



Stantec Architecture Inc.
2338 Coolidge Highway, Berkley MI 48072-1500

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,

A handwritten signature in blue ink, appearing to read "Lee A. Andrea", with a long horizontal flourish extending to the right.

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



Stantec Architecture Inc.
2338 Coolidge Highway, Berkley MI 48072-1500

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,
A handwritten signature in blue ink, appearing to read "Lee A. Andrea", with a long horizontal flourish extending to the right.

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,

A handwritten signature in black ink that reads "William T. McCarthy".

William T. McCarthy
President

WTM:mbd

Attachments

C: Mr. Dennis McDavid, Berkley School District
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 refurbishing, 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)

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

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

www.michigan.gov/sblf

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

Proposed Election Date: May 5, 2015

Application Number: SBL 63-050-4-K12-10-02

Legal Name of School District Berkley School District	District Code Number 63-050	Telephone Number 248.837.8000
Address 14700 W. Lincoln	City Oak Park	ZIP Code 48237

MAILING INSTRUCTIONS:

- Return TWO originally signed copies to your bond counsel by **OVERNIGHT MAIL**.
Return ONE originally signed copy to your financial consultant.
Return ONE originally signed copy to your architectural firm.
Return ONE originally signed copy to your construction management firm, if applicable.
Retain ONE originally signed copy for your files.

CONTACT PERSON: Person to whom questions and correspondence concerning this application should be directed.

<u>Dennis McDavid</u>	<u>Superintendent</u>	<u>248.837.8004</u>
Name	Title	Telephone Number
	<u>dmc david@berkleyschools.org</u>	<u>248.544.5860</u>
	E-mail Address	Fax Number

Certificate

I, the undersigned, Secretary of the Board of Education, do certify hereby that the Board of Education of this School District, at a regular meeting of the Board, which was conducted and for which public notice of said meeting was given pursuant to and in full compliance with Act 276 of the Public Acts of 1976 (Open Meetings Act), on this 5th day of January 2015 took the following action:

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

IN WITNESS whereof, I have hereunto set my hand this 5th day of January 2015 :

<u>Ron Justice</u> Secretary, Board of Education	<u>Dennis McDavid</u> Superintendent of Schools
<u>Roger Blake</u> Treasurer, Board of Education	<u>P.O. Box 2575; East Lansing, MI 48826</u> Mailing Address
<u>Thrun</u> Bond Counsel	<u>3989 Research Park Drive; Ann Arbor, MI 48108</u> Mailing Address
<u>Stauder Barch & Associates</u> Financial Consultant	<u>2338 Coolidge Highway; Berkley MI 48072</u> Mailing Address
<u>Stantec Architecture, Inc.</u> Architectual Firm	<u>24317 Indoplex Cir, Farmington Hills, MI 48335</u> Mailing Address
<u>McCarthy & Smith, Inc.</u> Construction Management Firm	

ATTACH PROPOSED BALLOT LANGUAGE.

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 Year	Tax Year	\$7,005,000 Current Interest Bonds Dated 06/23/05					\$8,260,000 Current Interest Bonds Dated 05/28/09					TOTAL DEBT	
		Interest Due Nov 1	Interest Due May 1	Interest Rate	Principal Due May 1	Total P&I	Interest Due Nov 1	Interest Due May 1	Interest Rate	Principal Due May 1	Total P&I	Total Principal	Total 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 Growth Rate:		(2.39%)

Notes:	Collection Cycle July Levy: 100%
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Current Levy	4.0000
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Tax Year	F/Y End 6-30,	Existing Debt \$15,265,000	Capitalized or Accrued Interest	Plus: 7.00% Allow for Delinq.	(Use) of Funds on Hand \$203,207	Net Existing Debt	Projected Txbl Value [1]	Growth Rate	Mills Needed All Debt	Net District Payments \$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
		<u>\$17,283,780</u>	<u>\$0</u>	<u>\$249,225</u>		<u>\$17,329,798</u>				<u>\$17,329,798</u>

kcg

[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

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2009	\$1,008,061,600	
2010	932,444,830	(7.50%)
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2013	870,934,100	1.01%
2014	890,089,958	2.20%
Average Growth Rate:		(2.39%)

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

Current Levy	4.0000
--------------	--------

Tax Year	F/Y End 6-30,	Existing Debt \$15,265,000	Capitalized or Accrued Interest	Plus: 7.00% Allow for Delinq. \$249,225	(Use) of Funds on Hand \$203,207	Net Existing Debt	Projected Txbl Value [1]	Growth Rate	Mills Needed All Debt	Net District Payments \$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
		<u>\$17,283,780</u>	<u>\$0</u>	<u>\$249,225</u>		<u>\$17,329,798</u>				<u>\$17,329,798</u>

kgc

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

\$58,950,000

Average Life = 1.70 years

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

SCHEDULE OF ESTIMATED CONSTRUCTION FUND EARNINGS

Date	EXPENDITURE ACTIVITY			Month	Payout %	Construction Fund Balance	Interest Rate	Projected Interest Earned
	Construction Projects	Other Fees and Costs	Totals					
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	1,290,426		1,290,426	21	50.50%	29,259,958	0.25%	6,096
Mar 17	1,459,056		1,459,056	22	52.96%	27,806,998	0.25%	5,793
Apr 17	1,881,114		1,881,114	23	56.14%	25,931,677	0.25%	5,402
May 17	1,881,114		1,881,114	24	59.32%	24,055,966	0.25%	5,012
Jun 17	3,390,810		3,390,810	25	65.04%	20,670,168	0.25%	4,306
Jul 17	3,558,469		3,558,469	26	71.05%	17,116,005	0.25%	3,566
Aug 17	3,558,469		3,558,469	27	77.07%	13,561,102	0.25%	2,825
Sep 17	3,977,617		3,977,617	28	83.78%	9,586,310	0.25%	1,997
Oct 17	2,418,485		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		0	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
	<u>\$58,233,425</u>	<u>\$966,036</u>	<u>\$59,199,461</u>					<u>\$249,461</u>

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 Construction Costs)	0	Bond Insurance	0
Financial Consultant	63,957	Other	0
Qualification of Bonds	15,600	TOTAL OTHER COSTS:	<u>\$767,976</u>
Other:		TOTAL OTHER FEES AND COSTS	<u>\$966,036</u>
Credit Ratings	\$39,598	Total Project Cost	\$59,199,461
Official Statement Printing & Mailing	5,500	Less Original Issue Premium	0
Treasury Filing	1,000	Less Construction Fund Earnings	249,461
TOTAL OTHER FEES	<u>\$198,060</u>	AMOUNT OF BOND ISSUE	<u>\$58,950,000.00</u>
		Estimated Construction Fund Deposit	\$57,983,964

STAUDER, BARCH & ASSOCIATES, INC.
Municipal Bond Financial and Marketing Consultants
3989 Research Park Drive
Ann Arbor, Michigan 48108
Phone (734) 668-6688 Fax (734) 668-6723

kcg
12/15/14

PQ Millage
USING ANTICIPATED 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%)
		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
20% Project Useful Life:	35
1:5 Ratio:	TRUE
NIC:	5.000%
[2] Debt/TV:	8.02%
[2] Debt/(TV+IFT-Captures):	8.02%

Interest Factor
0.785

Schedule of Estimated Millage Needed to Retire Bonded Debt

Tax Year	F/Y End 6-30,	QUALIFIED Existing Debt \$15,265,000	Interest Due Nov 1	Interest Due May 1	Interest Rate	Principal Due May 1	Total P&I	Total Existing & Proposed Debt	Plus: Allow for Delinq. 7.00%	(Use) of Funds on Hand \$203,207	Net Existing Proposed Debt	Projected Txbl Value [3]	Growth Rate	Mills Needed		Levied Qual. Debt	Net District Payments
														This Issue Avg 3.72	Needed All Qual. Debt		
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
		<u>\$17,283,780</u>	<u>\$22,902,875</u>	<u>\$23,345,000</u>		<u>\$58,950,000</u>	<u>\$105,197,875</u>	<u>\$122,481,655</u>	<u>\$249,225</u>	<u>(\$203,207)</u>	<u>\$122,527,673</u>						<u>\$122,527,673</u>

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 \$0

**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%)
		2013	870,934,100 1.01%
		2014	890,089,958 2.20%
		Average Growth Rate:	(2.39%)

Dated:	Jun 25, 15	Interest Factor
Delivered:	Jun 25, 15	
Bond Term:	24 yrs, 10 mos	0.706
Average Life:	15.690	
% Project Useful Life:	35	
1:5 Ratio:	TRUE	
NIC:	4.500%	
[2] Debt/TV:	8.02%	
[2] Debt/(TV+IFT-Captures):	8.02%	

Schedule of Estimated Millage Needed to Retire Bonded Debt

Tax Year	F/Y End 6-30,	Existing Debt \$15,265,000	Interest Due Nov 1	Interest Due May 1	Interest Rate	Principal Due May 1	Total P&I	Total Existing & Proposed Debt	Plus: Allow for Delinq. 7.00%	(Use) of Funds on Hand \$203,207	Net Existing Proposed Debt	Projected Txbl Value [3]	Growth Rate	Mills Needed Issue Avg 4.17	Mills Needed All Qual. Debt	Mills Levied Debt	Net District Payments
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	868,846,573	(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	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	0	6,267,925	808,110,343	(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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0	1,305,139,268	2.43%	0.00	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 \$0

BERKLEY SCHOOL DISTRICT
 TAXABLE VALUE HISTORY

1	2014	890,089,958	2.20%	20 Year Average Growth 2.43%
2	2013	870,934,100	1.01%	
3	2012	862,250,550	-1.94%	
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.

Grade	Preceding 5-Year Enrollment	(Year) Current Enrollment	(Year) Projected 5-Year Enrollment	(Col 4 - Col 3) / Col 3 Projected Enrollment Change (%)
1	2	3	4	5
K	377	365	327	-11.62%
1	377	328	310	-5.81%
2	381	332	309	-7.44%
3	360	312	313	0.32%
4	321	296	309	4.21%
5	363	362	357	-1.40%
6	341	393	332	-18.37%
7	308	332	332	0.00%
8	328	351	310	-13.23%
9	313	330	293	-12.63%
10	301	351	353	0.57%
11	336	307	368	16.58%
12	299	278	298	6.71%
Totals	4,354	4,337	4,211	-2.99%

<u>Explanation of Method Selected</u>
Projection Method 1

Source:	Middle Cities Education Association
Prepared By:	Stantec

Subtotals by School District's Grade Configuration: *

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	-2.99%

<i>*Examples of possible grade configurations</i>		
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.

Project Sheet

Project No.	1	
Name of School Building:		Angell Elementary School

Description of Proposal or Series 1 Project: Addition of new Art Room. General remodeling of interior and exterior of building. Renovation to improve security and program delivery. Remodeling to meet code and safety requirements. Upgrades to fire alarm system, emergency lighting, and phone systems. Mechanical system upgrades. Upgrades to plumbing system including replacement of domestic water and sanitary pipe, sump pump and water coolers. Replacement of electrical distribution system, panels, receptacles, exit lighting and lighting fixtures. Asbestos abatement.	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align:center;">Instructional Technology Description</td> </tr> <tr> <td>Interactive classroom audio visual equipment and student computing devices.</td> </tr> <tr> <td style="text-align:center;">Site Work Description</td> </tr> <tr> <td>Site work associated with new addition and to improve site drainage.</td> </tr> </table>	Instructional Technology Description	Interactive classroom audio visual equipment and student computing devices.	Site Work Description	Site work associated with new addition and to improve site drainage.
Instructional Technology Description					
Interactive classroom audio visual equipment and student computing devices.					
Site Work Description					
Site work associated with new addition and to improve site drainage.					

Type of Project:

<input type="checkbox"/> New Building	→ New Construction Square Ft		Cost per Sq Ft	
<input checked="" type="checkbox"/> Addition(s)	→ New Addition Square Ft.	1,700	Cost per Sq Ft	\$ 216
<input checked="" type="checkbox"/> Remodeling				
<input checked="" type="checkbox"/> Technology and/or Buses				
<input checked="" type="checkbox"/> Site Work				
<input type="checkbox"/> Facility Closing	→	<input type="radio"/> Demolish <input type="radio"/> Retain for future use <input type="radio"/> Convert to non-instructional <input type="radio"/> Sell or Lease <input type="radio"/> Undetermined		

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

Asbestos abatement, replacment of mechanical systems with newer, more efficient systems.

Estimated Cost of Proposed Construction Project: (Attach analysis showing how cost estimates were calculated.)

	Total	Proposal/Series 1	Proposal/Series 2	Proposal/Series 3
New Construction	\$367,025	\$367,025		
Remodeling	\$2,901,662	\$2,901,662		
Construction Contingencies	\$249,963	\$249,963		
Instructional Technology	\$83,191	\$83,191		
Loose Furnishing/Equipment	\$294,591	\$294,591		
Buses	\$0	\$0		
Site Work	\$64,149	\$64,149		
Site Acquisition	\$0	\$0		
Architectural Fees and Costs	\$245,690	\$245,690		
CM Fees and Costs	\$197,054	\$197,054		
Estimated Costs	\$4,403,326	\$4,403,326	\$0	\$0

(Not including election or bond issuance costs)

Certificate by Registered Architect

I certify that the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.			
	Lee A. Andrea, AIA		Stantec Architecture, Inc. 45478
Signature	Printed Name		Firm Name and License Number
1/5/2015	lee.andrea@stantec.com	248.336.4881	248.336.4880
Date	E-mail Address	Fax Number	Area Code and Telephone Number



**BERKLEY SCHOOL DISTRICT
MAY 2015 BOND PROGRAM**

Angell Elementary School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
1. Site Work								
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. Remodeling								
Exterior Architectural Replacement								
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 Architectural 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	Associated 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 2015 Bond Scope
	Classroom Ceiling	Associated with mechanical system replacement	17700.00	SF	\$ 5.50	\$ 97,350.00	1.033	\$ 100,562.55
	Corridor Ceiling	Associated with mechanical system replacement	6170.00	SF	\$ 4.50	\$ 27,765.00	1.033	\$ 28,681.25
	Visual Display Boards	Associated with mechanical system replacement	20.00	CR	\$ 1,200.00	\$ 24,000.00	1.033	\$ 24,792.00
	Classroom Painting	Associated with mechanical system replacement	20.00	CR	\$ 600.00	\$ 12,000.00	1.033	\$ 12,396.00
	Bookshelves	Associated with mechanical system replacement	20.00	CR	\$ 750.00	\$ 15,000.00	1.033	\$ 15,495.00
	VUV wall opening	Associated with mechanical system replacement	20.00	CR	\$ 3,000.00	\$ 60,000.00	1.033	\$ 61,980.00
								\$ 504,372.63
Academic Program Improvements								
	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
								\$ 442,124.00
Code/Safety								
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
								\$ 37,394.55
Building Systems Replacement/ Energy Efficiency								
BS-1	Fire Alarm System	Install new addressable system.	41000.00	SF	\$ 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
Mechanical								
	Mechanical System		41000.00	SF	\$ 26.00	\$ 1,066,000.00	1.033	\$ 1,101,178.00
								\$ 1,101,178.00
Plumbing								
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	EA	\$ 2,750.00	\$ 8,250.00	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
								\$ 149,010.25
Electrical								
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 Lighting	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	Proposed 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 Conditioning								
								\$ -
Asbestos Abatement								
	Asbestos Abatement- flooring, ceiling, etc.		41000.00	SF	\$ 5.00	\$ 205,000.00	1.000	\$ 205,000.00
								\$ 205,000.00
3. New Construction								
New Construction								
	Addition: Art room (larger space).		1700.00	SF	\$ 209.00	\$ 355,300.00	1.033	\$ 367,024.90
								\$ 367,024.90
4. Instructional Technology								
	Educational Technology		1.00	LS	\$ 83,191.43	\$ 83,191.43	1.00	\$ 83,191.43
								\$ 83,191.43
5. Loose Furnishings/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

								\$ 3,710,618.52
	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

Building Utilization

Project No.	1
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Name of School Building
Angell Elementary School

Existing/Adequate	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

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

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
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Current Gr. Structure	K-5	Projected 5-Year Enrollment	422
Proposed Gr. Structure	K-5		

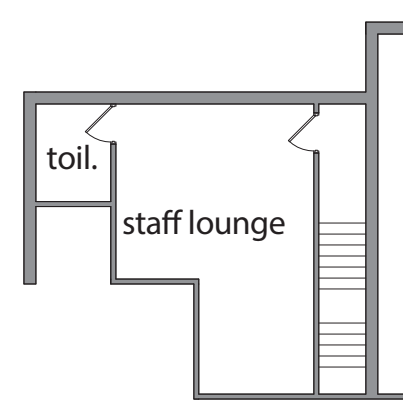
Utilization Percentage (Projected 5-Year Enrollment / Total Capacity)	99%
---------------------------------------------------------------------------------	------------

- 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.**

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.

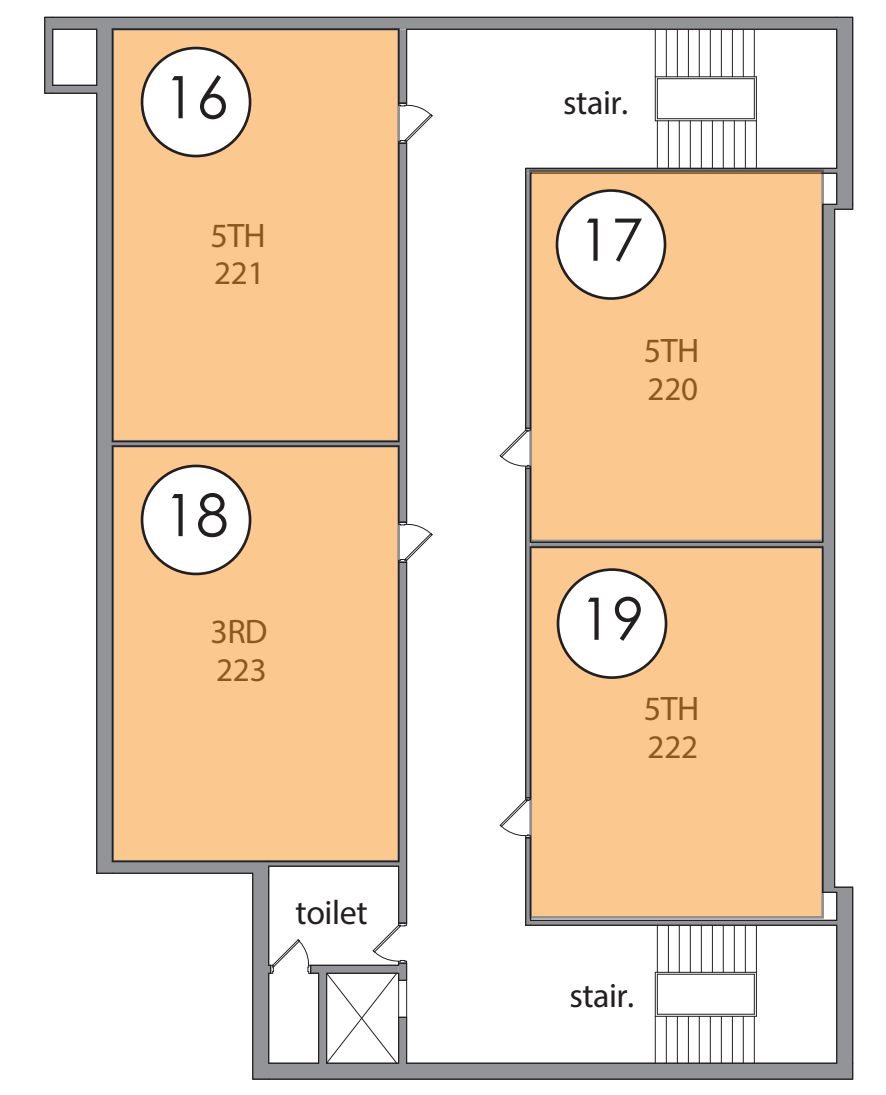


mezzanine

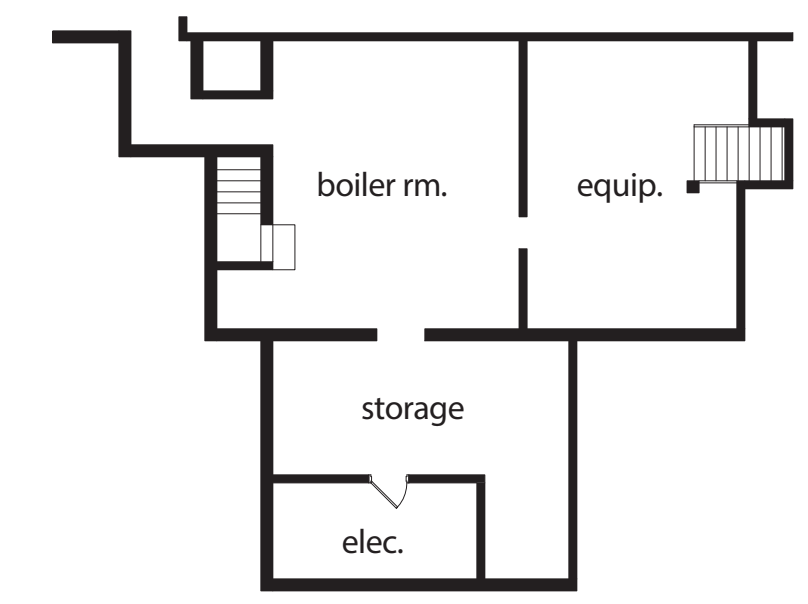
Art -
1,700 ASF Addition



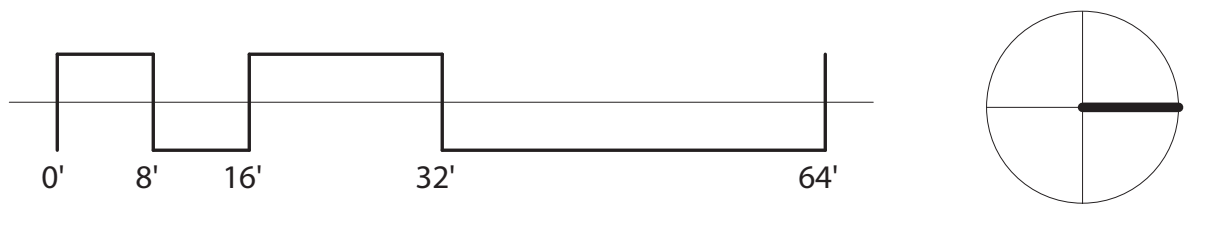
first floor



second floor



basement



Teaching Stations





Site Plan Concept for:
Angell Elementary School
Berkley School District
Berkley, Michigan

November 14, 2014



Facility Condition Assessment

Project Number 1

Angell Elementary School

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 overall assessment of each section or comment on any deficiencies or special circumstances:

Health Section

	Yes	No	N/A
1. Visible mold/damage does not exist due to past or present water/moisture leaks.	X		
2. Indoor surfaces are free of loose and peeling paint.	X		
3. Air temperature is comfortable throughout the building.		X	
4. Unique/objectionable odors are not present in specific areas or throughout the building.		X	
Air temperature is inconsistent throughout building. Lack of adequate fresh air ventilation leads to odors			

Life Safety Section

	Yes	No	N/A
1. 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		
3. Washroom facilities have barrier free accessibility.		X	
4. Building access is limited to select, controlled entries.	X		
Washrooms have limited barrier free accessibility.			

Structural Section

	Yes	No	N/A
1. Inside masonry walls do not show visible signs of cracks beyond normal aging.	X		
2. Surface cracks do not exist around perimeter of interior/exterior doors and windows.	X		
3. Roof structure does not show visible signs of damage.	X		
4. Building exterior is intact and does not show visible deterioration beyond normal aging.	X		
Overall assessment or comments:			

Mechanical Section

	Yes	No	N/A
1. 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		
4. Floor area near toilets and sinks is dry.	X		
Overall assessment or comments:			

Electrical Section

	Yes	No	N/A
1. Lighting system provides adequate intensity, diffusion, and distribution of illumination.	X		
2. Electrical controls are safely protected and accessible.	X		
3. Classrooms have sufficient outlets to prevent regular use of electrical extension cords.	X		
4. 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.

	Lee A. Andrea, AIA	Stantec Architecture, Inc.	45478
Signature	Printed Name	Firm Name and License Number	

1/5/2015	lee.andrea@stantec.com	248.336.4881	248.336.4880
Date	E-mail Address	Fax Number	Area Code and Telephone Number

Project Sheet

Project No.	2	
Name of School Building:		Burton Elementary School

Description of Proposal or Series 1 Project: Addition to provide new entry, secure vestibule, office and Art Room. General remodeling of interior and exterior of building. Renovation to improve security and program delivery. Remodeling to meet code and safety requirements. Upgrades to fire alarm system, emergency lighting, and phone systems. Mechanical upgrades to HVAC, including replacement of unit ventilators. Upgrades to plumbing system including replacement of domestic water and sanitary pipe, sump pump and water coolers. Replacement of electrical distribution system, panels, receptacles, exit lighting and lighting fixtures. Asbestos abatement.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Instructional Technology Description</td> </tr> <tr> <td>Interactive classroom audio visual equipment and student computing devices.</td> </tr> <tr> <td style="text-align: center;">Site Work Description</td> </tr> <tr> <td>Site work associated with new addition.</td> </tr> </table>	Instructional Technology Description	Interactive classroom audio visual equipment and student computing devices.	Site Work Description	Site work associated with new addition.
Instructional Technology Description					
Interactive classroom audio visual equipment and student computing devices.					
Site Work Description					
Site work associated with new addition.					

Type of Project:

<input type="checkbox"/> New Building	→ New Construction Square Ft		Cost per Sq Ft	
<input checked="" type="checkbox"/> Addition(s)	→ New Addition Square Ft.	1,320	Cost per Sq Ft	\$ 216
<input checked="" type="checkbox"/> Remodeling				
<input checked="" type="checkbox"/> Technology and/or Buses				
<input checked="" type="checkbox"/> Site Work				
<input type="checkbox"/> Facility Closing	→	<input type="radio"/> Demolish <input type="radio"/> Retain for future use <input type="radio"/> Convert to non-instructional <input type="radio"/> Sell or Lease <input type="radio"/> Undetermined		

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

Asbestos abatement, replacment of mechanical systems with newer, more efficient systems.

Estimated Cost of Proposed Construction Project: (Attach analysis showing how cost estimates were calculated.)

	Total	Proposal/Series 1	Proposal/Series 2	Proposal/Series 3
New Construction	\$284,984	\$284,984		
Remodeling	\$3,289,018	\$3,289,018		
Construction Contingencies	\$269,596	\$269,596		
Instructional Technology	\$97,992	\$97,992		
Loose Furnishing/Equipment	\$342,981	\$342,981		
Buses	\$0	\$0		
Site Work	\$20,608	\$20,608		
Site Acquisition	\$0	\$0		
Architectural Fees and Costs	\$264,988	\$264,988		
CM Fees and Costs	\$212,531	\$212,531		
Estimated Costs	\$4,782,699	\$4,782,699	\$0	\$0

(Not including election or bond issuance costs)

Certificate by Registered Architect

I certify that the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.			
	Lee A. Andrea, AIA		Stantec Architecture, Inc. 45478
Signature	Printed Name		Firm Name and License Number
1/5/2015	lee.andrea@stantec.com	248.336.4881	248.336.4880
Date	E-mail Address	Fax Number	Area Code and Telephone Number



**BERKLEY SCHOOL DISTRICT
MAY 2015 BOND PROGRAM**

Burton Elementary School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
1. Site Work								
Site Work								
	Sitework for addition		1	EA	\$ 19,950.00	\$ 19,950.00	1.033	\$ 20,608.35
								\$ 20,608.35
2. Remodeling								
Exterior Architectural Replacement								
BE-01	Overhangs/Soffits	Provide aluminum soffit panels.	1,270	SF	\$ 20.00	\$ 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	\$ 15.00	\$ 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	\$ 3,427.50	\$ 13,710.00	1.033	\$ 14,162.43
BE-08	Gutters	Partial replacement	1	LS	\$ 3,000.00	\$ 3,000.00	1.033	\$ 3,099.00
BE-09	Entrance Canopy Soffits	Provide aluminum soffit panels.	150	SF	\$ 28.34	\$ 4,250.25	1.033	\$ 4,390.51
BE-10	Brick and Mortar	Replace brick.	250	SF	\$ 50.00	\$ 12,500.00	1.033	\$ 12,912.50
BE-11	Glass Block Window	Replace glass block window	50	SF	\$ 70.00	\$ 3,500.00	1.033	\$ 3,615.50
BE-12	Clerestory Windows	Replace with aluminum frames and insulating glass.	1,200	LF	\$ 80.00	\$ 96,000.00	1.033	\$ 99,168.00
								\$ 182,180.14
Interior Architectural Replacement								
BI-04	Water Leaks	Investigate cause and correct leaks.	1	LS	\$ 25,000.00	\$ 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	\$ 71.20	\$ 80,812.00	1.033	\$ 83,478.80
BI-01	Original Wood Doors and Frames	Replace with wood doors and hardware.	55	EA	\$ 1,310.45	\$ 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	\$ 5.50	\$ 91,712.50	1.033	\$ 94,739.01
BI-03	Corridor Carpet	Replace carpet and resilient base.	6,780	SF	\$ 4.50	\$ 30,510.00	1.033	\$ 31,516.83
	Classroom Flooring	Associated with mechanical system replacement	23,700	SF	\$ 4.50	\$ 106,650.00	1.033	\$ 110,169.45
	Corridor Ceilings	Associated with mechanical system replacement	6,780	SF	\$ 4.50	\$ 30,510.00	1.033	\$ 31,516.83
	Visual Display Boards	Associated with mechanical system replacement	32	CR	\$ 1,200.00	\$ 38,400.00	1.033	\$ 39,667.20
	Classroom Painting	Associated with mechanical system replacement	32	CR	\$ 600.00	\$ 19,200.00	1.033	\$ 19,833.60
	Bookshelves	Associated with mechanical system replacement	32	CR	\$ 750.00	\$ 24,000.00	1.033	\$ 24,792.00
	VUV wall opening	Associated with mechanical system replacement	32	CR	\$ 3,000.00	\$ 96,000.00	1.033	\$ 99,168.00
								\$ 635,159.94
Academic Program Improvements								
	Addition/renovation at current office: New Secure vestibule and entry, reconfigured office		840	SF	\$ 150.00	\$ 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	\$ 150.00	\$ 126,000.00	1.033	\$ 130,158.00
	Relocate music to room 118 (current ASD classroom).		1,100	SF	\$ 50.00	\$ 55,000.00	1.033	\$ 56,815.00
	Relocate ASD program to room 119 (current art).		1,100	SF	\$ 120.00	\$ 132,000.00	1.033	\$ 136,356.00
								\$ 453,487.00
Code/ Safety								

Burton Elementary School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 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								
BS-1	Fire Alarm System	Install new addressable system	49000	SF	\$ 1.75	\$ 85,750.00	1.033	\$ 88,579.75
BS-2	Emergency Lighting	Install new units in existing fixtures	52	EA	\$ 300.00	\$ 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
Mechanical								
	Mechanical Systems		49000	SF	\$ 24.00	\$ 1,176,000.00	1.033	\$ 1,214,808.00
Plumbing								
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
Electrical								
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	\$ 6.00	\$ 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 Conditioning								
								\$ -
Asbestos Abatement								
	Asbestos Abatement- flooring,ceiling,etc.		49000	SF	\$ 5.00	\$ 245,000.00	1.000	\$ 245,000.00
								\$ 245,000.00
3. New Construction								
New Construction								
	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. Instructional 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

\$ 4,035,583.87

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

Total Project Cost \$ 4,782,698.94

Building Utilization

Project No.	2
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Name of School Building
Burton Elementary School

Existing/Adequate	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	<u>0</u>				<u>0</u>

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

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	<u>0</u>				<u>0</u>

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

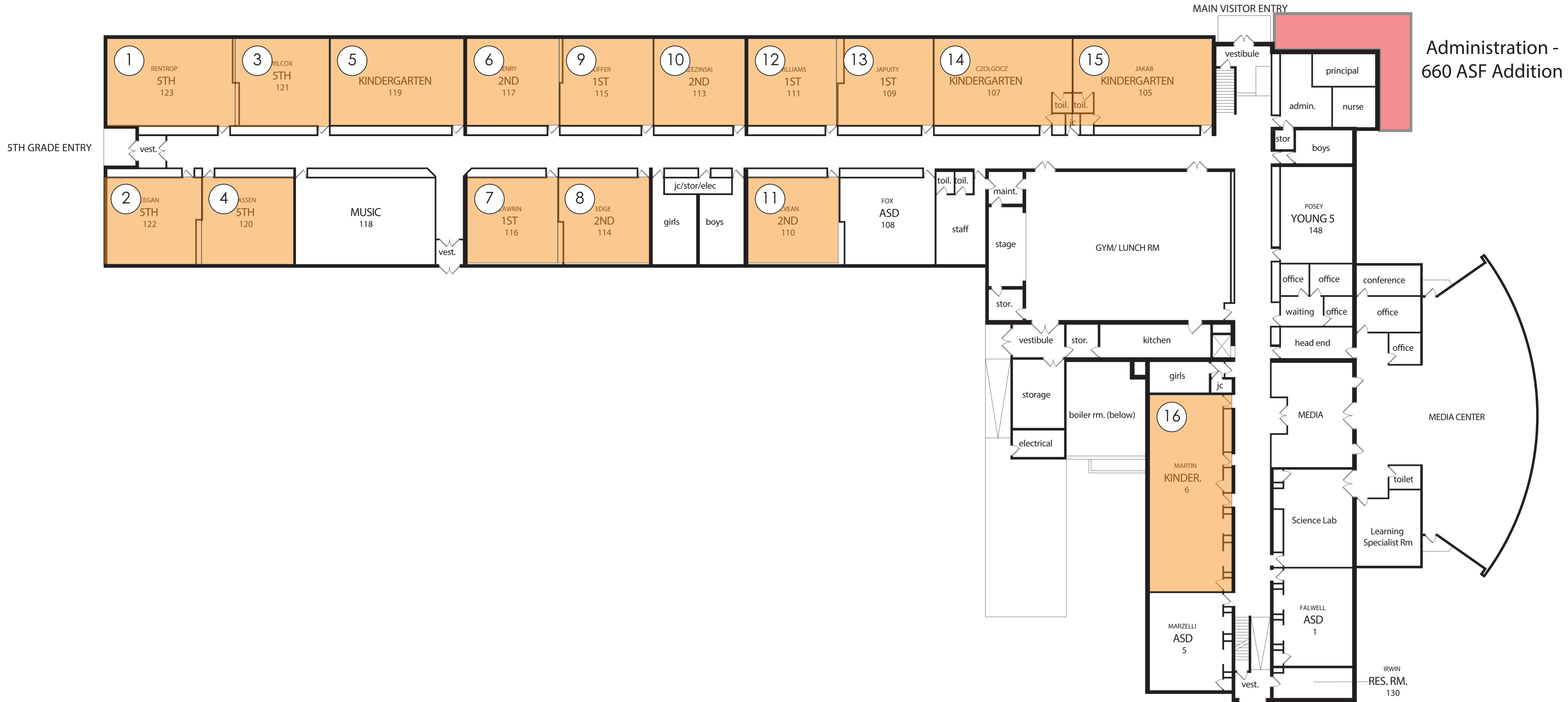
Utilization Percentage (Projected 5-Year Enrollment / Total Capacity)	100%
---------------------------------------------------------------------------------	-------------

- 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.**

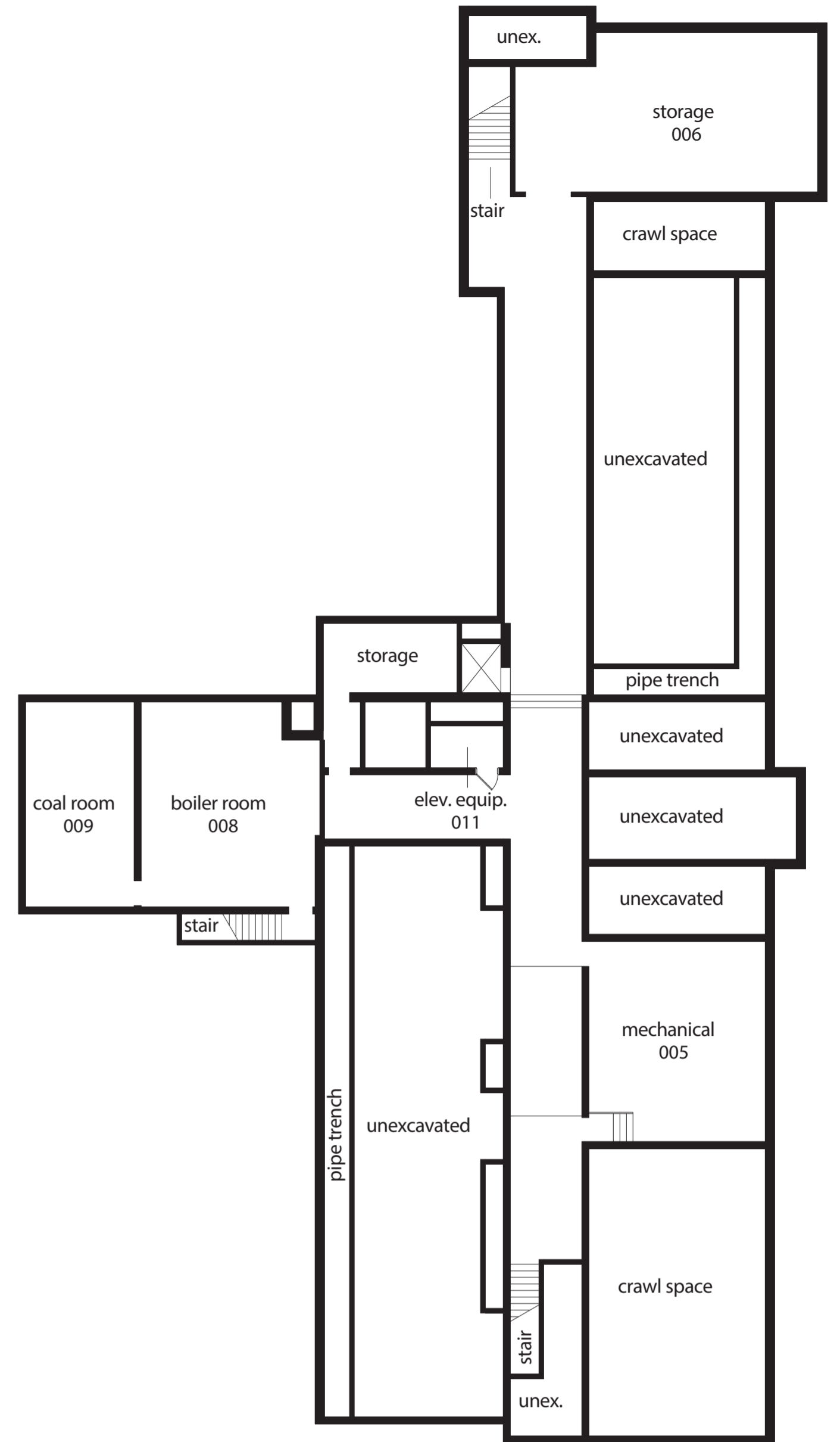
Facility to be Closed	List # of Teaching Stations	X	Capacity Factor	=	Capacity
(K-2) Lower Elementary		X	20	=	0
(3-5) Upper Elementary		X	25	=	0
(6-8) Junior High		X	22.5	=	0
(9-12) High School		X	21.25	=	0
Total Teaching Stations	<u>0</u>				

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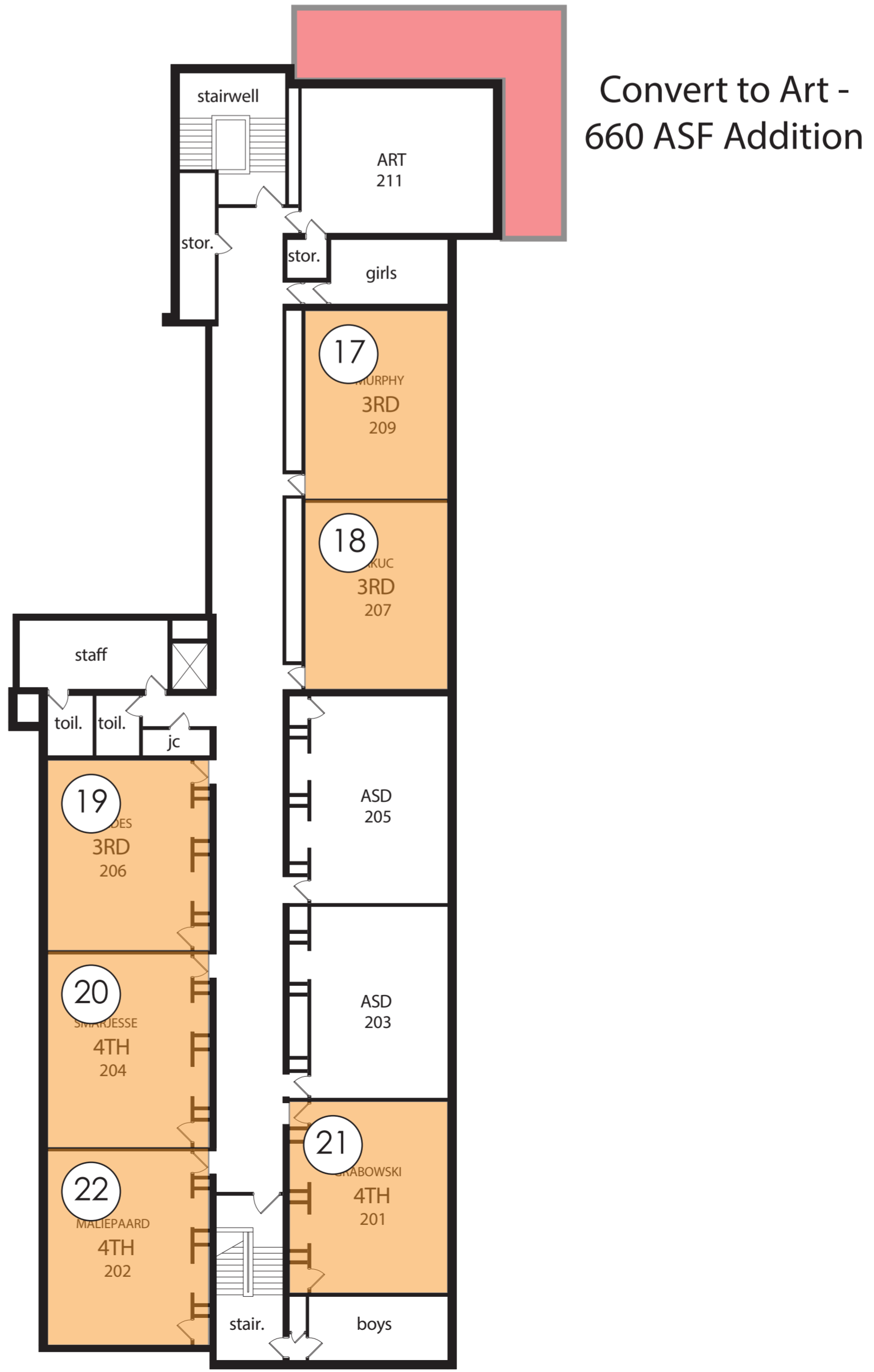
Please transfer applicable information to the Utilization Summary on Page 7 of the application.



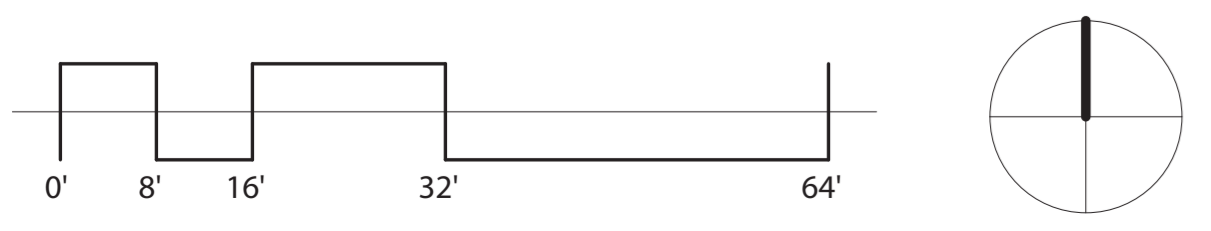
first floor



basement



second floor



Teaching Stations





Site Plan Concept for:
Burton Elementary School
Berkley School District
Berkley, Michigan

November 14, 2014



Facility Condition Assessment

Project Number 2

Burton Elementary School

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 overall assessment of each section or comment on any deficiencies or special circumstances:

Health Section

	Yes	No	N/A
1. Visible mold/damage does not exist due to past or present water/moisture leaks.	X		
2. Indoor surfaces are free of loose and peeling paint.	X		
3. Air temperature is comfortable throughout the building.		X	
4. Unique/objectionable odors are not present in specific areas or throughout the building.		X	
Air temperature is inconsistent throughout building. Lack of adequate fresh air ventilation leads to odors			

Life Safety Section

	Yes	No	N/A
1. 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		
3. Washroom facilities have barrier free accessibility.		X	
4. Building access is limited to select, controlled entries.	X		
Washrooms have limited barrier free accessibility.			

Structural Section

	Yes	No	N/A
1. Inside masonry walls do not show visible signs of cracks beyond normal aging.	X		
2. Surface cracks do not exist around perimeter of interior/exterior doors and windows.	X		
3. Roof structure does not show visible signs of damage.	X		
4. Building exterior is intact and does not show visible deterioration beyond normal aging.	X		

Mechanical Section

	Yes	No	N/A
1. 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		
4. Floor area near toilets and sinks is dry.	X		
Overall assessment or comments:			

Electrical Section

	Yes	No	N/A
1. Lighting system provides adequate intensity, diffusion, and distribution of illumination.	X		
2. Electrical controls are safely protected and accessible.	X		
3. Classrooms have sufficient outlets to prevent regular use of electrical extension cords.	X		
4. 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.

	Lee A. Andrea, AIA	Stantec Architecture, Inc.	45478
Signature	Printed Name	Firm Name and License Number	

1/5/2015	lee.andrea@stantec.com	248.336.4881	248.336.4880
Date	E-mail Address	Fax Number	Area Code and Telephone Number

Project Sheet

Project No.	3	
Name of School Building:		Pattengill Elementary School

Description of Proposal or Series 1 Project: Addition to provide new entry, secure vestibule and office. General remodeling of interior and exterior of building. Renovation to improve security and program delivery. Remodeling to meet code and safety requirements. Upgrades to fire alarm system, emergency lighting, and phone systems. Mechanical system upgrades. Upgrades to plumbing system including replacement of domestic water and sanitary pipe, sump pump and water coolers. Replacement of electrical distribution system, panels, receptacles, exit lighting and lighting fixtures. Asbestos abatement.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Instructional Technology Description</td> </tr> <tr> <td>Interactive classroom audio visual equipment and student computing devices.</td> </tr> <tr> <td style="text-align: center;">Site Work Description</td> </tr> <tr> <td>Site work associated with new addition and to improve site drainage.</td> </tr> </table>	Instructional Technology Description	Interactive classroom audio visual equipment and student computing devices.	Site Work Description	Site work associated with new addition and to improve site drainage.
Instructional Technology Description					
Interactive classroom audio visual equipment and student computing devices.					
Site Work Description					
Site work associated with new addition and to improve site drainage.					

Type of Project:

<input type="checkbox"/> New Building	→ New Construction Square Ft		Cost per Sq Ft	
<input checked="" type="checkbox"/> Addition(s)	→ New Addition Square Ft.	1,300	Cost per Sq Ft	\$ 216
<input checked="" type="checkbox"/> Remodeling				
<input checked="" type="checkbox"/> Technology and/or Buses				
<input checked="" type="checkbox"/> Site Work				
<input type="checkbox"/> Facility Closing	→	<input type="radio"/> Demolish <input type="radio"/> Retain for future use <input type="radio"/> Convert to non-instructional <input type="radio"/> Sell or Lease <input type="radio"/> Undetermined		

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

Asbestos abatement, replacment of mechanical systems with newer, more efficient systems.

Estimated Cost of Proposed Construction Project: (Attach analysis showing how cost estimates were calculated.)

	Total	Proposal/Series 1	Proposal/Series 2	Proposal/Series 3
New Construction	\$280,666	\$280,666		
Remodeling	\$2,988,140	\$2,988,140		
Construction Contingencies	\$248,228	\$248,228		
Instructional Technology	\$94,017	\$94,017		
Loose Furnishing/Equipment	\$329,986	\$329,986		
Buses	\$0	\$0		
Site Work	\$40,907	\$40,907		
Site Acquisition	\$0	\$0		
Architectural Fees and Costs	\$243,986	\$243,986		
CM Fees and Costs	\$195,687	\$195,687		
Estimated Costs	\$4,421,618	\$4,421,618	\$0	\$0

(Not including election or bond issuance costs)

Certificate by Registered Architect

I certify that the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.			
	Lee A. Andrea, AIA		Stantec Architecture, Inc. 45478
Signature	Printed Name		Firm Name and License Number
1/5/2015	lee.andrea@stantec.com	248.336.4881	248.336.4880
Date	E-mail Address	Fax Number	Area Code and Telephone Number



**BERKLEY SCHOOL DISTRICT
MAY 2015 BOND PROGRAM**

Pattengill Elementary School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
1. Site Work								
Site Work								
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. Remodeling								
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 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	Associated with mechanical system replacement	6,340	SF	\$ 4.50	\$ 28,530.00	1.033	\$ 29,471.49
	Classroom Ceilings	Associated with mechanical system replacement	19,000	SF	\$ 5.50	\$ 104,500.00	1.033	\$ 107,948.50
	Classroom Flooring	Associated 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	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
	Visual display boards	Associated with mechanical system replacement	24	CR	\$ 1,200.00	\$ 28,800.00	1.033	\$ 29,750.40
	Painting	Associated with mechanical system replacement	24	CR	\$ 600.00	\$ 14,400.00	1.033	\$ 14,875.20
	Bookshelves	Associated with mechanical system replacement	24	CR	\$ 750.00	\$ 18,000.00	1.033	\$ 18,594.00
	VUV wall opening	Associated with mechanical system replacement	24	CR	\$ 3,000.00	\$ 72,000.00	1.033	\$ 74,376.00
								\$ 596,080.98
Academic 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/ Safety								
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	Proposed 2015 Bond Scope
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
Mechanical								
	Mechanical System replacement		46000	sf	\$ 25.00	\$ 1,150,000.00	1.033	\$ 1,187,950.00
								\$ 1,187,950.00
Plumbing								
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
Electrical								
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	Subtotal	Indirect Cost	Proposed 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	\$ 38,040.00	1.033	\$ 39,295.32
	Classroom Lighting	Assoicated with mechanical system replacement	19000	SF	\$ 6.00	\$ 114,000.00	1.048	\$ 119,472.00
								\$ 253,534.68
Air Conditioning								
								\$ -
Asbestos Abatement								
	Asbestos Abatement- flooring, ceiling, etc.		46000	SF	\$ 5.00	\$ 230,000.00	1.000	\$ 230,000.00
								\$ 230,000.00
3. New Construction								
New Construction								
	Addition: New entry, security vestibule and main office at SW corner.		1,300	SF	\$ 209.00	\$ 271,700.00	1.033	\$ 280,666.10
								\$ 280,666.10
4. Instructional Technology								
	Educational Technology		1	LS	\$ 94,017.42	\$ 94,017.42	1.00	\$ 94,017.42
								\$ 94,017.42

Pattengill Elementary School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
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								\$ 2,988,140.34
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

Building Utilization

Project No.	3
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Name of School Building
Pattengill Elementary School

Existing/Adequate	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	<u>0</u>				<u>0</u>

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

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	<u>0</u>				<u>0</u>

Total Teaching Stations	13	Total Capacity	290
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Current Gr. Structure	K-5	Projected 5-Year Enrollment	294
Proposed Gr. Structure	K-5		

Utilization Percentage (Projected 5-Year Enrollment / Total Capacity)	101%
---------------------------------------------------------------------------------	-------------

- 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.**

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	<u>0</u>				

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:
Pattengill Elementary School
Berkley School District
Berkley, Michigan

November 14, 2014



Facility Condition Assessment

Project Number 3

Pattengill Elementary School

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 overall assessment of each section or comment on any deficiencies or special circumstances:

Health Section

	Yes	No	N/A
1. Visible mold/damage does not exist due to past or present water/moisture leaks.	X		
2. Indoor surfaces are free of loose and peeling paint.	X		
3. Air temperature is comfortable throughout the building.		X	
4. Unique/objectionable odors are not present in specific areas or throughout the building.		X	
Air temperature is inconsistent throughout building. Lack of adequate fresh air ventilation leads to odors			

Life Safety Section

	Yes	No	N/A
1. 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		
3. Washroom facilities have barrier free accessibility.		X	
4. Building access is limited to select, controlled entries.	X		
Washrooms have limited barrier free accessibility.			

Structural Section

	Yes	No	N/A
1. Inside masonry walls do not show visible signs of cracks beyond normal aging.	X		
2. Surface cracks do not exist around perimeter of interior/exterior doors and windows.	X		
3. Roof structure does not show visible signs of damage.	X		
4. Building exterior is intact and does not show visible deterioration beyond normal aging.	X		
Overall assessment or comments:			

Mechanical Section

	Yes	No	N/A
1. 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		
4. Floor area near toilets and sinks is dry.	X		
Overall assessment or comments:			

Electrical Section

	Yes	No	N/A
1. Lighting system provides adequate intensity, diffusion, and distribution of illumination.	X		
2. Electrical controls are safely protected and accessible.	X		
3. Classrooms have sufficient outlets to prevent regular use of electrical extension cords.	X		
4. 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.

	Lee A. Andrea, AIA	Stantec Architecture, Inc.	45478
Signature	Printed Name	Firm Name and License Number	

1/5/2015	lee.andrea@stantec.com	248.336.4881	248.336.4880
Date	E-mail Address	Fax Number	Area Code and Telephone Number

Project Sheet

Project No.	4	
Name of School Building:		Rogers Elementary School

Description of Proposal or Series 1 Project: Addition to provide new entry, Art Room and Kindergarten. General remodeling of interior and exterior of building. Renovation to improve security and program delivery. Remodeling to meet code and safety requirements. Upgrades to fire alarm system, emergency lighting, and phone systems. Mechanical upgrades to hot water system and HVAC. Upgrades to plumbing system including replacement of domestic water and water coolers. Replacement of electrical distribution system, panels, receptacles, exit lighting and lighting fixtures. Asbestos abatement.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Instructional Technology Description</td> </tr> <tr> <td>Interactive classroom audio visual equipment and student computing devices.</td> </tr> <tr> <td style="text-align: center;">Site Work Description</td> </tr> <tr> <td>Site work associated with new addition and to improve site drainage.</td> </tr> </table>	Instructional Technology Description	Interactive classroom audio visual equipment and student computing devices.	Site Work Description	Site work associated with new addition and to improve site drainage.
Instructional Technology Description					
Interactive classroom audio visual equipment and student computing devices.					
Site Work Description					
Site work associated with new addition and to improve site drainage.					

Type of Project:

<input type="checkbox"/> New Building	→ New Construction Square Ft		Cost per Sq Ft	
<input checked="" type="checkbox"/> Addition(s)	→ New Addition Square Ft.	4,200	Cost per Sq Ft	\$ 216
<input checked="" type="checkbox"/> Remodeling				
<input checked="" type="checkbox"/> Technology and/or Buses				
<input checked="" type="checkbox"/> Site Work				
<input type="checkbox"/> Facility Closing	→	<input type="radio"/> Demolish <input type="radio"/> Retain for future use <input type="radio"/> Convert to non-instructional <input type="radio"/> Sell or Lease <input type="radio"/> Undetermined		

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

Asbestos abatement, replacment of mechanical systems with newer, more efficient systems.

Estimated Cost of Proposed Construction Project: (Attach analysis showing how cost estimates were calculated.)

	Total	Proposal/Series 1	Proposal/Series 2	Proposal/Series 3
New Construction	\$906,767	\$906,767		
Remodeling	\$2,322,849	\$2,322,849		
Construction Contingencies	\$250,937	\$250,937		
Instructional Technology	\$68,116	\$68,116		
Loose Furnishing/Equipment	\$269,642	\$269,642		
Buses	\$0	\$0		
Site Work	\$116,213	\$116,213		
Site Acquisition	\$0	\$0		
Architectural Fees and Costs	\$246,648	\$246,648		
CM Fees and Costs	\$197,822	\$197,822		
Estimated Costs	\$4,378,995	\$4,378,995	\$0	\$0

(Not including election or bond issuance costs)

Certificate by Registered Architect

I certify that the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.			
	Lee A. Andrea, AIA		Stantec Architecture, Inc. 45478
Signature	Printed Name		Firm Name and License Number
1/5/2015	lee.andrea@stantec.com	248.336.4881	248.336.4880
Date	E-mail Address	Fax Number	Area Code and Telephone Number



**BERKLEY SCHOOL DISTRICT
2015 BOND PROGRAM**

Rogers Elementary School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
1. Site Work								
Site Work								
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. Remodeling								
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 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	Associated with mechanical system replacement	19,600	SF	\$ 4.50	\$ 88,200	1.033	\$ 91,110.60
	Visual Display Boards	Associated with mechanical system replacement	24	CR	\$ 1,200.00	\$ 28,800	1.033	\$ 29,750.40
	Painting	Associated with mechanical system replacement	24	CR	\$ 600.00	\$ 14,400	1.033	\$ 14,875.20
	Bookshelves	Associated with mechanical system replacement	24	CR	\$ 750.00	\$ 18,000	1.033	\$ 18,594.00
	VUV wall opening	Associated with mechanical system replacement	24	CR	\$ 3,000.00	\$ 72,000	1.033	\$ 74,376.00
								\$ 467,634.29

Rogers Elementary School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
Academic 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 EI 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/Safety								
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								
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
Mechanical								
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

Rogers Elementary School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	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
MS-07	Roof Hoods and Exhaust Fans	Provide new roof exhaust fans, average size is 600 CFM.	5	EA	\$ 3,475.00	17375	1.033	\$ 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								
PS-1	Domestic Water Pipe	Replace with copper pipe.	7400	SF	\$ 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	4	EA	\$ 2,000.00	8000	1.033	\$ 8,264.00
	Classroom Lighting		19640	SF	\$ 6.00	117840	1.033	\$ 121,728.72
	Corridor Lighting		6244	SF	\$ 6.00	37464	1.033	\$ 38,700.31
								\$ 246,281.66
Air Conditioning								
								\$ -

Rogers Elementary School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 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 Construction								
New Construction								
	Addition: Art room , music room and entry at SE corner of building.		4,200	SF	\$ 209.00	\$ 877,800	1.033	\$ 906,767.40
								\$ 906,767.40
4. Instructional 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		\$ 906,767.40
Subtotal		\$ 3,345,829.18
Construction Contingency	7.5%	\$ 250,937.19
Subtotal		\$ 3,596,766.37
CM Fees and Costs	5.5%	\$ 197,822.15
Subtotal		\$ 3,794,588.52
Architectural Fees and Costs	6.5%	\$ 246,648.25
Instructional Technology		\$ 68,116.26
Loose Furnishing/Equipment		\$ 269,642.41
Total Project Cost		\$ 4,378,995.44

Building Utilization

Project No.	4
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Name of School Building
Rogers Elementary School

Existing/Adequate	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	<u>0</u>				<u>0</u>

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

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	<u>0</u>				<u>0</u>

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

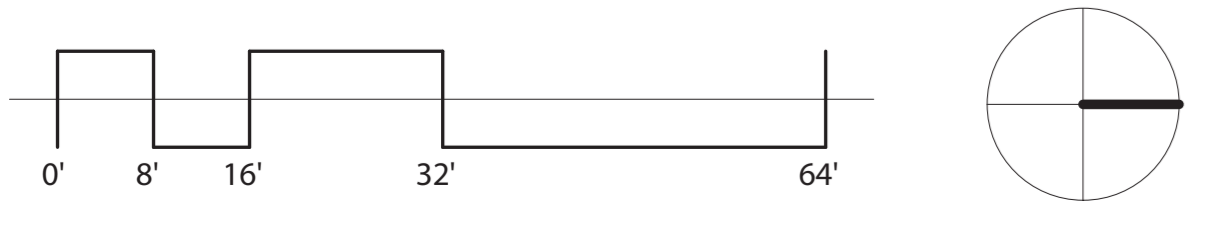
Utilization Percentage (Projected 5-Year Enrollment / Total Capacity)	94%
---------------------------------------------------------------------------------	------------

- 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.**

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	<u>0</u>				

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:
Rogers Elementary School
Berkley School District
Berkley, Michigan

November 14, 2014



Facility Condition Assessment

Project Number 4

Rogers Elementary School

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 overall assessment of each section or comment on any deficiencies or special circumstances:

Health Section

	Yes	No	N/A
1. Visible mold/damage does not exist due to past or present water/moisture leaks.	X		
2. Indoor surfaces are free of loose and peeling paint.	X		
3. Air temperature is comfortable throughout the building.		X	
4. Unique/objectionable odors are not present in specific areas or throughout the building.		X	
Air temperature is inconsistent throughout building. Lack of adequate fresh air ventilation leads to odors			

Life Safety Section

	Yes	No	N/A
1. 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		
3. Washroom facilities have barrier free accessibility.		X	
4. Building access is limited to select, controlled entries.	X		
Washrooms have limited barrier free accessibility.			

Structural Section

	Yes	No	N/A
1. Inside masonry walls do not show visible signs of cracks beyond normal aging.	X		
2. Surface cracks do not exist around perimeter of interior/exterior doors and windows.	X		
3. Roof structure does not show visible signs of damage.	X		
4. Building exterior is intact and does not show visible deterioration beyond normal aging.	X		
Overall assessment or comments:			

Mechanical Section

	Yes	No	N/A
1. 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		
4. Floor area near toilets and sinks is dry.	X		
Overall assessment or comments:			

Electrical Section

	Yes	No	N/A
1. Lighting system provides adequate intensity, diffusion, and distribution of illumination.	X		
2. Electrical controls are safely protected and accessible.	X		
3. Classrooms have sufficient outlets to prevent regular use of electrical extension cords.	X		
4. 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.

	Lee A. Andrea, AIA	Stantec Architecture, Inc.	45478
Signature	Printed Name	Firm Name and License Number	

1/5/2015	lee.andrea@stantec.com	248.336.4881	248.336.4880
Date	E-mail Address	Fax Number	Area Code and Telephone Number

Project Sheet

Project No.	5	
Name of School Building:		Norup International School

Description of Proposal or Series 1 Project: Addition to create new cafeteria/multipurpose room. General remodeling of interior and exterior of building. Renovation to improve security and program delivery. Remodeling to meet code and safety requirements. Upgrades to fire alarm system, emergency lighting, and phone systems. Mechanical system upgrades. Upgrades to plumbing system including replacement of domestic water and sanitary pipe and water coolers. Replacement of electrical distribution system, panels, receptacles, exit lighting and lighting fixtures. Asbestos abatement.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Instructional Technology Description</td> </tr> <tr> <td>Interactive classroom audio visual equipment and student computing devices.</td> </tr> <tr> <td style="text-align: center;">Site Work Description</td> </tr> <tr> <td>Site work associated with new addition and to improve site drainage and student drop-off.</td> </tr> </table>	Instructional Technology Description	Interactive classroom audio visual equipment and student computing devices.	Site Work Description	Site work associated with new addition and to improve site drainage and student drop-off.
Instructional Technology Description					
Interactive classroom audio visual equipment and student computing devices.					
Site Work Description					
Site work associated with new addition and to improve site drainage and student drop-off.					

Type of Project:

<input type="checkbox"/> New Building	→ New Construction Square Ft		Cost per Sq Ft	
<input checked="" type="checkbox"/> Addition(s)	→ New Addition Square Ft.	7,200	Cost per Sq Ft	\$ 215.90
<input checked="" type="checkbox"/> Remodeling				
<input checked="" type="checkbox"/> Technology and/or Buses				
<input checked="" type="checkbox"/> Site Work				
<input type="checkbox"/> Facility Closing	→	<input type="radio"/> Demolish <input type="radio"/> Retain for future use <input type="radio"/> Convert to non-instructional <input type="radio"/> Sell or Lease <input type="radio"/> Undetermined		

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

Asbestos abatement, replacment of mechanical systems with newer, more efficient systems.

Estimated Cost of Proposed Construction Project: (Attach analysis showing how cost estimates were calculated.)

	Total	Proposal/Series 1	Proposal/Series 2	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	\$9,301,757	\$9,301,757	\$0	\$0

(Not including election or bond issuance costs)

Certificate by Registered Architect

I certify that the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.			
	Lee A. Andrea, AIA	Stantec Architecture, Inc.	45478
Signature	Printed Name	Firm Name and License Number	
1/5/2015	lee.andrea@stantec.com	248.336.4881	248.336.4880
Date	E-mail Address	Fax Number	Area Code and Telephone Number



**BERKLEY SCHOOL DISTRICT
MAY 2015 BOND PROGRAM**

Norup International School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
1. Site Work								
Site Work								
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
								\$ 216,930.00
2. Remodeling								
Exterior Architectural Replacement								
BE-01	Overhangs/Soffits	Provide aluminum soffit panels.	1,630	SF	\$ 29.91	\$ 48,750	1.033	\$ 50,358.76
BE-02	Brick Veneer at Base of Walls	Replace brick.	75	SF	\$ 25.00	\$ 1,875	1.033	\$ 1,936.88
BE-04	Steel Doors and Frames	Replace with aluminum frames and fiberglass reinforced panel doors.	4	EA	\$ 3,200.00	\$ 12,800	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 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	Associated with mechanical system replacement	17,800	SF	\$ 4.50	\$ 80,100	1.033	\$ 82,743.30
	Classroom Ceilings	Associated with mechanical system replacement	29,240	SF	\$ 5.50	\$ 160,820	1.033	\$ 166,127.06
	Classroom Flooring	Associated with mechanical system replacement	28	CR	\$ 3,150.00	\$ 88,200	1.033	\$ 91,110.60
	Visual Display Boards	Associated with mechanical system replacement	28	CR	\$ 1,200.00	\$ 33,600	1.033	\$ 34,708.80
	Painting	Associated with mechanical system replacement	28	CR	\$ 600.00	\$ 16,800	1.033	\$ 17,354.40
	Bookshelves	Associated with mechanical system replacement	28	CR	\$ 750.00	\$ 21,000	1.033	\$ 21,693.00
	VUV wall opening	Associated with mechanical system replacement	28	CR	\$ 3,000.00	\$ 84,000	1.033	\$ 86,772.00
								\$867,094.83
Academic 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	Proposed 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
								\$ 1,004,076
Code/ Safety								
AB-02	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
AB-07	Room Exits	Provide exit to exterior.	1	LS	\$ 13,100.00	\$ 13,100	1.033	\$ 13,532.30
AB-15	Bleacher Guardrails	Add removable guardrails to open ends of retractable bleachers.	136	LF	\$ 80.00	\$ 10,880	1.033	\$ 11,239.04
								\$ 69,500.24
Building Systems Replacement/ Energy Efficiency								
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
Mechanical								
	Mechanical Systems Replacement		90000	SF	\$ 20.00	1800000	1.033	\$ 1,859,400.00
								\$ 1,859,400.00
Plumbing								
PS-1	Domestic Water Pipe	Replace with copper pipe.	55000	SF	\$ 3.75	206250	1.033	\$ 213,056.25
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
Electrical								
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 Conditioning								
								\$ -
Asbestos Abatement								
	Asbestos Abatement- flooring, ceiling, etc.		90000	SF	\$ 5.00	450000	1.000	\$ 450,000.00
								\$ 450,000.00
3. New Construction								
New Construction								
	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. Instructional 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

\$ 7,842,542

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

Building Utilization

Project No.	5
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Name of School Building
Norup International School

Existing/Adequate	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

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

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
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Current Gr. Structure	K-8	Projected 5-Year Enrollment	734
Proposed Gr. Structure	K-8		

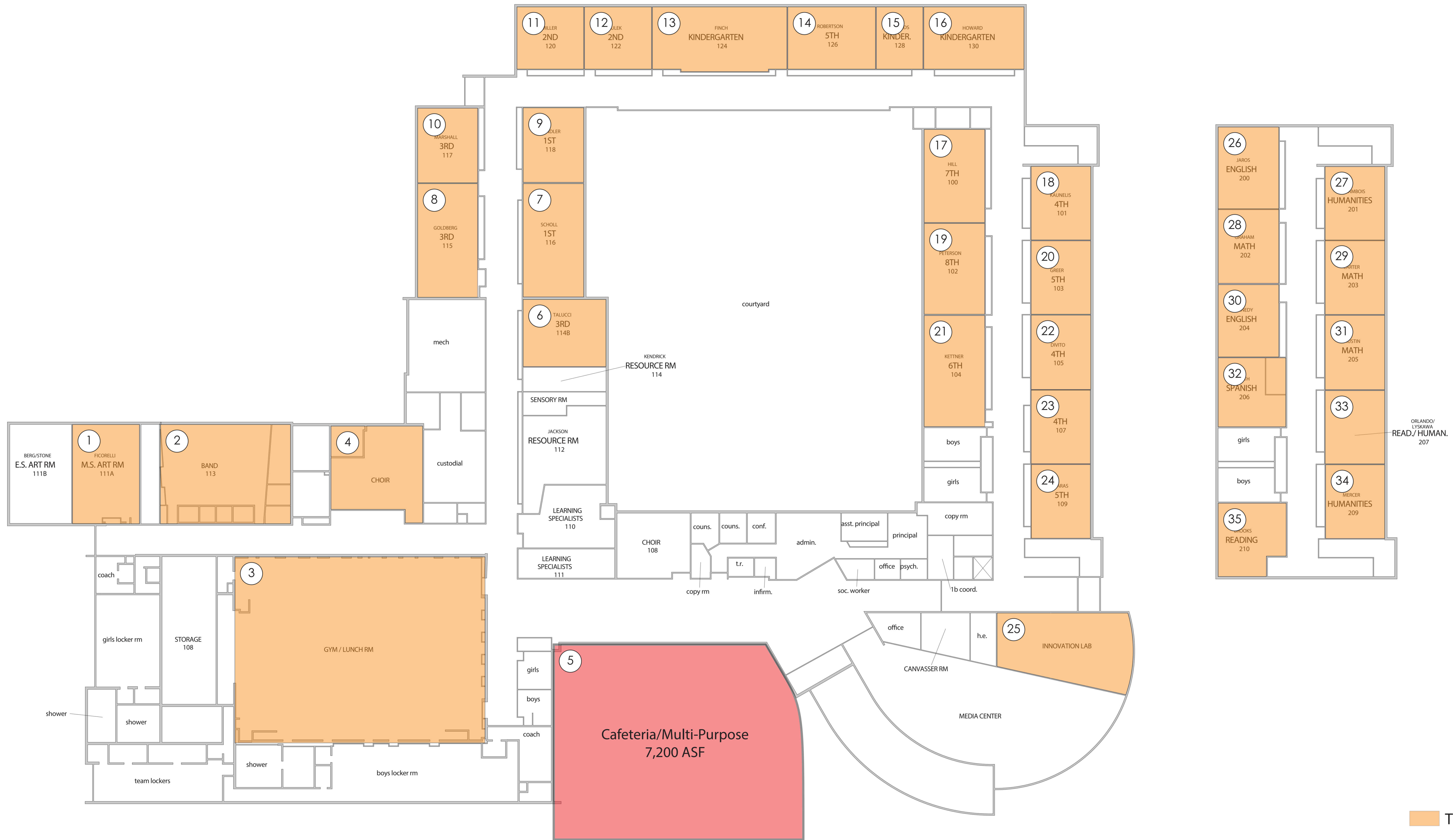
Utilization Percentage (Projected 5-Year Enrollment / Total Capacity)	93%
---------------------------------------------------------------------------------	------------

- 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.**

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

November 11, 2014



Facility Condition Assessment

Project Number 5

Norup International School

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 overall assessment of each section or comment on any deficiencies or special circumstances:

Health Section

	Yes	No	N/A
1. Visible mold/damage does not exist due to past or present water/moisture leaks.	X		
2. Indoor surfaces are free of loose and peeling paint.	X		
3. Air temperature is comfortable throughout the building.		X	
4. Unique/objectionable odors are not present in specific areas or throughout the building.		X	
Air temperature is inconsistent throughout building. Lack of adequate fresh air ventilation leads to odors			

Life Safety Section

	Yes	No	N/A
1. 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		
3. Washroom facilities have barrier free accessibility.		X	
4. Building access is limited to select, controlled entries.	X		
Washrooms have limited barrier free accessibility.			

Structural Section

	Yes	No	N/A
1. Inside masonry walls do not show visible signs of cracks beyond normal aging.	X		
2. Surface cracks do not exist around perimeter of interior/exterior doors and windows.	X		
3. Roof structure does not show visible signs of damage.	X		
4. Building exterior is intact and does not show visible deterioration beyond normal aging.	X		
Overall assessment or comments:			

Mechanical Section

	Yes	No	N/A
1. 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		
4. Floor area near toilets and sinks is dry.	X		
Overall assessment or comments:			

Electrical Section

	Yes	No	N/A
1. Lighting system provides adequate intensity, diffusion, and distribution of illumination.	X		
2. Electrical controls are safely protected and accessible.	X		
3. Classrooms have sufficient outlets to prevent regular use of electrical extension cords.	X		
4. 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.

	Lee A. Andrea, AIA	Stantec Architecture, Inc.	45478
Signature	Printed Name	Firm Name and License Number	

1/5/2015	lee.andrea@stantec.com	248.336.4881	248.336.4880
Date	E-mail Address	Fax Number	Area Code and Telephone Number

Project Sheet

Project No.	6	
Name of School Building:		Anderson Middle School

Description of Proposal or Series 1 Project: Addition to create new secure entryway. General remodeling of interior and exterior of building. Renovation to improve security and program delivery. Remodeling to meet code and safety requirements. Upgrades to fire alarm system, emergency lighting, and phone systems. Mechanical system upgrades. Upgrades to plumbing system including replacement of domestic water and sanitary pipe and water coolers. Replacement of electrical distribution system, panels, exit lighting and lighting fixtures. Asbestos abatement.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Instructional Technology Description</td> </tr> <tr> <td>Interactive classroom audio visual equipment and student computing devices.</td> </tr> <tr> <td style="text-align: center;">Site Work Description</td> </tr> <tr> <td>Site work associated with new addition and improved student drop-off.</td> </tr> </table>	Instructional Technology Description	Interactive classroom audio visual equipment and student computing devices.	Site Work Description	Site work associated with new addition and improved student drop-off.
Instructional Technology Description					
Interactive classroom audio visual equipment and student computing devices.					
Site Work Description					
Site work associated with new addition and improved student drop-off.					

Type of Project:

<input type="checkbox"/> New Building	→ New Construction Square Ft		Cost per Sq Ft	
<input checked="" type="checkbox"/> Addition(s)	→ New Addition Square Ft.	225	Cost per Sq Ft	\$ 215.90
<input checked="" type="checkbox"/> Remodeling				
<input checked="" type="checkbox"/> Technology and/or Buses				
<input checked="" type="checkbox"/> Site Work				
<input type="checkbox"/> Facility Closing	→	<input type="radio"/> Demolish <input type="radio"/> Retain for future use <input type="radio"/> Convert to non-instructional <input type="radio"/> Sell or Lease <input type="radio"/> Undetermined		

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

Asbestos abatement, replacment of mechanical systems with newer, more efficient systems.

Estimated Cost of Proposed Construction Project: (Attach analysis showing how cost estimates were calculated.)

	Total	Proposal/Series 1	Proposal/Series 2	Proposal/Series 3
New Construction	\$48,577	\$48,577		
Remodeling	\$5,624,513	\$5,624,513		
Construction Contingencies	\$435,166	\$435,166		
Instructional Technology	\$194,693	\$194,693		
Loose Furnishing/Equipment	\$681,741	\$681,741		
Buses	\$0	\$0		
Site Work	\$129,125	\$129,125		
Site Acquisition	\$0	\$0		
Architectural Fees and Costs	\$427,728	\$427,728		
CM Fees and Costs	\$343,056	\$343,056		
Estimated Costs	\$7,884,599	\$7,884,599	\$0	\$0

(Not including election or bond issuance costs)

Certificate by Registered Architect

I certify that the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.			
	Lee A. Andrea, AIA		Stantec Architecture, Inc. 45478
Signature	Printed Name		Firm Name and License Number
1/5/2015	lee.andrea@stantec.com	248.336.4881	248.336.4880
Date	E-mail Address	Fax Number	Area Code and Telephone Number



**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 Architectural Replacement								
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 Architectural Replacement								
BI-01	Original Hollow Metal, Wood Doors and Frames	Replace corridor doors with wood doors and hardware.	85.00	EA	\$ 1,301.76	\$ 110,649.60	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	\$ 240.00	\$ 24,000.00	1.033	\$ 24,792.00
BI-04	Casework Cabinets	Replace cabinets.	15.00	LF	\$ 300.00	\$ 4,500.00	1.033	\$ 4,648.50
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
AB-07	Boy's and Girl's Toilet Rooms	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
AB-08	Boy's and Girl's Locker Room Toilets	Provide new plumbing fixtures, lighting, floor/wall/ceiling finishes and stalls.	210.00	SF	\$ 86.20	\$ 18,102.00	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
BI-10	Original Classroom Ceilings	STANTEC: Install new acoustical ceiling below existing as part of lighting replacement	32000.00	SF	\$ 5.50	\$ 176,000.00	1.033	\$ 181,808.00
	Corridor Ceilings	Associated with mechanical system replacement	14000.00	SF	\$ 4.50	\$ 63,000.00	1.033	\$ 65,079.00
	Classroom Flooring	Associated with mechanical system replacement	32000.00	SF	\$ 3.50	\$ 112,000.00	1.033	\$ 115,696.00
	Visual Display Boards	Associated with mechanical system replacement	40.00	EA	\$ 1,200.00	\$ 48,000.00	1.033	\$ 49,584.00
	Classroom Painting	Associated with mechanical system replacement	40.00	EA	\$ 600.00	\$ 24,000.00	1.033	\$ 24,792.00

Anderson Middle School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
	Bookshelves	Associated with mechanical system replacement	40.00	EA	\$ 750.00	\$ 30,000.00	1.033	\$ 30,990.00
	VUV wall opening	Associated with mechanical system replacement	40.00	EA	\$ 3,000.00	\$ 120,000.00	1.033	\$ 123,960.00
Academic Program Improvements								
	Relocate main visitor entry to stairwell across from Catapa entry. Includes covered canopy and Sitework to emphasize new entry.		300.00	SF	\$ 120.00	\$ 36,000.00	1.033	\$ 37,188.00
	Renovate room 129 (orchestra room) to improve finishes and acoustics.		2000.00	SF	\$ 50.00	\$ 100,000.00	1.033	\$ 103,300.00
	Renovate room 125 (choir room) to improve finishes and acoustics		1100.00	SF	\$ 50.00	\$ 55,000.00	1.033	\$ 56,815.00
	Renovate room 127 (Band room) to improve finishes and acoustics.		2000.00	SF	\$ 120.00	\$ 240,000.00	1.033	\$ 247,920.00
Code/Safety								
AB-02	Stair Guardrail	Add guardrail.	100.00	LF	\$ 150.00	\$ 15,000.00	1.033	\$ 15,495.00
AB-04	Handrails at Stairs	Add handrails.	75.00	LF	\$ 75.00	\$ 5,625.00	1.033	\$ 5,810.63
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	\$ 32,023.00
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	\$ 11,239.04
Building Systems Replacement/Energy Efficiency								
BS-1	Fire Alarm System	Install new addressable system.	96000.00	SF	\$ 1.75	\$ 168,000.00	1.033	\$ 173,544.00
BS-2	Emergency Lighting	Install new units in existing fixtures.	82.00	EA	\$ 300.00	\$ 24,600.00	1.033	\$ 25,411.80
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	\$ 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.	1.00	EA	\$ 5,000.00	\$ 5,000.00	1.033	\$ 5,165.00
Mechanical								
	Mechanical system Replacement		96000.00	SF	\$ 22.00	\$ 2,112,000.00	1.033	\$ 2,181,696.00
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	\$ 36,155.00
Plumbing								
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	Replace/upgrade to new 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
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	\$ 18,594.00
ES-5	Exit Lighting Fixtures	Add exit signs.	6.00	EA	\$ 300.00	\$ 1,800.00	1.033	\$ 1,859.40
ES-6	Exterior Lighting	Replace with more efficient LED fixtures.	15.00	EA	\$ 520.00	\$ 7,800.00	1.033	\$ 8,057.40
ES-8	Back-up Generator	Provide generator back-up system to serve racks.	1.00	LS	\$ 77,700.00	\$ 77,700.00	1.033	\$ 80,264.10
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	\$ 31,909.37
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	\$ 5,035.88
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	\$ 11,672.90

Anderson Middle School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	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 Conditioning								
								\$ -
Asbestos Abatement								
	Asbestos Abatement- flooring,ceiling,etc.		96000.00	SF	\$ 5.00	\$ 480,000.00	1	\$ 480,000.00
								\$ 480,000.00
3. New Construction								
New Construction								
	Secure Entryway Addition		225.00	SF	\$ 209.00	\$ 47,025.00	1.033	\$ 48,576.83
								\$ 48,576.83
4. Instructional Technology								
	Educational Technology		1.00	LS	\$ 194,693.24	\$ 194,693.24	1.00	\$ 194,693.24
								\$ 194,693.24
5. Loose Furnishings/Equipment								
	Technology Infrastructure		1.00	LS	\$ 322,250.88	\$ 322,250.88	1	\$ 322,250.88
	Equipment		1.00	LS	\$ 314,290.52	\$ 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

\$ 6,678,648.99

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

Total Project Cost \$ 7,884,599.35

Building Utilization

Project No.	6
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Name of School Building
Anderson Middle School

Existing/Adequate	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

Remodeled	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	30	X	22.5	=	675
(9-12) High School		X	21.25	=	0
Sub Totals	30				675

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	30	Total Capacity	675
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Current Gr. Structure	6-8	Projected 5-Year Enrollment	577
Proposed Gr. Structure	6-8		

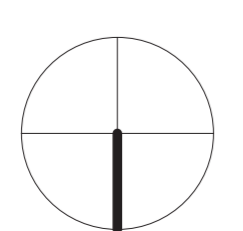
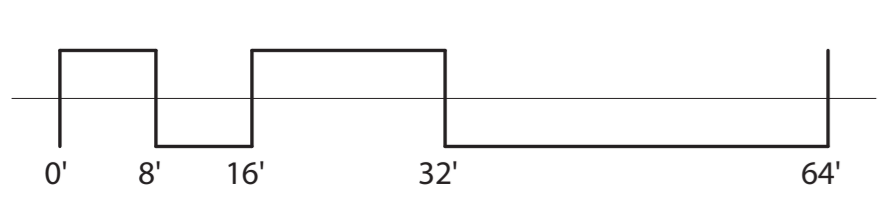
Utilization Percentage (Projected 5-Year Enrollment / Total Capacity)	85%
---------------------------------------------------------------------------------	------------

- 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.**

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:
Anderson Middle School
Berkley School District
Berkley, Michigan

November 23, 2014



Facility Condition Assessment

Project Number 6

Anderson Middle School

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 overall assessment of each section or comment on any deficiencies or special circumstances:

Health Section

	Yes	No	N/A
1. Visible mold/damage does not exist due to past or present water/moisture leaks.	X		
2. Indoor surfaces are free of loose and peeling paint.	X		
3. Air temperature is comfortable throughout the building.		X	
4. Unique/objectionable odors are not present in specific areas or throughout the building.		X	
Air temperature is inconsistent throughout building. Lack of adequate fresh air ventilation leads to odors			

Life Safety Section

	Yes	No	N/A
1. 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		
3. Washroom facilities have barrier free accessibility.		X	
4. Building access is limited to select, controlled entries.	X		
Washrooms have limited barrier free accessibility.			

Structural Section

	Yes	No	N/A
1. Inside masonry walls do not show visible signs of cracks beyond normal aging.	X		
2. Surface cracks do not exist around perimeter of interior/exterior doors and windows.	X		
3. Roof structure does not show visible signs of damage.	X		
4. Building exterior is intact and does not show visible deterioration beyond normal aging.	X		
Overall assessment or comments:			

Mechanical Section

	Yes	No	N/A
1. 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		
4. Floor area near toilets and sinks is dry.	X		
Overall assessment or comments:			

Electrical Section

	Yes	No	N/A
1. Lighting system provides adequate intensity, diffusion, and distribution of illumination.	X		
2. Electrical controls are safely protected and accessible.	X		
3. Classrooms have sufficient outlets to prevent regular use of electrical extension cords.	X		
4. 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.

	Lee A. Andrea, AIA	Stantec Architecture, Inc.	45478
Signature	Printed Name	Firm Name and License Number	

1/5/2015	lee.andrea@stantec.com	248.336.4881	248.336.4880
Date	E-mail Address	Fax Number	Area Code and Telephone Number

Project Sheet

Project No.	7	
Name of School Building:		Berkley High School

Description of Proposal or Series 1 Project: Addition to create new secure entry vestibule. General remodeling of interior and exterior of building. Renovation to improve program delivery. Remodeling to meet code and safety requirements. Upgrades to fire alarm system, emergency lighting, and phone systems. Mechanical system upgrades, including HVAC. Upgrades to plumbing system including replacement of domestic water and sanitary pipe, sump pump and water coolers. Replacement of electrical distribution system, panels, exit lighting and lighting fixtures. Asbestos abatement.	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align:center;">Instructional Technology Description</td> </tr> <tr> <td>Interactive classroom audio visual equipment and student computing devices.</td> </tr> <tr> <td style="text-align:center;">Site Work Description</td> </tr> <tr> <td>Site work associated with new addition.</td> </tr> </table>	Instructional Technology Description	Interactive classroom audio visual equipment and student computing devices.	Site Work Description	Site work associated with new addition.
Instructional Technology Description					
Interactive classroom audio visual equipment and student computing devices.					
Site Work Description					
Site work associated with new addition.					

Type of Project:

<input type="checkbox"/> New Building	→ New Construction Square Ft		Cost per Sq Ft	
<input checked="" type="checkbox"/> Addition(s)	→ New Addition Square Ft.	800	Cost per Sq Ft	\$ 232
<input checked="" type="checkbox"/> Remodeling				
<input checked="" type="checkbox"/> Technology and/or Buses				
<input checked="" type="checkbox"/> Site Work				
<input type="checkbox"/> Facility Closing	→	<input type="radio"/> Demolish <input type="radio"/> Retain for future use <input type="radio"/> Convert to non-instructional <input type="radio"/> Sell or Lease <input type="radio"/> Undetermined		

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

Asbestos abatement, replacment of mechanical systems with newer, more efficient systems.

Estimated Cost of Proposed Construction Project: (Attach analysis showing how cost estimates were calculated.)

	Total	Proposal/Series 1	Proposal/Series 2	Proposal/Series 3
New Construction	\$185,940	\$185,940		
Remodeling	\$12,070,969	\$12,070,969		
Construction Contingencies	\$921,592	\$921,592		
Instructional Technology	\$461,472	\$461,472		
Loose Furnishing/Equipment	\$1,599,163	\$1,599,163		
Buses	\$0	\$0		
Site Work	\$30,990	\$30,990		
Site Acquisition	\$0	\$0		
Architectural Fees and Costs	\$905,841	\$905,841		
CM Fees and Costs	\$726,522	\$726,522		
Estimated Costs	\$16,902,489	\$16,902,489	\$0	\$0

(Not including election or bond issuance costs)

Certificate by Registered Architect			
I certify that the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.			
	Lee A. Andrea, AIA	Stantec Architecture, Inc.	45478
Signature	Printed Name	Firm Name and License Number	
1/5/2015	lee.andrea@stantec.com	248.336.4881	248.336.4880
Date	E-mail Address	Fax Number	Area Code and Telephone Number



**BERKLEY SCHOOL DISTRICT
MAY 2015 BOND PROGRAM**

Berkley High School

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
1. Site Work								
Site Work								
	Sitework for addition		1	EA	\$ 30,000.00	\$ 30,000.00	1.033	\$ 30,990.00
								\$ 30,990.00
2. Remodeling								
Exterior 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 Architectural Replacement								
BI-02	Wood Bleachers	Replace bleachers add center aisle and aisle handrails.	1	LS	\$ 18,000.00	\$ 18,000.00	1.033	\$ 18,594.00
BI-04	Casework Cabinets	Replace cabinets and counter top.	8	LF	\$ 413.00	\$ 3,304.00	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	Associated with mechanical system replacement	69933	SF	\$ 5.50	\$ 384,631.50	1.033	\$ 397,324.34
	Corridor Ceilings	Associated with mechanical system replacement	36982	SF	\$ 4.50	\$ 166,419.00	1.033	\$ 171,910.83
	Classroom Flooring	Associated with mechanical system replacement	68	EA	\$ 3,600.00	\$ 244,800.00	1.033	\$ 252,878.40
	Classroom Painting	Associated with mechanical system replacement	68	EA	\$ 600.00	\$ 40,800.00	1.033	\$ 42,146.40
	VUV Wall Opening	Associated with mechanical system replacement	68	EA	\$ 3,000.00	\$ 204,000.00	1.033	\$ 210,732.00
	Bookshelves	Associated with mechanical system replacement	68	EA	\$ 750.00	\$ 51,000.00	1.033	\$ 52,683.00
	Visual Display Boards	Associated with mechanical system replacement	68	EA	\$ 1,200.00	\$ 81,600.00	1.033	\$ 84,292.80
								\$ 1,628,265.73
Academic 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/Safety								
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	Proposed 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
								\$ 39,134.69
Building Systems Replacement/ Energy Efficiency								
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
Mechanical								
	Mechanical System Replacement		227000	SF	\$ 21.00	\$ 4,767,000.00	1.033	\$ 4,924,311.00
								\$ 4,924,311.00
Plumbing								
PS-1	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 Cost	Subtotal	Indirect Cost	Proposed 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 Conditioning								
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	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
3. New Construction								
New Construction								
	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. Instructional 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

Building Utilization

Project No.	7
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Name of School Building
Berkley High School

Existing/Adequate	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

Remodeled	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	67	X	21.25	=	1,424
Sub Totals	67				1,424

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
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Current Gr. Structure	9-12	Projected 5-Year Enrollment	1,287
Proposed Gr. Structure	9-12		

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

- 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.**

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.



New Secure Vestibule - 800 ASF Addition

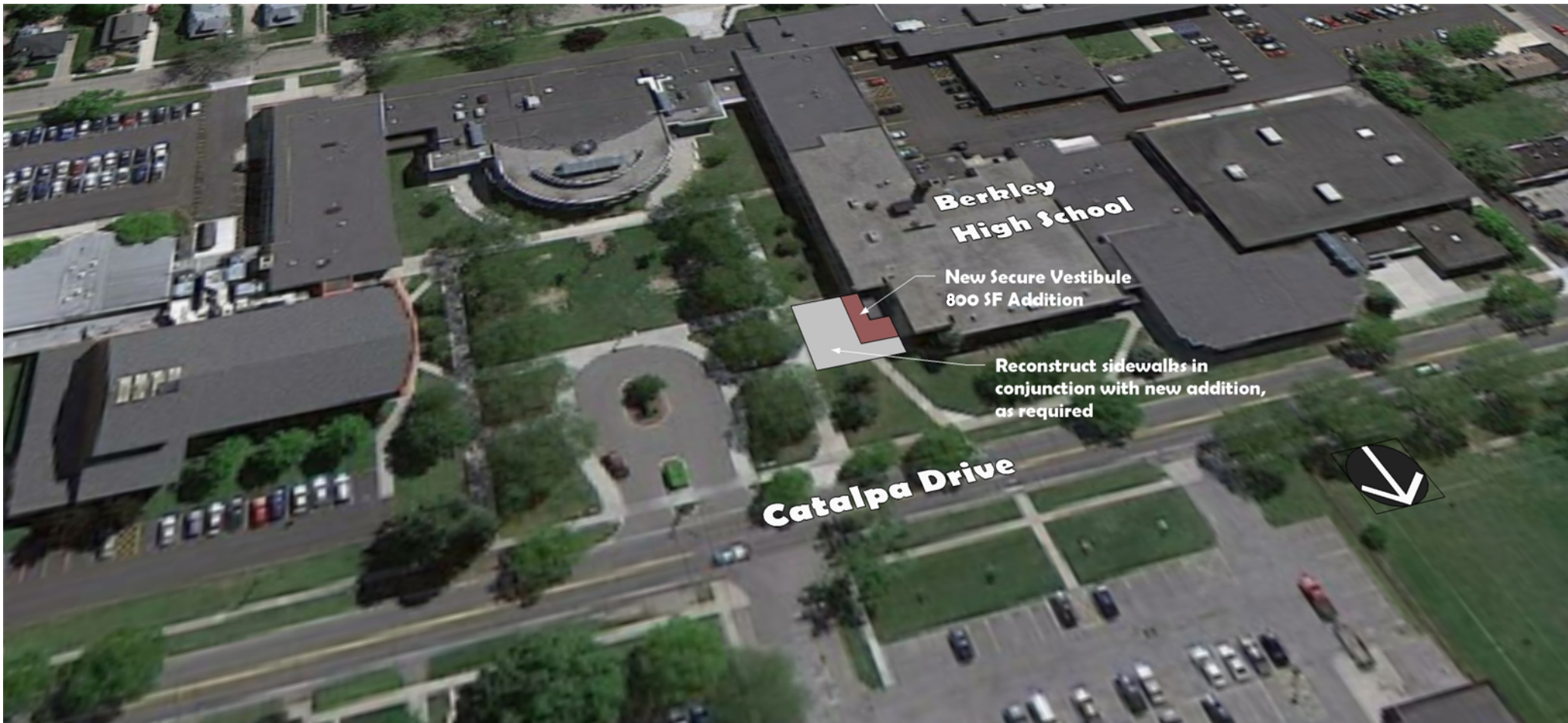
Teaching Stations





Teaching Stations





Site Plan Concept for:
Berkley High School
Berkley School District
Berkley, Michigan

November 14, 2014



Facility Condition Assessment

Project Number 7

Berkley High School

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 overall assessment of each section or comment on any deficiencies or special circumstances:

Health Section

	Yes	No	N/A
1. Visible mold/damage does not exist due to past or present water/moisture leaks.	X		
2. Indoor surfaces are free of loose and peeling paint.	X		
3. Air temperature is comfortable throughout the building.		X	
4. Unique/objectionable odors are not present in specific areas or throughout the building.		X	

Air temperature is inconsistent throughout the building. Lack of adequate fresh air leads to odors.

Life Safety Section

	Yes	No	N/A
1. 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		
3. Washroom facilities have barrier free accessibility.	X		
4. Building access is limited to select, controlled entries.	X		

Overall assessment or comments:

Structural Section

	Yes	No	N/A
1. Inside masonry walls do not show visible signs of cracks beyond normal aging.	X		
2. Surface cracks do not exist around perimeter of interior/exterior doors and windows.	X		
3. Roof structure does not show visible signs of damage.	X		
4. Building exterior is intact and does not show visible deterioration beyond normal aging.	X		

Overall assessment or comments:

Mechanical Section

	Yes	No	N/A
1. 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		
4. Floor area near toilets and sinks is dry.	X		

Overall assessment or comments:

Electrical Section

	Yes	No	N/A
1. Lighting system provides adequate intensity, diffusion, and distribution of illumination.	X		
2. Electrical controls are safely protected and accessible.	X		
3. Classrooms have sufficient outlets to prevent regular use of electrical extension cords.	X		
4. 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.

	Lee A. Andrea, AIA	Stantec Architecture, Inc.	45478
Signature	Printed Name	Firm Name and License Number	

1/5/2015	lee.andrea@stantec.com	248.336.4881	248.336.4880
Date	E-mail Address	Fax Number	Area Code and Telephone Number

Project Sheet

Project No.	8	
Name of School Building:		Avery Building

Description of Proposal or Series 1 Project: General remodeling of interior and exterior of building. Renovation to improve security and program delivery. Upgrades to fire alarm system, emergency lighting, and phone systems. Mechanical upgrades to hot water system and HVAC, including replacement of unit ventilators. Upgrades to plumbing system including replacement of domestic water and water coolers. Replacement of electrical distribution system, panels, receptacles. Asbestos abatement. Interactive classroom audio visual equipment and student computing devices.	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align:center;">Instructional Technology Description</td> </tr> <tr> <td style="height: 40px;"></td> </tr> <tr> <td style="text-align:center;">Site Work Description</td> </tr> <tr> <td>Site work to improve site drainage.</td> </tr> </table>	Instructional Technology Description		Site Work Description	Site work to improve site drainage.
Instructional Technology Description					
Site Work Description					
Site work to improve site drainage.					

Type of Project:

- New Building → New Construction Square Ft _____ Cost per Sq Ft _____
- Addition(s) → New Addition Square Ft _____ Cost per Sq Ft _____
- Remodeling
- Technology and/or Buses
- Site Work
- Facility Closing →
 - Demolish
 - Retain for future use
 - Convert to non-instructional
 - Sell or Lease
 - Undetermined

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

Asbestos abatement, replacment of mechanical systems with newer, more efficient systems.

Estimated Cost of Proposed Construction Project: (Attach analysis showing how cost estimates were calculated.)

	Total	Proposal/Series 1	Proposal/Series 2	Proposal/Series 3
New Construction	\$0	\$0		
Remodeling	\$2,517,124	\$2,517,124		
Construction Contingencies	\$192,154	\$192,154		
Instructional Technology	\$0	\$0		
Loose Furnishing/Equipment	\$352,600	\$352,600		
Buses	\$0	\$0		
Site Work	\$44,936	\$44,936		
Site Acquisition	\$0	\$0		
Architectural Fees and Costs	\$188,870	\$188,870		
CM Fees and Costs	\$151,482	\$151,482		
Estimated Costs	\$3,447,166	\$3,447,166	\$0	\$0

(Not including election or bond issuance costs)

Certificate by Registered Architect			
I certify that the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.			
	Lee A. Andrea, AIA	Stantec Architecture, Inc.	45478
Signature	Printed Name	Firm Name and License Number	
1/5/2015	lee.andrea@stantec.com	248.336.4881	248.336.4880
Date	E-mail Address	Fax Number	Area Code and Telephone Number



**BERKLEY SCHOOL DISTRICT
MAY 2015 BOND PROGRAM**

Avery Center

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
1. Site Work								
Site Work								
BE-14	Site Drainage	Add landscape drain tile to storm system.	2,900	SF	\$ 15.00	\$ 43,500.00	1.033	\$ 44,935.50
								\$ 44,935.50
2. Remodeling								
Exterior Architectural Replacement								
BE-01	Overhangs/Soffits	Provide aluminum soffit panels.	2,200	SF	\$ 20.00	\$ 44,000.00	1.033	\$ 45,452.00
BE-02	Brick Veneer at Base of Walls	Control roof drainage where possible and replace brick and glass block	2,750	SF	\$ 15.36	\$ 42,240.00	1.033	\$ 43,633.92
BE-03	Sealant at Door and Window Openings		1,400	LF	\$ 4.75	\$ 6,650.00	1.033	\$ 6,869.45
BE-04	Aluminum Windows/Steel Lintels		650	LF	\$ 5.53	\$ 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	\$ 3,280.00	\$ 16,400.00	1.033	\$ 16,941.20
BE-08	Clerestory Windows	Replace with aluminum frames and insulating glass.	400	SF	\$ 80.00	\$ 32,000.00	1.033	\$ 33,056.00
BE-09	Entrance Canopy Soffits	Provide aluminum soffit panels.	1,600	SF	\$ 20.00	\$ 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	\$ 10.00	\$ 140,600.00	1.033	\$ 145,239.80
BE-11	Entrance Canopy Columns		19	EA	\$ 75.00	\$ 1,425.00	1.033	\$ 1,472.03
BE-12	Roof Drainage	Correct roof drainage and downspouts, replace brick.	2,400	SF	\$ 15.25	\$ 36,600.00	1.033	\$ 37,807.80
BE-15	Brick Veneer	Replace brick	100	SF	\$ 25.00	\$ 2,500.00	1.033	\$ 2,582.50
								\$ 369,821.23
Interior Architectural Replacement								
BI-07	Room Access	Add door and frame into corridor.	1	EA	\$ 3,990.00	\$ 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	\$ 87.50	\$ 123,375.00	1.033	\$ 127,446.38
BI-01	Original Wood Doors and Frames	Replace with wood doors and hardware.	50	EA	\$ 1,300.00	\$ 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	\$ 5.50	\$ 110,000.00	1.033	\$ 113,630.00
BI-03	Corridor Carpet	Replace carpet and resilient base.	6,080	SF	\$ 4.50	\$ 27,360.00	1.033	\$ 28,262.88

Avery Center

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 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	Associated with mechanical system replacement	20,000	SF	\$ 4.50	\$ 90,000.00	1.033	\$ 92,970.00
	Visual Display Boards	Associated with mechanical system replacement	21	CR	\$ 1,200.00	\$ 25,200.00	1.033	\$ 26,031.60
	Classroom Painting	Associated with mechanical system replacement	21	CR	\$ 600.00	\$ 12,600.00	1.033	\$ 13,015.80
	Bookshelves	Associated with mechanical system replacement	21	CR	\$ 750.00	\$ 15,750.00	1.033	\$ 16,269.75
								\$ 517,155.96
Code/Safety								
								\$ -
Building Systems Replacement/ Energy Efficiency								
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
Mechanical								
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

Avery Center

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 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
								\$ 684,073.26
Plumbing								
PS-1	Domestic Water Pipe	Replace with copper pipe.	15000	SF	\$ 3.75	\$ 56,250.00	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
								\$ 74,830.52
Electrical								
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

Avery Center

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 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 Conditioning								
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 Abatement								
	Asbestos Abatement- flooring, ceiling, etc.		37000	SF	\$ 5.00	\$ 185,000.00	1.000	\$ 185,000.00
								\$ 185,000.00
3. New Construction								
New Construction								
								\$ -
4. Instructional Technology								
								\$ -

Avery Center

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
5. Loose Furnishings/ Equipment								
	Equipment		1	LS	\$ 142,027.15	\$ 142,027.15	1.00	\$ 142,027.15
	Technology		1	LS	\$ 68,271.81	\$ 68,271.81	1.00	\$ 68,271.81
	Technology Infrastructure		1	LS	\$ 125,351.52	\$ 125,351.52	1.000	\$ 125,351.52
	Furniture Replacement		1	EA	\$ 15,000.00	\$ 15,000.00	1.130	\$ 16,950.00
								\$ 352,600.48

\$ 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

Project Number 8

Avery Building

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 overall assessment of each section or comment on any deficiencies or special circumstances:

Health Section

	Yes	No	N/A
1. Visible mold/damage does not exist due to past or present water/moisture leaks.	X		
2. Indoor surfaces are free of loose and peeling paint.	X		
3. Air temperature is comfortable throughout the building.		X	
4. Unique/objectionable odors are not present in specific areas or throughout the building.		X	
Air temperature is inconsistent throughout building. Lack of adequate fresh air ventilation leads to odors			

Life Safety Section

	Yes	No	N/A
1. 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		
3. Washroom facilities have barrier free accessibility.		X	
4. Building access is limited to select, controlled entries.	X		
Washrooms have limited barrier free accessibility.			

Structural Section

	Yes	No	N/A
1. Inside masonry walls do not show visible signs of cracks beyond normal aging.	X		
2. Surface cracks do not exist around perimeter of interior/exterior doors and windows.	X		
3. Roof structure does not show visible signs of damage.	X		
4. Building exterior is intact and does not show visible deterioration beyond normal aging.	X		
Overall assessment or comments:			

Mechanical Section

	Yes	No	N/A
1. 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		
4. Floor area near toilets and sinks is dry.	X		
Overall assessment or comments:			

Electrical Section

	Yes	No	N/A
1. Lighting system provides adequate intensity, diffusion, and distribution of illumination.	X		
2. Electrical controls are safely protected and accessible.	X		
3. Classrooms have sufficient outlets to prevent regular use of electrical extension cords.	X		
4. 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.

	Lee A. Andrea, AIA	Stantec Architecture, Inc.	45478
Signature	Printed Name	Firm Name and License Number	

1/5/2015	lee.andrea@stantec.com	248.336.4881	248.336.4880
Date	E-mail Address	Fax Number	Area Code and Telephone Number

Project Sheet

Project No.	9	
Name of School Building:		Tyndall Center

Description of Proposal or Series 1 Project: General remodeling of interior and exterior of building. Renovation to improve security. Remodeling to meet code and safety requirements. Upgrades to fire alarm system, emergency lighting, and phone systems. Mechanical upgrades to hot water system and HVAC, including replacement of unit ventilators. Upgrades to plumbing system including replacement of domestic water and sanitary pipe and water coolers. Replacement of electrical distribution system, panels, receptacles, exit lighting and lighting fixtures. Asbestos abatement. Interactive classroom audio visual equipment and student computing devices.	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align:center;">Instructional Technology Description</td> </tr> <tr> <td style="height: 40px;"></td> </tr> <tr> <td style="text-align:center;">Site Work Description</td> </tr> <tr> <td style="height: 40px;"></td> </tr> </table>	Instructional Technology Description		Site Work Description	
Instructional Technology Description					
Site Work Description					

Type of Project:

<input type="checkbox"/> New Building	→ New Construction Square Ft	_____	Cost per Sq Ft	_____
<input type="checkbox"/> Addition(s)	→ New Addition Square Ft.	_____	Cost per Sq Ft	_____
<input checked="" type="checkbox"/> Remodeling				
<input type="checkbox"/> Technology and/or Buses				
<input type="checkbox"/> Site Work				
<input type="checkbox"/> Facility Closing	→	<input type="radio"/> Demolish <input type="radio"/> Retain for future use <input type="radio"/> Convert to non-instructional <input type="radio"/> Sell or Lease <input type="radio"/> Undetermined		

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

Asbestos abatement, replacment of mechanical systems with newer, more efficient systems.

Estimated Cost of Proposed Construction Project: (Attach analysis showing how cost estimates were calculated.)

	Total	Proposal/Series 1	Proposal/Series 2	Proposal/Series 3
New Construction	\$0	\$0		
Remodeling	\$2,057,600	\$2,057,600		
Construction Contingencies	\$154,320	\$154,320		
Instructional Technology	\$0	\$0		
Loose Furnishing/Equipment	\$225,518	\$225,518		
Buses	\$0	\$0		
Site Work	\$0	\$0		
Site Acquisition	\$0	\$0		
Architectural Fees and Costs	\$151,682	\$151,682		
CM Fees and Costs	\$121,656	\$121,656		
Estimated Costs	\$2,710,776	\$2,710,776	\$0	\$0

(Not including election or bond issuance costs)

Certificate by Registered Architect			
I certify that the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.			
	Lee A. Andrea, AIA	Stantec Architecture, Inc.	45478
Signature	Printed Name	Firm Name and License Number	
1/5/2015	lee.andrea@stantec.com	248.336.4881	248.336.4880
Date	E-mail Address	Fax Number	Area Code and Telephone Number



**BERKLEY SCHOOL DISTRICT
MAY 2015 BOND PROGRAM**

Tyndall Center

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
1. Site Work								
Site Work								
								\$ -
2. Remodeling								
Exterior Architectural Replacement								
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 Architectural Replacement								
BI-05	Accordion Folding Doors	Replace with Dutch style doors in HM frames.	7	EA	\$ 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	SF	\$ 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	Associated with mechanical system replacement	10	CR	\$ 1,200.00	\$ 12,000.00	1.033	\$ 12,396.00
	Classroom Painting	Associated with mechanical system replacement	10	CR	\$ 600.00	\$ 6,000.00	1.033	\$ 6,198.00

Tyndall Center

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
	Bookshelves	Associated with mechanical system replacement	10	CR	\$ 750.00	\$ 7,500.00	1.033	\$ 7,747.50
	VUV wall opening	Associated with mechanical system replacement	10	CR	\$ 3,000.00	\$ 30,000.00	1.033	\$ 30,990.00
								\$ 372,765.28
Code/Safety								
AB-02	Exit Door Concrete Slabs	Replace concrete slabs at exit doors.	120	SF	\$ 115.00	\$ 13,800.00	1.033	\$ 14,255.40
								\$ 14,255.40
Building Systems 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
								\$ 54,749.00
Mechanical								
								\$ 709,252.64
Plumbing								
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.	3	EA	\$ 1,750.00	\$ 5,250.00	1.033	\$ 5,423.25
PS-4	Sanitary Pipe	Replace accessible portions.	10000	SF	\$ 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
								\$ 145,136.50
Electrical								
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	Unit Cost	Subtotal	Indirect Cost	Proposed 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
ES-6	Exterior Lighting	Install efficient LED fixtures in soffit above door.	17	EA	\$ 1,020.00	\$ 17,340.00	1.033	\$ 17,912.22
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)		1	EA	\$ 3,000.00	\$ 3,000.00	1.033	\$ 3,099.00
	Classroom Lighting		13000	SF	\$ 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 Conditioning								
								\$ -
Asbestos Abatement								
	Asbestos Abatement- flooring, ceiling, etc.		24000	SF	\$ 5.00	\$ 120,000.00	1.000	\$ 120,000.00
								\$ 120,000.00
3. New Construction								
New Construction								
								\$ -
4. Instructional Technology								
						\$ -		\$ -
								\$ -

Tyndall Center

No.	Item/Description	Action	Qty.	Unit	Unit Cost	Subtotal	Indirect Cost	Proposed 2015 Bond Scope
5. Loose Furnishing/ 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							\$ 2,057,600.17
	New Construction							\$ -
	Subtotal							\$ 2,057,600.17
	Construction Contingency					7.5%		\$ 154,320.01
	Subtotal							\$ 2,211,920.18
	CM Fees and Costs					5.5%		\$ 121,655.61
	Subtotal							\$ 2,333,575.79
	Architectural Fees and Costs					6.5%		\$ 151,682.43
	Instructional Technology							\$ -
	Loose Furnishing/Equipment							\$ 225,517.61
	Total Project Cost							\$ 2,710,775.82

Tyndall Building



Facility Condition Assessment

Project Number 9

Tyndall Center

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 overall assessment of each section or comment on any deficiencies or special circumstances:

Health Section

	Yes	No	N/A
1. Visible mold/damage does not exist due to past or present water/moisture leaks.	X		
2. Indoor surfaces are free of loose and peeling paint.	X		
3. Air temperature is comfortable throughout the building.		X	
4. Unique/objectionable odors are not present in specific areas or throughout the building.		X	
Air temperature is inconsistent throughout building. Lack of adequate fresh air ventilation leads to odors			

Life Safety Section

	Yes	No	N/A
1. 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		
3. Washroom facilities have barrier free accessibility.	X		
4. Building access is limited to select, controlled entries.	X		
Overall assessment or comments:			

Structural Section

	Yes	No	N/A
1. Inside masonry walls do not show visible signs of cracks beyond normal aging.	X		
2. Surface cracks do not exist around perimeter of interior/exterior doors and windows.	X		
3. Roof structure does not show visible signs of damage.	X		
4. Building exterior is intact and does not show visible deterioration beyond normal aging.	X		
Overall assessment or comments:			

Mechanical Section

	Yes	No	N/A
1. 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		
4. Floor area near toilets and sinks is dry.	X		
Overall assessment or comments:			

Electrical Section

	Yes	No	N/A
1. Lighting system provides adequate intensity, diffusion, and distribution of illumination.	X		
2. Electrical controls are safely protected and accessible.	X		
3. Classrooms have sufficient outlets to prevent regular use of electrical extension cords.	X		
4. 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.

	Lee A. Andrea, AIA	Stantec Architecture, Inc.	45478
Signature	Printed Name	Firm Name and License Number	

1/5/2015	lee.andrea@stantec.com	248.336.4881	248.336.4880
Date	E-mail Address	Fax Number	Area Code and Telephone Number

Utilization Summary

 Name of School District: Berkley School District

 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

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

Cost Summary

Name of School District: Berkley School District

District Code Number: 63-050

Proj. #	Cost per Sq Foot	New Cons Sq Feet	New Construction	Remodeling	Contingency	Instructional Technology	Loose Furn and Equip	Buses	Site Work	Site Acquisition	A/E Fees and Costs	CM Fees and Costs	Project Costs	Election/ Issue Costs	Total 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	\$ 3,248,514	\$ 1,181,376	\$ 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%
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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 prorate 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
(Amount to be Qualified) **\$ 58,950,000**

*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.

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

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

Follow Column Instructions	→	Enter Value	Col. 1 + Col. 2	Enter Value	Enter Value	Col. 4 + Col. 5	Col. 6 ÷ Col. 6 Total	Col. 3 x Col. 7
Asset Type	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8
Asset Type	Average Useful Life of Asset (in Years)	Time between Bonds Issue Date and Purchase	Useful Life of Asset from Bond Issue Date	Expenditure Amount	Allocation of Related Professional Fees	Total Costs (Incl. Related Fees)	% of Total Cost	Average Useful Life of Assets (in years)
School Buildings	40	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 determining weighted avg useful life				\$ 54,825,255	\$ 4,386,020	\$ 59,211,276	100.00%	29.50

120% of average useful life of assets

→

35.40

Berkley Public Schools
Useful Life Calculations
Project Backup

Asset Type	Angell	Burton	Pattengill	Rogers	Norup	Anderson	Berkley	Avery	Tyndall	Total
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	\$ 44,938,734