 SCHOOL BUILDING AND SITE BONDS (GENERAL OBLIGATION - UNLIMITED TAX)

\$58,950,000

SCHEDULE OF ESTIMATED CONSTRUCTION FUND EARNINGS

EXPENDITURE ACTIVITY						Construction		Projected
·	Construction					Fund	Interest	Interest
Date	Projects	and Costs	Totals	Month	Payout %	Balance	Rate	Earned
Jun 15						\$58,950,000		
Jun 15	\$150,313	\$966,036	\$1,116,349	1	1.89%	57,833,651	0.25%	\$12,049
Jul 15	298,732		298,732	2	2.39%	57,546,968	0.25%	11,989
Aug 15	311,679		311,679	3	2.92%	57,247,278	0.25%	11,927
Sep 15	254,545		254,545	4	3.35%	57,004,660	0.25%	11,876
Oct 15	324,626		324,626	5	3.90%	56,691,909	0.25%	11,811
Nov 15	363,468		363,468	6	4.51%	56,340,252	0.25%	11,738
Dec 15	293,386		293,386	7	5.00%	56,058,603	0.25%	11,679
Jan 16	367,066		367,066	8	5.62%	55,703,216	0.25%	11,605
Feb 16	218,648		218,648	9	5.99%	55,496,173	0.25%	11,562
Mar 16	675,948		675,948	10	7.14%	54,831,787	0.25%	11,423
Apr 16	1,352,533		1,352,533	11	9.42%	53,490,677	0.25%	11,144
May 16	1,661,326		1,661,326	12	12.23%	51,840,495	0.25%	10,800
Jun 16	2,245,041		2,245,041	13	16.02%	49,606,254	0.25%	10,335
Jul 16	3,376,495		3,376,495	14	21.72%	46,240,093	0.25%	9,633
Aug 16	4,129,032		4,129,032	15	28.70%	42,120,695	0.25%	8,775
Sep 16	4,212,861		4,212,861	16	35.81%	37,916,609	0.25%	7,899
Oct 16	2,625,899		2,625,899	17	40.25%	35,298,609	0.25%	7,354
Nov 16	1,873,363		1,873,363	18	43.41%	33,432,599	0.25%	6,965
Dec 16	1,724,020		1,724,020	19	46.33%	31,715,545	0.25%	6,607
Jan 17	1,178,131		1,178,131	20	48.32%	30,544,021	0.25%	6,363
Feb 17 Mar 17	1,290,426		1,290,426	21 22	50.50%	29,259,958	0.25%	6,096
Apr 17	1,459,056		1,459,056	23	52.96%	27,806,998	0.25% 0.25%	5,793
May 17	1,881,114		1,881,114	23 24	56.14% 59.32%	25,931,677	0.25% 0.25%	5,402
Jun 17	1,881,114		1,881,114	2 4 25	65.04%	24,055,966	0.25%	5,012
Jul 17	3,390,810		3,390,810	26		20,670,168		4,306
Aug 17	3,558,469		3,558,469	27	71.05% 77.07%	17,116,005	0.25% 0.25%	3,566
Sep 17	3,558,469 3,977,617		3,558,469	28	83.78%	13,561,102 9,586,310	0.25%	2,825 1,997
Oct 17	2,418,485		3,977,617 2,418,485	29	87.87%	7,169,822	0.25%	1,494
Nov 17	1,344,061		1,344,061	30	90.14%	5,827,255	0.25%	1,214
Dec 17	647,456		647,456	31	91.23%	5,181,013	0.25%	1,079
Jan 18	0-7,750		047,430	32	91.23%	5,182,093	0.25%	1,080
Feb 18	0		0	33	91.23%	5,183,172	0.25%	1,080
Mar 18	111,596		111,596	34	91.42%	5,072,656	0.25%	1,057
Apr 18	111,596		111,596	35	91.61%	4,962,116	0.25%	1,034
May 18	278,991		278,991	36	92.08%	4,684,159	0.25%	976
Jun 18	557,982		557,982	37	93.03%	4,127,152	0.25%	860
Jul 18	1,394,956		1,394,956	38	95.38%	2,733,056	0.25%	569
Aug 18	1,115,965		1,115,965	39	97.27%	1,617,661	0.25%	337
Sep 18	1,115,965		1,115,965	40	99.15%	502,033	0.25%	105
Oct 18	278,991		278,991	41	99.62%	223,146	0.25%	46
Nov 18	223,193		223,193	42	100.00%	0	0.25%	0
•	\$58,233,425	\$966,036	\$59,199,461			-		\$249,461

Breakdown of Estimated Other Fees and Costs										
OTHER FEES:			OTHER COSTS:							
Municipal Advisory Council Fee		\$400	Election, Notice of Sale,	Bond Printing, etc.	\$31,101					
Auditor's Subsequent Events Review		2,000	Capitalized Interest:	x mos. @ x%	0					
Bond Attorney		70,005	Bond Discount	1.250%	736,875					
Construction Manager (Incl. in Constructio	n Costs)	0	Bond Insurance		0					
Financial Consultant		63,957	Other		0					
Qualification of Bonds		15,600	TOTAL OTHER COSTS:	=	\$767,976					
Other:			TOTAL OTHER FEES A	ND COSTS	\$966,036					
Credit Ratings	\$39,598		Total Project Cost	=	\$59,199,461					
Official Statement Printing & Mailing	5,500		Less Original Issue Prem	nium	0					
Treasury Filing	1,000	46,098	Less Construction Fund I	Earnings	249,461					
TOTAL OTHER FEES	·	\$198,060	AMOUNT OF BOND ISS	SUE	\$58,950,000.00					
			Estimated Construction F	und Deposit	\$57.983.964					

STAUDER, BARCH & ASSOCIATES, INC.

PQ Millage **USING ANTICIPATED TV GROWTH**

July Levy: 100% Taxable Value Growth History Proposed Levy 7.00 2009 \$1,008,061,600 Current Levy 4.00 2010 932,444,830 (7.50%) Net Increase 3.00 2011 879,328,330 (5.70%) 2012 862,250,550 (1.94%) 20% Project Useful Life: 2013 870,934,100 1.01% 2014 890,089,958 2.20% Average Growth Rate: (2.39%)

Dated: Jun 25, 15 Delivered: Jun 25, 15 Bond Term: 24 yrs, 10 mos Average Life: 15.690 Interest Factor 35 0.785 1:5 Ratio: TRUE

NIC: 5.000% [2] Debt/TV: 8.02%

(GENERAL OBLIGATION - UNLIMITED TAX) Schedule of Estimated Millage Needed to Retire Bonded Debt

\$58.950.000

BERKLEY SCHOOL DISTRICT

COUNTY OF OAKLAND, STATE OF MICHIGAN

PROPOSED 2015 SCHOOL BUILDING AND SITE BONDS

											Average Grown	i Nate.	(2.3970)	L2	j Debi/TV.	0.0276	
			Schedule of Es	stimated Millage	Needed to R	etire Bonded	Debt			•				ebt/(TV+IFT-		8.02%	
		QUALIFIED						Total	Plus:	(Use) of				Mills Needed	Mills	Mills	Net
	F/Y	Existing	Interest	Interest		Principal		Existing &	7.00%	Funds on				This	Needed	Levied	District
Tax	End	Debt	Due	Due	Interest	Due	Total	Proposed	Allow for	Hand	Net Existing	Projected	Growth	Issue	All Qual.	Qual.	Payments
Year	6-30,	\$15,265,000	Nov 1	May 1	Rate	May 1	P&I	Debt	Delinq.	\$203,207	Proposed Debt	Txbl Value [3]	Rate	Avg 3.72	Debt	Debt	\$122,527,673
2014	2015	\$3,476,158	\$0	\$0	5.000%	\$0	\$0	\$3,476,158	\$249,225	(\$165,023)	\$3,560,360	\$890,089,958	2.20%		4.00	4.00	\$3,560,360
2015	2016	3,474,108	1,031,625 [1]	1,473,750	5.000%	350,000	2,855,375	6,329,483		(20,970)	6,308,513	901,216,082	1.25%	3.18	7.00	7.00	6,308,513
2016	2017	3,472,933	1,465,000	1,465,000	5.000%	0	2,930,000	6,402,933		(17,214)	6,385,718	914,734,324	1.50%	3.17	6.98	6.98	6,385,718
2017	2018	3,474,033	1,465,000	1,465,000	5.000%	125,000	3,055,000	6,529,033		0	6,529,033	933,029,010	2.00%	3.27	7.00	7.00	6,529,033
2018	2019	3,386,550	1,461,875	1,461,875	5.000%	250,000	3,173,750	6,560,300		0	6,560,300	951,689,590	2.00%	3.33	6.89	6.89	6,560,300
2019	2020	0	1,455,625	1,455,625	5.000%	3,400,000	6,311,250	6,311,250		0	6,311,250	970,723,382	2.00%	6.50	6.50	6.50	6,311,250
2020	2021	0	1,370,625	1,370,625	5.000%	3,595,000	6,336,250	6,336,250		0	6,336,250	990,137,850	2.00%	6.40	6.40	6.40	6,336,250
2021	2022	0	1,280,750	1,280,750	5.000%	1,680,000	4,241,500	4,241,500		0	4,241,500	1,009,940,607	2.00%	4.20	4.20	4.20	4,241,500
2022	2023	0	1,238,750	1,238,750	5.000%	1,760,000	4,237,500	4,237,500		0	4,237,500	1,030,139,419	2.00%	4.11	4.11	4.11	4,237,500
2023	2024	0	1,194,750	1,194,750	5.000%	1,850,000	4,239,500	4,239,500		0	4,239,500	1,050,742,207	2.00%	4.03	4.03	4.03	4,239,500
2024	2025	0	1,148,500	1,148,500	5.000%	1,940,000	4,237,000	4,237,000		0	4,237,000	1,071,757,052	2.00%	3.95	3.95	3.95	4,237,000
2025	2026	0	1,100,000	1,100,000	5.000%	2,040,000	4,240,000	4,240,000		0	4,240,000	1,093,192,193	2.00%	3.88	3.88	3.88	4,240,000
2026	2027	0	1,049,000	1,049,000	5.000%	2,140,000	4,238,000	4,238,000		0	4,238,000	1,115,056,036	2.00%	3.80	3.80	3.80	4,238,000
2027	2028	0	995,500	995,500	5.000%	2,250,000	4,241,000	4,241,000		0	4,241,000	1,137,357,157	2.00%	3.73	3.73	3.73	4,241,000
2028	2029	0	939,250	939,250	5.000%	2,360,000	4,238,500	4,238,500		0	4,238,500	1,160,104,300	2.00%	3.65	3.65	3.65	4,238,500
2029	2030	0	880,250	880,250	5.000%	2,480,000	4,240,500	4,240,500		0	4,240,500	1,183,306,386	2.00%	3.58	3.58	3.58	4,240,500
2030	2031	0	818,250	818,250	5.000%	2,605,000	4,241,500	4,241,500		0	4,241,500	1,206,972,514	2.00%	3.51	3.51	3.51	4,241,500
2031	2032	0	753,125	753,125	5.000%	2,735,000	4,241,250	4,241,250		0	4,241,250	1,231,111,964	2.00%	3.45	3.45	3.45	4,241,250
2032	2033	0	684,750	684,750	5.000%	2,870,000	4,239,500	4,239,500		0	4,239,500	1,255,734,204	2.00%	3.38	3.38	3.38	4,239,500
2033	2034	0	613,000	613,000	5.000%	3,015,000	4,241,000	4,241,000		0	4,241,000	1,280,848,888	2.00%	3.31	3.31	3.31	4,241,000
2034	2035	0	537,625	537,625	5.000%	3,165,000	4,240,250	4,240,250		0	4,240,250	1,306,465,865	2.00%	3.25	3.25	3.25	4,240,250
2035	2036	0	458,500	458,500	5.000%	3,320,000	4,237,000	4,237,000		0	4,237,000	1,332,595,183	2.00%	3.18	3.18	3.18	4,237,000
2036	2037	0	375,500	375,500	5.000%	3,490,000	4,241,000	4,241,000		0	4,241,000	1,359,247,086	2.00%	3.12	3.12	3.12	4,241,000
2037	2038	0	288,250	288,250	5.000%	3,660,000	4,236,500	4,236,500		0	4,236,500	1,386,432,028	2.00%	3.06	3.06	3.06	4,236,500
2038	2039	0	196,750	196,750	5.000%	3,845,000	4,238,500	4,238,500		0	4,238,500	1,414,160,669	2.00%	3.00	3.00	3.00	4,238,500
2039	2040	0	100,625	100,625	5.000%	4,025,000	4,226,250	4,226,250		0	4,226,250	1,442,443,882	2.00%	2.93	2.93	2.93	4,226,250
2040	2041	0	0	0	5.000%	0	0	0		0	0	1,471,292,760	2.00%		0.00	0.00	0
	_	\$17,283,780	\$22,902,875	\$23,345,000	_	\$58,950,000	\$105,197,875	\$122,481,655	\$249,225	(\$203,207)	\$122,527,673					-	\$122,527,673

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

[2] Includes \$0 of Existing LTNQ Debt and \$12,435,000 of Existing UT Debt as of Dated Date. [3] Includes \$0 of Equivalent IFT Valuations and Less DDA/TIFA Debt Captures of

^{[1] 4} mos, 6 days interest.

PQ Millage St USING STATUTORY TV GROWTH

\$58,950,000 BERKLEY SCHOOL DISTRICT COUNTY OF OAKLAND, STATE OF MICHIGAN PROPOSED 2015 SCHOOL BUILDING AND SITE BONDS (GENERAL OBLIGATION - UNLIMITED TAX)

July Levy: 100% Taxable Value Growth History Proposed Levy 7.00 2009 \$1,008,061,600 Current Levy 4.00 2010 932,444,830 (7.50%) Net Increase 3.00 2011 879,328,330 (5.70%) 2012 862,250,550 (1.94%) % Project Useful Life: 2013 870,934,100 1.01% 2014 890,089,958 2.20% Average Growth Rate: (2.39%)

Dated: Jun 25, 15 Delivered: Jun 25, 15 Bond Term: 24 yrs, 10 mos Average Life: 15.690 35 1:5 Ratio: TRUE NIC: 4.500%

8.02%

[2] Debt/TV:

Interest Factor 0.706

			Schedule of Es	stimated Millage	Needed to F	Retire Bonded I	Debt				rivorago oroma		[2] Del	ot/(TV+IFT-C	aptures):	8.02%	
		QUALIFIED						Total	Plus:	(Use) of				Mills Needed	Mills	Mills	Net
	F/Y	Existing	Interest	Interest		Principal		Existing &	7.00%	Funds on				This	Needed	Levied	District
Tax	End	Debt	Due	Due	Interest	Due	Total	Proposed	Allow for	Hand	Net Existing	Projected	Growth	Issue	All Qual.	Qual.	Payments
Year	6-30,	\$15,265,000	Nov 1	May 1	Rate	May 1	P&I	Debt	Delinq.		Proposed Debt	Txbl Value [3]	Rate	Avg 4.17	Debt	Debt	\$117,902,886
2014	2015	\$3,476,158	\$0	\$0	4.500%	\$0	\$0	\$3,476,158	\$249,225	(\$165,023)	\$3,560,360	\$890,089,958	2.20%		4.00	4.00	\$3,560,360
2015	2016	3,474,108	928,463 [1]	1,326,375	4.500%	350,000	2,604,838	6,078,945		2,981	6,081,926	,	(2.39%)	3.00	7.00	7.00	6,081,926
2016	2017	3,472,933	1,318,500	1,318,500	4.500%	0	2,637,000	6,109,933		(41,165)	6,068,767	848,110,194	(2.39%)	3.11	7.16	7.16	6,068,767
2017	2018	3,474,033	1,318,500	1,318,500	4.500%	125,000	2,762,000	6,236,033		0	6,236,033	827,868,721	(2.39%)	3.34	7.53	7.53	6,236,033
2018	2019	3,386,550	1,315,688	1,315,688	4.500%	250,000	2,881,375	6,267,925		0	6,267,925		(2.39%)	3.57	7.76	7.76	6,267,925
2019	2020	0	1,310,063	1,310,063	4.500%	3,400,000	6,020,125	6,020,125		0	6,020,125	788,823,529	(2.39%)	7.63	7.63	7.63	6,020,125
2020	2021	0	1,233,563	1,233,563	4.500%	3,595,000	6,062,125	6,062,125		0	6,062,125	807,965,927	2.43%	7.50	7.50	7.50	6,062,125
2021	2022	0	1,152,675	1,152,675	4.500%	1,680,000	3,985,350	3,985,350		0	3,985,350	827,572,855	2.43%	4.82	4.82	4.82	3,985,350
2022	2023	0	1,114,875	1,114,875	4.500%	1,760,000	3,989,750	3,989,750		0	3,989,750	847,655,584	2.43%	4.71	4.71	4.71	3,989,750
2023	2024	0	1,075,275	1,075,275	4.500%	1,850,000	4,000,550	4,000,550		0	4,000,550	868,225,662	2.43%	4.61	4.61	4.61	4,000,550
2024	2025	0	1,033,650	1,033,650	4.500%	1,940,000	4,007,300	4,007,300		0	4,007,300	889,294,914	2.43%	4.51	4.51	4.51	4,007,300
2025	2026	0	990,000	990,000	4.500%	2,040,000	4,020,000	4,020,000		0	4,020,000	910,875,454	2.43%	4.41	4.41	4.41	4,020,000
2026	2027	0	944,100	944,100	4.500%	2,140,000	4,028,200	4,028,200		0	4,028,200	932,979,690	2.43%	4.32	4.32	4.32	4,028,200
2027	2028	0	895,950	895,950	4.500%	2,250,000	4,041,900	4,041,900		0	4,041,900	955,620,329	2.43%	4.23	4.23	4.23	4,041,900
2028	2029	0	845,325	845,325	4.500%	2,360,000	4,050,650	4,050,650		0	4,050,650	978,810,390	2.43%	4.14	4.14	4.14	4,050,650
2029	2030	0	792,225	792,225	4.500%	2,480,000	4,064,450	4,064,450		0	4,064,450	1,002,563,204	2.43%	4.05	4.05	4.05	4,064,450
2030	2031	0	736,425	736,425	4.500%	2,605,000	4,077,850	4,077,850		0	4,077,850	1,026,892,428	2.43%	3.97	3.97	3.97	4,077,850
2031	2032	0	677,813	677,813	4.500%	2,735,000	4,090,625	4,090,625		0	4,090,625	1,051,812,050	2.43%	3.89	3.89	3.89	4,090,625
2032	2033	0	616,275	616,275	4.500%	2,870,000	4,102,550	4,102,550		0	4,102,550	1,077,336,397	2.43%	3.81	3.81	3.81	4,102,550
2033	2034	0	551,700	551,700	4.500%	3,015,000	4,118,400	4,118,400		0	4,118,400	1,103,480,144	2.43%	3.73	3.73	3.73	4,118,400
2034	2035	0	483,863	483,863	4.500%	3,165,000	4,132,725	4,132,725		0	4,132,725	1,130,258,322	2.43%	3.66	3.66	3.66	4,132,725
2035	2036	0	412,650	412,650	4.500%	3,320,000	4,145,300	4,145,300		0	4,145,300	1,157,686,327	2.43%	3.58	3.58	3.58	4,145,300
2036	2037	0	337,950	337,950	4.500%	3,490,000	4,165,900	4,165,900		0	4,165,900	1,185,779,928	2.43%	3.51	3.51	3.51	4,165,900
2037	2038	0	259,425	259,425	4.500%	3,660,000	4,178,850	4,178,850		0	4,178,850	1,214,555,276	2.43%	3.44	3.44	3.44	4,178,850
2038	2039	0	177,075	177,075	4.500%	3,845,000	4,199,150	4,199,150		0	4,199,150	1,244,028,917	2.43%	3.38	3.38	3.38	4,199,150
2039	2040	0	90,563	90,563	4.500%	4,025,000	4,206,125	4,206,125		0	4,206,125	1,274,217,795	2.43%	3.30	3.30	3.30	4,206,125
2040	2041	0	0	0	4.500%	0	0	0		0	0	1,305,139,268	2.43%		0.00	0.00	0
		\$17,283,780	\$20,612,588	\$21,010,500	_	\$58,950,000	\$100,573,088	\$117,856,868	\$249,225	(\$203,207)	\$117,902,886						\$117,902,886

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

^{[1] 4} mos, 6 days interest.

^[2] Includes \$0 of Existing LTNQ Debt and \$12,435,000 of Existing UT Debt as of Dated Date. [3] Includes \$0 of Equivalent IFT Valuations and Less DDA/TIFA Debt Captures of

BERKLEY SCHOOL DISTRICT TAXABLE VALUE HISTORY

1	2014	890,089,958	2.20% 20 Year Average Growth
2	2013	870,934,100	1.01%
3	2012	862,250,550	-1.94% 2.43%
4	2011	879,328,330	-5.70%
5	2010	932,444,830	-7.50%
6	2009	1,008,061,600	-1.12%
7	2008	1,019,434,218	0.58%
8	2007	1,013,509,340	5.07%
9	2006	964,607,520	4.08%
10	2005	926,808,846	6.65%
11	2004	869,025,335	5.13%
12	2003	826,630,586	5.00%
13	2002	787,240,515	5.82%
14	2001	743,921,077	5.75%
15	2000	703,451,827	4.56%
16	1999	672,800,835	4.59%
17	1998	643,273,240	4.79%
18	1997	613,847,750	3.79%
19	1996	591,427,780	2.06%
20	1995	579,467,140	3.70%
21	1994	558,800,470	

Enrollment Projections

Name of School District: Berkley School District

District Code Number: 63-050

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.

	Preceding	(Year)	(Year)	(Col 4 - Col 3) / Col 3
	5-Year	Current	Projected 5-Year	Projected Enrollment
Grade	Enrollment	Enrollment	Enrollment	Change (%)
1	2	3	4	5
К	<i>#</i> {{	365	327	-11.62%
1	 	328	310	-5.81%
2	(1) () () ()	332	309	-7.44%
3		312	313	0.32%
4		296	309	4.21%
5	()	362	357	-1.40%
6		393	332	-18.37%
7	[[]]]]]	332	332	0.00%
8	1111118	351	310	-13.23%
9	11111133	330	293	-12.63%
10	ATTITIC	351	353	0.57%
11		307	368	16.58%
12	[]]]] <u>[</u>]	278	298	6.71%
Totals	4,354	4,337	4,211	-2.99%

Explanation of Method Selected
Projection Method 1

Source:	Middle Cities Education Association
Prepared By:	Stantec

Subtotals h	v School	Dietrict'e	Grade	Configuration: *
Subtotals b	v School	DISHICLS	Graue	Cominguration.

K-5		1,995	1,925	-3.64%
K-8		3,071	2,899	-5.93%
6-8		1,076	974	-10.47%
9-12		1,266	1,312	3.51%
GENERAL ED TOTAL	4,354	4,337	4,211	-2.99%

*Examples of possible grade configurations							
K-5 K-8 K-12							
6 - 8	5 - 6	5 - 8					
9 - 12	10 - 12	7 - 12					

Early Childhood	308
Special Education	110
Alternative Education	
Adult Education	
NON-GEN ED TOTAL	418

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. 3881 Page 4

Project Sheet

			Project Sneet						
Project No. 1									
Name of School Bu	ıilding:	,	Angell Elei	Angell Elementary School					
Description of Prop				Instructional Technology					
Renovation to improve safety requirements. U systems. Mechanical sy replacement of domest	security and Jpgrades to fi ystem upgrad tic water and cal distributio	remodeling of interior and exterior program delivery. Remodeling to ire alarm system, emergency lightides. Upgrades to plumbing syster sanitary pipe, sump pump and was n system, panels, receptacles, exint.	meet code and devices. ing, and phone including ter coolers.	classroom audio visual equipmer	nt and student computing				
				Site Work Descri	ption				
			Site work a	associated with new addition and t					
Type of Project:	Puilding .	→ New Construction Square Ft		Cost per Sq Ft					
Site W Facilit Statement descri (ex: asbestos, en	odeling nology and/or Work ty Closing ibing any nergy use,	→ ○ Demolish ○	Undetermined or usability problems	Convert to non-instructional	_				
71000100 404105,	<u> </u>	modiamodi oyotemo marinenzi,	more emoient egeterne.						
Estimated Cost o	of Propose	ed Construction Project: Total	(Attach analysis sl	-	res were calculated.) Proposal/Series 3				
N O-material		¢267.025	¢267.02	-					
New Construction		\$367,025	\$367,02						
Remodeling		\$2,901,662	\$2,901,662		-				
Construction Conting	-	\$249,963	\$249,963		-				
Instructional Technol		\$83,191 \$204,501	\$83,19	_	-				
Loose Furnishing/Equ	ulpment	\$294,591	\$294,59						
Buses Site World		\$0 \$64.140	\$0	-					
Site Work		\$64,149	\$64,14		-				
Site Acquisition		\$0	\$1		-				
Architectural Fees and	d Costs	\$245,690	\$245,690		-				
CM Fees and Costs		\$197,054	\$197,05	4					
Estimated Costs (Not including election or bond	f issuance costs)	\$4,403,326	\$4,403,326	<u>\$0</u>	\$0				
	-1		e by Registered Arch						
I certify that the details of the p	roposed project((s) described above and the attached detail r	elative to the construction project(s)	are true and correct to the best of my knowle	edge and belief.				
		Lee A. Andrea,	AIA	Stantec Archi	itecture, Inc. 45478				
Signature		Printed Name	<u></u>		d License Number				

lee.andrea@stantec.com

E-mail Address

248.336.4881

Fax Number

248.336.4880

Area Code and Telephone Number

1/5/2015

Date



BERKLEY SCHOOL DISTRICT MAY 2015 BOND PROGRAM

Angell Elementary School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Propo	osed 2015 Bond Scope
1. Site Wor	rk			-					
Site									
BE-11	Site Drainage and Earthwork for addition	Add landscape drain tile system.	4140.00	SF	\$ 15.00	\$ 62,100.00	1.033	\$	64,149.30
								\$	64,149.30
2. Remode	<u> </u>								
	rchitectural Replacement	1		•				1	
BE-01	Overhangs/Soffits	Provide aluminum soffit panels.	1320.00	LF	\$ 20.00	\$ 26,400.00	1.033	\$	27,271.20
BE-02	Brick Veneer at Base of Walls	Control roof drainage where possible and replace brick.	1300.00	SF	\$ 26.33	\$ 34,225.00	1.033	\$	35,354.42
BE-06	Metal Stair Treads/Ramp Railings	Replace with aluminum treads.	50.00	LF	\$ 71.50	\$ 3,575.00	1.033	\$	3,692.98
BE-07	Steel Doors and Frames	Replace with aluminum frames and fiberglass reinforced panel doors.	3.00	EA	\$ 3,200.00	\$ 9,600.00	1.033	\$	9,916.80
BE-08	Stone Window Sills	Replace sills	75.00		\$ 30.00	\$ 2,250.00	1.033	\$	2,324.25
BE-09	Entrance Canopy Soffits	Provide aluminum soffit panels.	510.00	SF	\$ 20.00	\$ 10,200.00	1.033	\$	10,536.60
BE-10	Roof Membrane	Remove and replace with new insulation and single- ply membrane.	3450.00	SF	\$ 10.00	\$ 34,500.00	1.033	\$	35,638.50
BE-12	Clerestory Windows	Replace with aluminum frames and insulating glass.	65.00	SF	\$ 80.00	\$ 5,200.00	1.033	\$	5,371.60
								\$	130,106.35
Interior Are	chitectural Replacement								
BI-04	Gypsum Board Soffits	replace	100.00	SF	\$ 10.00	\$ 1,000.00	1.033	\$	1,033.00
BI-05	Stair Wall	replace wall	250.00	SF	\$ 5.00	\$ 1,250.00	1.033	\$	1,291.25
BI-06	Resilient flooring and concrete floor topping	Replace concrete topping and resilient flooring	650.00	SF	\$ 10.50	\$ 6,825.00	1.033	\$	7,050.23
AB-11	Boy's and Girl's Toilet Rooms	Provide new plumbing fixtures, lighting, floor/wall/ceiling finishes, stalls and automatic door operators.	900.00	SF	\$ 71.20	\$ 64,080.00	1.033	\$	66,194.64
BI-01	Original Wood Doors and Frames	Replace with wood doors and hardware.	55.00	EA	\$ 1,301.36	\$ 71,575.05	1.033	\$	73,937.02
BI-03	Corridor Carpet	Replace carpet and resilient base.	6170.00	SF	\$ 4.50	\$ 27,765.00	1.033	\$	28,681.25
	Classroom Flooring	Assoicated with mechanical system replacement	17700.00	SF	\$ 4.50	\$ 79,650.00	1.033	\$	82,278.45

Angell Elementary School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed Sco	2015 Bond ope
	Classroom Ceiling	Assoicated with mechanical system replacement	17700.00	SF	\$ 5.50	\$ 97,350.00	1.033	\$	100,562.55
	Corridor Ceiling	Assoicated with mechanical system replacement	6170.00	SF	\$ 4.50	\$ 27,765.00	1.033	\$	28,681.25
	Visual Display Boards	Assoicated with mechanical system replacement	20.00	CR	\$ 1,200.00	\$ 24,000.00	1.033	\$	24,792.00
	Classroom Painting	Assoicated with mechanical system replacement	20.00	CR	\$ 600.00	\$ 12,000.00	1.033	\$	12,396.00
	Bookshelves	Assoicated with mechanical system replacement	20.00	CR	\$ 750.00	\$ 15,000.00	1.033	\$	15,495.00
	VUV wall opening	Assoicated with mechanical system replacement	20.00	CR	\$ 3,000.00	\$ 60,000.00	1.033	\$	61,980.00
								\$	504,372.63
Academic	Program Improvements	Γ	T		I	I		I	
	Create Kindergarten wing to improve the security of the main entry. Relocate kindergarten (in room 1) and young 5 to SE wing to reduce cross-traffic through entry vestibule		1440.00	SF	\$ 120.00	\$ 172,800.00	1.033	\$	178,502.40
	Create controlled vestibule in current entry hall by main office		460.00	SF	\$ 120.00	\$ 55,200.00	1.033	\$	57,021.60
	Renovate room 14 for classroom use.		800.00	SF	\$ 70.00	\$ 56,000.00	1.033	\$	57,848.00
	Renovate room 1 for music (larger space). Convert current music room to classroom.		1200.00	SF	\$ 120.00	\$ 144,000.00	1.033	\$	148,752.00
0-1-10-6-4								\$	442,124.00
Code/Safet	y T	T			I				
AB-03	Built-in Storage Cabinets	Provide fire rated doors and frames.	9.00	EA	\$ 2,405.55	\$ 21,649.95	1.033	\$	22,364.40
AB-06	Stair Handrail/Guardrail	Add handrail/guardrail	82.00	FT	\$ 110.98	\$ 9,100.00	1.033	\$	9,400.30
AB-08	Barrier Free Toilet Room Doors	Add automatic door operators.	2.00	EA	\$ 2,725.00	\$ 5,450.00	1.033	\$	5,629.85
Building Sy	ystems Replacement/ Energy Efficiency							\$	37,394.55
	<u> </u>	la stell is a considerate and a constant	44000.00	05	4.75	¢ 74.750.00	4.000		74 447 75
BS-1	Fire Alarm System	Install new addressable system.	41000.00	5F	\$ 1.75	\$ 71,750.00	1.033	\$	74,117.75
BS-2	Emergency Lighting	Install new units in existing fixtures.	41.00	EA	\$ 300.00	\$ 12,300.00	1.033	\$	12,705.90

Angell Elementary School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
BS-3	Boiler Room EPO	Install Boiler Room EPO system.	1.00	LS	\$ 2,720.00	\$ 2,720.00	1.033	\$ 2,809.76
BS-4	Phone System - Alarms	Review all alarm sensors, replace bad alarm sensors and install fire/smoke alert sensors in all buildings. Includes boilers, refrigerators, panic buttons, sump pumps, carbon monoxide, headend environmental sensors, etc. Test and corrective actions in budget.	1.00	EA	\$ 5,000.00	\$ 5,000.00	1.033	\$ 5,165.00
								\$ 94,798.41
Mechanica	Mechanical System	T T	41000.00	leE	\$ 26.00	\$ 1,066,000.00	1.033	\$ 1,101,178.00
	Mechanical System		41000.00	OF.	\$ 26.00	\$ 1,066,000.00	1.033	\$ 1,101,178.00
Plumbing					<u> </u>	ļ		1,101,170.00
PS-1	Sump Pump - West	Add drain tile and sump pump to serve west tunnel.	1.00	LS	\$ 14,000.00	\$ 14,000.00	1.033	\$ 14,462.00
PS-2	Sump Pump	Replace with heavy duty commercial duplex system.	1.00	LS	\$ 5,600.00	\$ 5,600.00	1.033	\$ 5,784.80
PS-3	Domestic Water Pipe	Replace with copper pipe.	20000.00	SF	\$ 3.25	\$ 65,000.00	1.033	\$ 67,145.00
PS-4	Water Meter Isolation Valves	Replace three (3), 3" gate valves.	3.00		\$ 2,750.00	,	1.033	\$ 8,522.25
PS-5	Sanitary Pipe	Replace accessible portions.	10000.00	SF	\$ 4.25	\$ 42,500.00	1.033	\$ 43,902.50
PS-6	Water Cooler	Add two (2) new water coolers.	2.00	EA	\$ 4,450.00	\$ 8,900.00	1.033	\$ 9,193.70
Electrical								\$ 149,010.25
ES-1	Electrical Distribution System	Replace the original distribution equipment with new.	1.00	EA	\$ 24,500.00	\$ 24,500.00	1.033	\$ 25,308.50
ES-2	Electrical Panels	Replace the original panels with new, larger panels in new locations.	7.00	EA	\$ 4,875.00	\$ 34,125.00	1.033	\$ 35,251.13
ES-3	Electrical Receptacles/Exit Lighing	Replace all receptacles with tamper resistant type receptacles.	1.00	EA	\$ 2,300.00	\$ 2,300.00	1.033	\$ 2,375.90
ES-6	Exterior Lighting	Replace with more efficient LED fixtures.	7.00	EA	\$ 520.00	\$ 3,640.00	1.033	\$ 3,760.12
ES-8	Uninterruptible Power Supply	Provide 5 kVA UPS to serve Key Fob entry, PA and Phones	1.00	EA	\$ 11,300.00	\$ 11,300.00	1.033	\$ 11,672.90

Angell Elementary School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Propo	sed 2015 Bond Scope
ES-10	Newer TVSS Electrical Panels (New Item)		1.00	EA	\$ 3,000.00	\$ 3,000.00	1.033	\$	3,099.00
ES-11	Newer TVSS Electrical Panels (New Item)	Replace existing TVSS on panels are blown and not protecting circuits	4.00	EA	\$ 2,000.00	\$ 8,000.00	1.033	\$	8,264.00
	Classroom Lighting		17700.00	SF	\$ 6.00	\$ 106,200.00	1.033	\$	109,704.60
	Corridor Lighting		6170.00	SF	\$ 6.00	\$ 37,020.00	1.033	\$	38,241.66
								\$	237,677.81
Air Conditi	oning							•	
								\$	-
Asbestos A	Abatement								
	Asbestos Abatement- flooring, ceiling, etc.		41000.00	SF	\$ 5.00	\$ 205,000.00	1.000	\$	205,000.00
								\$	205,000.00
3. New Cor	nstruction								
New Const									
	Addition: Art room (larger space).		1700.00	SF	\$ 209.00	\$ 355,300.00	1.033	\$	367,024.90
								\$	367,024.90
4. Instructi	onal Technology								
	Educational Technology		1.00	LS	\$ 83,191.43	\$ 83,191.43	1.00	\$	83,191.43
								\$	83,191.43
5. Loose Fi	urnishings/Equipment								
	Equipment		1.00	LS	\$ 134,294.74	\$ 134,294.74	1.00	\$	134,294.74
	Technology Infrastructure		1.00	LS	\$ 137,696.16	\$ 137,696.16	1.000	\$	137,696.16
	Furniture Replacement		1.00	EA	\$ 20,000.00	\$ 20,000.00	1.130	\$	22,600.00
								\$	294,590.90

Site		\$ 64,149.30
Remodeling		\$ 2,901,661.99
New Construction		\$ 367,024.90
Subtotal		\$ 3,332,836.19
Construction Contingency	7.5%	\$ 249,962.71
Subtotal		\$ 3,582,798.90
CM Fees and Costs	5.5%	\$ 197,053.94
Subtotal		\$ 3,779,852.84
Architectural Fees and Costs	6.5%	\$ 245,690.43
Instructional Technology		\$ 83,191.43
Loose Furnishing/Equipment		\$ 294,590.90
Total Project Cost		\$ 4,403,325.61

\$

3,710,618.52

Project 1

Name of School Building
Angell Elementary School

- List # of Capacity Existing/Adequate Capacity Teaching X **Factor Stations** X (K-2) Lower Elementary 20 0 X 0 (3-5) Upper Elementary 25 (6-8) Junior High 22.5 0 (9-12) High School 21.25 0 **Sub Totals** 0 0
- List # of Capacity Remodeled Capacity Teaching X **Factor Stations** X = (K-2) Lower Elementary 10 20 200 X 9 (3-5) Upper Elementary 25 225 X (6-8) Junior High 22.5 0 0 (9-12) High School 21.25 **Sub Totals** 19 425

- 1 List the number of teaching station 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 and site plan of the building. Show the rooms and category (adequate, remodeled, proposed new, closed). Number the teaching stations in consecutive order.

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

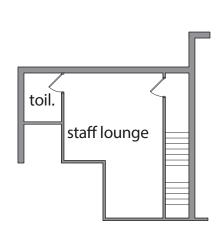
Total Teaching Stations	19	Total Capacity	425
Current Gr. Structure	K-5	Projected	
		5-Year	422
Proposed Gr. Structure	K-5	Enrollment	

Utilization Percentage	99%
(Projected 5-Year Enrollment / Total Capacity)	99/0

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

Square Footage for Closed Facility	Total Capacity	0
---------------------------------------	-------------------	---

Please transfer applicable information to the Utilization Summary on Page 7 of the application.

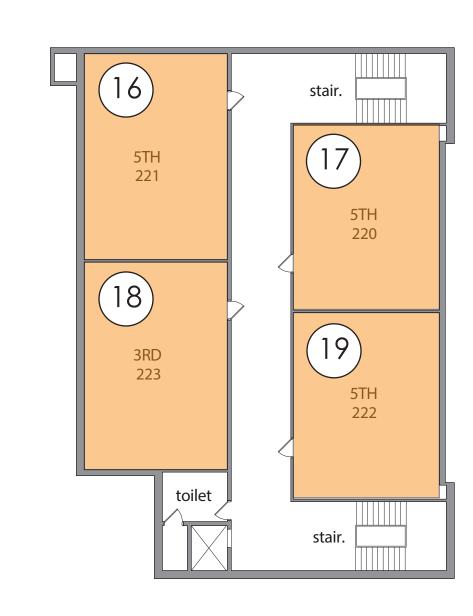


mezzanine

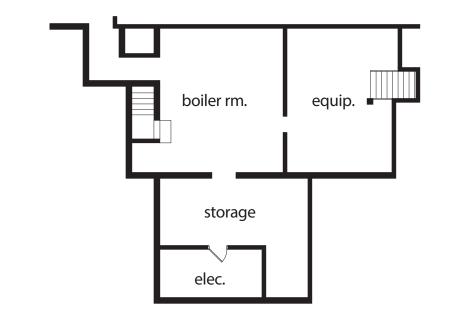
Art -1,700 ASF Addition



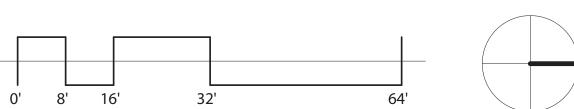
first floor

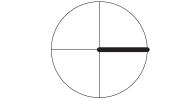


second floor















Site Plan Concept for:

Angell Elementary School Berkley School District

Berkley, Michigan





	Fac	sility Condition Assessment			
Project Number 1			Angell Elemer	ntary Sch	nool
	f the facility including special-use area e following assessment form by respon	as such as the cafeteria, art rooms, industrial arts areas, and and to ALL statements.	Please provide an over of each section or condeficiencies or special	mment on	any
Health Section			Yes	No	N/A
	ot exist due to past or present water/r	noisture leaks.	X		
2. Indoor surfaces are free of lo			X		
3. Air temperature is comfortat4. Unique/objectionable odors	ole throughout the building. are not present in specific areas or thr	and the second district the second district to		X	
	building. Lack of adequate fresh air ventilation		,	1	
Life Safety Section			Yes	No	N/A
	nt at each entrance/exit and are clearly		X		
	is present in kitchen, science rooms a	and corridors.	X	.,	
3. Washroom facilities have ba4. Building access is limited to	· · · · · · · · · · · · · · · · · · ·		X	Х	
Washrooms have limited barrier free acce				1	
Structural Section			Yes	No	N/A
	show visible signs of cracks beyond r		X		
2. Surface cracks do not exist a3. Roof structure does not show	around perimeter of interior/exterior do	oors and windows.	X		
	d does not show visible deterioration b	pevond normal aging.	X		
Mechanical Section 1. Windows and exterior doors	prevent inefficient air leakage.		Yes X	No	N/A
l	sh hands, supply water fountains, and	I flush toilets.	Х		
Water drains quickly from sit			X		
Floor area near toilets and s Overall assessment or comments:	nks is dry.		X		
Electrical Section			Yes	No	N/A
	equate intensity, diffusion, and distribu	ution of illumination.	X		
Electrical controls are safely Classrooms have sufficient of	protected and accessible. Dutlets to prevent regular use of electr	ical autonoian cardo	X		
	stems or panels is dry and free of sta		X		
Overall assessment or comments:	j	ficate by Registered Architect			
I certify that I have assessed the factors of		e to the facility are true and correct to the best of my knowledge and belief	f.		
·	Lee A. Andrea, AIA	Stantec Architectu		45478	
Signature	Printed Name		lame and License Number		
1/5/2015	lee.andrea@stantec.com	248.336.4881	248.336.4880		
Date	E-mail Address	Fax Number Area C	code and Telephone Number	er	

3881 Page 4

			Project She	eet		
Project No.	o. 2					
Name of S	School Building:		E	Burton Eleme	entary School	
		•				
	on of Proposal or S	-	-		Instructional Technolog	
remodeling of program delifire alarm sys HVAC, including rep coolers. Rep	of interior and exterior livery. Remodeling to n ystem, emergency light uding replacement of u placement of domestic	ure vestibule, office and Art Room. Of building. Renovation to improve meet code and safety requirements. ting, and phone systems. Mechanica unit ventilators. Upgrades to plumbing water and sanitary pipe, sump pum I distribution system, panels, receptates abatement.	Security and Upgrades to al upgrades to ng system np and water	Interactive cla devices.	assroom audio visual equipme	nt and student computing
					Site Work Descri	iption
				Site work asso	ociated with new addition.	
Type of P	roject:					
	New Building	→ New Construction Square Ft			Cost per Sq Ft	
	Addition(s)	→ New Addition Square Ft.		1,320	Cost per Sq Ft \$ 2	16
	Remodeling	· -				
	✓ Technology and/	or Buses				
	✓ Site Work☐ Facility Closing	→ ○ Demolish ○	Retain for futu	100 () Cor	nvert to non-instructional	
	Facility Closing	Sell or Lease			Tivore to non medicine	
(ex: asbe	estos, energy use	y existing environmental on e, or ADA requirements) of mechanical systems with newer, r			e proposed project wi	II address.
Estimated	d Cost of Propos	sed Construction Project:	(Attach an	alysis sho	wing how cost estima	tes were calculated.)
		Total	Proposal	/Series 1	Proposal/Series 2	Proposal/Series 3
New Constr	ruction	\$284,984		\$284,984		
Remodeling	g	\$3,289,018		\$3,289,018		
	on Contingencies	\$269,596		\$269,596		
	al Technology	\$97,992		\$97,992		
	nishing/Equipment	\$342,981		\$342,981		
Buses Site Work		\$0 \$20,609		\$0		
Site Work Site Acquisi	Hion	\$20,608 \$0		\$20,608 \$0		-
•	ral Fees and Costs	\$264,988	-	\$264,988		
CM Fees an		\$212,531		\$212,531		
Estimated C	Costs lection or bond issuance cost	\$4,782,699	\$	4,782,699	\$0	<u> </u>
		Certificate	e by Registe	red Archite	ect	
I certify that the o	details of the proposed project	ct(s) described above and the attached detail re	elative to the constru	ction project(s) are	true and correct to the best of my know	rledge and belief.
		Lee A. Andrea,	AIA		Stantec Arch	nitecture, Inc. 45478
Signature	-	Printed Name				d License Number
1/5/2015		lee andrea@sta	antec com	248 336 4881	248 336 488	Λ

E-mail Address

Fax Number

Area Code and Telephone Number

Date



BERKLEY SCHOOL DISTRICT MAY 2015 BOND PROGRAM

Burton Elementary School

No.	Item/Description	Action	Qty.	Unit	Unit Cost		Subtotal	Indirect Cost	Propo	sed 2015 Bond Scope
Site W	/ork									
ite Wor	k									
	Sitework for addition		1	EA	\$ 19,950.0	0 \$	19,950.00	1.033	\$	20,608.35
									\$	20,608.3
Remo										
	Architectural Replacement						,			
BE-01	Overhangs/Soffits	Provide aluminum soffit panels.	1,270	SF	\$ 20.0	0 \$	25,400.00	1.033	\$	26,238.20
BE-02	Brick Veneer at Base of Walls	Control roof drainage where possible and replace brick.	1,200	SF	\$ 15.0	0 \$	18,000.00	1.033	\$	18,594.00
BE-07	Steel Doors and Frames	Replace with aluminum frames and fiberglass reinforced panel doors with side lights to reduce door widths.	4	EA	\$ 3,427.5	0 \$	13,710.00	1.033	\$	14,162.43
BE-08	Gutters	Partial replacement	1	LS	\$ 3,000.0	0 \$	3,000.00	1.033	\$	3,099.00
BE-09	Entrance Canopy Soffits	Provide aluminum soffit panels.	150	SF	\$ 28.3	4 \$	4,250.25	1.033	\$	4,390.51
BE-10	Brick and Mortar	Replace brick.	250	SF	\$ 50.0	0 \$	12,500.00	1.033	\$	12,912.50
BE-11	Glass Block Window	Replace glass block window	50	SF	\$ 70.0	0 \$	3,500.00	1.033	\$	3,615.50
BE-12	Clerestory Windows	Replace with aluminum frames and insulating glass.	1,200	LF	\$ 80.0	0 \$	96,000.00	1.033	\$	99,168.00
	,	3							\$	182,180.14
nterior A	Architectural Replacement									
BI-04	Water Leaks	Investigate cause and correct leaks.	1	LS	\$ 25,000.0	0 \$	25,000.00	1.033	\$	25,825.00
AB-08	Boy's and Girl's Toilet Rooms	Provide new plumbing fixtures, lighting, floor/wall/ceiling finishes, stalls and automatic door operators.	1,135	SF	\$ 71.2	0 \$	80,812.00	1.033	\$	83,478.80
BI-01	Original Wood Doors and Frames	Replace with wood doors and hardware.	55	EA	\$ 1,310.4	5 \$	72,074.75	1.033	\$	74,453.22
BI-07	Original Sloped Acoustical Tile Ceilings	Replace with acoustical panels with concealed grid and new lighting (existing AC tile to remain).	16,675	SF	\$ 5.5	0 \$	91,712.50	1.033	\$	94,739.01
BI-03	Corridor Carpet	Replace carpet and resilient base.	6,780	SF	\$ 4.5	0 \$	30,510.00	1.033	\$	31,516.83
	Classroom Flooring	Assoicated with mechanical system replacement	23,700	SF	\$ 4.5	0 \$	106,650.00	1.033	\$	110,169.45
	Corridor Ceilings	Assoicated with mechanical system replacement	6,780	SF	\$ 4.5	0 \$	30,510.00	1.033	\$	31,516.83
	Visual Display Boards	Assoicated with mechanical system replacement	32	CR	\$ 1,200.0		38,400.00	1.033	\$	39,667.20
	Classroom Painting	Assoicated with mechanical system replacement	32	CR	\$ 600.0		19,200.00	1.033	\$	19,833.60
	Bookshelves	Assoicated with mechanical system replacement	32	CR	\$ 750.0		24,000.00	1.033	\$	24,792.00
	VUV wall opening	Assoicated with mechanical system replacement	32	CR	\$ 3,000.0	0 \$	96,000.00	1.033	\$	99,168.00
Academ	nic Program Improvements								\$	635,159.94
	Addition/renovation at current office: New Secure vestibule and entry, reconfigured office		840	SF	\$ 150.0	0 \$	126,000.00	1.033	\$	130,158.00
	Addition/renovation at 211 above (music room): New entry, secure vestibule and office on level 1; art room on level 2 (larger space).		840	SF	\$ 150.0	0 \$	126,000.00	1.033	\$	130,158.00
	Relocate music to room 118 (current ASD classroom).		1,100	SF	\$ 50.0	0 \$	55,000.00	1.033	\$	56,815.00
	Relocate ASD program to room 119 (current art).		1,100	SF	\$ 120.0		132,000.00	1.033	\$	136,356.00
	1								\$	453,487,00

Burton Elementary School

No.	Item/Description	Action	Qty.	Unit	Unit Cos	t	Subtotal	Indirect Cost	Pro	posed 2015 Bond Scope
AB-04	Stair Guardrail/Handrail	Add guardrails/handrails	64	LF	\$ 175	00	\$ 11,200.00	1.033	\$	11,569.60
AB-05	Barrier Free Toilet Room Doors	Add automatic door operators.	2	EA	\$ 2,700	00	\$ 5,400.00	1.033	\$	5,578.20
AB-10	Emergency Egress	Add emergency egress window (requires modifications to masonry wall).	1	LS	\$ 5,500	00	\$ 5,500.00	1.033	\$	5,681.50
Building	Systems Replacement/ Energy Efficiency								\$	22,829.30
	i i	Install you addressable system	49000	SF	s 1	75	e e 750.00	1.033	T.	88.579.75
	Fire Alarm System	Install new addressable system			,		\$ 85,750.00		\$,
	Emergency Lighting	Install new units in existing fixtures	52	EA	\$ 300	-	\$ 15,600.00	1.033	\$	16,114.80
BS-3	Boiler Room EPO	Install Boiler Room EPO system.	1	LS	\$ 2,720	00	\$ 2,720.00	1.033	\$	2,809.76
BS-4	Phone System - Alarms	Review all alarm sensors, replace bad alarm sensors and install fire/smoke alert sensors in all buildings. Includes boilers, refrigerators, panic buttons, sump pumps, carbon monoxide, headend environmental sensors, etc. Test and corrective actions in budget.	1	EA	\$ 5,000	00	\$ 5,000.00	1.033	\$	5,165.00
Maabania									\$	112,669.31
Mechanic	Mechanical Systems		49000	SF	\$ 24	00	\$ 1,176,000.00	1.033	\$	1,214,808.00
					,		.,,		\$	1,214,808.00
Plumbin	<u> </u>									
PS-1	Sump Pump	Rebuild existing unit.	1	LS	\$ 6,700	00	\$ 6,700.00	1.033	\$	6,921.10
PS-2	Domestic Water Pipe	Replace with copper pipe.	20000	SF	\$ 3	75	\$ 75,000.00	1.033	\$	77,475.00
PS-3	Water Meter Isolation Valves	Replace three (3), 3" gate valves.	3	EA	\$ 2,750	00	\$ 8,250.00	1.033	\$	8,522.25
PS-4	Sanitary Pipe	Replace accessible portions.	10000	SF	\$ 4	00	\$ 40,000.00	1.033	\$	41,320.00
PS-5	Water Cooler	Provide new bi-level electric water coolers.	3	EA	\$ 4,450	00	\$ 13,350.00	1.033	\$	13,790.55
						\Box			\$	148,028.90
Electrica					1	-		T .	1	
ES-1	Electrical Distribution System	Original electrical distribution equipment is obsolete and a safety concern.	1	EA	\$ 15,900	00	\$ 15,900.00	1.033	\$	16,424.70
ES-2	Electrical Panels	Original electrical panels are obsolete and are sometimes located behind doors.	8	EA	\$ 4,875	00	\$ 39,000.00	1.033	\$	40,287.00
ES-5	Exterior Lighting	Lighting fixtures are in disrepair.	7	EA	\$ 520	00	\$ 3,640.00	1.033	\$	3,760.12
ES-7	Uninterruptible Power Supply	Maintain operation during power interruptions	1	EA	\$ 11,655	00	\$ 11,655.00	1.033	\$	12,039.62
ES-8	Newer TVSS Electrical Panels (New Item)		1	EA	\$ 3,000	00	\$ 3,000.00	1.033	\$	3,099.00
ES-9	Newer TVSS Electrical Panels (New Item)	Replace existing TVSS on panels are blown and not protecting circuits	5	EA	\$ 2,000	00	\$ 10,000.00	1.033	\$	10,330.00
	Corridor Lighting		6780	SF		00	\$ 40,680.00	1.033	\$	42,022.44
	Classroom Lighting		23700	EA	\$ 6	00	\$ 142,200.00	1.033	\$	146,892.60
									\$	274,855.48

Burton Elementary School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
Air Cond	litioning							
								\$ -
Asbesto	s Abatement							
	Asbestos Abatement- flooring, ceiling, etc.		49000	SF	\$ 5.00	\$ 245,000.00	1.000	\$ 245,000.00
								\$ 245,000.00
3. New C	Construction							
New Cor	nstruction							
	Addition/renovation at current office: New Secure vestibule and entry, reconfigured office		660	SF	\$ 209.00	\$ 137,940.00	1.033	\$ 142,492.02
	Addition/renovation at room 211 above (music room): New entry, secure vestibule and office on level 1; art room on level 2 (larger space).		660	SF	\$ 209.00	\$ 137,940.00	1.033	\$ 142,492.02
								\$ 284,984.04
4. Instru	ctional Technology				•			
	Educational Technology		1	LS	\$ 97,992.16	\$ 97,992.16	1.000	\$ 97,992.16
	•,							\$ 97,992.16
5. Loose	Furnishings/Equipment		•		•	•		
	Equipment		1	LS	\$ 158,187.34	\$ 158,187.34	1.000	\$ 158,187.34
	Technology Infrastructure		1	LS	\$ 162,193.92	\$ 162,193.92	1.000	\$ 162,193.92
			1	EA	\$ 20,000.00	\$ 20,000.00	1.130	\$ 22,600.00
						,		\$ 342,981.26

Site		\$ 20,608.35
Remodeling		\$ 3,289,018.06
New Construction		\$ 284,984.04
Subtotal		\$ 3,594,610.45
Construction Contingency	7.5%	\$ 269,595.78
Subtotal		\$ 3,864,206.23
CM Fees and Costs	5.5%	\$ 212,531.34
Subtotal		\$ 4,076,737.57
Architectural Fees and Costs	6.5%	\$ 264,987.94
Instructional Technology		\$ 97,992.16
Loose Furnishing/Equipment		\$ 342,981.26

Total Project Cost \$ 4,782,698.94

\$ 4,035,583.87

Project 2

Name of School Building
Burton Elementary School

- List # of Capacity Existing/Adequate Capacity Teaching X **Factor Stations** X (K-2) Lower Elementary 20 0 X 0 (3-5) Upper Elementary 25 (6-8) Junior High 22.5 0 (9-12) High School 21.25 0 **Sub Totals** 0 0
- List # of Capacity Remodeled Capacity Teaching X **Factor Stations** X = (K-2) Lower Elementary 12 20 240 X (3-5) Upper Elementary 10 25 250 X (6-8) Junior High 22.5 0 0 (9-12) High School 21.25 **Sub Totals** 22 490

- 1 List the number of teaching station 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 and site plan of the building. Show the rooms and category (adequate, remodeled, proposed new, closed). Number the teaching stations in consecutive order.

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

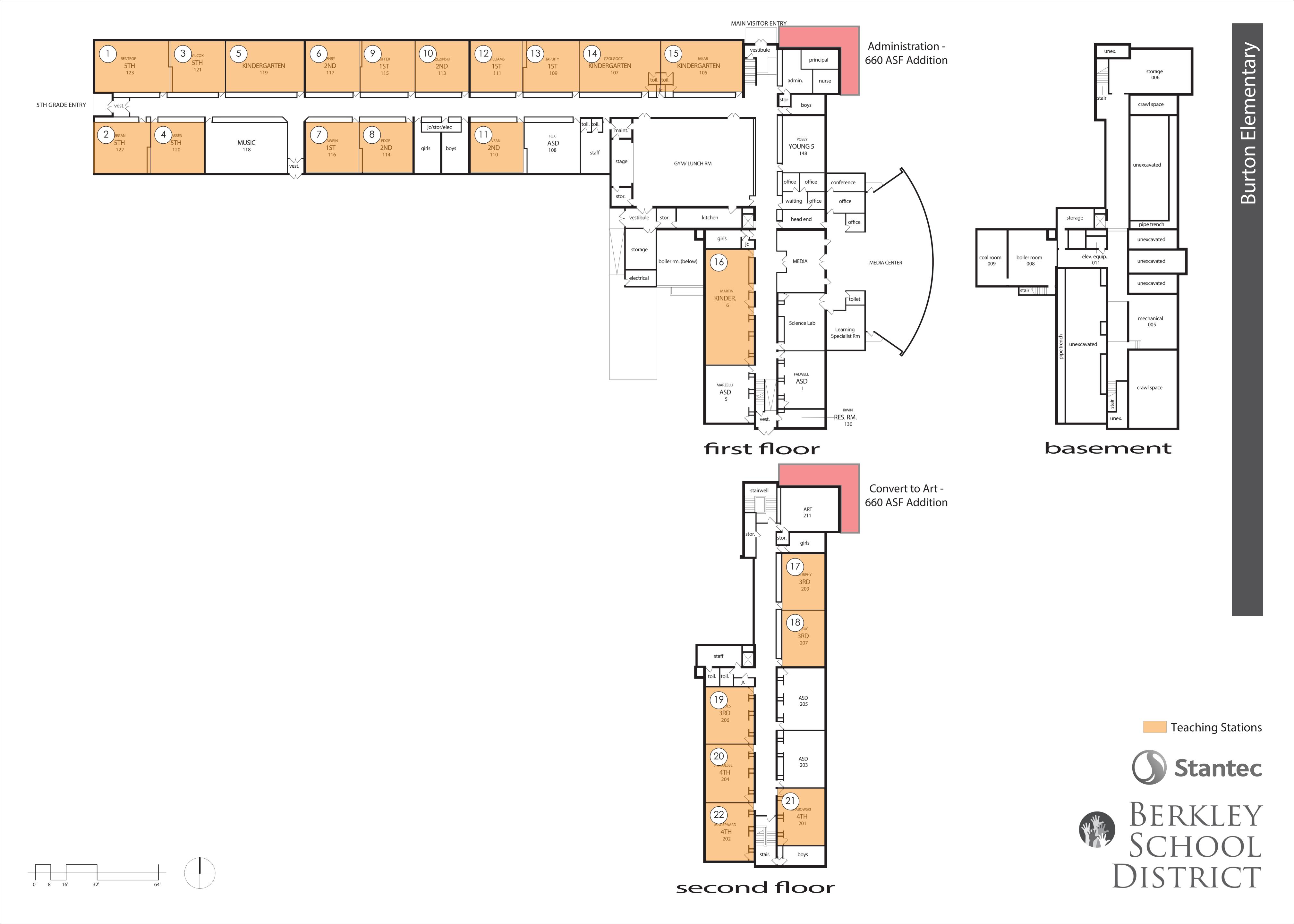
Total Teaching Stations	22	Total Capacity	490
Current Gr. Structure	K-5	Projected 5-Year	491
Proposed Gr. Structure	K-5	Enrollment	491

Utilization Percentage	100%
(Projected 5-Year Enrollment / Total Capacity)	100 /6

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

Square Footage for Closed Facility		Total Capacity	0
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Please transfer applicable information to the Utilization Summary on Page 7 of the application.





Site Plan Concept for:

Burton Elementary School Berkley School District

Berkley, Michigan





	Facili	y Condition Assessment						
Project Number 2			Burton Elemen	ntary Sch	nool			
	nspection of the facility including special-use areas complete the following assessment form by respond	such as the cafeteria, art rooms, industrial arts areas, and ing to ALL statements.	of each section or co	rovide an overall asse section or comment on cies or special circums				
Health Section			Yes	No	N/A			
		into un la plus		INO	IN/A			
	age does not exist due to past or present water/mo	isture leaks.	X					
	are free of loose and peeling paint. s comfortable throughout the building.			Х				
	s connortable throughout the building. able odors are not present in specific areas or throu	ishout the building		X				
Air temperature is inconsist	ent throughout building. Lack of adequate fresh air ventilation le	ads to odors						
Life Safety Section			Yes	No	N/A			
			X					
		d corridors.	X					
	<u> </u>			X				
Structural Section			Yes	No	N/A			
			X					
		s and windows.	X					
			X					
			Yes	No	N/A			
		and the Martin	X					
		usn tollets.	X					
			X					
	· · · · · · · · · · · · · · · · · · ·							
Electrical Section			Yes	No	N/A			
		on of illumination.	X					
	7 1		X					
			X					
	, , ,	ing water.	X	1				
Overall assessment of con		ate by Registered Architect						
I certify that I have assesse	d the factors described above and that the conditions relative to	the facility are true and correct to the best of my knowledge and belief.						
	Lee A. Andrea, AlA	Stantec Architecture,	Inc.	45478				
Signature	Printed Name	Firm Nam	ne and License Number					
1/5/2015	lee.andrea@stantec.com	248,336,4881	248.336.4880					
Date	Lighted exit signs are present at each entrance/exit and are clearly visible. Fire suppression equipment is present in kirchen, science rooms and corridors. Washroom facilities have barrier free accessibility. Building access is limited to select, controlled entries. 2 yooms have limited barrier free accessibility. Inside masonry walls do not show visible signs of cracks beyond normal aging. Surface cracks do not exist around perimeter of interior/exterior doors and windows. 2 you foot structure does not show visible signs of damage. Building exterior is intact and does not show visible deterioration beyond normal aging. 2 you will not be surface or the surface of a damage. Building exterior is intact and does not show visible deterioration beyond normal aging. 2 you will not be surface or the surface of the			er				

3881 Page 4

			Project She	et		
Project No.	. 3					
Name of So	chool Building:		Pa	attengill Elem	entary School	
	n of Proposal or S	-			Instructional Technolog	
interior and e delivery. Rem system, emer Upgrades to pipe, sump p	exterior of building. Remodeling to meet code ergency lighting, and p plumbing system included pump and water cooler	ure vestibule and office. General re enovation to improve security and perand safety requirements. Upgrad shone systems. Mechanical system uding replacement of domestic waters. Replacement of electrical distributed in the lighting fixtures. Asbestos abate	program les to fire alarm upgrades. ter and sanitary pution system,	Interactive cla devices.	issroom audio visual equipme	nt and student computing
					Site Work Descr	- iption
				Site work asso	ociated with new addition and	
Type of P						
	New Building	→ New Construction Square Ft		1 200	Cost per Sq Ft	
	✓ Addition(s)	→ New Addition Square Ft.		1,300	Cost per Sq Ft \$ 2	16
	Remodeling	/ Dunga				
	✓ Technology and/	or Buses				
	✓ Site Work	· Operation (> = - 1 - 1	- Cor	the man instructional	
	Facility Closing	<u> </u>		re use 🔾 🗤	nvert to non-instructional	
		Sell or Lease) Undetermineu			
Statemen	t describing any	y existing environmental o	or usability p	roblems th	e proposed project w	ill address.
(ex: asbes	stos, energy use	e, or ADA requirements)			<u> </u>	
Asbestos aba	atement, replacment of	of mechanical systems with newer,	more efficient sy	stems.		
Estimated	d Cost of Propos	sed Construction Project:	(Attach an	alysis show	wing how cost estima	tes were calculated.)
		Total	Proposal/	Series 1	Proposal/Series 2	Proposal/Series 3
	**	#200.00C		****		
New Constru		\$280,666		\$280,666		
Remodeling		\$2,988,140		\$2,988,140		
	n Contingencies	\$248,228	-	\$248,228		-
	al Technology ishing/Equipment	\$94,017 \$329,986		\$94,017 \$329,986		
Buses	Siling/Equipment	\$0		\$029,960	-	-
Site Work		\$40,907		\$40,907		
Site Work	ition	\$0,907		\$0,907		
•	al Fees and Costs	\$243,986		\$243,986	-	
CM Fees and		\$195,687		\$195,687		
Estimated C (Not including ele	Costs ection or bond issuance cost	\$4,421,618	\$4	4,421,618	\$0	\$0
			te by Registe			
I certify that the d	letails of the proposed project	ct(s) described above and the attached detail	relative to the construc	ction project(s) are	true and correct to the best of my know	vledge and belief.
Signature		Lee A. Andrea, Printed Name	AIA			hitecture, Inc. 45478 nd License Number
1/5/2015		lee andrea@sta	antec com	248 336 4881		

E-mail Address

Fax Number

Area Code and Telephone Number

Date



BERKLEY SCHOOL DISTRICT MAY 2015 BOND PROGRAM

Pattengill Elementary School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Propo	osed 2015 Bond Scope
1. Site W Site Wor									
BE-11	Earthwork for addition and Site Drainage		2,640	SF	\$ 15.00	\$ 39,600.00	1.033	\$	40,906.80
								\$	40,906.80
2. Remod	deling			L					
Exterior	Architectural Replacement								
BE-01	Overhangs/Soffits	Provide aluminum soffit panels.	1,450	SF	\$ 31.47	\$ 45,625.00	1.033	\$	47,130.63
BE-02	Stone Veneer	Replace stone.	50	SF	\$ 75.00	\$ 3,750.00	1.033	\$	3,873.75
BE-04	Roof Fascia	Replace fascia, correct roof drainage, replace wall in Boiler Room	1	LS	\$ 2,000.00	\$ 2,000.00	1.033	\$	2,066.00
BE-05	Brick Veneer at Parapet	Replace brick	350	SF	\$ 25.00	\$ 8,750.00	1.033	\$	9,038.75
BE-06	Entrance Canopy Soffits	Provide aluminum soffit panels.	950	SF	\$ 20.00	\$ 19,000.00	1.033	\$	19,627.00
BE-07	Brick Veneer	Control roof drainage where possible and replace brick.	100	SF	\$ 15.00	\$ 1,500.00	1.033	\$	1,549.50
BE-09	Metal Stair Treads	Replace with aluminum treads and replace concrete.	36	LF	\$ 82.24	\$ 2,960.52	1.033	\$	3,058.22
BE-10	Stone Window Sills	Replace sills and sealant.	75	LF	\$ 30.00	\$ 2,250.00	1.033	\$	2,324.25
								\$	88,668.09
Interior A	Architectural Replacement								
BI-04	Water Leak	Correct water leak.	1	LS	\$ 1,500.00	\$ 1,500.00	1.033	\$	1,549.50
AB-09	Boy's and Girl's Toilet Rooms	Provide new plumbing fixtures, lighting, floor/wall/ceiling finishes, stalls and automatic door operators.	1,920	SF	\$ 71.20	\$ 136,704.00	1.033	\$	141,215.23
BI-01	Original Wood Doors and Frames		45	EA	\$ 1,301.66	\$ 58,574.70	1.033	\$	60,507.67
BI-03	Carpet	Replace carpet and resilient base.	6,340	SF	\$ 4.50	\$ 28,530.00	1.033	\$	29,471.49
	Corridor Ceilings	Assoicated with mechanical system replacement	6,340	SF	\$ 4.50	\$ 28,530.00	1.033	\$	29,471.49
•	Classroom Ceilings	Assoicated with mechanical system replacement	19,000	SF	\$ 5.50	\$ 104,500.00	1.033	\$	107,948.50
	Classroom Flooring	Assoicated with mechanical system replacement	19,000	SF	\$ 4.50	\$ 85,500.00	1.033	\$	88,321.50

Pattengill Elementary School

No.	Item/Description	Action	Qty.	Unit		Unit Cost	5	Subtotal	Indirect Cost	Pro	posed 2015 Bond Scope
	Visual display boards	Assoicated with mechanical system replacement	24	CR	\$	1,200.00	\$	28,800.00	1.033	\$	29,750.40
	Painting	Assoicated with mechanical system replacement	24	CR	\$	600.00	\$	14,400.00	1.033	\$	14,875.20
	Bookshelves	Assoicated with mechanical system replacement	24	CR	\$	750.00	\$	18,000.00	1.033	\$	18,594.00
	VUV wall opening	Assoicated with mechanical system replacement	24	CR	\$	3,000.00	\$	72,000.00	1.033	\$	74,376.00
										\$	596,080.98
Academ	ic Program Improvements										
	Renovate room 104 (music) to therapist office and resource room.		800	SF	\$	120.00	\$	96,000.00	1.033	\$	99,168.00
	Renovate current admin office, speech therapist office and resource room into music room (larger space)		1,200	SF	\$	120.00	\$	144,000.00	1.033	\$	148,752.00
										\$	247,920.00
Code/ Sa	fety										
AB-01	Built-in Storage Cabinet	Provide fire rated door and frame.	1	EA	\$	2,350.00	\$	2,350.00	1.033	\$	2,427.55
AB-02	Classroom Exits	Provide additional exit door to corridor.	5	EA	\$	4,800.00	\$	24,000.00	1.033	\$	24,792.00
AB-04	Stair Guardrail	Add guardrails.	64	LF	\$	157.81	\$	10,099.84	1.033	\$	10,433.13
AB-06	Kiln	Assure kiln is not in use when room is used for instructional purposes. Add sprinklers and stainless steel exhaust hood.	1	LS	\$	13,350.00	\$	13,350.00	1.033	\$	13,790.55
AB-07	Classroom Exits	Provide additional exit door to corridor.	1	EA	\$	4,800.00	\$	4,800.00	1.033	\$	4,958.40
										\$	56,401.63
Building	Systems Replacement/ Energy Efficiency			•	•						
BS-1	Fire Alarm System	Install new addressable system	46000	SF	\$	1.75	\$	80,500.00	1.033	\$	83,156.50
BS-2	Emergency Lighting	Install new units in existing fixtures	50	EA	\$	300.00	\$	15,000.00	1.033	\$	15,495.00
BS-3	Boiler Room EPO	Install Boiler Room EPO system.	1	LS	\$	2,720.00	\$	2,720.00	1.033	\$	2,809.76

Pattengill Elementary School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost		I 2015 Bond cope
BS-4	Phone System - Alarms	Review all alarm sensors, replace bad alarm sensors and install fire/smoke alert sensors in all buildings. Includes boilers, refrigerators, panic buttons, sump pumps, carbon monoxide, headend environmental sensors, etc. Test and corrective actions in budget.	1	EA	\$ 5,000.00	\$ 5,000.00	1.033	\$	5,165.00
								\$	106,626.26
Mechan					T	I	T		10= 0=0 00
	Mechanical System replacement		46000	ST	\$ 25.00	\$ 1,150,000.00	1.033		187,950.00 ,187,950.00
Plumbin	ng				ļ			Ψ 1	,107,930.00
PS-1	Sump Pump/Drain Tile	Add drain tile and sump pump to serve this area.	1	LS	\$ 14,000.00	\$ 14,000.00	1.033	\$	14,462.00
PS-2	Sump Pump	Replace with heavy duty commercial duplex sump system.	1	LS	\$ 5,600.00	\$ 5,600.00	1.033	\$	5,784.80
PS-3	Domestic Water Pipe	Replace with copper pipe.	30000	SF	\$ 3.75	\$ 112,500.00	1.033	\$	116,212.50
PS-4	Water Meter Isolation Valves	Replace three (3), 3" gate valves.	6	EA	\$ 2,750.00	\$ 16,500.00	1.033	\$	17,044.50
PS-5	Sanitary Pipe	Replace accessible portions.	10000	SF	\$ 4.75	\$ 47,500.00	1.033	\$	49,067.50
PS-6	Water Cooler	Replace with new bi-level water coolers.	4	EA	\$ 4,450.00	\$ 17,800.00	1.033	\$	18,387.40
								\$	220,958.70
Electric	al T			1		I	T	I	
ES-1	Electrical Distribution System	Replace the original distribution equipment with new.	1	EA	\$ 25,600.00	\$ 25,600.00	1.033	\$	26,444.80
ES-2	Electrical Panels	Replace the original panels with new, larger panels in new locations.	8	EA	\$ 4,875.00	\$ 39,000.00	1.033	\$	40,287.00
ES-5	Exterior Lighting	Replace with more efficient LED fixtures.	7	EA	\$ 691.42	\$ 4,839.94	1.033	\$	4,999.66
ES-7	Uninterruptible Power Supply	Provide 5 kVA UPS to serve Key Fob entry, PA and Phones	1	EA	\$ 11,300.00	\$ 11,300.00	1.033	\$	11,672.90
ES-8	Newer TVSS Electrical Panels (New Item)		1	EA	\$ 3,000.00	\$ 3,000.00	1.033	\$	3,099.00

Pattengill Elementary School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Sub	total	Indirect Cost	Prop	osed 2015 Bond Scope
ES-9	Newer TVSS Electrical Panels (New Item)	Replace existing TVSS on panels are blown and not protecting circuits	4	EA	\$ 2,000.00	\$	8,000.00	1.033	\$	8,264.00
	Corridor Lighting	Assoicated with mechanical system replacement	6340	SF	\$ 6.00	\$ 3	8,040.00	1.033	\$	39,295.32
	Classroom Lighting	Assoicated with mechanical system replacement	19000	SF	\$ 6.00	\$ 11	4,000.00	1.048	\$	119,472.00
									\$	253,534.68
Air Cond	litioning									
									\$	-
Asbesto	os Abatement					-				
	Asbestos Abatement- flooring,ceiling,etc.		46000	SF	\$ 5.00	\$ 23	0,000.00	1.000	\$	230,000.00
									\$	230,000.00
3. New C	onstruction									
New Con	struction									
	Addition: New entry, security vestibule and main office at SW corner.		1,300	SF	\$ 209.00	\$ 27	1,700.00	1.033	\$	280,666.10
									\$	280,666.10
4. Instruc	ctional Technology		•							
	Educational Technology		1	LS	\$ 94,017.42	\$ 9	4,017.42	1.00	\$	94,017.42
									\$	94,017.42

Pattengill Elementary School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Propo	sed 2015 Bond Scope
5. Loose	5. Loose Furnishings Equipment								
	Equipment		1	LS	\$ 151,770.98	\$ 151,770.98	1.00	\$	151,770.98
	Technology Infrastructure		1	LS	\$ 155,615.04	\$ 155,615.04	1.000	\$	155,615.04
	Furniture Replacement		1	EA	\$ 20,000.00	\$ 20,000.00	1.130	\$	22,600.00
								\$	329,986.02
•	-		•		•	•		\$	3,733,716.68

Site		•	40,906.80
Remodeling		, v	2,988,140.34
· · · · · · · · · · · · · · · · · · ·		Ą	
New Construction		\$	280,666.10
Subtotal		\$	3,309,713.24
Construction Contingency	\$ 0.08	\$	248,228.49
Subtotal		\$	3,557,941.74
CM Fees and Costs	\$ 0.06	\$	195,686.80
Subtotal		\$	3,753,628.53
Architectural Fees and Costs	\$ 0.07	\$	243,985.85
Instructional Technology		\$	94,017.42
Loose Furnishing/Equipment		\$	329,986.02

Total Project Cost 4,421,617.83 Project No. 3

Name of School Building
Pattengill Elementary School

- List # of Capacity **Existing/Adequate** Capacity Teaching X **Factor Stations** X (K-2) Lower Elementary 20 0 X 0 (3-5) Upper Elementary 25 22.5 0 (6-8) Junior High (9-12) High School 21.25 0 **Sub Totals** 0 0
- List # of Capacity Remodeled Capacity Teaching X **Factor Stations** X = 7 20 140 (K-2) Lower Elementary X (3-5) Upper Elementary 6 25 150 X (6-8) Junior High 22.5 0 0 (9-12) High School 21.25 **Sub Totals** 290 13

- 1 List the number of teaching station 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 and site plan of the building. Show the rooms and category (adequate, remodeled, proposed new, closed). Number the teaching stations in consecutive order.

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

Total Teaching Stations	13	Total Capacity	290
Current Gr. Structure	K-5	Projected 5-Year	294
		J- i eai	L 234

Utilization Percentage (Projected 5-Year Enrollment / Total Capacity)

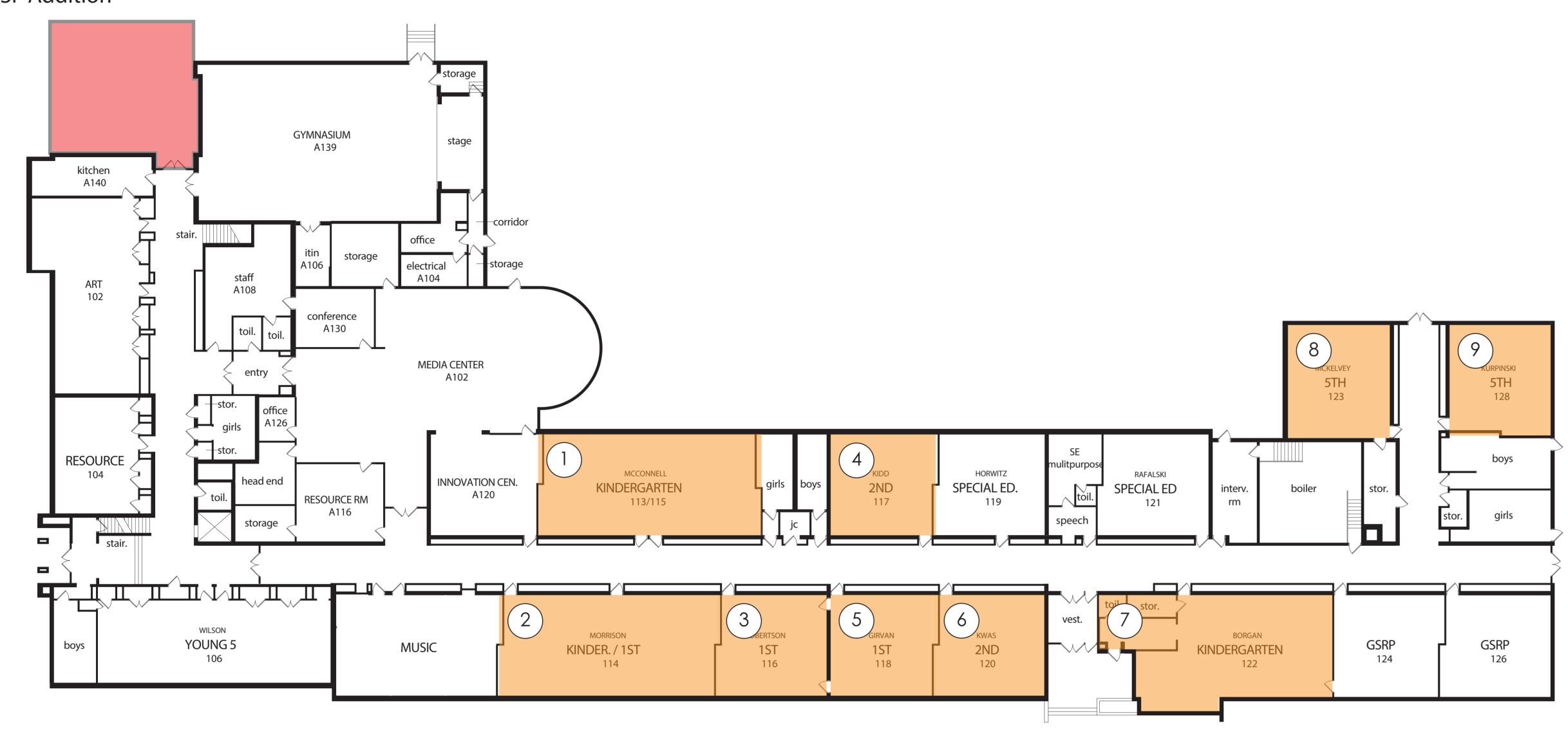
Enrollment

Proposed Gr. Structure

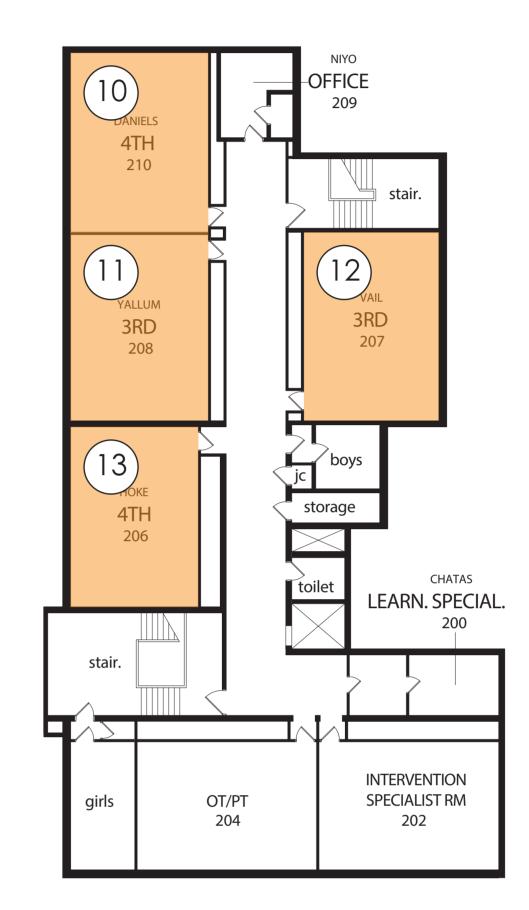
Facility to be Closed	List # of Teaching Stations	X	Capacity Factor	=	Capacity
(K-2) Lower Elementary		X	20	=	0
(3-5) Upper Elementary		X	25	=	0
(6-8) Junior High		X	22.5	=	0
(9-12) High School		X	21.25	=	0
Total Teaching Stations	0				

Square Footage for Closed Facility	Total Capacity	0
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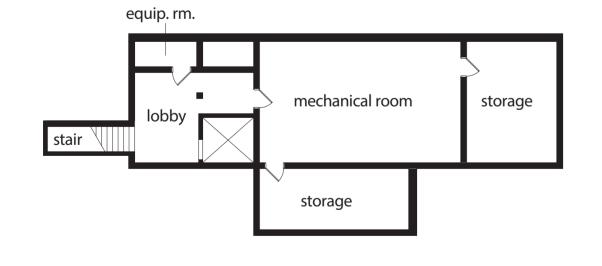
Please transfer applicable information to the Utilization Summary on Page 7 of the application. Administration - 1,300 ASF Addition



first floor



second floor

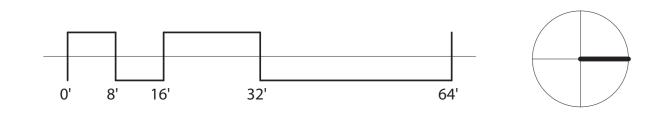


basement











Site Plan Concept for:

Pattengill Elementary School Berkley School District

Berkley, Michigan





Facility Condition Assessn	ment			
Project Number 3		Pattengill Eleme	ntary Sc	hool
Perform walkthrough inspection of the facility including special-use areas such as the cafeteria science labs. Please complete the following assessment form by responding to ALL statement	Please provide an ove of each section or con deficiencies or special	nment on	any	
Health Section		Yes	No	N/A
Visible mold/damage does not exist due to past or present water/moisture leaks.		X		
Indoor surfaces are free of loose and peeling paint.		X		
Air temperature is comfortable throughout the building.			Χ	
4. Unique/objectionable odors are not present in specific areas or throughout the building. Air temperature is inconsistent throughout building. Lack of adequate fresh air ventilation leads to odors			Х	
Life Safety Section		Yes	No	N/A
Lighted exit signs are present at each entrance/exit and are clearly visible.		X		
2. Fire suppression equipment is present in kitchen, science rooms and corridors.		X		
Washroom facilities have barrier free accessibility.			X	
Building access is limited to select, controlled entries. Washrooms have limited barrier free accessibility.		X		
Structural Section		Yes	No	N/A
Inside masonry walls do not show visible signs of cracks beyond normal aging.		X	NO	14/71
Surface cracks do not exist around perimeter of interior/exterior doors and windows.		Х		
Roof structure does not show visible signs of damage.		X		
4. Building exterior is intact and does not show visible deterioration beyond normal aging. Overall assessment or comments:		X		
Mechanical Section		Yes	No	N/A
Windows and exterior doors prevent inefficient air leakage.		Х		
2. Water pressure exists to wash hands, supply water fountains, and flush toilets.		X		
Water drains quickly from sinks.		X		
Floor area near toilets and sinks is dry. Overall assessment or comments:		X		
Electrical Section		Yes	No	N/A
 Lighting system provides adequate intensity, diffusion, and distribution of illumination. Electrical controls are safely protected and accessible. 		X		
Electrical controls are safely protected and accessible. Classrooms have sufficient outlets to prevent regular use of electrical extension cords.		X		
The proximity of electrical systems or panels is dry and free of standing water.		X		
Overall assessment or comments:				
Certificate by Registered Arc				
I certify that I have assessed the factors described above and that the conditions relative to the facility are true and of	, ,		45.470	
Lee A. Andrea, AIA Signature Printed Name	Stantec Architecture, Firm Nar	ne and License Number	45478	
		248.336.4880		
		de and Telephone Number	r	

3881 Page 4

			Project She	eet			
Project No.	4						
Name of Sc	chool Building:		F	Rogers Eleme	entary School		
	chool Building: Rogers Elementary School Tof Proposal or Series 1 Project: Instructional Technology Description Interactive classroom audio visual equipment and student of devices. Interactive classroom audio visual equipment and student of devices. Interactive classroom audio visual equipment and student of devices. Interactive classroom audio visual equipment and student of devices. Interactive classroom audio visual equipment and student of devices. Interactive classroom audio visual equipment and student of devices. Interactive classroom audio visual equipment and student of devices. Interactive classroom audio visual equipment and student of devices. Interactive classroom audio visual equipment and student of devices. Interactive classroom audio visual equipment and student of devices. Interactive classroom audio visual equipment and student of devices. Site Work Description Site work associated with new addition and to improve site of the work associated with new addition and to improve site of the work associated with new addition and to improve site of the work associated with new addition and to improve site of the work associated with new addition and to improve site of the work associated with new addition and to improve site of the work associated with new addition and to improve site of the work associated with new addition and to improve site of the work associated with new addition and to improve site of the work associated with new addition and to improve site of the work associated with new addition and to improve site of the work associated with new addition and to improve site of the work associated with new addition and to improve site of the work associated with new addition and to improve site of the work associated with new addition and to improve site of the work associated with new addition and to improve site of the work associated with new addition and to improve site of the work associated with new addition and to improve site of the work associated with new addition						
interior and ex delivery. Rem system, emerg system and H water and wat	e of School Building: Rogers Elementary School Pription of Proposal or Series 1 Project: Instructional Technology Desc on to provide new entry, Art Room and Kindergarfen. General remodeling of and exterior of building. Renovation to improve security and program ry. Remodeling to meet code and safety requirements. Upgrades to low laarm, memerancy lighting, and phone systems. Mechanical upgrades to bot water and HVAC. Upgrades to plumibing system including replacement of demonstration and HVAC. Upgrades to lighting system including replacement of demonstration and vival explorates to plumibing system including replacement of demonstration and vival explorates to plumibing system including replacement of demonstration and the vival explorates and valet coolers. Replacement of devices. Site Work Description Site work associated with new addition and to improve the wor	and student computing					
					Site Wor	rk Descrip	tion
				Site work asse			
Type of Pr							
	= -				· · · · —	0.16	_
	= ``	→ New Addition Square Ft.		4,200	Cost per Sq Ft \$	216	<u>'</u>
	= -						
	=	/or Buses					
	=	O Damaliah	<u> </u>	- Oco	·		
	Facility Closing	_	_	_	nvert to non-instruc	tional	
		○ Sell or Lease	Undetermined				
				41			
	_	-		roblems th	e proposed pr	oject will	address.
Asbestos aba	tement, replacment	of mechanical systems with new	er, more efficient sy	/stems.			
Setimated	Cost of Propo	and Construction Project	ot: (Attach an	nalveie cha	wing how cost	octimate	o wore calculated)
EStimateu	Cost of Propo	Sea Construction Projec	Ct: (Attacıı an	laiysis silo	Wing now cost	estimate	s were carculated.
		Total	Proposal	/Series 1	Proposal/Se	ries 2	Proposal/Series 3
New Constru	ıction		-				
Remodeling							
	-			\$250,937			
Instructional	Technology	\$68,110	6	-			
Loose Furnis	shing/Equipment	\$269,642	2	\$269,642			
Buses		\$	0				
Site Work		\$116,21	3	\$116,213			
Site Acquisit	ion	\$	0	\$0			
Architectural	I Fees and Costs	\$246,64	8	\$246,648			
CM Fees and	l Costs	\$197,82	2	\$197,822			
Estimated Co (Not including elec			5 \$4	4,378,995		\$0	\$0
		Certific	cate by Registe	red Archite	ect		
I certify that the de	etails of the proposed proje	ect(s) described above and the attached de	etail relative to the constru	ction project(s) are	true and correct to the be-	st of my knowled	dge and belief.
		Lee A Andr	-ΔΙΔ εσ		Sta	entec Archite	ecture, Inc. 45478
Signature							
1/5/2015		lee andrea@	netantec com	248 336 4881	24	8 336 4880	

E-mail Address

Fax Number

Area Code and Telephone Number

Date



BERKLEY SCHOOL DISTRICT 2015 BOND PROGRAM

No.	Item/Description	Action	Qty.	Unit		Unit Cost	Subtotal	Indirect Cost	Pro	posed 2015 Bond Scope
1. Site W	ork				•				,	•
Site Worl	k									
BE-10	Earthwork for addition and Site Drainage	Add landscape drain tile system.	7,500	LF	\$	15.00	\$ 112,500	1.033	\$	116,212.50
									\$	116,212.50
2. Remod	deling									
Exterior	Architectural Replacement									
BE-01	Overhangs/Soffits	Provide aluminum soffit panels.	4,070	SF	\$	23.15	\$ 94,225	1.033	\$	97,334.42
BE-02	Brick Veneer at Base of Walls	Replace brick	250	SF	\$	15.00	\$ 3,750	1.033	\$	3,873.75
BE-04	Steel Lintels at Wall Openings	Recondition lintels	120	SF	\$	10.50	\$ 1,260	1.033	\$	1,301.58
BE-07	Steel Doors and Frames	Replace with aluminum frames and fiberglass reinforced panel doors.	16	EA	\$	3,262.50	\$ 52,200	1.033	\$	53,922.60
BE-08	Entrance Canopy Soffits	Provide aluminum soffit panels.	585	SF	\$	21.03	\$ 12,300	1.033	\$	12,705.54
BE-09	Clerestory Windows	Replace with aluminum frames and insulating glass.	250	SF	\$	80.00	\$ 20,000	1.033	\$	20,660.00
									\$	189,797.90
Interior A	Architectural Replacement									
BI-01	Original Wood Doors and Frames	Replace with wood doors and hardware.	45	EA	\$	1,318.34	\$ 59,325	1.033	\$	61,283.08
	Corridor Ceiling		7,130	SF	\$	4.50	\$ 32,085	1.033	\$	33,143.81
	Classroom Ceiling		19,600	SF	\$	5.50	\$ 107,800	1.033	\$	111,357.40
BI-03	Carpet	Replace carpet and resilient base.	7,130	SF	\$	4.50	\$ 32,085	1.033	\$	33,143.81
	Classroom Flooring	Assoicated with mechanical system replacement	19,600	SF	\$	4.50	\$ 88,200	1.033	\$	91,110.60
	Visual Display Boards	Assoicated with mechanical system replacement	24	CR	\$	1,200.00	\$ 28,800	1.033	\$	29,750.40
	Painting	Assoicated with mechanical system replacement	24	CR	\$	600.00	\$ 14,400	1.033	\$	14,875.20
	Bookshelves	Assoicated with mechanical system replacement	24	CR	\$	750.00	\$ 18,000	1.033	\$	18,594.00
	VUV wall opening	Assoicated with mechanical system replacement	24	CR	\$	3,000.00	\$ 72,000	1.033	\$	74,376.00
									\$	467,634.29

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Pro	oposed 2015 Bond Scope
Academ	ic Program Improvements								
	Renovate room 26 (current art) to kindergarten.		1,200	SF	\$ 50.00	\$ 60,000	1.033	\$	61,980.00
	Renovate rooms 5/7 (current kindergarten) to MP room/overflow cafeteria/ large group instruction		1,560	SF	\$ 120.00	\$ 187,200	1.033	\$	193,377.60
	Renovate room 16 and adjacent El room to support staff/resource room (larger space than in media center)		830	SF	\$ 150.00	\$ 124,500	1.033	\$	128,608.50
	Renovate vestibule at main office to improve visibility and security		1	LS	\$ 10,000.00	\$ 10,000	1.033	\$	10,330.00
								\$	394,296.10
Code/Saf	ety								
AB-05	Emergency Egress	Add emergency egress window (requires modifications to masonry wall).	1	LS	\$ 3,100.00	\$ 3,100	1.033	\$	3,202.30
								\$	3,202.30
Building	Systems Replacement/ Energy Efficiency			1					
BS-1	Fire Alarm System	Install new addressable system.	37000	SF	\$ 1.75	64750	1.033	\$	66,886.75
BS-2	Emergency Lighting	Install new units in existing fixtures.	40	EA	\$ 300.00	12000	1.033	\$	12,396.00
BS-3	Boiler Room Emergency Power Off	Install new EPO system.	1	LS	\$ 2,720.00	2720	1.033	\$	2,809.76
BS-4	Phone System - Alarms	Review all alarm sensors, replace bad alarm sensors and install fire/smoke alert sensors in all buildings. Includes boilers, refrigerators, panic buttons, sump pumps, carbon monoxide, headend environmental sensors, etc. Test and corrective actions in budget.	1	EA	\$ 5,000.00	5000	1.033	\$	5,165.00
_					,			\$	87,257.51
Mechanic									
MS-01	Building Controls	Provide new DDC controls throughout.	37000	SF	\$ 4.50	166500	1.033	\$	171,994.50
MS-02A	Boilers	Two (2) new heating hot water boilers at 2,500 MBH each and all associated trim and accessories	2	! EA	\$ 65,000.00	130000	1.033	\$	134,290.00
MS-02B	Hot Water System	Provide new chemical treatment for heating hot water system	1	EA	\$ 2,000.00	2000	1.033	\$	2,066.00
MS-02C	Hot Water System	Provide coalescing air and dirt separator for heating hot water system	1	EA	\$ 3,500.00	3500	1.033	\$	3,615.50
MS-02D	Hot Water System	Provide expansion tank for heating hot water system	1	EA	\$ 3,500.00	3500	1.033	\$	3,615.50
MS-03	HWH Pumps	Provide end-suction, base mounted pumps with VFDs	2	EA	\$ 15,350.00	30700	1.033	\$	31,713.10

No.	Item/Description	Action	Qty.	Unit		Unit Cost	Subtotal	Indirect Cost	ı	Proposed 2015 Bond Scope
MS-04	Pipe Insulation	Install new pipe insulation.	150	LF	\$	25.00	3750	1.033	\$	3,873.75
MS-05	Gym Air Handling Unit	Replace with like and kind; approximate 2,000 CFM each.	1	LS	\$	42,360.00	42360	1.033	\$	43,757.88
MS-06	Roof Mounted Heating and Ventilating Units	Replace with like and kind; 3,000 CFM.	8	EA	\$	25,230.00	201840	1.033	\$	208,500.72
		Provide new roof exhaust fans, average size is 600						1.033		
	Roof Hoods and Exhaust Fans	CFM.		EA	\$	3,475.00	17375		\$	17,948.38
MS-08	Office HVAC	Provide new heating only, hot water rooftop unit	1	EA	\$	16,500.00	16500	1.033	\$	17,044.50
MS-09	Media Center HVAC	Replace existing steam rooftop unit with heating hot water and DX air conditioned media center rooftop unit	1	EA	\$	32,275.00	32275	1.033	\$	33,340.08
MS-10	Media Center Perimeter HVAC	Replace existing steam rooftop unit with heating hot water and DX air conditioned media center rooftop unit	1	EA	\$	31,500.00	31500	1.033	\$	32,539.50
MS-11	Head End Air Conditioning	Install new split air conditioning unit; approximately 1.5-tons.	1	EA	\$	9,000.00	9000	1.033	\$	9,297.00
									\$	713,596.40
Plumbing		Destance of the comment of	7400	0.5	10	0.05	04050	4.000		212122
	Domestic Water Pipe	Replace with copper pipe.	7400		\$	3.25	24050	1.033	\$	24,843.65
PS-2	Water Meter Isolation Valves	Replace three (3) 3" gate valves.	3	EA	\$	1,830.00	5490	1.033	\$	5,671.17
PS-3	Water Cooler	Install new bi-level electric water cooler.	1	EA	\$	5,100.00	5100	1.033	\$	5,268.30
									\$	35,783.12
Electrical										
ES-1	Electrical Distribution System	Replace the original distribution equipment with new.	1	EA	\$	27,400.00	27400	1.033	\$	28,304.20
ES-2	Electrical Panels lack space for new circuits	Replace the original panels with new, larger panels in new locations.	6	EA	\$	4,875.00	29250	1.033	\$	30,215.25
ES-5	Exterior Lighting	Replace with more efficient LED fixtures.	8	EA	\$	520.00	4160	1.033	\$	4,297.28
ES-8	Uninterruptible Power Supply	Provide 5 kVA UPS to serve Key Fob entry, PA and Phones	1	EA	\$	11,300.00	11300	1.033	\$	11,672.90
ES-9	Newer TVSS Electrical Panels (New Item)		1	EA	\$	3,000.00	3000	1.033	\$	3,099.00
ES-10	Existing TVSS Electrical Panels (New Item)	Replace existing TVSS on panels are blown and not protecting circuits		EA	\$	2,000.00	8000	1.033	\$	8,264.00
	Classroom Lighting		19640		\$	6.00	117840	1.033	\$	121,728.72
	Corridor Lighting		6244	SF	\$	6.00	37464	1.033	\$	38,700.31
					1				\$	246,281.66
Air Cond	itioning									
									\$	-

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Pro	posed 2015 Bond Scope
Asbestos	Abatement								
	Asbestos Abatement- flooring, ceiling, etc.		37000	SF	\$ 5.00	185000	1.000	\$	185,000.00
								\$	185,000.00
3. New C	onstruction								
New Con	struction								
	Addition: Art room , music room and entry at SE corner of		4,200	SF	\$ 209.00	\$ 877,800	1.033		
	building.		4,200	SF	\$ 209.00	φ 677,000	1.033	\$	906,767.40
								\$	906,767.40
4. Instru	ctional Technology								
	Educational Technology		1	LS	\$ 68,116.26	\$ 68,116	1.000	\$	68,116.26
								\$	68,116.26
5. Loose	Furnishings/Equipment								
	Equipment		1	LS	\$ 121,976.49	\$ 121,976	1.000	\$	121,976.49
	Technology Infrastructure		1	LS	\$ 125,065.92	125065.92	1.000	\$	125,065.92
	Furniture Replacement		1	EA	\$ 20,000.00	20000	1.130	\$	22,600.00
								\$	269,642.41
								\$	3,683,587.85
	Site							\$	116,212.50
	Remodeling							\$	2,322,849.28
	New Construction							Š	906,767.40
	Subtotal							\$	3,345,829.18
	Construction Contingency					7.5%		\$	250,937.19
	Subtotal					7.070		\$	3,596,766.37
	CM Fees and Costs					5.5%		¢	197,822.15
	Subtotal					3.370		s s	3,794,588.52
	Architectural Fees and Costs					6.5%		\$	246,648.25
	Instructional Technology					0.570		\$	68,116.26
	Loose Furnishing/Equipment							\$	269,642.41
	Loose I dillistillig/Equipment							Ψ	203,042.41
	Total Project Cost							\$	4,378,995.44

Project 4 No.

Name of School Bu	uilding
Rogers Elementary	y School

- List # of Capacity **Existing/Adequate** Capacity Teaching X **Factor Stations** X (K-2) Lower Elementary 20 0 X 0 (3-5) Upper Elementary 25 (6-8) Junior High 22.5 0 0 (9-12) High School 21.25 **Sub Totals** 0 0
- List # of Capacity Remodeled Capacity Teaching X **Factor Stations** X = (K-2) Lower Elementary 20 180 X 9 25 (3-5) Upper Elementary 225 X (6-8) Junior High 22.5 0 0 (9-12) High School 21.25 **Sub Totals** 405 18

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

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

Total Teaching Stations	18	Total Capacity	405
Current Gr. Structure	K-5	Projected	
Proposed Gr. Structure	K-5	5-Year Enrollment	381

Current Gr. Structure	K-5	Projected 5-Year	381
		Enrollment	001
Utilizatio (Projected 5-Year En		•	94%

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

Square Footage for Closed Facility		Total Capacity	0
---------------------------------------	--	-------------------	---

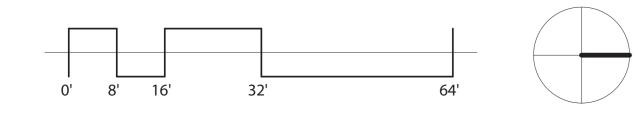
Please transfer applicable information to the Utilization Summary on Page 7 of the application.

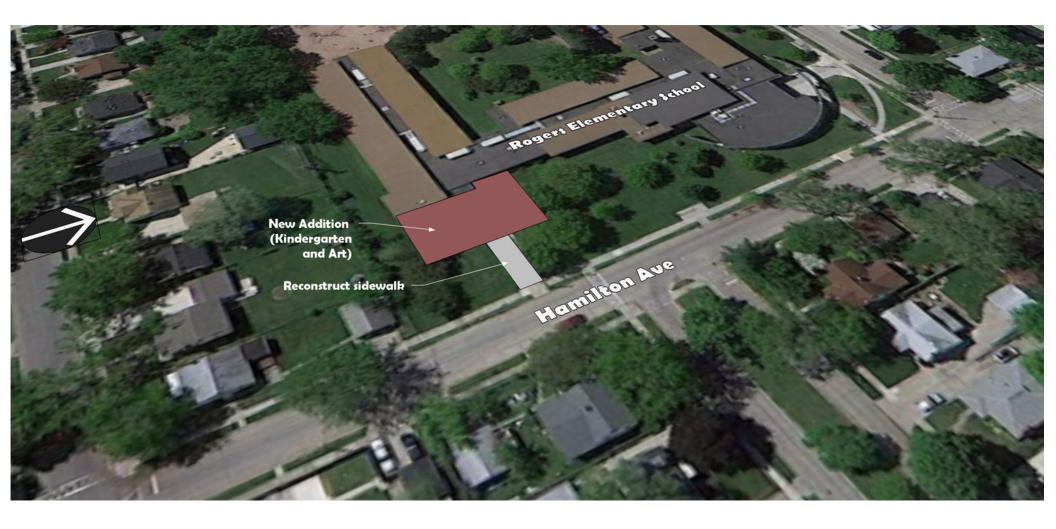












Site Plan Concept for:

Rogers Elementary School Berkley School District

Berkley, Michigan





	Facility	Condition Assessment			
Project Number 4			Rogers Elemer	itary Scl	hool
	igh inspection of the facility including special-use areas s se complete the following assessment form by responding	uch as the cafeteria, art rooms, industrial arts areas, and ag to ALL statements.	Please provide an ove of each section or con deficiencies or special	nment on	any
Health Section			Yes	No	N/A
	damage does not exist due to past or present water/mois	sture leaks.	X		
	ces are free of loose and peeling paint.		X		
	ure is comfortable throughout the building. ctionable odors are not present in specific areas or throug	shout the building.		X	
	nsistent throughout building. Lack of adequate fresh air ventilation lea	35 10 00013			T
Life Safety Sec		sible	Yes	No	N/A
	signs are present at each entrance/exit and are clearly vis sion equipment is present in kitchen, science rooms and		X		
	acilities have barrier free accessibility.	oomdore.		Х	
4. Building acc	ess is limited to select, controlled entries. ed barrier free accessibility.		X		
Structural Section 1. Inside mason	on nry walls do not show visible signs of cracks beyond norr	nal aging	Yes X	No	N/A
	ks do not exist around perimeter of interior/exterior doors		X		
	re does not show visible signs of damage.		X		
Building ext Overall assessment of	rior is intact and does not show visible deterioration beyo	nd normal aging.	X		
Machaniael	41				- N/A
Mechanical Se	d exterior doors prevent inefficient air leakage.		Yes	No	N/A
	ure exists to wash hands, supply water fountains, and flu	sh toilets.	X		
	quickly from sinks.		X		
4. Floor area r	ear toilets and sinks is dry.		X		
Overall assessment of					
Electrical Sect 1. Lighting sys	on em provides adequate intensity, diffusion, and distribution	of illumination	Yes X	No	N/A
	ntrols are safely protected and accessible.	i oi iliamination.	X		
3. Classrooms	have sufficient outlets to prevent regular use of electrical	extension cords.	X		
	y of electrical systems or panels is dry and free of standing	ng water.	X		
Overall assessment of					
Legrify that I have as	Certificat sessed the factors described above and that the conditions relative to	e by Registered Architect he facility are true and correct to the best of my knowledge and belief			
i ceruiy mat i nave as	Lee A. Andrea, AIA	Stantec Architecture,	Inc.	45478	
Signature	Printed Name		ne and License Number		
1/5/2015	lan and an Oakard and an oar	240 226 4004	240 226 4000		
1/5/2015 Date	lee.andrea@stantec.com E-mail Address		248.336.4880 le and Telephone Numbe		

3881 Page 4

		Project Sheet		
Project No. 5		-		
Name of School Building:		Norup Internat	tional School	
Description of Proposal or S	-		Instructional Technology	
and exterior of building. Renovation Remodeling to meet code and safe emergency lighting, and phone system including replace	nulitpurpose room. General remodeling on to improve security and program of the requirements. Upgrades to fire a stems. Mechanical system upgrades ement of domestic water and sanitary extrical distribution system, panels, restos abatement.	delivery. alarm system, s. Upgrades to y pipe and	ssroom audio visual equipmen	t and student computing
			Site Work Descrip	otion
		Site work asso student drop-o	ociated with new addition and to	
Type of Project:				
New Building	→ New Construction Square Ft		Cost per Sq Ft	_
✓ Addition(s)	→ New Addition Square Ft.	7,200	Cost per Sq Ft \$ 215.90)
Remodeling				
✓ Technology and/	or Buses			
✓ Site Work		\bigcirc a		
Facility Closing	9		nvert to non-instructional	
	○ Sell or Lease ○) Undetermined		
(ex: asbestos, energy use	y existing environmental or e, or ADA requirements) of mechanical systems with newer, m		e proposed project wil	l address.
Estimated Cost of Propos	sed Construction Project:	(Attach analysis show	wing how cost estimate Proposal/Series 2	es were calculated.) Proposal/Series 3
New Construction	\$1,554,458	\$1,554,458		
Remodeling	\$5,249,364	\$5,249,364		-
Construction Contingencies	\$526,556	\$526,556		
Instructional Technology	\$181,894	\$181,894		
Loose Furnishing/Equipment	\$639,895	\$639,895		-
Buses	\$0	\$0		
Site Work	\$216,930	\$216,930		
Site Acquisition	\$0	\$0		
Architectural Fees and Costs	\$517,557	\$517,557		
CM Fees and Costs	\$415,102	\$415,102		
Estimated Costs (Not including election or bond issuance costs)	\$9,301,757	\$9,301,757	\$0	\$0
		by Registered Archite		
I certify that the details of the proposed project	ct(s) described above and the attached detail re	elative to the construction project(s) are t	rue and correct to the best of my knowle	edge and belief.
Cianatura	Lee A. Andrea, A	AIA	Stantec Archit	
Signature 1/5/2015	Printed Name	ntec.com 248 336 4881	248 336 4880	License Number

E-mail Address

Fax Number

Area Code and Telephone Number

Date

BERKLEY SCHOOL DISTRICT MAY 2015 BOND PROGRAM



Norup International School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Pr	roposed 2015 Bond Scope
1. Site W	****								
Site Worl	k								
SC-02	Student Drop-off	Add/modify student drop-off to the site. Figure shown to the right is an allowance.	1	LS	\$ 150,000.00	\$ 150,000	1.033	\$	154,950.00
BE-07	Sitework for addition and Site Drainage	Add landscape drain tile to storm system.	4,000	SF	\$ 15.00	\$ 60,000	1.033	\$	61,980.00
0 D								\$	216,930.00
2. Remod	•								
	Architectural Replacement	Don't de al cuite de affilia de la	1 4 000	05	00.04	40.750	4.000	T .	50.050.70
	Overhangs/Soffits Brick Veneer at Base of Walls	Provide aluminum soffit panels.	1,630 75	SF SF	\$ 29.91 \$ 25.00		1.033 1.033	\$	50,358.76 1.936.88
BE-02	Brick veneer at base of walls	Replace brick.	75	5F	\$ 25.00	\$ 1,875	1.033	Þ	1,936.88
BE-04	Steel Doors and Frames	Replace with aluminum frames and fiberglass reinforced panel doors.	4	EA	\$ 3,200.00		1.033	\$	13,222.40
BE-05	Curtain wall Panels	Replace panels.	50	SF	\$ 31.00	\$ 1,550	1.033	\$	1,601.15
								\$	67,119.18
Interior A	Architectural Replacement								
BI-07	Below Stage Storage	Replace doors.	8	EA	\$ 275.00	\$ 2,200	1.033	\$	2,272.60
AB-13	Boy's and Girl's Toilet Rooms	Provide new plumbing fixtures, lighting, floor/wall/ceiling finishes, stalls and automatic door operators.	1,800	SF	\$ 80.00	\$ 144,000	1.033	\$	148,752.00
AB-14	Boy's and Girl's Toilet Rooms	Provide new plumbing fixtures, lighting, floor/wall/ceiling finishes and stalls.	225	SF	\$ 80.00	\$ 18,000	1.033	\$	18,594.00
BI-01	Original Hollow Metal, Wood Doors and Frames	Replace corridor doors with wood doors and hardware.	85	EA	\$ 1,300.88	\$ 110,575	1.033	\$	114,223.77
BI-02	Carpet	Replace carpet and resilient base.	17,800	SF	\$ 4.50	\$ 80,100	1.033	\$	82,743.30
	Corridor Ceilings	Assoicated with mechanical system replacement	17,800	SF	\$ 4.50	\$ 80,100	1.033	\$	82,743.30
	Classroom Ceilings	Assoicated with mechanical system replacement	29,240	SF	\$ 5.50	\$ 160,820	1.033	\$	166,127.06
	Classroom Flooring	Assoicated with mechanical system replacement	28	CR	\$ 3,150.00	\$ 88,200	1.033	\$	91,110.60
	Visual Display Boards	Assoicated with mechanical system replacement	28	CR	\$ 1,200.00	\$ 33,600	1.033	\$	34,708.80
	Painting	Assoicated with mechanical system replacement	28	CR	\$ 600.00	\$ 16,800	1.033	\$	17,354.40
	Bookshelves	Assoicated with mechanical system replacement	28	CR	\$ 750.00	\$ 21,000	1.033	\$	21,693.00
	VUV wall opening	Assoicated with mechanical system replacement	28	CR	\$ 3,000.00	\$ 84,000	1.033	\$	86,772.00
					_				\$867,094.83
Academ	ic Program Improvements								
	Renovate kitchen for use as choir room.		2,000	SF	\$ 150.00	\$ 300,000	1.033	\$	309,900.00
	Renovate current learning specialist/ resource room suite and room 105 (current choir) into larger learning specialist/resource room suite		3,800	SF	\$ 120.00	\$ 456,000	1.033	\$	471,048.00

Norup International School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	P	roposed 2015 Bond Scope
	Renovate (2) innovation labs into single larger lab. Repurpose portion of media center for computer lab use.		1,800	SF	\$ 120.00	\$ 216,000	1.033	\$	223,128.00
Code/ Sa	letv							\$	1,004,076
	Stair guardrail/Handrail	Add guardrail/handrail	80	LF	\$ 166.25	\$ 13,300	1.033	\$	13,738.90
AB-06	Open Stairs	Add fire rated separation including doors and frames.	2	EA	\$ 15,000.00	\$ 30,000	1.033	\$	30,990.00
	Room Exits	Provide exit to exterior.	1	LS	\$ 13,100.00	\$ 13,100	1.033	\$	13,532.30
	Bleacher Guardrails	Add removable guardrails to open ends of retractable bleachers.	136	LF	\$ 80.00		1.033	\$	11,239.04
Ruilding	Systems Replacement/ Energy Efficiency							\$	69,500.24
BS-1	Fire Alarm System	Install new addressable system.	90000	sf	\$ 1.75	157500	1.033	\$	162,697.50
BS-2	Emergency Lighting	Install new units in existing fixtures.	90	EA	\$ 300.00	27000	1.033	\$	27,891.00
BS-3	Boiler Room EPO	Install boiler room emergency power off system.	1	LS	\$ 2,720.00	2720	1.033	\$	2,809.76
BS-4	Phone System - Alarms	Review all alarm sensors, replace bad alarm sensors and install fire/smoke alert sensors in all buildings. Includes boilers, refrigerators, panic buttons, sump pumps, carbon monoxide, headend environmental sensors, etc. Test and corrective actions in budget.	1	EA	\$ 5,000.00	5000	1.033	\$	5,165.00
									\$198,563.26
Mechani	Mechanical Systems Replacement		90000	SF	\$ 20.00	1800000	1.033	\$	1,859,400.00
Diumbin									\$1,859,400.00
Plumbing PS-1	Domestic Water Pipe	Replace with copper pipe.	55000	SF	\$ 3.75	206250	1.033	\$	213,056.25
	'	псеріасе міш соррег ріре.							,
PS-2	Water Meter Isolation Valves	Replace two (2) 3" gate valves.	2	EA	\$ 1,830.00	3660	1.033	\$	3,780.78
PS-3	Investigate Possible Waste Pipe Pitch Problem	Investigate and fix problem.	1	LS	\$ 5,000.00	5000	1.033	\$	5,165.00
PS-4	Electric Water Cooler	Replace/upgrade to new electric water cooler.	6	EA	\$ 4,950.00	29700	1.033	\$	30,680.10
PS-5	Sanitary Pipe	Replace accessible portions; some confined spaces.	5000	SF	\$ 4.85	24250.2	1.033	\$	25,050.46
PS-6	Investigate Water Issue Under Gym Floor	Investigate and fix problem.	1	LS	\$ 15,000.00	15000	1.033	\$	15,495.00
									\$293,227.59

Norup International School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
Electrica	1		1					
ES-1	Electrical Distribution System	Replace the original distribution equipment with new.	1	EA	\$ 33,450.00	33450	1.033	\$ 34,553.85
ES-2	Electrical Panels	Replace the original panels with new, larger panels in new locations.	15	EA	\$ 4,875.00	73125	1.033	\$ 75,538.13
ES-6	Exit Lighting Fixtures	Add exit signs.	20	EA	\$ 300.00	6000	1.033	\$ 6,198.00
ES-7	Exterior Lighting	Replace with more efficient LED fixtures.	10	EA	\$ 520.00	5200	1.033	\$ 5,371.60
ES-9	Uninterruptible Power Supply	Provide 5 kVA UPS to serve Key Fob entry, PA and Phones	1	EA	\$ 11,300.00	11300	1.033	\$ 11,672.90
ES-10	Newer TVSS Electrical Panels (New Item)		1	EA	\$ 3,000.00	3000	1.033	\$ 3,099.00
ES-11	Newer TVSS Electrical Panels (New Item)	Replace existing TVSS on panels are blown and not protecting circuits	6	EA	\$ 2,000.00	12000	1.033	\$ 12,396.00
	Classroom Lighting		29240	EA	\$ 6.00	175440	1.033	\$ 181,229.52
	Corridor Lighting		17800	SF	\$ 6.00	106800	1.033	\$ 110,324.40
								\$ 440,383
Air Cond	itioning							
								\$ -
Asbestos	s Abatement			0.5	I a = 00	450000		T
	Asbestos Abatement- flooring, ceiling, etc.		90000	SF	\$ 5.00	450000	1.000	\$ 450,000.00 \$ 450,000.00
3. New C	I construction		<u> </u>	<u> </u>	<u> </u>			Ψ 450,000.00
	estruction							
	Addition: Prototype cafeteria/MP room, including orchestra space adjacent to main entry		7,200	SF	\$ 209.00	\$ 1,504,800	1.033	\$ 1,554,458.40
								\$ 1,554,458.40
4. Instruc	ctional Technology			•				
	Educational Technology		1	LS	\$ 181,894.09	\$ 181,894	1.000	\$ 181,894.09
								\$ 181,894.09

Norup International School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
5. Loose	Furnishings/ Equipment							
	Equipment		1	LS	\$ 293,629.03	\$ 293,629	1.000	\$ 293,629.03
	Technology Infrastructure		1	LS	\$ 301,066.08	301066.08	1.000	\$ 301,066.08
	Furniture Replacement		1	EA	\$ 40,000.00	40000	1.130	\$ 45,200.00
								\$ 639,895.11

Site		\$ 216,930.00
Remodeling		\$ 5,249,364
New Construction		\$ 1,554,458.40
Subtotal		\$ 7,020,752.89
Construction Contingency	7.5%	\$ 526,556.47
Subtotal		\$ 7,547,309.36
CM Fees and Costs	5.5%	\$ 415,102.01
Subtotal		\$ 7,962,411.37
Architectural Fees and Costs	6.5%	\$ 517,556.74
Instructional Technology		\$ 181,894.09
Loose Furnishing/Equipment		\$ 639,895.11
		•
Total Project Cost		\$ 9,301,757.31

\$

7,842,542

Project 5

Name of School Building
Norup International School

- List # of Capacity **Existing/Adequate** Capacity Teaching X **Factor Stations** X (K-2) Lower Elementary 20 0 X (3-5) Upper Elementary 25 0 (6-8) Junior High 22.5 0 (9-12) High School 21.25 0 **Sub Totals** 0 0
- List # of Capacity Remodeled Capacity Teaching X **Factor Stations** X = (K-2) Lower Elementary 7 20 140 X (3-5) Upper Elementary 9 25 225 X (6-8) Junior High 19 22.5 428 0 (9-12) High School 21.25 **Sub Totals** 793 35

- 1 List the number of teaching station 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 and site plan of the building. Show the rooms and category (adequate, remodeled, proposed new, closed). Number the teaching stations in consecutive order.

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

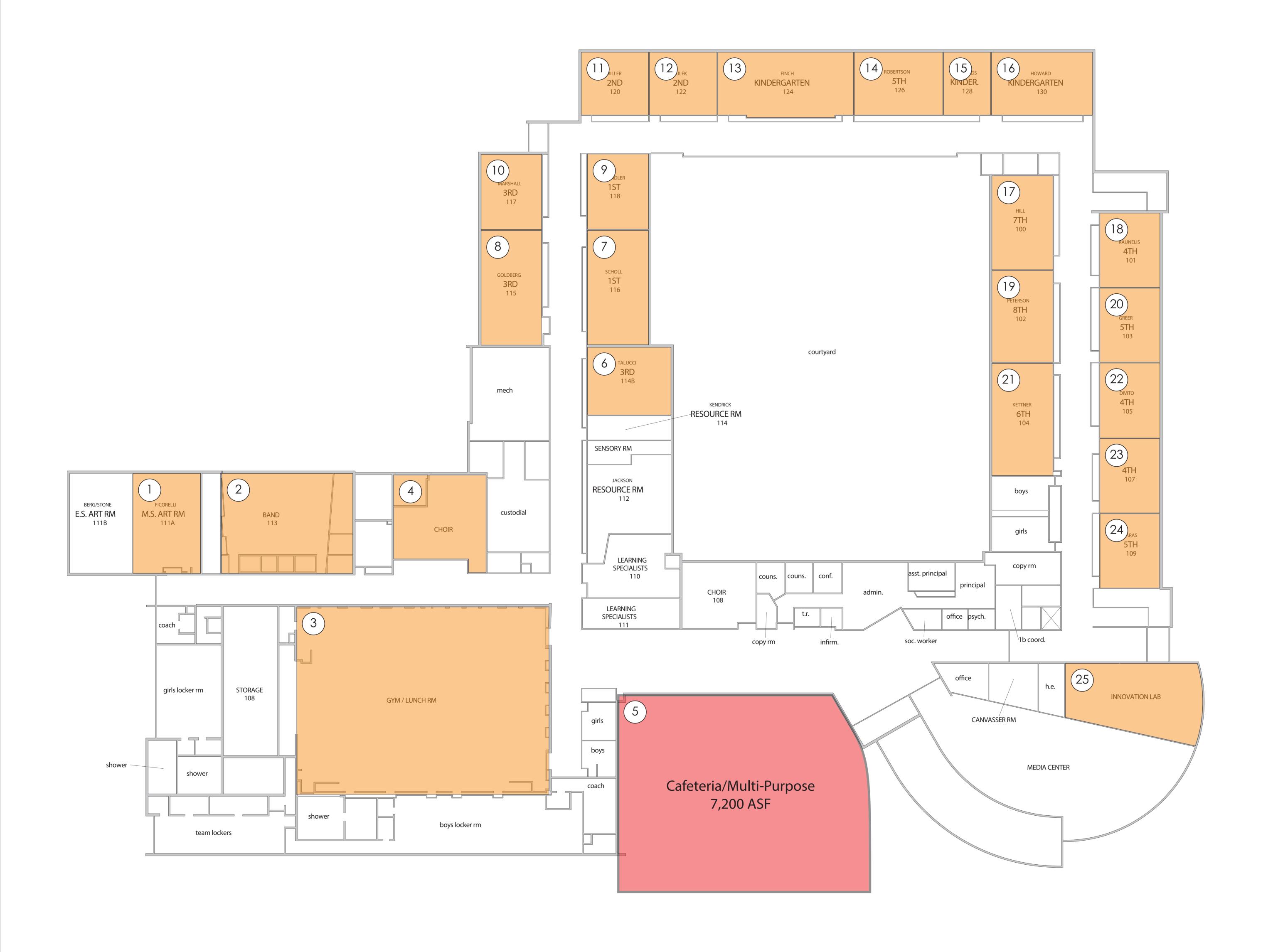
Total Teaching Stations	35	Total Capacity	793
Current Gr. Structure	K-8	Projected	
		5-Year	734
Proposed Gr. Structure	K-8	Enrollment	
	•		

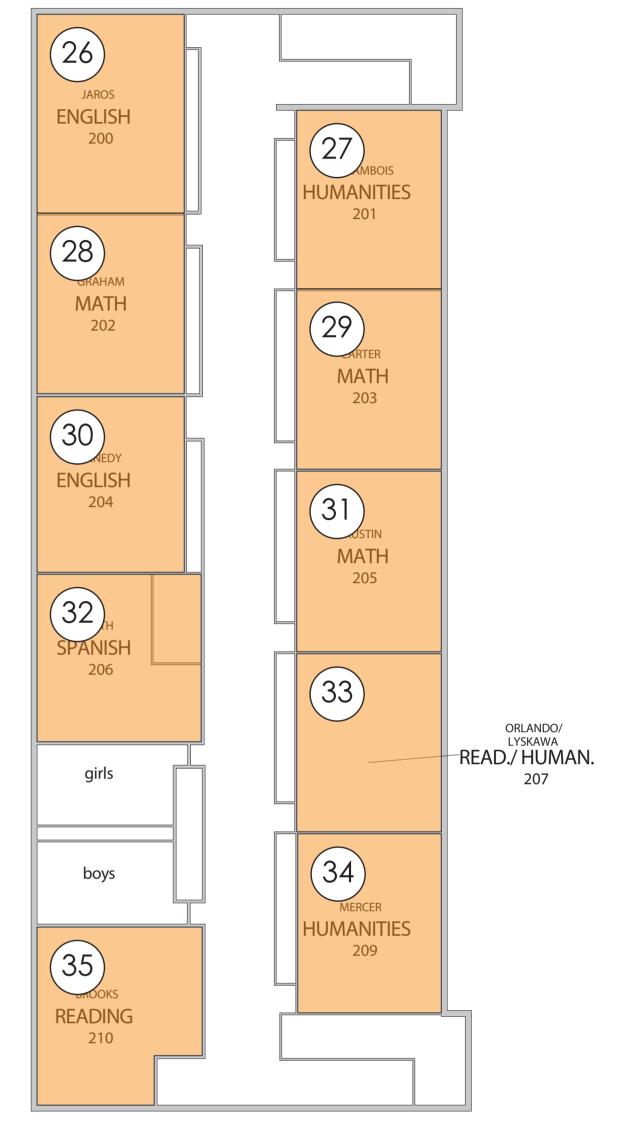
Utilization Percentage	93%
(Projected 5-Year Enrollment / Total Capacity)	93/0

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

Square Footage for Closed Facility		Total Capacity	0
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Please transfer applicable information to the Utilization Summary on Page 7 of the application.





Teaching Stations







Site Plan Concept for:

Norup International School Berkley School District

Berkley, Michigan





Facility Condition Assessment			
Project Number 5	Norup Internation	onal Sch	nool
Perform walkthrough inspection of the facility including special-use areas such as the cafeteria, art rooms, industrial arts areas, and science labs. Please complete the following assessment form by responding to ALL statements.	Please provide an ove of each section or con deficiencies or special	nment on	any
Health Section	Yes	No	N/A
Visible mold/damage does not exist due to past or present water/moisture leaks.	X	NO	IN/A
Indoor surfaces are free of loose and peeling paint.	X		
Air temperature is comfortable throughout the building.		Х	
Unique/objectionable odors are not present in specific areas or throughout the building. Air temperature is inconsistent throughout building. Lack of adequate fresh air ventilation leads to odors		Χ	
Life Safety Section	Yes	No	N/A
Lighted exit signs are present at each entrance/exit and are clearly visible.	X		
2. Fire suppression equipment is present in kitchen, science rooms and corridors.	X		
Washroom facilities have barrier free accessibility.		Χ	
Building access is limited to select, controlled entries. Washrooms have limited barrier free accessibility.	X		
Structural Section	Yes	No	N/A
Inside masonry walls do not show visible signs of cracks beyond normal aging.	X	NO	14// (
Surface cracks do not exist around perimeter of interior/exterior doors and windows.	X		
3. Roof structure does not show visible signs of damage.	Х		
4. Building exterior is intact and does not show visible deterioration beyond normal aging.	Х		
Mechanical Section	Yes	No	N/A
Windows and exterior doors prevent inefficient air leakage.	X		
2. Water pressure exists to wash hands, supply water fountains, and flush toilets.	X		
3. Water drains quickly from sinks.	X		
Floor area near toilets and sinks is dry. Overall assessment or comments:	X		
Electrical Section	Yes	No	N/A
 Lighting system provides adequate intensity, diffusion, and distribution of illumination. Electrical controls are safely protected and accessible. 	X		
Electrical controls are safely protected and accessible. Classrooms have sufficient outlets to prevent regular use of electrical extension cords.	X		
Classrooms have sumident outlets to prevent regular use of electrical extension cords. The proximity of electrical systems or panels is dry and free of standing water.	X		
Overall assessment or comments:			
Certificate by Registered Architect I certify that I have assessed the factors described above and that the conditions relative to the facility are true and correct to the best of my knowledge and belief.			
	Inc	4E470	
Lee A. Andrea, AIA Stantec Architecture, I Signature Printed Name Firm Nam	Inc. ne and License Number	45478	
1/5/2015 lee.andrea@stantec.com 248.336.4881 //	248.336.4880	_	

3881 Page 4

			Project Sheet		
Project No.	. 6		-		
Name of S	chool Building:		Anderson Mic	ddle School	
	n of Proposal or S	-		Instructional Technology	
of building. F meet code ar lighting, and l system includ Replacement	Renovation to improve nd safety requirements phone systems. Mech ding replacement of do	yway. General remodeling of interice security and program delivery. Res. Upgrades to fire alarm system, controlled system upgrades. Upgrades omestic water and sanitary pipe and system, panels, exit lighting and	emodeling to emergency s to plumbing d water coolers.	ssroom audio visual equipmen	t and student computing
			<u> </u>	Site Work Descrip	ntion
			Site work asso	ociated with new addition and in	
Type of P	roject:				
	New Building	→ New Construction Square Ft		Cost per Sq Ft	<u>_</u>
	Addition(s)	→ New Addition Square Ft.	225	Cost per Sq Ft \$ 215.90)
	Remodeling				_
	Technology and/o	or Buses			
	Site Work	_			
	Facility Closing	<u> </u>	Retain for future use Con	overt to non-instructional	
		Sell or Lease	Undetermined		
(ex: asbes	stos, energy use	existing environmental of existing environmental of mechanical systems with never		e proposed project wil	l address.
Asbestos aua	atement, replacment o	of mechanical systems with newer,	more efficient systems.		
Estimated	d Cost of Propos	sed Construction Project:	(Attach analysis show	ving how cost estimate	es were calculated.)
		Total	Proposal/Series 1	Proposal/Series 2	Proposal/Series 3
New Constru	uction	\$48,577	\$48,577		
Remodeling	•	\$5,624,513	\$5,624,513		
	n Contingencies	\$435,166	\$435,166		
	al Technology	\$194,693	\$194,693		
	ishing/Equipment	\$681,741 \$0	\$681,741 \$0		
Buses Site Work		\$0 \$120,125	\$0 \$120 125		-
Site Work Site Acquisi	ition	\$129,125 \$0	\$129,125 \$0		-
-	al Fees and Costs	\$427,728	\$427,728		
CM Fees and		\$343,056	\$343,056		-
Estimated C	Costs ection or bond issuance costs	\$7,884,599	\$7,884,599	\$0	\$0
, .			e by Registered Archite		
I certify that the d	details of the proposed projec	ct(s) described above and the attached detail			edge and belief.
Signature		Lee A. Andrea, Printed Name	AIA	Stantec Archit	tecture, Inc. 45478
1/5/2015		lee andrea@sta	antec.com 248 336 4881	248 336 4880	

E-mail Address

Fax Number

Area Code and Telephone Number

Date



BERKLEY SCHOOL DISTRICT MAY 2015 BOND PROGRAM

Anderson Middle School

No.	Item/Description	Action	Qty.	Unit	Unit Cost		Subtotal	Indirect Cost	Proposed 2015 Bond Scope
1. Site Work									
Site Work									
SC-02	Sitework for addition and Student Drop-off	Add/modify student drop-off to the site. Figure shown to the right is an allowance.	1.00	LS	\$ 125,000.	00 \$	125,000.00	1.033	\$ 129,125.00
									\$ 129,125.00
2. Remodeling									
Exterior Archi	tectural Replacement		1	1	1				1
BE-01	Overhangs/Soffits	Provide aluminum soffit panels.	1700.00	SF	\$ 29	78 \$	50,625.01	1.033	\$ 52,295.63
BE-02	Brick Veneer at Base of Walls	Control roof drainage where possible and replace point brick.	600.00	SF	\$ 15.	00 \$	9,000.00	1.033	\$ 9,297.00
BE-04	Entrance Canopy Columns/Stairs/Railings		4.00	EA	\$ 437.	50 \$	1,750.00	1.033	\$ 1,807.75
BE-06	Steel Doors and Frames and door seals	Replace with aluminum frames and fiberglass reinforced panel doors.	3.00	EA	\$ 3,333.	47 \$	10,000.41	1.033	\$ 10,330.42
BE-07	Entrance Canopy Soffits	Provide aluminum soffit panels.	130.00	SF	\$ 20.	00 \$	2,600.00	1.033	\$ 2,685.80
BE-08	Roof Membrane	Remove and replace with new insulation and single-ply membrane.	29900.00	SF	\$ 8.	00 \$	239.200.00	1.033	\$ 247.093.60
BE-10	Wood Fascia	Replace with aluminum fascia.	220.00	LF	\$ 20.	00 \$	4,400.00	1.033	\$ 4,545.20
BE-11	Stone Window Sills	Provide sealant.	750.00	LF	\$ 4.	75 \$	3,562.50	1.033	\$ 3,680.06
BE-12	Concrete Slab	Replace concrete.	20.00	SF	\$ 115.	00 \$	2,300.00	1.033	\$ 2,375.90
BE-13	Concrete Stairs	Replace concrete.	1.00	LS	\$ 2,500.	00 \$	2,500.00	1.033	\$ 2,582.50
BE-14	Roof Downspout	Replace downspout	1.00	LS	\$ 1.500.	00 \$	1.500.00	1.033	\$ 1,549.50
					, , , , , , , , , , , , , , , , , , , ,		,		\$ 338,243.36
Interior Archit	ectural Replacement								
BI-01	Original Hollow Metal, Wood Doors and Frames	Replace corridor doors with wood doors and hardware.	85.00	EA	\$ 1,301.			1.033	\$ 114,301.04
BI-02	Plastic Laminate Counter Tops	Replace with solid surface material and new sinks with point of use TMV.	100.00	LF	\$ 240.		21,000.00	1.033	\$ 24,792.00
BI-04	Casework Cabinets	Replace cabinets.	15.00	LF	\$ 300. \$ 350.		4,500.00 33.600.00	1.033 1.033	\$ 4,648.50 \$ 34.708.80
BI-05	Wood Cabinets and Counter Tops	Replace cabinets and provide epoxy counter tops.	96.00	LF	\$ 350.	00 \$	33,600.00	1.033	\$ 34,708.80
BI-07	Wood Floor	New finish	1875.00	SF	\$ 3.	50 \$	6,562.50	1.033	\$ 6,779.06
B1 07	**************************************		1070.00	Oi	ψ 0.	00 W	0,002.00	1.000	ψ 0,770.00
AB-07	Doubs and Cirlla Tailat Daama	Provide new plumbing fixtures, lighting, floor/wall/ceiling finishes, stalls and automatic door operators.	2050.00	SF	\$ 86.	20 \$	176.710.00	1.033	\$ 182.541.43
	Boy's and Girl's Toilet Rooms						,		
AB-08	Boy's and Girl's Locker Room Toilets	Provide new plumbing fixtures, lighting, floor/wall/ceiling finishes and stalls.	210.00	SF		20 \$	-, -	1.033	\$ 18,699.37
BI-03	Carpet	Replace carpet and resilient base.	14000.00	SF	\$ 4.	50 \$	63,000.00	1.033	\$ 65,079.00
DI 40	Original Olescons Onlines	STANTEC: Install new acoustical ceiling below existing as part of lighting	20000 00	SF			176.000.00	4.000	\$ 181.808.00
BI-10	Original Classroom Ceilings Corridor Ceilings	replacement Assoicated with mechanical system replacement	32000.00 14000.00	SF SF		50 \$.,	1.033	\$ 181,808.00 \$ 65.079.00
	Corridor Cellings Classroom Flooring	Assoicated with mechanical system replacement Assoicated with mechanical system replacement	32000.00	SF SF		50 \$,	1.033	\$ 65,079.00
	Visual Display Boards	Assoicated with mechanical system replacement Assoicated with mechanical system replacement	40.00	EA EA	\$ 1.200.		48.000.00	1.033	\$ 49.584.00
	Classroom Painting	Associated with mechanical system replacement	40.00	FA	\$ 600.		.,	1.033	\$ 24,792.00
	y					- υ	_ 1,000.00	1.000	2 .,. 52.50

Anderson Middle School

Bookshelves	\$ 30,990.00 \$ 123,960.00 \$ 1,043,458.20 \$ 37,188.00 \$ 103,300.00 \$ 56,815.00 \$ 247,920.00 \$ 445,223.00 \$ 15,495.00 \$ 5,810.63 \$ 32,023.00 \$ 5,185.00
Redicate main visitor entry to stainwell across from Catapa entry. Includes covered canopy and Sitework to emphasize new entry. 300.00 SF \$ 120.00 \$ 36,000.00 1.033	\$ 1,043,458.20 \$ 37,188.00 \$ 103,300.00 \$ 56,815.00 \$ 247,920.00 \$ 445,223.00 \$ 15,495.00 \$ 5,810.63 \$ 32,023.00 \$ 5,165.00
Relocate main visitor entry to stainwell across from Catapa entry. Includes covered canopy and Sitework to emphasize new entry.	\$ 37,188.00 \$ 103,300.00 \$ 56,815.00 \$ 247,920.00 \$ 445,223.00 \$ 15,495.00 \$ 5,810.63 \$ 32,023.00 \$ 5,165.00
Relocate main visitor entry to stainwell across from Catapa entry. Includes covered canopy and Sitework to emphasize new entry.	\$ 103,300.00 \$ 56,815.00 \$ 247,920.00 \$ 445,223.00 \$ 15,495.00 \$ 5,810.63 \$ 32,023.00 \$ 5,165.00
Covered canopy and Sitework to emphasize new entry.	\$ 103,300.00 \$ 56,815.00 \$ 247,920.00 \$ 445,223.00 \$ 15,495.00 \$ 5,810.63 \$ 32,023.00 \$ 5,165.00
Renovate room 129 (orchestra room) to improve finishes and acoustics. 2000.00 SF \$ 50.00 \$ 100,000.00 1.033	\$ 103,300.00 \$ 56,815.00 \$ 247,920.00 \$ 445,223.00 \$ 15,495.00 \$ 5,810.63 \$ 32,023.00 \$ 5,165.00
Renovate room 125 (choir room) to improve finishes and acoustics 2000.00 SF \$ 5,000 \$ 55,000.00 1.033	\$ 56,815.00 \$ 247,920.00 \$ 445,223.00 \$ 15,495.00 \$ 5,810.63 \$ 32,023.00 \$ 5,165.00
Renovate room 127 (Band room) to improve finishes and acoustics. 2000.00 SF \$ 120.00 \$ 240,000.00 1.033	\$ 247,920.00 \$ 445,223.00 \$ 15,495.00 \$ 5,810.63 \$ 32,023.00 \$ 5,165.00
Code/Safety	\$ 445,223.00 \$ 15,495.00 \$ 5,810.63 \$ 32,023.00 \$ 5,165.00
AB-02 Stair Guardrail Add guardrail. 100.00 LF \$ 15.00.00 \$ 15,000.00 1.033 AB-04 Handrails at Stairs Add handrails. 75.00 LF \$ 75.00 \$ 5.625.00 1.033 AB-05 Open Stairs Add fire rated separation including doors and frames. Relocate ceiling lights. 2.00 EA \$ 15,500.00 \$ 31,000.00 1.033 AB-06 Room Exits Provide emergency exit through Boy's Locker Room. 1.00 LS \$ 5,000.00 \$ 5,000.00 1.033 AB-09 Bleacher Guardrails Add fremovable guardrails to open ends of retractable bleachers. 136.00 LF \$ 80.00 \$ 10,880.00 1.033 Building Systems Replacement/Energy Efficiency BS-1 Fire Alarm System Install new units in existing fixtures. 82.00 EA \$ 300.00 \$ 24,600.00 1.033 BS-2 Emergency Lighting Install new units in existing fixtures. 82.00 EA \$ 300.00 \$ 24,600.00 1.033 BS-3 Boiler Room Emergency Power Off Install and Emergency power off system. 1.00 LS \$ 2,720.00 \$ 2,720.00 1.033 Review all alarm sensors, replace bad alarm sensors and install fire/smoke alert sensors in all buildings. Includes boilers, refrigerators, panic buttons, sump pumps, carbon monoxide, headend environmental sensors, etc. 1.00 EA \$ 5,000.00 \$ 5,000.00 1.033 Mechanical Mechanical MS-15 Head End Fire Suppression room equipment like a water-based system would. 1.00 EA \$ 35,000.00 \$ 35,000.00 1.033	\$ 15,495.00 \$ 5,810.63 \$ 32,023.00 \$ 5,165.00
AB-02 Stair Guardrail Add guardrail. 100.00 LF \$ 15.00.00 \$ 15,000.00 1.033 AB-04 Handrails at Stairs Add handrails. 75.00 LF \$ 75.00 \$ 5.625.00 1.033 AB-05 Open Stairs Add fire rated separation including doors and frames. Relocate ceiling lights. 2.00 EA \$ 15,500.00 \$ 31,000.00 1.033 AB-06 Room Exits Provide emergency exit through Boy's Locker Room. 1.00 LS \$ 5,000.00 \$ 5,000.00 1.033 AB-09 Bleacher Guardrails Add fremovable guardrails to open ends of retractable bleachers. 136.00 LF \$ 80.00 \$ 10,880.00 1.033 Building Systems Replacement/Energy Efficiency BS-1 Fire Alarm System Install new units in existing fixtures. 82.00 EA \$ 300.00 \$ 24,600.00 1.033 BS-2 Emergency Lighting Install new units in existing fixtures. 82.00 EA \$ 300.00 \$ 24,600.00 1.033 BS-3 Boiler Room Emergency Power Off Install and Emergency power off system. 1.00 LS \$ 2,720.00 \$ 2,720.00 1.033 Review all alarm sensors, replace bad alarm sensors and install fire/smoke alert sensors in all buildings. Includes boilers, refrigerators, panic buttons, sump pumps, carbon monoxide, headend environmental sensors, etc. 1.00 EA \$ 5,000.00 \$ 5,000.00 1.033 Mechanical Mechanical MS-15 Head End Fire Suppression room equipment like a water-based system would. 1.00 EA \$ 35,000.00 \$ 35,000.00 1.033	\$ 5,810.63 \$ 32,023.00 \$ 5,165.00
AB-04 Handralls at Stairs	\$ 5,810.63 \$ 32,023.00 \$ 5,165.00
AB-05 Open Stairs	\$ 32,023.00 \$ 5,165.00
AB-05 Open Stairs	\$ 32,023.00 \$ 5,165.00
AB-06 Room Exits Provide emergency exit through Boy's Locker Room. 1.00 LS \$ 5,000.00 \$ 5,000.00 1.033	\$ 5,165.00
AB-09 Bleacher Guardrails Add removable guardrails to open ends of retractable bleachers. 136.00 LF \$ 80.00 \$ 10,880.00 1.033 Building Systems Replacement/Energy Efficiency BS-1 Fire Alarm System Install new addressable system. 96000.00 SF \$ 1.75 \$ 168,000.00 1.033 BS-2 Emergency Lighting Install new units in existing fixtures. 82.00 EA \$ 300.00 \$ 24,600.00 1.033 BS-3 Boiler Room Emergency Power Off Install boiler room emergency power off system. 1.00 LS \$ 2,720.00 \$ 2,720.00 1.033 Review all alarm sensors, replace bad alarm sensors and install fire/smoke alert sensors in all buildings. Includes boilers, refrigerators, panic buttons, sump pumps, carbon monoxide, headend environmental sensors, etc. 1.00 EA \$ 5,000.00 \$ 5,000.00 1.033 Mechanical Mechanical MS-15 Head End Fire Suppression Install a chemical-based fire suppression system; will not damage the headend room equipment like a water-based system would. 1.00 EA \$ 35,000.00 \$ 35,000.00 1.033	
Building Systems Replacement/Energy Efficiency BS-1 Fire Alarm System 96000.00 SF \$ 1.75 \$ 168,000.00 1.033 BS-2 Emergency Lighting Install new units in existing fixtures. 82.00 EA \$ 300.00 \$ 24,600.00 1.033 BS-3 Boiler Room Emergency Power Off Install boiler room emergency power off system. 1.00 LS \$ 2,720.00 \$ 2,720.00 1.033 Review all alarm sensors, replace bad alarm sensors and install fire/smoke alert sensors in all buildings. Includes boilers, refrigerators, panic buttons, sump pumps, carbon monoxide, headend environmental sensors, etc. 1.00 EA \$ 5,000.00 \$ 5,000.00 1.033 Mechanical Mechanical Mechanical system Replacement 96000.00 SF \$ 22.00 \$ 2,112,000.00 1.033 Install a chemical-based fire suppression system; will not damage the headend room equipment like a water-based system would. 1.00 EA \$ 35,000.00 \$ 35,000.00 1.033	
BS-1 Fire Alarm System Install new addressable system. 96000.00 SF \$ 1.75 \$ 168,000.00 1.033	\$ 11,239.04
BS-1 Fire Alarm System Install new addressable system. 96000.00 SF \$ 1.75 \$ 168,000.00 1.033	\$ 69,732.67
BS-2 Emergency Lighting Install new units in existing fixtures. BS-3 Boiler Room Emergency Power Off Install boiler room emergency power off system. Review all alarm sensors, replace bad alarm sensors and install fire/smoke alert sensors in all buildings. Includes boilers, refrigerators, panic buttons, sump pumps, carbon monoxide, headend environmental sensors, etc. Mechanical Mechanical Mechanical system Replacement MS-15 Head End Fire Suppression Install a chemical-based fire suppression system; will not damage the headend room equipment like a water-based system would. BS-2 Emergency Lighting Install a chemical fixtures. 82.00 EA \$ 300.00 \$ 24,600.00 1.033 1.033 1.033 1.033 1.033 Mechanical BS-4 Phone System - Alarms Deal S 5,000.00 \$ 5,000.00 1.033 Install a chemical-based fire suppression system; will not damage the headend room equipment like a water-based system would. 1.00 EA \$ 35,000.00 \$ 35,000.00 1.033	
BS-3 Boiler Room Emergency Power Off Install boiler room emergency power off system. Review all alarm sensors, replace bad alarm sensors and install fire/smoke alert sensors in all buildings. Includes boilers, refrigerators, panic buttons, sump pumps, carbon monoxide, headend environmental sensors, etc. 1.00 EA \$ 5,000.00 \$ 5,000.00 1.033 Mechanical Mechanical System Replacement MS-15 Head End Fire Suppression Install a chemical-based fire suppression system; will not damage the headend room equipment like a water-based system would. 1.00 EA \$ 35,000.00 \$ 35,000.00 1.033	\$ 173,544.00
Review all alarm sensors, replace bad alarm sensors and install fire/smoke alert sensors in all buildings. Includes boilers, refrigerators, panic buttons, sump pumps, carbon monoxide, headend environmental sensors, etc. Mechanical Mechanical system Replacement Ms-15 Head End Fire Suppression Review all alarm sensors, replace bad alarm sensors and install fire/smoke alert sensors in all buildings. Includes boilers, refrigerators, panic buttons, sump pumps, carbon monoxide, headend environmental sensors, etc. 1.00 EA \$ 5,000.00 \$ 5,000.00 1.033 Install a chemical-based fire suppression system; will not damage the headend room equipment like a water-based system would. 1.00 EA \$ 35,000.00 \$ 35,000.00 1.033	\$ 25,411.80
BS-4 Phone System - Alarms pumps, carbon monoxide, headend environmental sensors, etc. 1.00 EA \$ 5,000.00 \$ 5,000.00 1.033 Mechanical	\$ 2,809.76
Mechanical Mechanical system Replacement 96000.00 SF \$ 22.00 \$ 2,112,000.00 1.033	
Ms-15 Head End Fire Suppression Install a chemical-based fire suppression system; will not damage the headend room equipment like a water-based system would. 1.00 EA \$ 35,000.00 \$ 35,000.00 1.033	\$ 5,165.00
Ms-15 Head End Fire Suppression Install a chemical-based fire suppression system; will not damage the headend room equipment like a water-based system would. 1.00 EA \$ 35,000.00 \$ 35,000.00 1.033	\$ 206,930.56
MS-15 Head End Fire Suppression Install a chemical-based fire suppression system; will not damage the headend room equipment like a water-based system would. 1.00 EA \$ 35,000.00 \$ 35,000.00 1.033	\$ 2,181,696.00
MS-15 Head End Fire Suppression room equipment like a water-based system would. 1.00 EA \$ 35,000.00 \$ 35,000.00 \$ 1.033	2,101,000.00
	\$ 36,155.00
	\$ 2,217,851.00
Plumbing	4050400
PS-1 Domestic Water Pipe Replace with copper pipe. 48000.00 SF \$ 3.75 \$ 180,000.00 1.033	\$ 185,940.00
PS-2 Water Meter Isolation Valves Replace three (3) 3" gate valves. 3.00 EA \$ 1,830.00 \$ 5,490.00 1.033	\$ 5,671.17
PS-3 Investigate Possible Water Pipe Break Investigate as necessary and replace. 1.00 LS \$ 15,000.00 \$ 15,000.00 \$ 1.033	\$ 15,495.00
PS-4 Electric Water Cooler 6.00 EA \$ 4,200.00 \$ 25,200.00 1.033	\$ 26,031.60
PS-5 Sanitary Pipe Replace accessible portions; confined space. 5000.00 SF \$ 4.85 \$ 24,250.00 1.033	\$ 25,050.25
	\$ 258,188.02
Electrical	
ES-1 Electrical Distribution System Replace the original distribution equipment with new. 1.00 EA \$ 32,350.00 \$ 32,350.00 \$ 1.033	\$ 33,417.55
ES-2 Electrical Panels Replace the original panels with new, larger panels in new locations. 15.00 EA \$ 4.875.00 \$ 73,125.00 1.033	\$ 75.538.13
ES-4 Original Lighting Fixtures Replace with more efficient T8 fluorescent fixtures. 2.00 EA \$ 9,000.00 \$ 18,000.00 1.033	
ES-5 Exit Lighting Fixtures Add exit signs. 6.0.0 EA \$ 300.00 \$ 1.800.00 1.033	\$ 18.594.00
ES-6 Exterior Lighting Replace with more efficient LED fixtures. 15.00 EA \$ 520.00 \$ 7.800.00 1.033	\$ 18,594.00 \$ 1.859.40
	\$ 1,859.40
	\$ 1,859.40 \$ 8,057.40
ES-10 Uninterruptible Power Supply Provide 20 kVA UPS to serve racks until generator starts. 1.00 EA \$ 30,890.00 \$ 30,890.00 1.033	\$ 1,859.40 \$ 8,057.40 \$ 80,264.10
ES-11 Electrical Panel Add panel and move non-technology loads from technology panels. 1.00 EA \$ 4,875.00 \$ 4,875.00 1.033	\$ 1,859.40 \$ 8,057.40 \$ 80,264.10 \$ 31,909.37
ES-12 Uninterruptible Power Supply Provide 5 kVA UPS to serve key fob entry, PA and phones. 1.00 EA \$ 11,300.00 \$ 11,300.00 1.033	\$ 1,859.40 \$ 8,057.40 \$ 80,264.10

Anderson Middle School

No.	Item/Description	Action	Qty.	Unit		Unit Cost	Si	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
ES-13	Newer TVSS Electrical Panels (New Item)		1.00	EA	\$	3,000.00	\$	3,000.00	1.033	\$ 3,099.00
ES-14	Newer TVSS Electrical Panels (New Item)	Replace existing TVSS on panels are blown and not protecting circuits	5.00	EA	\$	2,000.00	\$	10,000.00	1.033	\$ 10,330.00
ES-3	Original Lighting Fixtures	Replace with more efficient T8 fluorescent fixtures.	32000.00	SF	\$	6.00	\$ '	192,000.00	1.033	\$ 198,336.00
	Corridor Lighting		14000.00	SF	\$	6.00	\$	84,000.00	1.033	\$ 86,772.00
										\$ 564,885.72
Air Conditioni	ng			•						
					<u> </u>					\$ -
Asbestos Aba										
	Asbestos Abatement- flooring,ceiling,etc.		96000.00	SF	\$	5.00	\$ 4	480,000.00	1	\$ 480,000.00
										\$ 480,000.00
3. New Constr	uction									
New Construc										
	Secure Entryway Addition		225.00	SF	\$	209.00	\$	47,025.00	1.033	\$ 48,576.83
										\$ 48,576.83
	al Technology									
	Educational Technology		1.00	LS	\$	194,693.24	\$ '	194,693.24	1.00	\$ 194,693.24
										\$ 194,693.24
5. Loose Furn	shings/Equipment									
	Technology Infrastructure		1.00	LS	\$	322,250.88		322,250.88	1	\$ 322,250.88
	Equipment		1.00	LS	\$	314,290.52	\$ 3	314,290.52	1.00	\$ 314,290.52
	Furniture Replacement		1.00	EA	\$	40,000.00	\$	40,000.00	1.13	\$ 45,200.00
										\$ 681,741.40

Site Remodeling New Construction Subtotal Construction Contingency Subtotal CM Fees and Costs Subtotal Architectural Fees and Costs Instructional Technology Loose Furnishing/Equipment	7.5% 5.5% 6.5%	* * * * * * * * * * * *	129,125.00 5,624,512.52 48,576.83 5,802,214.35 435,166.08 6,237,380.43 343,055.92 6,580,436.35 427,728.36 194,693.24 681,741.40
Total Project Cost		\$	7,884,599.35

\$ 6,678,648.99

Project No. 6

Name of School Building
Anderson Middle School

- List # of Capacity **Existing/Adequate** Capacity Teaching X **Factor Stations** X (K-2) Lower Elementary 20 0 X 0 (3-5) Upper Elementary 25 (6-8) Junior High 22.5 0 (9-12) High School 21.25 0 **Sub Totals** 0 0
- List # of Capacity Remodeled Capacity Teaching X **Factor Stations** X = (K-2) Lower Elementary 20 0 X 0 (3-5) Upper Elementary 25 X (6-8) Junior High 30 22.5 675 0 (9-12) High School 21.25 **Sub Totals** 30 675

- 1 List the number of teaching station 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 and site plan of the building. Show the rooms and category (adequate, remodeled, proposed new, closed). Number the teaching stations in consecutive order.

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

Total Teaching Stations	- 1 -50 1		
Current Gr. Structure	6-8	Projected	
		5-Year	577
Proposed Gr. Structure	6-8	Enrollment	

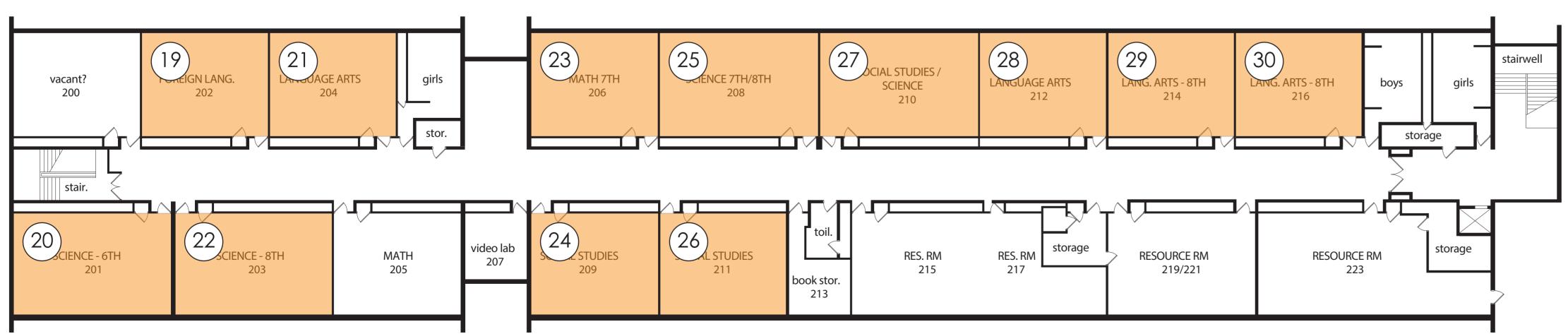
Utilization Percentage	85%
(Projected 5-Year Enrollment / Total Capacity)	03 /6

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

Square Footage for Closed Facility		Total Capacity	0
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Please transfer applicable information to the Utilization Summary on Page 7 of the application.

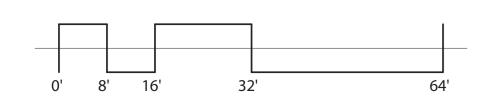


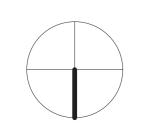














Site Plan Concept for:

Anderson Middle School Berkley School District

Berkley, Michigan





Facility Condition Assessment				
Project Number 6		Anderson Mid	dle Scho	ool
Perform walkthrough inspection of the facility including special-use areas such as the cafeteria, art roscience labs. Please complete the following assessment form by responding to ALL statements.	oms, industrial arts areas, and	Please provide an ove of each section or con deficiencies or special	nment on	any
Health Section		Yes	No	N/A
Visible mold/damage does not exist due to past or present water/moisture leaks.		X		
Indoor surfaces are free of loose and peeling paint.		Х		
Air temperature is comfortable throughout the building.			Χ	
Unique/objectionable odors are not present in specific areas or throughout the building. Air temperature is inconsistent throughout building. Lack of adequate fresh air ventilation leads to odors			Х	
Life Safety Section		Yes	No	N/A
Lighted exit signs are present at each entrance/exit and are clearly visible.		X		
Fire suppression equipment is present in kitchen, science rooms and corridors.		X		
Washroom facilities have barrier free accessibility.			Х	
Building access is limited to select, controlled entries. Washrooms have limited barrier free accessibility.		X		
Structural Section		Yes	No	N/A
Inside masonry walls do not show visible signs of cracks beyond normal aging.		X	INO	1477
Surface cracks do not exist around perimeter of interior/exterior doors and windows.		X		
Roof structure does not show visible signs of damage.		Х		
Building exterior is intact and does not show visible deterioration beyond normal aging. Overall assessment or comments:		X		
Mechanical Section		Yes	No	N/A
Windows and exterior doors prevent inefficient air leakage.		Х		
Water pressure exists to wash hands, supply water fountains, and flush toilets.		X		
Water drains quickly from sinks.		X		
Floor area near toilets and sinks is dry. Overall assessment or comments:		X		
Electrical Section		Yes	No	N/A
 Lighting system provides adequate intensity, diffusion, and distribution of illumination. Electrical controls are safely protected and accessible. 		X		
Classrooms have sufficient outlets to prevent regular use of electrical extension cords.		X		
The proximity of electrical systems or panels is dry and free of standing water.		X		
Overall assessment or comments:				
Certificate by Registered Architect				
I certify that I have assessed the factors described above and that the conditions relative to the facility are true and correct to	, ,		45.470	
Lee A. Andrea, AIA Signature Printed Name	Stantec Architecture, Firm Nar	nc. me and License Number	45478	
1/5/2015 lee.andrea@stantec.com 248.336.4881		248.336.4880		
Date E-mail Address Fax Number	Area Coo	de and Telephone Number	-	

3881 Page 4

			Project Sheet		
Project No.	. 7				
Name of So	chool Building:		Berkley Hig	gh School	
exterior of bu code and saf and phone sy plumbing sys pump and wa	Interactive classroom audio visual equipment and building. Renovation to improve program delivery. Remodeling to meet safety requirements. Upgrades to fire alarm system, emergency lighting, systems. Mechanical system upgrades, including IHVAC. Upgrades to system including replacement of domestic water and sanitary pipe, sumpwater coolers. Replacement of electrical distribution system, panels, exit dilighting fixtures. Asbestos abatement. Project:	nt and student computing			
			 	Site Work Descrir	otion
			Site work asso		7.10.1.
Type of P	roject:				
Type or i		→ New Construction Square Ft		Cost ner Sa Ft	
			800		_ 2
	_				_
	_	or Buses			
		→ ○ Demolish ○	Retain for future use Cor	overt to non-instructional	
		9	_		
		_	,		
Statement	t describing any	existing environmental or	usability problems the	proposed project will	address.
				Proposition 1	
			, more efficient systems.		
	•	·	<u>*</u>		
Estimated	l Cost of Propos	ed Construction Project:		-	•
		Total	Proposal/Series 1	Proposal/Series 2	Proposal/Series 3
New Constru	uction	\$185,940	\$185,940		
Remodeling					
Construction	n Contingencies	\$921,592	\$921,592		
Instructiona	l Technology	\$461,472	\$461,472		
Loose Furni	shing/Equipment	\$1,599,163	\$1,599,163		
Buses					
Site Work					
Site Acquisi					
			-		
CM Fees and	d Costs	\$726,522	\$726,522		
Estimated C (Not including elec			\$16,902,489	\$0	\$0
Г		Contificat	- I Devictored Aughite	-4	
I certify that the de	etails of the proposed project	Certificate (s) described above and the attached detail re			ge and belief.
		Lee A. Andrea,	AIA	Stantec Archit	tecture, Inc. 45478
Signature		Printed Name		Firm Name and	License Number
1/5/2015		<u>lee.andrea@sta</u>	antec.com 248.336.4881	248.336.4880)

E-mail Address

Fax Number

Area Code and Telephone Number

Date



BERKLEY SCHOOL DISTRICT MAY 2015 BOND PROGRAM

Berkley High School

No.	Item/Description	Action	Qty.	Unit	ı	Unit Cost	Subtotal	Indirect Cost	Prop	osed 2015 Bond Scope
1. Site W										
Site Worl			1 4	I = 4	Ι.φ.	00.000.00	Φ 00 000 00	1 000	Ι	22 222 22
	Sitework for addition		1	EA	\$	30,000.00	\$ 30,000.00	1.033	\$ \$	30,990.00 30,990.00
2.Remod	l elina			<u> </u>	<u> </u>				Þ	30,990.00
	Architectural Replacement									
BE-01	Overhangs/Soffits	Provide aluminum soffit panels.	450	SF	\$	20.00	\$ 9,000.00	1.033	\$	9,297.00
BE-02	Brick Veneer at Base of Walls	Control roof drainage where possible and replace brick.	1,000	SF	\$	20.50	\$ 20,500.00	1.033	\$	21,176.50
BE-06	Steel Window Lintels	Lintel restoration	250	LF	\$	18.03	\$ 4,508.50	1.033	\$	4,657.28
BE-07	Steel Doors and Frames	Replace with aluminum frames and fiberglass reinforced panel doors.	2	EA	\$	3,880.00	\$ 7,760.00	1.033	\$	8,016.08
BE-08	Entrance Canopy Soffits	Provide aluminum soffit panels.	200	SF	\$	21.25	\$ 4,250.00	1.033	\$	4,390.25
BE-09	Roof Membrane	Remove and replace with new insulation and single-ply membrane.	4,990	SF	\$	10.00	\$ 49,900.00	1.033	\$	51,546.70
BE-11	Concrete Fascia and Soffit	Replace with aluminum fascia and soffit.	200	SF	\$	15.00	\$ 3,000.00	1.033	\$	3,099.00
BE-12	Stone Window Sills	Provide sealant and/or replace stone sill.	250	LF	\$	30.00	\$ 7,500.00	1.033	\$	7,747.50
BE-13	Metal Fascia Panels	Replace fascia	100	SF	\$	15.00	\$ 1,500.00	1.033	\$	1,549.50
BE-14	Glazed Masonry Window Sills	Replace masonry sills.	40	LF	\$	75.00	\$ 3,000.00	1.033	\$	3,099.00
BE-15	Basement Areaway	Add knee walls and sloped roof over areaway.	280	SF	\$	35.00	\$ 9,800.00	1.033	\$	10,123.40
BE-17	Greenhouse	Replace greenhouse with aluminum structure with acrylic glazing.	200	SF	\$	143.00	\$ 28,600.00	1.033	\$	29,543.80
BE-21	Brick wall structural movement	STANTEC: stabilize and replace wall between above 2nd floor windows.	500	SF	\$	15.00	\$ 7,500.00	1.033	\$	7,747.50
									\$	161,993.51
Interior A	Architectural Replacement							1		
BI-02	Wood Bleachers	Replace bleachers add center aisle and aisle handrails.	1	LS	\$	18,000.00	,	1.033	\$	18,594.00
BI-04	Casework Cabinets	Replace cabinets and counter top.	8	LF	\$	413.00		1.033	\$	3,413.03
BI-05	Ceiling Finishes	Replace Ceiling	7,200	SF	\$	4.50	\$ 32,400.00	1.033	\$	33,469.20

Berkley High School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
BI-06	Ceramic Tile Floor	Replace ceramic tile floor.	1,200	SF	\$ 15.00	18,000.00	1.033	\$ 18,594.00
BI-08	Ceramic Tile Floor	Replace ceramic tile floor.	670	SF	\$ 15.00	10,050.00	1.033	\$ 10,381.65
BI-12	Misc. Wall Replacement	Investigation cause, replace walls.	50	LF	\$ 70.50	3,525.00	1.033	\$ 3,641.33
BI-13	Wood Stage	New finish	675	SF	\$ 3.50	2,362.50	1.033	\$ 2,440.46
BI-14	Seating Steps and Risers	replace	1	LS	\$ 2,000.00	\$ 2,000.00	1.033	\$ 2,066.00
BI-15	Ceiling Drop	Replace ceiling drop.	1,000	SF	\$ 5.75	\$ 5,750.00	1.033	\$ 5,939.75
BI-16	Fixed Seating	Replace seating.	110	EA	\$ 200.00	\$ 22,000.00	1.033	\$ 22,726.00
BI-19	Ceiling	New ceiling	1,720	SF	\$ 4.50	\$ 7,740.00	1.033	\$ 7,995.42
BI-21	Door Thresholds	Provide metal thresholds.	12	LF	\$ 172.50	\$ 2,070.00	1.033	\$ 2,138.31
BI-22	Floor Crack	Install expansion joint	1	LS	\$ 1,200.00	\$ 1,200.00	1.033	\$ 1,239.60
AB-08	Boy's and Girl's Toilet Rooms	Provide new plumbing fixtures, lighting, floor/wall/ceiling finishes, stalls and automatic door operators.	190	SF	\$ 71.20	\$ 13,528.00	1.033	\$ 13,974.42
BI-01	Original Hollow Metal, Wood Doors and Frames	Replace with wood doors and hardware.	155	EA	\$ 1,300.00	\$ 201,500.00	1.033	\$ 208,149.50
BI-03	Carpet	Replace carpet and resilient base.	2,500	SF	\$ 4.50	\$ 11,250.00	1.033	\$ 11,621.25
BI-10	Acoustical Ceiling	Replace with lay-in acoustical panels and grid.	1,760	SF	\$ 17.70	\$ 31,152.00	1.033	\$ 32,180.02
BI-11	Ceramic Tile Floor	Replace ceramic tile floor.	480	SF	\$ 15.00	\$ 7,200.00	1.033	\$ 7,437.60
BI-23	Resilient Flooring	Replace resilient floor and base.	2,215	SF	\$ 4.50	\$ 9,967.50	1.033	\$ 10,296.43
	Classroom Ceilings	Assoicated with mechanical system replacement	69933	SF	\$ 5.50	\$ 384,631.50	1.033	\$ 397,324.34
	Corridor Ceilings	Assoicated with mechanical system replacement	36982	SF	\$ 4.50	\$ 166,419.00	1.033	\$ 171,910.83
	Classroom Flooring	Assoicated with mechanical system replacement	68	EA	\$ 3,600.00	\$ 244.800.00	1.033	\$ 252,878.40
	Classroom Painting	Assoicated with mechanical system replacement	68	EA	\$ 600.00	\$ 40,800.00	1.033	\$ 42,146.40
	VUV Wall Opening	Assoicated with mechanical system replacement	68	EA	\$ 3,000.00	\$ 204,000.00	1.033	\$ 210,732.00
	Bookshelves	Assoicated with mechanical system replacement	68	EA	\$ 750.00	\$ 51,000.00	1.033	\$ 52,683.00
	Visual Display Boards	Assoicated with mechanical system replacement	68	EA	\$ 1,200.00	\$ 81,600.00	1.033	\$ 84,292.80
	. ,	,						\$ 1,628,265.73
Academ	ic Program Improvements		•					
	Renovate media center and adjacent computer labs (rooms 255,257) to provide additional student collaborative/ team project space.		5,200	SF	\$ 90.00	\$ 468,000.00	1.033	\$ 483,444.00
	Renovate design center and room 130, 132, 134, 138 to provide up-to-date, flexible space for design, art and vocal music.		6,100	SF	\$ 90.00	\$ 549,000.00	1.033	\$ 567,117.00
								\$ 1,050,561.00
Code/Saf	fety							
AB-02	Stair Guardrail	Replace guardrail.	15	LF	\$ 232.30	\$ 3,484.50	1.033	\$ 3,599.49
AB-04	Staff Toilets	Add grab bars.	2	EA	\$ 600.00	\$ 1,200.00	1.033	\$ 1,239.60

Berkley High School

No.	Item/Description	Action	Qty.	Unit		Unit Cost		Subtotal	Indirect Cost	Pro	oposed 2015 Bond Scope
AB-10	Open Stairs	Add fire rated separation including doors and frames. Relocate ceiling lights.	1	EA	\$	15,500.00	\$	15,500.00	1.033	\$	16,011.50
AB-11	Automatic Door Operator	Replace door operator	1	LS	\$	1,500.00	\$	1,500.00	1.033	\$	1,549.50
AB-09	Boy's and Girl's Toilet Rooms	Add automatic door operators.	6	EA	\$	2,700.00	\$	16,200.00	1.033	\$	16,734.60
Ruilding	Systems Replacement/ Energy Efficiency									\$	39,134.69
Building	Systems Replacement Energy Emclency		T	T	T		T			1	
BS-1	Fire Alarm System	Install new addressable system.	227000	sf	\$	1.75	\$	397,250.00	1.033	\$	410,359.25
BS-2	Emergency Lighting	Install new units in existing fixtures.	230	EA	\$	300.00	\$	69,000.00	1.033	\$	71,277.00
BS-3	Boiler Room Emergency Power Off	Install Boiler Room EPO system.	2	EA	\$	2,720.00	\$	5,440.00	1.033	\$	5,619.52
BS-4	Phone System - Alarms	Review all alarm sensors, replace bad alarm sensors and install fire/smoke alert sensors in all buildings. Includes boilers, refrigerators, panic buttons, sump pumps, carbon monoxide, headend environmental sensors, etc. Test and corrective actions in budget.	1	EA	\$	5,000.00	\$	5,000.00	1.033	\$	5,165.00
										\$	492,420.77
Mechani	<u> </u>										
	Mechanical System Replacement		227000	SF	\$	21.00	\$	4,767,000.00	1.033	\$	4,924,311.00
Plumbing				ı						\$	4,924,311.00
	Sump Pump	Replace pumping portion of sump system.	1	LS	\$	6,700.00	\$	6,700.00	1.033	\$	6,921.10
PS-2	Sump Pump	Replace with heavy duty commercial duplex system.	1	LS	\$	5,600.00	\$	5,600.00	1.033	\$	5,784.80
PS-3	Sump Pump	Replace with heavy duty commercial duplex system.	1	LS	\$	8,800.00	\$	8,800.00	1.033	\$	9,090.40
PS-4	Domestic Water Pipe	Replace with copper pipe.	6800	SF	\$	3.75	\$	25,500.00	1.033	\$	26,341.50
PS-5	Water Meter Isolation Valves	Replace three (3), 3" gate valves.	3	EA	\$	2,750.00	\$	8,250.00	1.033	\$	8,522.25
PS-6	Sanitary Pipe	Replace accessible portions.	10000	SF	\$	4.75	\$	47,500.00	1.033	\$	49,067.50
PS-7	Water Coolers	Add bi-level water coolers.	10	EA	\$	4,200.00	\$	42,000.00	1.033	\$	43,386.00
PS-8	Kitchen Prep Sink	Replace with rounded corner style to meet Code.	1	LS	\$	4,500.00	\$	4,500.00	1.033	\$	4,648.50
										\$	153,762.05

Berkley High School

No.	Item/Description	Action	Qty. Unit Unit Cos		Unit Cost	Subtotal	Indirect Cost	Pro	oposed 2015 Bond Scope	
Electrical				•						
ES-1	Electrical Distribution System	Replace the original distribution equipment with new.	2	EA	\$	32,350.00	\$ 64,700.00	1.033	\$	66,835.10
ES-2	Electrical Panels	Replace the original panels with new, larger panels in new locations.	20	EA	\$	4,875.00	\$ 97,500.00	1.033	\$	100,717.50
ES-3	Original Lighting Fixtures	Replace with more efficient T8 fluorescent fixtures.	12	EA	\$	6,000.00	\$ 72,000.00	1.033	\$	74,376.00
ES-4	Exit Lighting Fixtures	Add Exit signs	18	EA	\$	300.00	\$ 5,400.00	1.033	\$	5,578.20
ES-5	Exterior Lighting	Replace with efficient LED fixtures in east and west lots.	33	EA	\$	520.00	\$ 17,160.00	1.033	\$	17,726.28
ES-8	Uninterruptible Power Supply	Provide 5 kVA UPS to serve Key Fob entry, PA and Phones	1	EA	\$	11,300.00	\$ 11,300.00	1.033	\$	11,672.90
ES-9	Newer TVSS Electrical Panels (New Item)		3	EA	\$	3,000.00	\$ 9,000.00	1.033	\$	9,297.00
	New Classroom Lighting Fixtures		68	CR	\$	6,000.00	\$ 408,000.00	1.033	\$	421,464.00
	Corridor Lighting		36982		\$	6.00	\$ 221,892.00	1.033	\$	229,214.44
									\$	936,881.42
Air Condi	tioning		•							
MS-24A	Little Theater Air Handling Unit	Install new HVAC unit in same location with chilled water cooling and steam heating.	1	LS	\$	5,508.00	\$ 5,508.00	1.033	\$	5,689.76
MS-23A	Gym/Café Air Handling Unit	Provide new air handling unit with chilled water coil and steam heating coil.	1	LS	\$	8,748.00	\$ 8,748.00	1.033	\$	9,036.68
MS-22A	North Academic Air Handling Unit	Provide new air handling unit with chilled water coil and steam heating coil.	1	LS	\$	8,748.00	\$ 8,748.00	1.033	\$	9,036.68
MS-11	Chiller Plant	Install new chiller plant consisting of approximately two (2) 120-ton air-cooled chillers located on slab outdoors. Associated pumps and trim to be located indoors.	227000	LS	\$	4.50	\$ 1,021,500.00	1.033	\$	1,055,209.50
MS-10A	East Gym HVAC	One (1) new air handling unit with hot water heating and chilled water cooling with insulated supply and return ductwork; approximately 4,000 CFM.	1	EA	\$	42,500.00	\$ 42,500.00	1.033	\$	43,902.50
MS-06A	Classroom Unit Ventilators- HVAC	Install new vertical ducted DX HVAC Unit ventilators, ceiling and lights	37	EA	\$	8,970.57	\$ 331,911.00	1.033	\$	342,864.06
ES-10	Upgrade Service for Additional A/C Loads		1	LS	\$	300,000.00	\$ 300,000.00	1.033	\$	309,900.00
									\$	1,775,639.20
Asbestos	Abatement									
	Asbestos Abatement- flooring, ceiling, etc.		227000	SF	\$	4.00	\$ 908,000.00	1.000	\$	908,000.00
									\$	908,000.00

Berkley High School

No.	Item/Description	Action		Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Bond Scope	
3. New C	3. New Construction								
New Con	struction								
	Controlled entry lobby at at main entrance	Addition: Entry/vestibule at current main entry	800	SF	\$ 225.00	\$ 180,000.00	1.033	\$ 185,940.00	
								\$ 185,940.00	
4. Instruc	tional Technology								
	Educational Technology		1	LS	\$ 461,471.78	\$ 461,471.78	1.000	\$ 461,471.78	
								\$ 461,471.78	
5. Loose	Furnishings/ Equipment								
	Equipment		1	LS	\$ 744,947.30	\$ 744,947.30	1.000	\$ 744,947.30	
	Technology Infrastructure		1	LS	\$ 763,815.36	\$ 763,815.36	1.000	\$ 763,815.36	
	Furniture Replacement		1	EA	\$ 80,000.00	\$ 80,000.00	1.130	\$ 90,400.00	
								\$ 1,599,162.66	

		\$ 14,348,533.80
Site		\$ 30,990.00
Remodeling		\$ 12,070,969.36
New Construction		\$ 185,940.00
Subtotal		\$ 12,287,899.36
Construction Contingency	7.5%	\$ 921,592.45
Subtotal		\$ 13,209,491.82
CM Fees and Costs	5.5%	\$ 726,522.05
Subtotal		\$ 13,936,013.87
Architectural Fees and Costs	6.5%	\$ 905,840.90
Instructional Technology		\$ 461,471.78
Loose Furnishing/Equipment		\$ 1,599,162.66
Total Project Cost		\$ 16,902,489.21

Project 7

Name (of School Building
Berkle	y High School

- List # of Capacity **Existing/Adequate** Capacity Teaching X **Factor Stations** X (K-2) Lower Elementary 20 0 X 0 (3-5) Upper Elementary 25 (6-8) Junior High 22.5 0 0 (9-12) High School 21.25 **Sub Totals** 0 0
- List # of Capacity Remodeled Capacity Teaching X **Factor Stations** X = (K-2) Lower Elementary 20 0 X 0 (3-5) Upper Elementary 25 X (6-8) Junior High 22.5 0 (9-12) High School 21.25 1,424 **Sub Totals** 67 1,424

- 1 List the number of teaching station 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 and site plan of the building. Show the rooms and category (adequate, remodeled, proposed new, closed). Number the teaching stations in consecutive order.

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

Total Teaching Stations	67	Total Capacity	1,424
Current Gr. Structure	9-12	Projected 5-Year	1,287
Proposed Gr. Structure	9-12	Enrollment	1,207

Utilization Percentage	90%
(Projected 5-Year Enrollment / Total Capacity)	30 /6

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

Square Footage for Closed Facility		Total Capacity	0
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Please transfer applicable information to the Utilization Summary on Page 7 of the application.



CONS. SCI. LAB 125

LITTLE THEATER/CHOIR 183

(36)

office



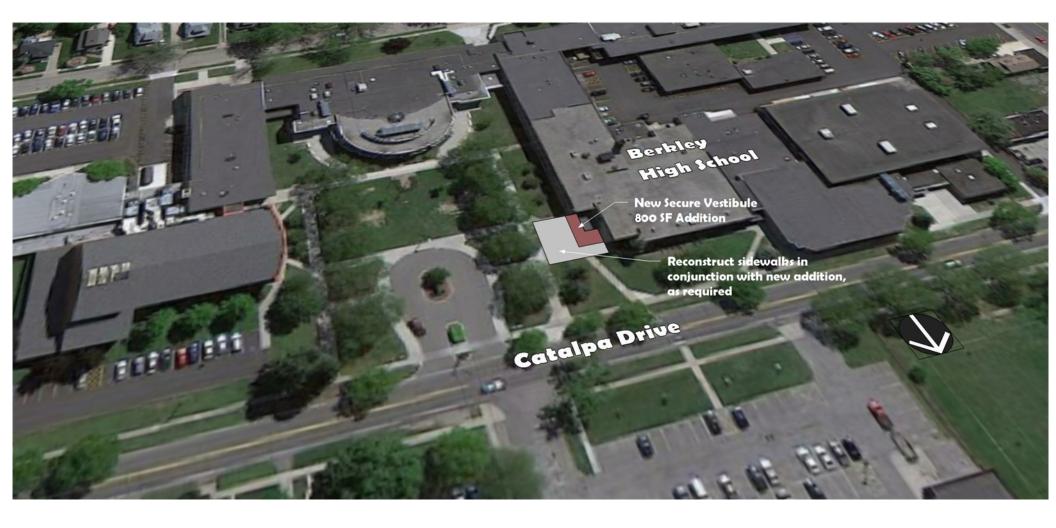




Teaching Stations







Site Plan Concept for:

Berkley High School Berkley School District

Berkley, Michigan





	Facility Co	ndition Assessment				
Project Number 7				Berkley F	ligh Schoo	ol
	inspection of the facility including special-use areas such complete the following assessment form by responding to		arts areas, and	Please provide and of each section or of deficiencies or specific	omment or	n any
Health Section				Yes	No	N/A
	nage does not exist due to past or present water/moisture	e leaks.		X	140	1477
	are free of loose and peeling paint.			Х		
	is comfortable throughout the building.				X	
	nable odors are not present in specific areas or throughou tent throughout the building. Lack of adequate fresh air leads to odors.	it the building.			_ X	
Life Safety Section	1			Yes	No	N/A
	 s are present at each entrance/exit and are clearly visible 	<u> </u>		X	140	147.
	n equipment is present in kitchen, science rooms and corn			X		
	ties have barrier free accessibility.			X		
4. Building access Overall assessment or col	is limited to select, controlled entries. nments:			X		
Structural Section				Yes	No	N/A
	walls do not show visible signs of cracks beyond normal a			X		
	do not exist around perimeter of interior/exterior doors and oes not show visible signs of damage.	d windows.		X		
	is intact and does not show visible deterioration beyond	normal aging.		X		
	n kterior doors prevent inefficient air leakage. exists to wash hands, supply water fountains, and flush t	nilete.		Yes X	No	N/A
 Water pressure Water drains qu 		JIIEGS.		X		
	toilets and sinks is dry.			X		
Overall assessment or con Electrical Section 1. Lighting system	provides adequate intensity, diffusion, and distribution of	illumination.		Yes X	No	N/A
Electrical control	ls are safely protected and accessible.			X		
	e sufficient outlets to prevent regular use of electrical ext			X		
4. The proximity of Overall assessment or con	electrical systems or panels is dry and free of standing wannents:	rater.		X		
		Registered Architect				
I certify that I have assess	ed the factors described above and that the conditions relative to the fa Lee A. Andrea, AIA	icility are true and correct to the best of my kr	owledge and belief. Stantec Architecture,	Inc.	45478	
Signature 1/5/2015	Printed Name lee.andrea@stantec.com	248.336.4881	Firm Nan	ne and License Number		
Date	F-mail Address	Fax Number	Area Cod	e and Telephone Num	her	

3881 Page 4

Project Sheet

	1			1	Froject Sile	et		
Project No.	8							
Name of Sc	hool Buildin	Instructional Technology Description Instructional Technology Descri						
D	-f Duamana	0! -	a 4 Duale at				la stancetta a el Techarelo ar	. D. a. windian
General remo security and p and phone sy- including repla replacement of distribution sy	deling of interior program deliver stems. Mechar acement of unit of domestic wat stem, panels, r	or and ext y. Upgrad nical upgrad t ventilato ter and wa receptacle	terior of building des to fire alarn ades to hot wat ors. Upgrades t ater coolers. Ro es. Asbestos al	n system, emen ter system and to plumbing sys eplacement of e batement. Intera	gency lighting, HVAC, tem including electrical		mstructional recimolog	y Description
	Avery Building secription of Proposal or Series 1 Project: secription of Project: New Building New Construction Square Ft. Site Work Description Site work to improve site drainage. Site Work Read of the Series of Series 1 Project: Site Work Read of the Series of Series 1 Project: Site Work Read of the Series of Series 1 Project: Site Work Read of the Series of Series 1 Project: Site Work Read of the Series of Series 1 Project: Site Work Read of the Series of Series 1 Project: Site Work Read of the Series of Series 1 Project: Site Work Read of the Series of Series 1 Project: Site Work Sell of Lesse Undetermined tatement describing any existing environmental or usability problems the proposed project will address. X: asbestos, energy use, or ADA requirements) Bibostos abstracent, replacement of mechanical systems with newer, more efficient systems. Total Proposal/Series 1 Proposal/Series 2 Proposal/Series 3 Series 2 Series 3 S	ntion						
						Site work to in		F 1011
Type of Pr	New Buildin Addition(s) Remodeling Technology Site Work	→ and/or B	New Addition Souses	quare Ft		re use 🔘 Cor	Cost per Sq Ft	<u> </u>
(ex: asbes	tos, energy	use, o	r ADA requi	irements)			proposed project wil	address.
Estimated	Cost of Pro	posed	Constructi	on Project:	(Attach an	alysis shov	ving how cost estimat	es were calculated.)
				•	•	-	-	Proposal/Series 3
Remodeling Construction Instructional	Contingencie			\$2,517,124 \$192,154 \$0		\$2,517,124 \$192,154 \$0		
Loose Furnis Buses	shing/Equipme	ent						
Site Work					-			-
Site Acquisit	ion			\$0		\$0		
Architectural	Fees and Cos	sts		\$188,870	-	\$188,870		
CM Fees and	Costs			\$151,482		\$151,482		-
		e costs)		\$3,447,166	\$	3,447,166	\$0	\$0
I certify that the de	tails of the proposed	l project(s) d	escribed above and					dge and belief.
				·	AIA			*
Signature 1/5/2015					antec com	248.336.4881		
1/3/2013				ice.anurea@St	antec.com	40.000.400 I	240.330.400	· ·

E-mail Address

Fax Number

Area Code and Telephone Number

Date



BERKLEY SCHOOL DISTRICT MAY 2015 BOND PROGRAM

No.	Item/Description	Action	Qty.	Unit	Unit Cost		Subtotal Indirect Cost		Prop	osed 2015 Bond Scope
1. Site W										
	K Site Drainage	Add landscape drain tile to storm system.	2,900	SF	\$ 15.0) \$	43.500.00	1.033	s	44.935.50
DE-14		Add landscape drain tile to storm system.	2,900	SF	φ 15.0°	J Ø	43,300.00	1.033	\$	44,935.50
2. Remod	doling								ą.	44,935.50
	Architectural Replacement									
	Overhangs/Soffits	Provide aluminum soffit panels.	2,200	SF	\$ 20.0	0 \$	44,000.00	1.033	\$	45,452.00
	Brick Veneer at Base of Walls	Control roof drainage where possible and replace brick and glass block	2,750	SF	\$ 15.3	•	42,240.00	1.033	\$	43,633.92
BE-03	Sealant at Door and Window Openings		1,400	LF	\$ 4.7	5 \$	6,650.00	1.033	\$	6,869.45
BE-04	Aluminum Windows/Steel Lintels		650	LF	\$ 5.5	3 \$	3,592.00	1.033	\$	3,710.53
BE-07	Steel Doors and Frames	Replace with aluminum frames and fiberglass reinforced panel doors.	5	EA	\$ 3,280.0	\$	16,400.00	1.033	\$	16,941.20
BE-08	Clerestory Windows	Replace with aluminum frames and insulating glass.	400	SF	\$ 80.0	\$	32,000.00	1.033	\$	33,056.00
BE-09	Entrance Canopy Soffits	Provide aluminum soffit panels.	1,600	SF	\$ 20.0	\$	32,000.00	1.033	\$	33,056.00
BE-10	Roof Membrane	Remove and replace with new insulation and single ply membrane.	14,060	SF	\$ 10.0	\$	140,600.00	1.033	\$	145,239.80
BE-11	Entrance Canopy Columns		19	EA	\$ 75.0	\$	1,425.00	1.033	\$	1,472.03
BE-12	Roof Drainage	Correct roof drainage and downspouts, replace brick.	2,400	SF	\$ 15.2	5 \$	36,600.00	1.033	\$	37,807.80
BE-15	Brick Veneer	Replace brick	100	SF	\$ 25.0	\$	2,500.00	1.033	\$	2,582.50
									\$	369,821.23
	Architectural Replacement	Tana a sa	1 .		T				1.	
BI-07	Room Access	Add door and frame into corridor.	1	EA	\$ 3,990.0) \$	3,990.00	1.033	\$	4,121.67
BI-09	Boy's and Girl's Toilet Rooms	Provide new plumbing fixtures, lighting, floor/wall/ceiling finishes, stalls and automatic door operators.	1,410	SF	\$ 87.5	\$	123,375.00	1.033	\$	127,446.38
BI-01	Original Wood Doors and Frames	Replace with wood doors and hardware.	50	EA	\$ 1,300.0) \$	65,000.00	1.033	\$	67,145.00
BI-06	Original Acoustical Tile Ceilings	Replace with acoustical panels with concealed grid and new lighting (existing acoustic tile to remain).	20,000	SF	\$ 5.5	\$	110,000.00	1.033	\$	113,630.00
BI-03	Corridor Carpet	Replace carpet and resilient base.	6.080	SF	\$ 4.5) \$	27.360.00	1.033	\$	28,262,88

No.	Item/Description	Action	Qty.	Unit		Unit Cost	Subtotal	Indirect Cost	Prop	posed 2015 Bond Scope
BI-04	Corridor Lay-in Acoustical Ceilings	Replace acoustical ceilings and grid.	6,080	SF	\$	4.50	\$ 27,360.00	1.033	\$	28,262.88
	Classroom Flooring	Assoicated with mechanical system replacement	20,000	SF	\$	4.50	\$ 90,000.00	1.033	\$	92,970.00
	Visual Display Boards	Assoicated with mechanical system replacement	21	CR	\$	1,200.00	\$ 25,200.00	1.033	\$	26,031.60
	Classroom Painting	Assoicated with mechanical system replacement	21	CR	\$	600.00	\$ 12,600.00	1.033	\$	13,015.80
	Bookshelves	Assoicated with mechanical system replacement	21	CR	\$	750.00	\$ 15,750.00	1.033	\$	16,269.75
0 1 6									\$	517,155.96
Code/Sat	гету Т	I	I		T T				\$	
Building	Systems Replacement/ Energy Efficiency				<u> </u>				, a	-
BS-1	Fire Alarm System	Install new addressable system with smoke and CO detectors for Day Care.	37000	sf	\$	1.75	\$ 64,750.00	1.033	\$	66,886.75
BS-2	Emergency Lighting	Install new units in existing fixtures.	29	EA	\$	300.00	\$ 8,700.00	1.033	\$	8,987.10
BS-3	Boiler Room Emergency Power Off	Install new EPO system.	1	LS	\$	2,720.00	\$ 2,720.00	1.033	\$	2,809.76
BS-4	Phone System - Alarms	Review all alarm sensors, replace bad alarm sensors and install fire/smoke alert sensors in all buildings. Includes boilers, refrigerators, panic buttons, sump pumps, carbon monoxide, headend environmental sensors, etc. Test and corrective actions in budget.	1	EA	\$	5,000.00	\$ 5,000.00	1.033	\$	5,165.00
									\$	83,848.61
Mechanic							100 505 55	4.000		
MS-01	Building Controls	Provide new DDC controls throughout.	37000	SF	\$	3.50	\$ 129,500.00	1.033	\$	133,773.50
MS-10	Head End Air Conditioning	Install new split air conditioning unit; approximately 1.5-tons.	1	EA	\$	15,500.00	\$ 15,500.00	1.033	\$	16,011.50
MS-08	Board Room HVAC	Replace with like and kind; 10-ton unit.	1	EA	\$	31,500.00	\$ 31,500.00	1.033	\$	32,539.50
MS-02	Boilers	Two (2) new heating hot water boilers at 2,500 MBH each and all associated trim and accessories	2	EA	\$	65,000.00	\$ 130,000.00	1.033	\$	134,290.00
MS-02A	Hot Water System	Provide new chemical treatment for heating hot water system	1	LS	\$	2,000.00	\$ 2,000.00	1.033	\$	2,066.00
MS-02B	Hot Water System	Provide coalescing air and dirt separator for heating hot water system	1	LS	\$	3,500.00	\$ 3,500.00	1.033	\$	3,615.50

No.	Item/Description	Action	Qty.	Unit		Unit Cost	Subtotal	Indirect Cost	Prop	osed 2015 Bond Scope
MS-02C	Hot Water System	Provide expansion tank for heating hot water system	1	LS	\$	4,100.00	\$ 4,100.00	1.033	\$	4,235.30
MS-03	Hot Water Heating Pumps	Provide end-suction, base mounted pumps with VFDs	4	EA	\$	15,350.00	\$ 61,400.00	1.033	\$	63,426.20
MS-05	Gym Air Handling Unit	Replace with like and kind; approximate 2,000 CFM each.	2	EA	\$	42,360.00	\$ 84,720.00	1.033	\$	87,515.76
MS-06	Roof Mounted Heating and Ventilating Units	Replace with like and kind; 3,000 CFM.	7	EA	\$	20,000.00	\$ 140,000.00	1.033	\$	144,620.00
MS-07	Roof Hoods and Exhaust Fans	Replace with like and kind.	5	EA	\$	2,000.00	\$ 10,000.00	1.033	\$	10,330.00
MS-09	Ceiling Hung Unit Ventilator	Replace with like and kind; 2.5-ton unit.	1	EA	\$	15,000.00	\$ 15,000.00	1.033	\$	15,495.00
MS-11	Head End Fire Suppression	Install a chemical-based fire suppression system; will not damage the headend room equipment like a water-based system would.	1	EA	\$	35,000.00	\$ 35,000.00	1.033	\$	36,155.00
Diversities									\$	684,073.26
Plumbing		In. 1	45000	lor	Ι.	0.75	6 50.050.00	4.000	١.	50 400 05
	Domestic Water Pipe	Replace with copper pipe.	15000	SF EA	\$			1.033 1.033	\$	58,106.25
PS-2	Water Meter Isolation Valves	Replace three (3) 3" gate valves.	3	EA	\$	1,830.00	\$ 5,490.00	1.033	\$	5,671.17
PS-3	Water Coolers	Install new bi-level electric water cooler.	2	EA	\$	5,350.00	\$ 10,700.00	1.033	\$	11,053.10
F1(.*				1					\$	74,830.52
Electrical					1		1		1	
ES-1	Electrical Distribution System	Replace the original distribution equipment with new.	1	EA	\$	24,500.00	\$ 24,500.00	1.033	\$	25,308.50
ES-2	Electrical Panels	Replace the original panels with new, larger panels in new locations.	6	EA	\$	4,875.00	\$ 29,250.00	1.033	\$	30,215.25
ES-3	Electrical Receptacles	Replace all receptacles with tamper resistant type receptacles.	60	EA	\$	55.00	\$ 3,300.00	1.033	\$	3,408.90
ES-4	Exterior Lighting	Replace with more efficient LED fixtures.	14	EA	\$	520.00	\$ 7,280.00	1.033	\$	7,520.24
ES-6	Back-up Generator	Provide generator back-up system to serve racks. 15 kVA, 3 Phase	1	LS	\$	27,950.00	\$ 27,950.00	1.033	\$	28,872.35
ES-8	Uninterruptible Power Supply	Provide UPS to serve racks until generator starts	1	EA	\$	30,815.00	\$ 30,815.00	1.033	\$	31,831.90
ES-9	Electrical Panel	Add panel and move non-technology loads from technology panels.	1	EA	\$	4,875.00	\$ 4,875.00	1.033	\$	5,035.88
ES-10	Uninterruptible Power Supply	Provide 5 kVA UPS to serve Key Fob entry, PA and Phones	1	EA	\$	11,300.00	\$ 11,300.00	1.033	\$	11,672.90

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Prop	oosed 2015 Bond Scope
ES-11	Newer TVSS Electrical Panels (New Item)		1	EA	\$ 3,000.00	\$ 3,000.00	1.033	\$	3,099.00
ES-12	Newer TVSS Electrical Panels (New Item)	Replace existing TVSS on panels are blown and not protecting circuits	4	EA	\$ 2,000.00	\$ 8,000.00	1.033	\$	8,264.00
	Classroom Lighting		20000	SF	\$ 6.00	\$ 120,000.00	1.033	\$	123,960.00
	Corridor Lighting		6080	SF	\$ 6.00	\$ 36,480.00	1.033	\$	37,683.84
								\$	316,872.75
Air Cond	itioning								
MS-06A	Roof Mounted HVAC	Replace existing units with HVAC and insulated ductwork.	7	EA	\$ 15,200.00	\$ 106,400.00	1.033	\$	109,911.20
MS-05A	Gym HVAC	Add DX rooftop unit with new distribution ductwork.	2	EA	\$ 35,000.00	\$ 70,000.00	1.033	\$	72,310.00
ES-13	Upgrade Service for Additional A/C Loads		1	LS	\$ 100,000.00	\$ 100,000.00	1.033	\$	103,300.00
								\$	285,521.20
Asbestos	S Abatement								
	Asbestos Abatement- flooring, ceiling, etc.		37000	SF	\$ 5.00	\$ 185,000.00	1.000	\$	185,000.00
								\$	185,000.00
3. New Co	onstruction								
New Con	struction		•	•					
					·			\$	-
4. Instruc	tional Technology								
								\$	-

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Scope	Bond
5. Loose	Furnishings/ Equipment								
	Equipment		1	LS	\$ 142,027.15	\$ 142,027.15	1.00	\$ 142,02	27.15
	Technology		1	LS	\$ 68,271.81	\$ 68,271.81	1.00	\$ 68,27	71.81
	Technology Infrastructure		1	LS	\$ 125,351.52	\$ 125,351.52	1.000	\$ 125,38	51.52
	Furniture Replacement		1	EA	\$ 15,000.00	\$ 15,000.00	1.130	\$ 16,95	50.00
								\$ 352,6	600.48

		\$ 2,914,659.50
Site		\$ 44,935.50
Remodeling		\$ 2,517,123.52
New Construction		\$ -
Subtotal		\$ 2,562,059.02
Construction Contingency	7.5%	\$ 192,154.43
Subtotal		\$ 2,754,213.45
CM Fees and Costs	5.5%	\$ 151,481.74
Subtotal		\$ 2,905,695.19
Architectural Fees and Costs	6.5%	\$ 188,870.19
Instructional Technology		\$ -
Loose Furnishing/Equipment		\$ 352,600.48
Total Project Cost		\$ 3,447,165.86

Avery Building



Facility Condition Assessment

	Facility Condition	Assessment			
Project Number 8			Avery Bu	ilding	
•	inspection of the facility including special-use areas such as the complete the following assessment form by responding to ALL st		Please provide an ove of each section or con deficiencies or specia	nment on	any
Health Section			Van	No	N/A
	age does not exist due to poet or procent water/maieture leaks		Yes	NO	IN/A
	nage does not exist due to past or present water/moisture leaks. are free of loose and peeling paint.		X		
	is comfortable throughout the building.			Х	
	nable odors are not present in specific areas or throughout the bi	ıilding		X	
Air temperature is inconsis	tent throughout building. Lack of adequate fresh air ventilation leads to odors				
Life Safety Section	1		Yes	No	N/A
Lighted exit sign	s are present at each entrance/exit and are clearly visible.		Х		
	n equipment is present in kitchen, science rooms and corridors.		Х		
	ties have barrier free accessibility.			Х	
4. Building access Washrooms have limited by	is limited to select, controlled entries.		X		
Structural Section			Yes	No	N/A
	walls do not show visible signs of cracks beyond normal aging.		X		
	do not exist around perimeter of interior/exterior doors and windo	WS.	X		
	oes not show visible signs of damage.		X		
Building exterior Overall assessment or core	is intact and does not show visible deterioration beyond normal	aging.	X		
Mechanical Section	n		Yes	No	N/A
	tterior doors prevent inefficient air leakage.		X	140	
	exists to wash hands, supply water fountains, and flush toilets.		X		
Water drains qu			X		
	toilets and sinks is dry.		X		
Overall assessment or con	nments:		l Vo-	Na	N/A
Electrical Section 1. Lighting system	provides adequate intensity, diffusion, and distribution of illumina	ation	Yes X	No	N/A
	ls are safely protected and accessible.		X		
	e sufficient outlets to prevent regular use of electrical extension	cords.	Х		
4. The proximity of	electrical systems or panels is dry and free of standing water.		Х		
Overall assessment or con	nments: Certificate by Regist	ered Architect			
I certify that I have assess	ed the factors described above and that the conditions relative to the facility are				
	Lee A. Andrea, AIA	Stantec Architecture,		45478	
Signature	Printed Name		ne and License Number		
1/5/2015	lee.andrea@stantec.com		248.336.4880		
Date	E-mail Address	Fax Number Area Cod	e and Telephone Numbe	r	

3881 Page 4

Project Sheet

					Froject Sile	GI							
Project No.	9												
Name of Sc	hool Buildin	g:				Tyndall Center							
Description	of Proposal	or Sorie	s 1 Project:				Instructional Technology	Description					
General remo security. Rem alarm system water system plumbing syst water coolers.	deling of interion odeling to mee and emergency light and HVAC, income including reasons. Replacement	or and extended and the code an	terior of building nd safety require	ements. Upgrans. Mechanical nit ventilators. I water and sanit system, panels,	des to fire upgrades to hot Upgrades to ary pipe and , receptacles,		mistractional recimology	Description					
visual equipm	ent and studer	nt comput	ing devices.										
							Site Work Descri	otion					
Type of Pr	oiect:												
Type of Fi		`	Nav. Canaturatia	n Causan Et			Cook non Co Et						
	New Buildin	-	New Construction	_			Cost per Sq Ft	_					
	☐ Addition(s) ✓ Remodeling		New Addition Sq	uare Ft.			Cost per Sq Ft	_					
	=		lucos										
	Technology	and/or B	suses										
	Site Work		O -			0.6	and the second section of the section						
	Facility Clos	\rightarrow				e use \bigcirc Cor	nvert to non-instructional						
			⊖s	ell or Lease (Undetermined								
Statement	describing	any ex	isting envir	onmental o	r usability pro	oblems the	proposed project will	address.					
			r ADĂ requi										
					r, more efficient s	vstems							
ASDCSIOS aba	terrierit, repiaci	THEFIT OF H	iccilariicai syst	JIII3 WILIT HEWEI	, more emolent s	ystems.							
Catimatad	Coot of Du		Comptuncti	an Duaisati	(Attack on	ducia abau	vina have and antimate						
Estimated	Cost of Pro	posea	Construction	on Project:	(Attach and	aiysis snov	ving how cost estimate	es were caiculated.)					
			Tot	tal	Proposal/	Series 1	Proposal/Series 2	Proposal/Series 3					
N 0	-4!			Φ0		C O							
New Constru	ction			\$0		\$0							
Remodeling				\$2,057,600		\$2,057,600							
	Contingencie	S		\$154,320		\$154,320							
Instructional				\$0		\$0							
Loose Furnis	hing/Equipme	ent		\$225,518		\$225,518		-					
Buses				\$0		\$0							
Site Work				\$0		\$0							
Site Acquisit	ion			\$0		\$0							
Architectural	Fees and Cos	sts		\$151,682		\$151,682							
CM Fees and	Costs			\$121,656	-	\$121,656		-					
Estimated Co	osts tion or bond issuanc	ce costs)		<u>\$2,710,776</u>	\$2	,710,776	\$0	\$0					
					e by Register								
I certify that the de	tails of the proposed	l project(s) d	lescribed above and	the attached detail re	elative to the constructi	on project(s) are tr	ue and correct to the best of my knowled	ge and belief.					
				Loo A Andres	۸۱۸		Ctantaa Arabi	tooturo Ino. 45470					
Signature				Lee A. Andrea, Printed Name	, AIA		Stantec Archi	tecture, Inc. 45478 License Number					
=					rantoo com	240 226 4004							
1/5/2015				lee.andrea@st	antec.com	248.336.4881	248.336.4880	,					

E-mail Address

Fax Number

Area Code and Telephone Number

Date



BERKLEY SCHOOL DISTRICT MAY 2015 BOND PROGRAM

Tyndall Center

No.	Item/Description	Action	Qty.	Unit	Un	nit Cost	Subtotal	Indirect Cost	Prop	osed 2015 Bond Scope
1. Site Work					•					
Site Work										
									\$	-
2. Remodeling										
Exterior Archi	tectural Replacement		T	1	1	ı		T		
BE-01	Aluminum Storefront and Doors	Replace with a better quality, higher thermal resistance storefront system with doors.	1,350	SF	\$	75.00	\$ 101,250.00	1.033	\$	104,591.25
BE-02	Foundation Wall	Add concrete sill wall or slab at building perimeter.	600	SF	\$	22.00	\$ 13,200.00	1.033	\$	13,635.60
BE-03	Fascia	Replace fascia panels with a more durable material.	900	SF	\$	25.00	\$ 22,500.00	1.033	\$	23,242.50
BE-04	Soffits	Replace soffits with a more durable material.	1,100	SF	\$	25.00	\$ 27,500.00	1.033	\$	28,407.50
BE-04	Steel Doors and Frames	Replace with aluminum frames and FRP doors.	12	EA	\$:	3,200.00	\$ 38,400.00	1.033	\$	39,667.20
									\$	209,544.05
Interior Archit	ectural Replacement									
BI-05	Accordion Folding Doors	Replace with Dutch style doors in HM frames.	7	EA	\$ 2	2,350.00	\$ 16,450.00	1.033	\$	16,992.85
AB-01	Toilet Rooms	Provide new plumbing fixtures, lighting, floor/wall/ceiling finishes, stalls and automatic door operators.	960	SF	\$	79.20	\$ 76,032.00	1.033	\$	78,541.06
BI-01	Original Hollow Metal, Wood Doors and Frames	Replace with wood doors and hardware (Dutch style doors at classrooms).	33	EA	\$	1,302.27	\$ 42,975.00	1.033	\$	44,393.17
BI-08	Resilient Tile	Replace resilient floor and base.	9,280	SF	\$	4.50	\$ 41,760.00	1.033	\$	43,138.08
BI-06	Lay-in Acoustical Ceilings	Replace acoustical ceilings and grid (lighting covered in lighting section)	11,680	SF	\$	5.50	\$ 64,240.00	1.033	\$	66,359.92
BI-04	Lay-in Acoustical Ceilings	Replace acoustical ceilings and grid (lighting covered in lighting section)	8,800		\$	4.50	\$ 39,600.00	1.033	\$	40,906.80
BI-03	Corridor Carpet	Replace carpet and resilient base.	5,400	SF	\$	4.50	\$ 24,300.00	1.033	\$	25,101.90
	Visual Display Boards	Assoicated with mechanical system replacement	10	CR	\$	1,200.00	\$ 12,000.00	1.033	\$	12,396.00
	Classroom Painting	Assoicated with mechanical system replacement	10	CR	\$	600.00	\$ 6,000.00	1.033	\$	6,198.00

Tyndall Center

No.	Item/Description	Action	Qty.	Unit	l	Jnit Cost	Subtotal	Indirect Cost	Pro	pposed 2015 Bond Scope
	Bookshelves	Assoicated with mechanical system replacement	10	CR	\$	750.00	\$ 7,500.00	1.033	\$	7,747.50
	VUV wall opening	Assoicated with mechanical system replacement	10	CR	\$	3,000.00	\$ 30,000.00	1.033	\$	30,990.00
2 1 12 1					<u> </u>				\$	372,765.28
Code/Safety					1					
AB-02	Exit Door Concrete Slabs	Replace concrete slabs at exit doors.	120	SF	\$	115.00	\$ 13,800.00	1.033	\$	14,255.40
					<u> </u>				\$	14,255.40
Building Syst	tems Replacement/ Energy Efficiency				,					
BS-1	Fire Alarm System	Install new addressable system with smoke and CO detectors for Day Care.	24000	SF	\$	1.75	\$ 42,000.00	1.033	\$	43,386.00
BS-2	Emergency Lighting	Install new units in existing fixtures.	20	EA	\$	300.00	\$ 6,000.00	1.033	\$	6,198.00
BS-3	Phone System - Alarms	Review all alarm sensors, replace bad alarm sensors and install fire/smoke alert sensors in all buildings. Includes boilers, refrigerators, panic buttons, sump pumps, carbon monoxide, headend environmental sensors, etc. Test and corrective actions in budget.	1	EA	\$	5,000.00	\$ 5,000.00	1.033	\$	5,165.00
Mechanical									Þ	54,749.00
Mechanical		1			Т				\$	709,252.64
Plumbing	+	L			-				Ψ	103,232.04
PS-1	Add Classroom Sinks	Second sink required by code.	5	EA	\$	1,200.00	\$ 6,000.00	1.033	\$	6,198.00
PS-2	Domestic Water Pipe	Replace with copper pipe.	19000	SF	\$	3.25	\$ 61,750.00	1.033	\$	63,787.75
PS-3	Water Meter Isolation Valves	Replace three (3), 2" gate valves.		EA	\$	1,750.00	5,250.00	1.033	\$	5,423.25
PS-4	Sanitary Pipe	Replace accessible portions.	10000		\$	4.35	43,500.00	1.033	\$	44,935.50
PS-5	Water Coolers	Install all new drinking fountains.	8	EA	\$	3,000.00	\$ 24,000.00	1.033	\$	24,792.00
F1(\$	145,136.50
Electrical		1								
ES-1	Electrical Distribution System	Replace the original distribution equipment with new.	2	EA	\$	15,900.00	\$ 31,800.00	1.033	\$	32,849.40

Tyndall Center

No.	Item/Description	Action	Qty.	Unit	Ur	nit Cost	Subtotal		Indirect Cost	Prop	oosed 2015 Bond Scope
ES-2	Electrical Panels	Replace the original panels with new, larger panels in new locations.	4	EA	\$	4,875.00	\$	19,500.00	1.033	\$	20,143.50
ES-3	Electrical Receptacles	Replace all receptacles with tamper resistant devices.	60	EA	\$	55.00	\$	3,300.00	1.033	\$	3,408.90
ES-4	Original Lighting Fixtures	Replace fixtures with more efficient T8 fluorescent lamps.	24000	SF	\$	9.00	\$	216,000.00	1.033	\$	223,128.00
ES-5	Exit Lighting Fixtures	Add Exit signs	19	EA	\$	300.00	\$	5,700.00	1.033	\$	5,888.10
									1.033		
ES-6	Exterior Lighting	Install efficient LED fixtures in soffit above door.	17	EA	\$	1,020.00	\$	17,340.00		\$	17,912.22
ES-8	Uninterruptible Power Supply	Provide 5 kVA UPS to serve Key Fob entry, PA and Phones		EA		1,300.00		11,300.00	1.033	\$	11,672.90
ES-9	Newer TVSS Electrical Panels (New Item)		1	EA		3,000.00		3,000.00	1.033	\$	3,099.00
	Classroom Lighting		13000		\$	6.00	\$	78,000.00	1.033	\$	80,574.00
	Corridor Lighting		5360	SF	\$	6.00	\$	32,160.00	1.033	\$	33,221.28
										\$	431,897.30
Air Conditioni	ing									_	
A . I										\$	-
Asbestos Aba	Asbestos Abatement- flooring,ceiling,etc.		24000	OE.	ls.	5.00	œ	120,000.00	1.000	\$	120,000.00
	Aspesios Abatement- nooning, cening, etc.		24000	SF	Ф	5.00	Ф	120,000.00	1.000	\$	120,000.00
3. New Consti	ruction									Ψ	120,000.00
New Construc											
										\$	-
4. Instructiona	al Technology	<u> </u>		•							
							\$	-		\$	-
										\$	-

Tyndall Center

Construction Contingency

Architectural Fees and Costs

Loose Furnishing/Equipment

Instructional Technology

CM Fees and Costs

Subtotal

Subtotal

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Prop	osed 2015 Bond Scope
5. Loose Furn	ishing/ Technology								
	Equipment		1	LS	\$ 80,722.34	\$ 80,722.34	1.000	\$	80,722.34
	Technology		1	LS	\$ 45,078.39	\$ 45,078.39	1.000	\$	45,078.39
	Technology Infrastructure		1	LS	\$ 82,766.88	\$ 82,766.88	1.000	\$	82,766.88
	Furniture Replacement		1	EA	\$ 15,000.00	\$ 15,000.00	1.130	\$	16,950.00
								\$	225,517.61
	•							\$	2,283,117.78
	Site Remodeling New Construction Subtotal							\$ \$ \$	- 2,057,600.17 - 2,057,600.17

7.5%

5.5%

6.5%

\$

\$

\$

\$

\$

\$

\$

154,320.01 2,211,920.18

121,655.61

151,682.43

225,517.61

2,333,575.79

Tyndall Building



Facility Condition Assessment

	Facility Condition Assessment						
Project Number 9							
	orm walkthrough inspection of the facility including special-use areas such as the cafeteria, art rooms, industrial arts areas, and note labs. Please complete the following assessment form by responding to ALL statements.	Please provide a of each section deficiencies or s	or con	ment on	any		
Hea	Ith Section	\	res .	No	N/A		
	Visible mold/damage does not exist due to past or present water/moisture leaks.		X				
	Indoor surfaces are free of loose and peeling paint.		X				
3.	Air temperature is comfortable throughout the building.			Х			
	Unique/objectionable odors are not present in specific areas or throughout the building.			Χ			
Air tei	mperature is inconsistent throughout building. Lack of adequate fresh air ventilation leads to odors						
Life	Safety Section	`	⁄es	No	N/A		
	Lighted exit signs are present at each entrance/exit and are clearly visible.		Χ				
2.	Fire suppression equipment is present in kitchen, science rooms and corridors.		Χ				
3.	Washroom facilities have barrier free accessibility.		Χ				
	Building access is limited to select, controlled entries.		Χ				
Overa	all assessment or comments:						
	ictural Section		⁄es	No	N/A		
	Inside masonry walls do not show visible signs of cracks beyond normal aging.		Х				
	Surface cracks do not exist around perimeter of interior/exterior doors and windows.		X				
	Roof structure does not show visible signs of damage. Building exterior is intact and does not show visible deterioration beyond normal aging.		X				
	all assessment or comments:						
	hanical Section		⁄es	No	N/A		
	Windows and exterior doors prevent inefficient air leakage.		Χ				
	Water pressure exists to wash hands, supply water fountains, and flush toilets.		Χ				
	Water drains quickly from sinks.		Х				
	Floor area near toilets and sinks is dry.		X				
	etrical Section		res (No	N/A		
	Lighting system provides adequate intensity, diffusion, and distribution of illumination.		X	140	1 11/1		
	Electrical controls are safely protected and accessible.		X				
	Classrooms have sufficient outlets to prevent regular use of electrical extension cords.		Χ				
	The proximity of electrical systems or panels is dry and free of standing water.		Χ				
	Certificate by Registered Architect						
l certi	fy that I have assessed the factors described above and that the conditions relative to the facility are true and correct to the best of my knowledge and belief.						
rceru	ly that i have assessed the factors described above and that the conditions relative to the facility are true and correct to the best of my knowledge and belief.						
Ci	Lee A. Andrea, AIA Stantec Architecture		mh = -	45478			
Signat		me and License Nu	mber				
1/5/20 Date	-	248.336.4880 de and Telephone N	lumhei				
Duit	The state of the s	a.ia . olopiloile i					

Utilization Summary

Name of School District: Berkley School District Code Number: 63-050

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	Adequate Pupil Capacity	Remodel Pupil Capacity	New Pupil Capacity	Total Pupil Capacity	Utilization %	Closed Pupil Capacity
1	Angell Elementary School	K-5	K-5	422	0	425	0	425	99%	0
2	Burton Elementary School	K-5	K-5	491	0	490	0	490	100%	0
3	Pattengill Elementary School	K-5	K-5	294	0	290	0	290	101%	0
4	Rogers Elementary School	K-5	K-5	381	0	405	0	405	94%	0
5	Norup International School	K-8	K-8	734	0	793	0	793	93%	0
6	Anderson Middle School	6-8	6-8	577	0	675	0	675	85%	0
7	Berkley High School	9-12	9-12	1,287	0	1,424	0	1,424	90%	0
8	Avery Building	non-instructional								
9	Tyndall Center	non-instructional								
			·		·			·		·
			· · · · · · · · · · · · · · · · · · ·							· · · · · · · · · · · · · · · · · · ·

Subtotals by School District's Grade Configuration

Castotale by College Biotilet College	 								
Elementary School	K-5	K-5	1588	0	1610	0	1610	99%	0
K-8 School	K-8	K-8	734	0	793	0	793	93%	0
Junior High/Middle School	6-8	6-9	577	0	675	0	675	85%	0
High School	9-12	9-13	1287	0	1424	0	1424	90%	0
Total:	K-12	K-13	4186	0	4501	0	4501	93%	0

Facility Summary

District Code Number: 63-050

|--|

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

	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8	Col. 9	Col. 10	Col. 11	Col. 12
Proj. No.	Facility Type*	Name of School Facility	Address	City	Year Built	Year(s) Remodeled	Site Size (Acres)	Total Sq.Ft.	New Site (Acres)	Bldg In Use? Y/N	Sq Ft of Closed Facility	Disposition of Closed Facility**
1	Instructional	Angell Elementary School	3849 Beverly	Berkley	1921	1937,1952,1996	6.7	68,600		Y		
2	Instructional	Burton Elementary School	26315 Scotia	Huntington Woods	1923	1945,1953,1996	5.3	74,500		Y		
3	Instructional	Pattengill Elementary School	3540 Morrison	Berkley	1925	1949,1953,1996	4.1	67,000		Y		
4	Instructional	Rogers Elementary School	2265 Hamilton	Berkley	1952	1954,1996	3.4	63,700		Y		
5	Instructional	Norup International School	14450 Manhattan	Oak Park	1957	1960,1996	11.5	116,600		Υ		
6	Instructional	Anderson Middle School	3205 Catalpa	Berkley	1956	1960,1996	9.5	105,638		Υ		
7	Instructional	Berkley High School	2325 Catalpa	Berkley	1949	1953,1960,1974, 2001	15.7	235,600		Υ		
8	Non-Instructional	Avery Building	14700 Lincoln	Oak Park	1951	1953,1957,1996	9.0	42,567		Υ		
9	Non-Instructional	Tyndall Center	14501 Talbot	Oak Park	1965	1996	5.5	22,922		Υ		
							71	797,127	_			

*Facility Type:	**Closed Facility Ref:
Instructional	1. Demolish
Non-Instructional	2. Convert to non-instr.
Bus Garage	3. Sell or lease
Storage	4. Retain for future use
Stadium	5. Undetermined

Cost Summary

Name of School District: Berkley School District District Code Number: 63-050

Proj.	Cost per	New Cons	New			Instructional	Loose Furn			Site	A/E Fees	CM Fees	Project	Election/	Total
#	Sq Foot	Sq Feet	Construction	Remodeling	Contingency	Technology	and Equip	Buses	Site Work	Acquisition	and Costs	and Costs	Costs	Issue Costs	Cost
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	\$ 215.90	1700	\$ 367,025	\$ 2,901,662	\$ 249,963	\$ 83,191	\$ 294,591	\$ -	\$ 64,149	\$ -	\$ 245,690	\$ 197,054	\$ 4,403,326	\$ 73,047	\$ 4,476,373
2	\$ 215.90	1320	\$ 284,984	\$ 3,289,018	\$ 269,596	\$ 97,992	\$ 342,981	\$ -	\$ 20,608	\$ -	\$ 264,988	\$ 212,531	\$ 4,782,699	\$ 79,340	\$ 4,862,039
3	\$ 215.90	1300	\$ 280,666	\$ 2,988,140	\$ 248,228	\$ 94,017	\$ 329,986	\$ -	\$ 40,907	\$ -	\$ 243,986	\$ 195,687	\$ 4,421,618	\$ 73,350	\$ 4,494,968
4	\$ 215.90	4200	\$ 906,767	\$ 2,322,849	\$ 250,937	\$ 68,116	\$ 269,642	\$ -	\$ 116,213	\$ -	\$ 246,648	\$ 197,822	\$ 4,378,995	\$ 72,643	\$ 4,451,639
5	\$ 215.90	7200	\$ 1,554,458	\$ 5,249,364	\$ 526,556	\$ 181,894	\$ 639,895	\$ -	\$ 216,930	\$ -	\$ 517,557	\$ 415,102	\$ 9,301,757	\$ 154,307	\$ 9,456,064
6	\$ 215.90	225	\$ 48,577	\$ 5,624,513	\$ 435,166	\$ 194,693	\$ 681,741	\$ -	\$ 129,125	\$ -	\$ 427,728	\$ 343,056	\$ 7,884,599	\$ 130,798	\$ 8,015,397
7	\$ 232.43	800	\$ 185,940	\$ 12,070,969	\$ 921,592	\$ 461,472	\$ 1,599,163	\$ -	\$ 30,990	\$ -	\$ 905,841	\$ 726,522	\$ 16,902,489	\$ 280,396	\$ 17,182,885
8	\$ -	0	\$ -	\$ 2,517,124	\$ 192,154	\$ -	\$ 352,600	\$ -	\$ 44,936	\$ -	\$ 188,870	\$ 151,482	\$ 3,447,166	\$ 57,185	\$ 3,504,351
9	\$ -	0	\$ -	\$ 2,057,600	\$ 154,320	\$ -	\$ 225,518	\$ -	\$ -	\$ -	\$ 151,682	\$ 121,656	\$ 2,710,776	\$ 44,969	\$ 2,755,745
Total			\$ 3,628,418	\$ 39,021,240			\$ 4,736,118	\$ -	\$ 663,857	\$ -	\$ 3,192,991	\$ 2,560,912	\$ 58,233,425	\$ 966,036	\$ 59,199,461
17. % of Project Costs: (= The total of each column / the total of Column 14)													.		
			6.23%	67.01%	5.58%	2.03%	8.13%	0.00%	1.14%	0.00%	5.48%	4.40%			

18. Election/Bond Issue Costs:	:		
Bond (and Local) Attorney:	\$70,005	Capitalized Interest:	\$0
Financial Advisor:	\$63,957	Official Statement:	\$5,500
Qualification Fee:	\$15,600	Election Notices:	\$31,101
Treasury Filing Fee:	\$1,000	Bond Discount:	\$736,875
Auditor Review:	\$2,000	Credit Rating:	\$39,598
M.A.C. Fee:	400		
Miscellaneous Costs*:		Total Election/Issue Costs: \$	966,036
	(Prorate the total for each project in Col 14 and distribute pror	rate within Col 15.)	

19.	Funding:		
	Total Estimated Cost of Project:	\$	59,199,461
	LESS:		
	Estimated Interest Earnings:	\$	249,461
	Other (specify):		
	AMOUNT OF PROPOSED ISSUE	\$	58,950,000
	(Amount to be Qualified)	•	23,000,000

Explanation of Miscellaneous Costs:	

3881, Worksheet 1: Useful Life Calculation

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.

New School Building Building Improvements - interior and exterior remodeling such as plumbing, electrical, HVAC, fire suppression, security systems, elevators, etc. Roofing Flooring 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. Technology Infrastructure - cables, networks, etc. Buses					
New School Building	40				
	30				
Roofing	20				
Flooring	10				
desks, chairs, tables, storage units, office equipment, copiers, fax machines, communications equipment,	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			Col. 1			Col. 4	Col. 6	Col. 3
Instructions	\rightarrow	Enter	+	Enter	Enter	+	÷	х
mstructions		Value	Col. 2	Value	Value	Col. 5	Col. 6 Total	Col. 7
	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8
Asset Type	Average Useful Life of Asset (in Years)	Time between Bonds Issue Date and Purchase	Useful Life of Asset from Bond Issue Date	Expenditure Amount	Allocation of Related Professional Fees	Total Costs (Incl. Related Fees)	% of Total Cost	Average Useful Life of Assets (in years)
School Buildings	40	3	43	\$ -	\$ -	\$ -	0.00%	0.00
Building Improvements	30	3	33	\$ 45,318,391	\$ 3,625,471	\$ 48,943,863	82.66%	27.28
Roofing	20	3	23	\$ 527,482	\$ 42,199	\$ 569,680	0.96%	0.22
Flooring	10	3	13	\$ 1,760,039	\$ 140,803	\$ 1,900,843	3.21%	0.42
Furnishing/ Equipment	10	3	13	\$ 3,392,938	\$ 271,435	\$ 3,664,373	6.19%	0.80
Technology Infrastructure	10	3	13	\$ 2,385,126	\$ 190,810	\$ 2,575,936	4.35%	0.57
Technology (instr/non-instr)	5	3	8	\$ 1,441,279	\$ 115,302	\$ 1,556,582	2.63%	0.21
Buses	6	3	9	\$ -	\$ -	\$ -	0.00%	0.00
Total for purposes of de	termining v	veighted avo	g useful life	\$ 54,825,255	\$ 4,386,020	\$ 59,211,276	100.00%	29.50

Berkley Public Schools Useful Life Calculations

Project Backup

Asset Type	Ang	gell	Bu	rton	Pa	ttengill	Ro	gers	No	rup	An	derson	Be	erkley	Αv	ery	Tyr	ndall	Tot	al
School Buildings																			\$	-
Building Improvements	\$	2,748,013.57	\$	3,162,762.22	\$	2,870,347.35	\$	2,198,594.87	\$	5,075,510.59	\$	5,196,644	\$	11,654,338.77	\$	2,250,650.84	\$	1,989,360.19	\$	37,146,222
Roofing	\$	35,639	\$	-	\$	-	\$	-	\$	-	\$	247,094	\$	4,390	\$	145,240	\$	-	\$	432,362
Flooring	\$	118,010	\$	126,256	\$	117,793	\$	124,254	\$	173,854	\$	180,775	\$	412,240	\$	121,233	\$	68,240	\$	1,442,655
Furnishing/ Equipment	\$	156,895	\$	205,285	\$	329,986	\$	247,042	\$	-	\$	636,541	\$	835,347	\$	227,249	\$	142,751	\$	2,781,097
Technology Infrastructure	\$	137,696	\$	137,696	\$	-	\$	22,600	\$	639,895	\$	45,200	\$	763,815	\$	125,352	\$	82,767	\$	1,955,021
Technology (instr/non-instr)	\$	83,191	\$	97,992	\$	94,017	\$	68,116	\$	181,894	\$	194,693	\$	461,472	\$	-	\$	-	\$	1,181,376
Buses	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Total	\$	3,279,444	\$	3,729,991	\$	3,412,144	\$	2,660,608	\$	6,071,154	\$	6,500,947	\$	14,131,604	\$	2,869,724	\$	2,283,118	\$ 4	14,938,734