

# Burlington School District Facility Condition Assessment and Level 1 Energy Audit EXECUTIVE SUMMARY REPORT

April 2016







Mr. Marty Spaulding, Director of Property Services

# **Burlington School District**

150 Colchester Avenue Burlington, Vermont 05401 (802) 864-8453



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#### 1. Executive Summary

#### 1.1 Background

The Facility Condition Assessments (FCAs) were prepared by EMG Corporation (EMG) in collaboration with Burlington School District, are a component of a long range capital plan.

The Burlington School District (BSD) portfolio covered by these assessments consists of 709,255 SF of District-owned facilities, contained within 9 schools and a facilities building. The FCAs inventoried and evaluated each of the BSD buildings to benchmark current conditions and establish replacement values. The assessments evaluate site conditions, building envelope, mechanical/HVAC, electrical, plumbing, fire protection and accessibility. For each recommended improvement, replacement or alteration, a project budget is provided. The projects are then prioritized based on the evaluations of the conditions. The Level 1 Energy Audit – Walk-Through Analysis identified and provided a savings cost analysis of low cost/no cost measures as well as providing a listing of potential capital improvements that merit further consideration.

This Facility Condition Assessment Executive Summary Report combines the individual assessments into one consolidated report, presenting general conclusions and an overall cost and condition summary. The report documents the identified immediate repair needs and anticipates replacement/repair needs based on useful life expectancy of the various systems, components and/or assets at each building.

#### 1.2 Objectives

The objective of the Facility Condition Assessment is to identify the capital needs for infrastructure life cycle replacement/repair over the next twenty years. The FCA immediate need projections will become the basis for the Facility Condition Index (FCI). The FCI is the ratio of immediate needs versus the replacement value of the current facility. The FCI is a key performance indicator used to objectively quantify and evaluate the current condition of a facility. Once the FCI for a facility is established, it can be used to compare the relative condition of the subject facility with other facilities within the same portfolio, and as a trending matrix for infrastructure "health" over time.

## 1.3 Scope of Assessment

The evaluation teams visited each of the 10 buildings in June 2015. The evaluation teams reviewed available engineering studies, construction documents, and utility data to familiarize themselves with the physical conditions of the buildings and to perform a preliminary energy use analysis. The evaluation teams conducted walk-through surveys of the buildings in order to observe systems and components, identify physical deficiencies, and formulate recommendations to remedy the physical deficiencies in addition to identifying opportunities for energy conservation.

#### 1.4 Key Findings

One of the major goals of the Facility Condition Assessment is to calculate the FCI, which gives an indication of a building's overall condition. The values are based on a scale from 0 to100 percent and are derived by dividing the immediate repair needs for a facility by the calculated replacement value. A lower FCI value indicates that the building infrastructure is in a better condition. Typically, a "Good" condition building will have the FCI below five percent, a "Fair" condition building will have the FCI between five and ten percent, and a "Poor" condition building will have the FCI above ten percent. If the FCI exceeds 65 percent, this is considered "Very Poor", and the building is a candidate for replacement or divestment.

The table below represents combined summary-level findings for all of the facility condition assessments. The deficiencies identified can be combined with potential new construction requirements to develop an overall long term capital needs plan that can be the basis for a facility-wide capital improvement funding strategy. Key findings from the assessments include:

Key Finding	Metric
Portfolio Replacement Value	\$208,741,300
Portfolio Immediate Repair Needs (12 months)	\$12,416,878
Portfolio 20- Year Capital Needs	\$63,509,658

 $FCI = \frac{\text{Repair Costs [Immediate or 20-year Total]}}{\text{Current Replacement Value of Portfolio}}$ 

Portfolio Current Year FCI

Portfolio 20-Year FCI

Current FCI = 
$$\frac{\$12,416,878}{\$208,741,300}$$
 20-Year FCI =  $\frac{\$63,509,658}{\$208,741,300}$ 

5.95 % = Good to Fair Condition

30.43 % = Poor Condition

The above FCI calculations show the condition across the entire portfolio. Generally buildings constructed or significantly renovated within the last 15 years are in good condition. There are two buildings that are currently in fair condition and two buildings that are currently in poor condition, based on FCI.

If no modernization or significant repair work is completed, the portfolio FCI index climbs to 30.43 percent or poor condition over the twenty year term. See summary table below.

#### **EXECUTIVE SUMMARY**

Location	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Total
Burlington High School	\$9,021,863	\$697,530	\$10,992,745	\$271,112	\$351,378	\$1,975,681	\$1,401,817	\$1,642	\$1,632,700	\$670,711	\$363,350	\$124,686	\$489,091	\$0	\$529,844	\$852,668	\$760,743	\$510,359	\$522,827	\$419,438	\$31,590,186
Champlain Elementary	\$370,003	\$80,424	\$354,246	\$0	\$161,826	\$249,711	\$15,105	\$13,158	\$430,401	\$10,438	\$262,490	\$100,565	\$0	\$252,731	\$41,681	\$50,316	\$68,441	\$280,534	\$303,033	\$31,191	\$3,076,293
Charles P. Smith Elementary	\$420	\$110,210	\$0	\$96,784	\$38,899	\$0	\$14,329	\$30,776	\$7,514	\$53,624	\$0	\$16,611	\$465,673	\$109,012	\$79,659	\$0	\$19,256	\$69,487	\$28,202	\$0	\$1,140,457
Edmunds Middle & Elementary School	\$247,797	\$179,036	\$1,663,478	\$127,618	\$404,684	\$1,369,669	\$320,871	\$1,401,074	\$392,676	\$185,386	\$0	\$0	\$71,912	\$469,167	\$420,931	\$708,860	\$0	\$602,615	\$207,367	\$90,140	\$8,863,279
IAA - H.O. Wheeler Elementary	\$150,414	\$44,774	\$406,815	\$196,455	\$60,597	\$26,874	\$58,690	\$147,943	\$0	\$177,210	\$127,820	\$64,842	\$45,624	\$10,656	\$68,236	\$278,220	\$21,747	\$367,602	\$0	\$916,152	\$3,170,671
IRA	\$1,109,631	\$0	\$21,534	\$927,426	\$0	\$0	\$300,305	\$12,809	\$133,486	\$368,760	\$49,510	\$0	\$0	\$14,541	\$0	\$290,384	\$153,667	\$33,549	\$0	\$0	\$3,415,601
John J. Flynn Elementary	\$121,768	\$20,281	\$43,294	\$239,635	\$45,290	\$0	\$0	\$344,279	\$29,489	\$0	\$266,116	\$38,901	\$451,424	\$29,808	\$16,183	\$15,001	\$99,411	\$1,302,362	\$0	\$0	\$3,063,240
Lyman C. Hunt	\$476,730	\$4,483,566	\$83,132	\$299,847	\$119,933	\$63,640	\$86,496	\$75,241	\$9,592	\$405,328	\$0	\$2,680	\$35,359	\$374,296	\$0	\$21,812	\$0	\$67,568	\$54,427	\$22,821	\$6,682,467
Property Services Building	\$154,172	\$9,970	\$2,228	\$1,993	\$188,073	\$0	\$0	\$1,520	\$0	\$0	\$23,250	\$15,696	\$0	\$0	\$20,273	\$3,965	\$0	\$0	\$22,832	\$9,206	\$453,177
SA - Lawrence Barnes Elementary	\$764,081	\$0	\$30,766	\$0	\$17,108	\$916	\$0	\$102,841	\$315,948	\$68,177	\$85,997	\$0	\$0	\$108,755	\$24,309	\$378,197	\$0	\$0	\$130,546	\$26,653	\$2,054,292
GrandTotal	\$12,416,878	\$5,625,792	\$13,598,237	\$2,160,869	\$1,387,787	\$3,686,490	\$2,197,612	\$2,131,283	\$2,951,805	\$1,939,635	\$1,178,533	\$363,980	\$1,559,082	\$1,368,966	\$1,201,117	\$2,599,421	\$1,123,265	\$3,234,076	\$1,269,234	\$1,515,602	\$63,509,663

#### 2. Introduction

#### 2.1 Scope of Assessment

The surveys included analysis and observation of each facility's interior and exterior, including the roofs. The evaluation teams interviewed building maintenance staff to inquire about the subject property's historical repairs and replacements, their costs, level of preventive maintenance exercised, pending repairs and improvements, and frequency of repairs and replacements. Opinions were developed based on the teams' site evaluations, interviews with relevant maintenance providers and facilities managers, and the teams' experience gained on similar previously evaluated properties. The evaluation teams interviewed those with knowledge of the subject property's physical condition and operation, or knowledge of similar systems, to gain comparative information to use in evaluation of the subject property. The evaluation teams reviewed documents and information provided by the staff to gain knowledge of the subject property's physical improvements, extent and type of use, and/or to assist in identifying material discrepancies between reported information and observed conditions.

The evaluation teams made visual assessments for compliance with ADA Accessibility Guidelines. Items determined to be out of compliance are included in the repair and renovation costs. Detailed measurements were not taken to determine compliance under the regulations.

The data collected in the assessment is the basis of the twenty year lifecycle horizon facility condition projection for capital needs. The goals of the analysis are:

- Benchmark present facility conditions with recommended corrections for deficiencies to establish the "immediate repair needs".
- Estimate life expectancy of various building systems and components to establish the "capital reserve needs" for infrastructure lifecycle replacement/repair for the twenty-year assessment period of 2016 to 2035.
- Provide cost estimates for corrections for "immediate repairs" and cost projections for "capital reserve needs" for lifecycle component replacement within the twenty-year projection timeframe.

The FCA will be a guide for future replacement, repairs, and improvements, and to assist the Burlington School District in prioritizing its capital budget and expenditures across its district portfolio. The Level 1 Energy Audit will be a stepping off point for future energy savings programs.

#### 2.2 Property Condition Summary

The below chart projects twenty years into the future, identifying the repair needs based on the current conditions observed, and the estimated remaining useful life for the various building systems and materials.

20-Year Cost Summary

Location	Building Area (SF)	Total 2016-2035
Burlington High School	236,000	\$31,590,186
Champlain Elementary	51,140	\$3,076,293
Charles P. Smith Elementary	41,048	\$1,140,457
Edmunds Middle & Elementary School	151,156	\$8,863,279
IAA - H.O. Wheeler Elementary	39,080	\$3,170,671
IRA	16,860	\$3,415,601
John J. Flynn Elementary	52,688	\$3,063,240
Lyman C. Hunt	77,633	\$6,682,467
Property Services Building	12,244	\$453,177
SA - Lawrence Barnes Elementary	31,406	\$2,054,292
Total for Burlington School District	709,255	\$63,509,663

#### 2.3 Level 1 Energy Audit Summary

The major area of low cost energy savings for most of the District buildings evaluated is in reduction of water use by installing low flow aerators and shower heads along with low flow toilet fixtures. EMG recommends that all fixture upgrades be low flow units.

At the High School, addition of Variable Frequency Drives and high efficiency motors for the larger HVAC components will have a favorable payback.

At Wheeler Elementary, replacement of the defective steam traps is expected to provide immediate energy savings. The eventual replacement of the steam system with a hot water system is recommended for long term energy savings.

The implementation of demand control ventilation for major air handling systems is projected to yield a favorable payback.

Most of the refrigeration equipment uses more energy than the current best technology. When refrigeration equipment requires replacement, the installation of the highest efficiency components is recommended for long term energy savings.

The installation of the most efficient furnaces and boilers is recommended as equipment ages out of service.

## 3. Cost Analysis Charts

The cost data that has been produced from the surveys has been entered into the AssetCALC database software. The software can manipulate the data and produce charts and graphs to provide analyses of the costs in terms of type of work and the anticipated year the work will be required.

### Cost Summary by Uniformat

A. Substructure	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Total
Foundations			-	-	-	-	-	-	-	-			-			-	-				\$0
Basement Construction			-	-	-	-	-	-	-	-			-			-	-				\$0
B. Shell	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Total
Superstructure	\$97,880	\$57,846 -		\$219,300	\$12,200 -	-	-	-	-	-			-			-	-				\$387,226
Exterior Enclosure	\$4,460,424	\$35,616	\$341,350	\$15,630	\$119,880 -		\$1,117,552	\$2,904 -	-		\$36,840	\$11,616 -		\$3,630	\$65,300 -		\$13,552	\$2,904	-	\$76,500	\$6,303,697
Roofing	\$79,099	\$14,725	\$71,685	\$172,528	\$343,452 -	-	-		\$336,640	\$441,204 -				\$215,055	\$6,213	\$273,520 -		\$602,796	\$75,744	\$211,650	\$2,844,311
C. Interiors	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Total
Interior Construction	\$785,569	\$241,250	\$573,443 -		\$139,465 -	-	-	-	-	-			-			-	-				\$1,739,727
Stairs			-	-	-	-	-	-	-	-			-			-	-				\$0
Interior Finishes	\$17,282	-	\$1,213,855	\$13,683	\$74,801	\$2,114,967	\$39,440	\$1,023,750	\$619,750	\$231,955	\$476,100	\$28,880	\$73,350	\$341,980	\$38,031	\$538,512 -		\$455,455	\$476,100 -		\$7,777,893
D. Services	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Total
Conveying	\$108,794		-	-	-	-		\$171,910 -		\$18,975 -		_	\$334,476 -			-	-				\$634,155
Plumbing	\$807,182	\$322,714 -		\$228,830 -	-	-		\$23,685	\$1,844	\$86,568	\$14,680	\$1,844	\$31,943	\$21,528	\$27,174	\$36,385 -	-		\$20,830 -		\$1,625,206
HVAC	\$2,469,629	\$464,402	\$1,832,276	\$399,668	\$349,970	\$690,371	\$197,329 -		\$1,189,127	\$562,494	\$149,176	\$80,957	\$477,033	\$309,411	\$287,029	\$621,131	\$496,019	\$455,187	\$138,138	5511,592	\$11,680,939
Fire Protection	\$82,968	-	\$1,453,538 -	-	-	-	-		\$105,375 -	-			-	-	\$4,447	\$23,909 -	-				\$1,670,236
Electrical	\$11,790	\$4,109,791	\$7,105,950	\$839,291 -		\$222,655	\$151,900	\$20,298 -		\$60,893	\$93,780				\$278,285	\$8,660 -		\$40,595	\$9,488 -		\$12,993,970
E. Equipment & Furnishings	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Total
Equipment	\$124,465	\$94,650	\$124,500 -		\$45,553 -		\$139,284	\$191,451	\$52,206	\$31,480	\$52,206	\$94,650	\$176,706 -	-	\$42,600	\$154,465	\$94,650	\$124,500	-	\$26,585	\$1,569,951
Furnishings	\$18,599		<u>-</u>		\$7,710 -	-	-	_	_							_	_				\$26,309
F. Special Construction & Demolition	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Total
Special Construction	-		-	-	-	-	-	-	-	-			-			-	-				\$0
Selective Building Demolition		<u> </u>		-	-	-	-	_	_							_					\$0
G. Building Sitework	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Total
Site Preparation			-	-	-	-	-	-	-	-			-		-	-	-				\$0
Roadways	\$241,056		-	-	-	-	-	-	-	-			-			-	-				\$241,056
Parking Lots	\$831,713			\$88,571 -		\$7,148	\$194,960	\$213,560	\$25,241	\$38,000	\$49,417		-		-	\$7,148	\$95,760	\$275,232	\$25,241	\$38,000	\$1,889,990
Pedestrian Paving	\$71,646	-	\$34,685 -	-		\$4,740 -	-	-	-		\$4,740 -		-		-	\$4,740 -	-				\$120,551
Pedestrian Paving	\$71,646	-	\$34,685 -	-		\$4,740 -	-	-	-		\$4,740 -		-		-	\$4,740 -	-				\$120,551
Site Development	-	\$30,000	\$66,360 -	-	-	-		\$85,370 -		\$15,000 -		\$45,000 -	-	-	\$45,000 -	-	-				\$286,730
Landscaping	\$34,332		-		\$140,000 -	-	-	-	-	-			-			-	-				\$174,332
Site Mechanical Utilities	\$66,179	\$19,690 -	-	-		\$140,119 -	-	-	-	-			-			-	-				\$225,987
Site Electrical Utilities	-		-	-	-	-	-	-	-	-			-			-	-				\$0
TOTAL	\$10,380,251	\$5,390,684	\$12,852,327	\$1,977,501	\$1,233,031	\$3,184,739	\$1,840,466	\$1,732,928	\$2,330,182	\$1,486,569	\$881,679	\$262,947	\$1,093,509	\$932,199	\$794,080	\$1,673,210	\$699,981	\$1,956,669	\$745,541	864,326	\$52,312,819

## 20-Year Capital Reserve Summary Table

Property	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Total Escalated Estimate
Burlington High School	\$9,021,863	\$697,530	\$10,992,745	\$271,112	\$351,378	\$1,975,681	\$1,401,817	\$1,642	\$1,632,700	\$670,711	\$363,350	\$124,686	\$489,091	\$0	\$529,844	\$852,668	\$760,743	\$510,359	\$522,827	\$419,438	\$31,590,186
Champlain Elementary	\$370,003	\$80,424	\$354,246	\$0	\$161,826	\$249,711	\$15,105	\$13,158	\$430,401	\$10,438	\$262,490	\$100,565	\$0	\$252,731	\$41,681	\$50,316	\$68,441	\$280,534	\$303,033	\$31,191	\$3,076,293
Charles P. Smith Elementary	\$420	\$110,210	\$0	\$96,784	\$38,899	\$0	\$14,329	\$30,776	\$7,514	\$53,624	\$0	\$16,611	\$465,673	\$109,012	\$79,659	\$0	\$19,256	\$69,487	\$28,202	\$0	\$1,140,457
Edmunds Middle & Elementary School	\$247,797	\$179,036	\$1,663,478	\$127,618	\$404,684	\$1,369,669	\$320,871	\$1,401,074	\$392,676	\$185,386	\$0	\$0	\$71,912	\$469,167	\$420,931	\$708,860	\$0	\$602,615	\$207,367	\$90,140	\$8,863,279
IAA - H.O. Wheeler Elementary	\$150,414	\$44,774	\$406,815	\$196,455	\$60,597	\$26,874	\$58,690	\$147,943	\$0	\$177,210	\$127,820	\$64,842	\$45,624	\$10,656	\$68,236	\$278,220	\$21,747	\$367,602	\$0	\$916,152	\$3,170,671
IRA	\$1,109,631	\$0	\$21,534	\$927,426	\$0	\$0	\$300,305	\$12,809	\$133,486	\$368,760	\$49,510	\$0	\$0	\$14,541	\$0	\$290,384	\$153,667	\$33,549	\$0	\$0	\$3,415,601
John J. Flynn Elementary	\$121,768	\$20,281	\$43,294	\$239,635	\$45,290	\$0	\$0	\$344,279	\$29,489	\$0	\$266,116	\$38,901	\$451,424	\$29,808	\$16,183	\$15,001	\$99,411	\$1,302,362	\$0	\$0	\$3,063,240
Lyman C. Hunt	\$476,730	\$4,483,566	\$83,132	\$299,847	\$119,933	\$63,640	\$86,496	\$75,241	\$9,592	\$405,328	\$0	\$2,680	\$35,359	\$374,296	\$0	\$21,812	\$0	\$67,568	\$54,427	\$22,821	\$6,682,467
Property Services Building	\$154,172	\$9,970	\$2,228	\$1,993	\$188,073	\$0	\$0	\$1,520	\$0	\$0	\$23,250	\$15,696	\$0	\$0	\$20,273	\$3,965	\$0	\$0	\$22,832	\$9,206	\$453,177
SA - Lawrence Barnes Elementary	\$764,081	\$0	\$30,766	\$0	\$17,108	\$916	\$0	\$102,841	\$315,948	\$68,177	\$85,997	\$0	\$0	\$108,755	\$24,309	\$378,197	\$0	\$0	\$130,546	\$26,653	\$2,054,292
GrandTotal	\$12,416,878	\$5,625,792	\$13,598,237	\$2,160,869	\$1,387,787	\$3,686,490	\$2,197,612	\$2,131,283	\$2,951,805	\$1,939,635	\$1,178,533	\$363,980	\$1,559,082	\$1,368,966	\$1,201,117	\$2,599,421	\$1,123,265	\$3,234,076	\$1,269,234	\$1,515,602	\$63,509,663

# **Appendix A: 20-Year Capital Reserve Tables by Property**

Burlington High School

Burlington High School																								
3/23/2016																								
Report Section Location Description Cost		EAge RUL Quantit		Subtotal	2016	2017	2018 20	019 2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Deficiency Repair Estimate
3.1 Building A through F C1021 Fire Doors,		20 0	1 EA \$241,812.0	0 \$241,812	\$241,812																			\$241,812
3.2 Interiors and Connections Budgetary Allowa	llaneous (Lump Sum nce), Upgrade 0 Ilaneous (Lump Sum	0 0	1 EA \$1,951,938.0	0 \$1,951,938	\$1,951,938																			\$1,951,938
3.2 Parking and Site Grounds Budgetary Allowa		0 0	1 EA \$50,000.0	0 \$50,000	\$50,000																			\$50,000
5.2 Courtyard connecting paths quantities		0 0 100	0 LF \$2.0	9 \$2,090	\$2,090																			\$2,090
5.2 sidewalk Replace	yement, Parking Lot, Seal	30 0 320	0 SF \$19.8	2 \$63,424	\$63,424																			\$63,424
5.2 Parking lots & Stripe	vement, Parking Lot, Mill	1 9 10000	0 SF \$0.3	8 \$38,000									\$38,000										\$38,000	\$76,000
5.2 Student parking lots & Overlay G2052 Landscapir	25	25 0 4500	0 SF \$3.2	8 \$147,600	\$147,600																			\$147,600
5.4 Courtyards and entrances Regrade/Establish		21 4 5000	0 SF \$2.8	0 \$140,000				\$140,00	0															\$140,000
6.3 Flat Roof Replace		11 9 1650	0 SF \$10.5	2 \$173,580									\$173,580											\$173,580
6.4 Building A through F Repoint	25 er, Exterior, 3+ Stories,	19 6 10000	0 SF \$11.0	4 \$1,104,000						\$1,104,00	0													\$1,104,000
6.4 F building - north elevation Repair	0 Siding, Exterior, 1-2	0 0 50	0 SF \$53.2	8 \$26,640	\$26,640																			\$26,640
6.4 Building exterior Stories, Replace	40	26 14 1000	0 SF \$6.5	3 \$65,300														\$65,300						\$65,300
6.6 Windows B2011 Lintel, Stee	exterior Stairs, Replace 50 I, Up to 8', Replace 40 Windows without Door(s),		0 SF \$61.0 0 EA \$4,105.0	0 \$12,200 0 \$821,000	\$821,000			\$12,20	0															\$12,200 \$821,000
6.6 Building A through F Metal-Framed, Re	· "	30 0 5820	0 SF \$48.0	0 \$2,793,600	\$2,793,600																			\$2,793,600
6.6 Building A through F Connector Corridors Metal-Framed, Re B2023 Storefront	place 30 Windows with Door(s),	30 0 1200	0 SF \$48.0	0 \$576,000	\$576,000																			\$576,000
6.6 Building A through F Entrances Metal-Framed, Re B2032 Steel, Insul	place 30 ated, Exterior Door,	30 0 250	0 SF \$55.0	0 \$137,500	\$137,500																			\$137,500
6.6 Exterior entrances Replace B2034 Steel, Roll-	25 up Door, Automatic, 400	25 0 2	5 EA \$1,098.0	0 \$27,450	\$27,450																			\$27,450
6.6 Loading docks and industrial arts shop doors SF, Replace	35		0 EA \$7,650.0																				\$76,500	
			1 EA \$1,536.0 0 EA \$950.0																					\$32,257 \$95,000
6.8 Common corridors (Per LF)	20		0 LF \$416.5		\$416,500																			\$416,500
	restroom finishes 15 Masonry, Interior Wall,		0 SF \$120.0										\$180,000											\$180,000
6.8 Common corridors/Classrooms Prep & Paint		6 2 30000	·				\$267,000							\$267,000								\$267,000		\$801,000
Corridors, Classrooms, Offices and Common C3024 Vinyl Tile F									\$66,240										\$66,240	)				\$132,480
6.8 Areas Abatement, Repla Hallways/Corridors, Classrooms, Offices and	ce 15	10 5 20000	0 SF \$8.1	9 \$1,638,000					\$1,638,000	10														\$1,638,000
6.8 Common Areas C3024 Plywood Fl	pooring, Replace 20	12 8 10000	0 SF \$3.3	5 \$335,000								\$335,000												\$335,000
6.8 Gymnasium C3024 Wood Parc	uetry Flooring, Replace 30	28 2 1000	0 SF \$28.2	3 \$282,300			\$282,300																	\$282,300
6.8 Building Stairwells C3024 Vinyl Sheet 6.8 Common corridors/Classrooms C3032 Acoustical	- ·	13 2 2430 9 11 25	0 SF \$10.0 0 SF \$3.1	1 \$243,243 1 \$778			\$243,243								\$778						\$243,243			\$486,486 \$778
	oler w/ Desuperheater,	45 0	254 4452:2-	4 600 655	¢00 50=														ć00 cc -					****
6.8 Commercial Kitchen Commercial, Walk 6.8 Home economics classroom E1093 Range/Ove	· · ·		2 EA \$45,346.7 5 EA \$5,240.0		\$90,693 \$26,200														\$90,693 \$26,200					\$181,387 \$52,400
6.8 Commericial and culinary arts kitchens Kitchen (Allowand	e Equipment, Commercial e), Replace 5 itchen Exhaust Hood w/	4 1	2 EA \$35,000.0	0 \$70,000		\$70,000				\$70,00	0				\$70,000					\$70,000				\$280,000
6.8 Commercial and Culinary Arts kitchens Makeup Air Unit	20	5 15	2 EA \$15,000.0	0 \$30,000															\$30,000	)				\$30,000
	r, Residential, Replace 10	6 4	5 EA \$880.0	0 \$4,400				\$4,40	0									\$4,400						\$8,800
6.8 Home economics classrooms Replace		11 4	5 EA \$676.9	0 \$3,385				\$3,38	5														\$3,385	\$6,769
6.8 Home economics classroom w/new sink and fa	kitchen countertop 10.5 ' ucet 25 pinet. Base and Wall	21 4	5 Each \$1,542.0	0 \$7,710				\$7,71	0															\$7,710
6.8 Home economics classroom Section, Wood, Re		20 0 5	0 LF \$371.9	8 \$18,599	\$18,599																			\$18,599
	ngs, Steel, 3", Replace 30 Pump, 2 HP, Replace 15		0 LF \$45.4 9 EA \$5,945.4			\$127,232							\$53,509											\$127,232 \$53,509
7.1 Building H MBH, Replace		22 8	1 EA \$953,868.5	7 \$953,869								\$953,869												\$953,869
D3021 Boiler, Gas 7.1 Building G Replace	, 4,201 to 10,000 MBH, 25	23 2	3 EA \$332,867.5	0 \$998,603			\$998,603																	\$998,603

	D3022 Expansion Tank, 31 to 60 GAL,														
7.1 Building A through F	Replace D3022 Expansion Tank, 176 to 250 GAL,	25	23 2	2 6 EA	\$2,483.48	\$14,901		\$14,901							\$14,90
7.1 Building G	Replace D3031 Chiller, Air-Cooled, 41 to 50 Ton,	25	25 (	0 2 EA	\$4,696.79	\$9,394	\$9,394								\$9,3
7.1 Roof	Replace	25	10 15	5 1 EA	\$78,186.30	\$78,186							\$78,186		\$78,1
7.1 Roof	D3031 Chiller, Air-Cooled, 21 to 30 Ton, Replace	25	10 15	5 1 EA	\$54,093.38	\$54,093							\$54,093		\$54,0
7.1 Roof	D3032 Condensing Unit/Heat Pump, Split System, 2.5 Ton, Replace	15	12	3 7 EA	\$3,366.36	\$23,565		\$23,56	i					\$23,565	\$47,1
7.1 Roof	D3032 Condensing Unit/Heat Pump, Split System, 2.5 Ton, Replace	15	5 10	0 1 EA	\$3,366.36	\$3,366					\$3,366				\$3,3
7.1 Roof	D3032 Ductless Split System, Single Zone, 2.5 to 3 Ton, Replace		15 (		\$6,577.13		\$13,154				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		\$13,154		\$26,3
	D3041 Fan Coil Unit, Hydronic, 4,001 to														
7.1 Lobby, connectors	12,000 CFM, Replace	15	15 (	0 7 EA	\$23,034.63	\$161,242	\$161,242						\$161,242		\$322,4
7.1 Administration	D3041 Fan Coil Unit, 2 to 2.5 Ton, Replace D3041 Make-Up Air Unit, 6,001 to 12,000	15	4 1	1 7 EA	\$2,756.89	\$19,298					\$1	9,298			\$19,29
7.1 Roof	CFM, Replace D3041 Unit Ventilator, 1,251 to 1,500 CFM	20	16	4 2 EA	\$44,658.41	\$89,317			\$89,317						\$89,33
7.1 Buildings A,B,C,D,and part of E	(approx. 4 Ton), Replace	15	14	1 40 EA	\$9,974.25	\$398,970	\$398,970						\$398,970		\$797,94
7.1 Nursing, Early Child Development	D3041 Fan Coil Unit, 2 to 2.5 Ton, Replace	15	12	3 6 EA	\$2,756.89	\$16,541		\$16,54	ļ					\$16,541	\$33,08
7.1 Industrial arts workshops	D3041 Air Handler, Interior, 15,001 to 20,000 CFM, Replace	30	11 19	9 3 EA	\$25,200.00	\$75,600								\$75,600	\$75,60
7.1 Roof	D3042 Exhaust Fan, Centrifugal, 801 to 2,000 CFM, Replace	15	11 4	4 12 EA	\$2,664.18				\$31,970					\$31,970	\$63,94
7.1 Roof	D3042 Exhaust Fan, Centrifugal, 8,001 to								4-2-7		¢46.116			**-/*-	
	10,000 CFM, Replace D3042 Exhaust Fan, Centrifugal, 3,501 to	15		9 6 EA	\$7,685.96						\$46,116				\$46,11
7.1 Industrial Arts 7.1 A Building	5,000 CFM, Replace D3043 Replace Heat Exchanger	15 20	11 4 5 15		\$4,322.55 \$5,100.00	\$8,645 \$5,100			\$8,645				\$5,100	\$8,645	\$17,29 \$5,10
7.1 C Building	D3043 Replace Heat Exchanger	20	1 19	9 1 EA	\$5,100.00	\$5,100								\$5,100	\$5,10
'.1 D Building	D3043 Replace Heat Exchanger D3044 Replace water source unit heaters	20	4 16	6 1 EA	\$5,100.00	\$5,100							\$5,100		\$5,10
7.1 Industrial arts workshops	with fan 43.9 MBH D3044 Circulation Pump, Heating Water, 30	30	16 14	4 50 EA	\$4,764.00	\$238,200						\$2	38,200		\$238,20
7.1 Building G	to 75 HP, Replace	20	6 14	4 2 EA	\$17,713.00	\$35,426						\$3	35,426		\$35,42
7.1 Entrance Lobby	D3052 Package Unit, 16 to 20 Ton, Replace	15	13 2	2 1 EA	\$36,777.37	\$36,777		\$36,777						\$36,777	\$73,55
7.1 Roof	D3052 Air Handling Unit, Exterior, 3.5 to 5 Ton, Replace	15	6 9	9 2 EA	\$11,419.83	\$22,840					\$22,840				\$22,84
7.1 Building A through F	D3068 Building Automation System (HVAC Controls), Upgrade	20	20 (	0 232566 SF	\$5.36	\$1,246,554	51,246,554								\$1,246,55
7.1 Jewelry Shop	E1027 Laboratory Exhaust Hood, Variable Volume, 4 LF, Replace	25	21 4	4 2 EA	\$7,284.16	\$14,568			\$14,568						\$14,56
7.2 Bathrooms	D2011 Toilet, Tankless (Water Closet), Replace	20	19 1	1 25 EA	\$842.97	\$21,074	\$21,074								\$21,07
.2 Restrooms	D2012 Urinal, Vitreous China, Replace	20	19 1	1 25 EA 1 12 EA	\$1,193.44	\$14,321	\$14,321								\$14,32
7.2 Restrooms	D2013 Lavatory, Vitreous China, Replace D2014 Service Sink, Porcelain Enamel, Cast	20	19 :	1 25 EA	\$572.66	\$14,317	\$14,317								\$14,31
7.2 Janitor closets	Iron, Replace D2019 Emergency Eye Wash & Shower	20	19	1 8 EA	\$1,360.33	\$10,883	\$10,883								\$10,88
7.2 Building E	Station, Replace	15	15 (	0 4 EA	\$2,114.70	\$8,459	\$8,459						\$8,459		\$16,91
7.2 F building	D2023 Water Heater, Electric, Commercial, 30 to 80 GAL, Replace	15	15 (	0 1 EA	\$6,963.24	\$6,963	\$6,963						\$6,963		\$13,92
7.2 C Building	D2023 Water Heater, Electric, Residential, 30 to 52 GAL, Replace	15	8	7 1 EA	\$1,335.00	\$1,335				\$1,335					\$1,33
7.2 E building	D2023 Water Heater, Electric, Commercial, 30 to 80 GAL, Replace		1 14		\$6,963.24	\$6,963				•			\$6,963		\$6,96
7.2 D building	D2023 Water Heater, Electric, Commercial, 30 to 80 GAL, Replace		15 (		\$6,963.24	\$6,963	\$6,963					•	\$6,963		\$13,92
	D2023 Water Storage Tank, 80 to 150 GAL,				\$2,140.56	\$8,562	20,503					\$8,562	Ç0,303		\$13,52
7.2 Building A and B	Replace D2023 Domestic Boiler, Gas, 260 to 500		8 12				,					\$6,5bZ			
7.2 Kitchen	MBH, Replace		21 1		\$20,417.07	\$20,417	\$20,417								\$20,41
7.2 Waste and vent piping	D2031 Pipe & Fittings, Cast Iron, 3", Replace	50	47 3	3 5000 LF	\$41.60	\$208,000		\$208,000	)						\$208,00
7.2 Building A and B	D3021 Boiler, Gas, 126 to 250 MBH, Replace	25	8 17	7 2 EA	\$14,377.52	\$28,755								\$28,755	\$28,75
7.4 Building A to H	D5019 Electrical System, School, Upgrade D1011 Elevator, Hydraulic, 3000 to 4000 LB,	40	38 2	2 232566 SF	\$27.25	\$6,337,424		\$6,337,424							\$6,337,42
7.5 All buildings	3 Floors, Renovate Z1020 ADA, Elevator/Lift, Wheelchair Lift,	30	18 12	2 4 EA	\$83,619.00	\$334,476						\$334,476			\$334,4
															\$47,70
7.5 F Building and B Building Library	Up to 8', Install	0	0 (	0 2 EA	\$23,850.00	\$47,700	\$47,700								Ş47,7C
7.5 F Building and B Building Library 7.6 Building A through F	Up to 8', Install D4019 Sprinkler System, Full Retrofit, School (per SF), Renovate D5037 Fire Alarm System, School,			0 2 EA 2 232566 SF		\$47,700	\$47,700	\$1,453,538							\$1,453,53

7.6 Building F Dust Collection System Upgrade/Install Totals, Unescalated

Totals, Escalated (3.0% inflation, compounded annually)

Location Factor (1.00)

D5037 Fire Alarm System, School,

20 20 0 1000 SF \$3.13 \$3,130 \$3,130

\$3,130

\$28,233,798

\$31,590,186

Ly	man	C.	Hunt	Middle	School	

Lyman C. Hui	t Middle School																													
3/23/2016 Report Secti	on Location Description	Cost Description	Lifespan (EUL) E	Age RUL	. Quantity Unit	Unit Cost	Subtotal	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	5 2027	2028	202	.9 20	30 2	031	2032 2	033 2	2034	2035	Deficiency Repair Es	stimate
		Z1060 ADA, Parking, Designated Stall with				*	*	*																						
	3.2 Parking lot	Pavement Markings & Signage (Van), Install Z1060 ADA, Parking, Access Aisle Striping,	0	0 (	) 1 EA	\$420.00	\$420	\$420																						\$420
	3.2 Crosswalk to entrance	Install	0	0 0	) 15 LF	\$7.25	\$109	\$109																						\$109
		Z1060 ADA, Parking, Designated Stall with																												
	3.2 Parking lot	Pavement Markings & Signage, Install Z1090 ADA, Site, Walkways, Curb Cut Ramp,	0	0 (	) 7 EA	\$375.00	\$2,625	\$2,625																						\$2,625
	3.2 Main entrance	Install G2012 Curb & Gutter, Concrete, 24" by 6"	0	0 0	1 EA	\$1,900.00	\$1,900	\$1,900																						\$1,900
	5.2 Entrance Drives	straight (per LF), Replace		25 (		\$40.08																							\$	\$120,240
	5.2 Entrance Pavement	G2012 Curb & Gutter, Concrete, Repair G2022 Asphalt Pavement, Parking Lot, Mill	0	0 (	) 300 LF	\$24.02	\$7,206	\$7,206																						\$7,206
	5.2 Parking Area and Drive Lanes	& Overlay G2022 Asphalt Pavement, Parking Lot, Seal	25	25 (	76000 SF	\$3.28	\$249,280	\$249,280																					5	\$249,280
	5.2 Parking Area and Drive Lanes	& Stripe	10	3 7	7 76000 SF	\$0.38	\$28,880								\$28,880	)									\$2	8,880				\$57,760
	5.2 Entrance Drive and Main Entrance	G2031 Concrete Sidewalk, Replace	30	30 0		\$19.82		\$65,406																						\$65,406
	5.3 Left and rear of building	D2033 Trench Drain, 12", Replace G2041 Chain Link Fence, 3' to 4' High (per	30	30 (		\$171.74		\$8,587																						\$8,587
	5.5 Perimeter	LF), Replace x B3011 Single-Ply TPO/PVC Membrane Roof,	30	28 2	2 3000 LF	\$22.12	\$66,360			\$66,360																				\$66,360
	6.3 D wing	Replace C1033 Locker, Steel, Baked Enamel, Single	20	7 13	3 13500 SF	\$15.93	\$215,055														\$215	,055							Ş	\$215,055
	6.8 Building	to 5 Tier, 12" W x 15" D x 72" H, Replace (Per LF) C3012 Concrete/Masonry, Interior Wall,	20	19 1	1 500 LF	\$482.50	\$241,250		\$241,250	)																			Ş	\$241,250
	6.8 Entire building	Prep & Paint	8	3 5	34000 SF	\$0.89	\$30,260						\$30,260								\$30	,260								\$60,520
	6.8 Common areas and classrooms 6.8 Common areas and classrooms	C3024 Vinyl Tile Flooring, Replace C3032 Acoustical Tile Ceiling, Replace	15 20	6 9 17 3		\$4.80 \$3.11					\$622						\$14,40	00												\$14,400 \$622
	o.o Common areas and classicoms	C3032 Acoustical Tile Celling, Neplace	20	1/ 3	200 31	۶۶.11	3022				J022																			3022
	6.8 Commercial kitchen	E1093 Food Service Equipment, Commercial Kitchen (Allowance), Replace	5	3 2	2 1 EA	\$12,000.00	\$12,000			\$12,000					\$12,000	)				\$12,0	00				\$1	2,000				\$48,000
		E1093 Freezer/Cooler, Commercial, Walk-								7-2,000										¥ ==, =					•	_,				
	6.8 Kitchen	In, Replace E1093 Kitchen Exhaust Hood, Commercial,	15	9 6	5 2 EA	\$22,317.14	\$44,634							\$44,634																\$44,634
6.8, 7.6	Kitchen	Replace	15	7 8	3 1 EA	\$7,571.72	\$7,572									\$7,572	!													\$7,572
	7.1 Boiler Room	D3021 Boiler, Gas, 2,501 to 4,200 MBH, Replace	25	22 3	3 2 EA	\$120,905.15	\$241,810				\$241,810																		5	\$241,810
	7.1 Boiler room / Gymnasium	D3041 Air Handler, Interior, 8,001 to 10,000 CFM, Replace		26 4	4 3 EA	\$31,181.53	\$93,545					\$93,545																		\$93,545
	7.1 Bollet 1001117 Gyllillasiuili	D3041 Unit Ventilator, 751 to 1,250 CFM	30	20 -	+ 3 LA	331,161.33	<del>333,343</del>					223,343	,																	333,343
	7.1 Classrooms - Heating Only	(approx. 3 Ton), Replace D3042 Exhaust Fan, Centrifugal, 8,001 to	15	6 9	9 30 EA	\$9,050.00	\$271,500										\$271,50	00											Ş	\$271,500
	7.1 Site	10,000 CFM, Replace	15	11 4	1 EA	\$7,685.96	\$7,686					\$7,686	5															\$7,686		\$15,372
	7.1 Building Interior General	D3042 Exhaust Fan, Centrifugal, 801 to 2,000 CFM, Replace	15	11 4	4 2 EA	\$2,664.18	\$5,328					\$5,328	3															\$5,328		\$10,657
	-	D3042 Exhaust Fan, Centrifugal, 801 to										. ,																		
	7.1 Roof	2,000 CFM, Replace D3044 Circulation Pump, Heating Water, 20		12 3	3 12 EA	\$2,664.18	\$31,970				\$31,970															Ş.	31,970			\$63,940
	7.1 Boiler room	to 25 HP, Replace	20	11 9	9 2 EA	\$12,375.00	\$24,750										\$24,75	50												\$24,750
	7.1 Building Interior General	D3051 Unit Heater, Hydronic, 13 to 36 MBH, Replace	20	7 13	3 EA	\$1,516.80	\$4,550														\$4	,550								\$4,550
		D3052 Air Handling Unit, Exterior, 11 to 15																												
	7.1 Rooftop 7.1 Rooftop	Ton, Replace D3052 Heat Pump, 2.5 to 3 Ton, Replace	15 15	9 6		\$27,804.57 \$5,012.00								\$27,805							\$5	,012								\$27,805 \$5,012
	7.1 Bootton	D20E2 Backage Unit 12 to 15 Tan Benjace	15	10 5	1.54	\$24.626.00	¢24.626						¢24.626																	\$24.626
	7.1 Rooftop	D3052 Package Unit, 13 to 15 Ton, Replace D2023 Water Heater, Electric, Commercial,	15	10 5	5 1 EA	\$24,636.00	\$24,636						\$24,636																	\$24,636
	7.2 D wing	30 to 80 GAL, Replace D2023 Water Heater, Gas, Commercial, 60	15	3 12	2 1 EA	\$12,800.00	\$12,800													\$12,8	00									\$12,800
	7.2 Boiler Room	to 120 GAL, Replace		15 (	1 EA	\$14,000.00	\$14,000	\$14,000															\$1	4,000						\$28,000
	7.2 Kitchen	P1000 Engineer, Plumbing, Domestic Water Supply System, Evaluate/Report	0	0 0	1 EA	\$6,957.50	\$6,958	\$6,958																						\$6,958
	7.4 Lyman C. Hunt	D5012 Building/Main Switchgear, 208 Y, 120 V, 1,200 Amp, Replace	30	29 1	1 1 EA	\$212,265.31	\$212.265		\$212,265	5																			•	\$212,265
	·																													
I	7.4 Building	D5019 Electrical System, School, Upgrade	40	39 1	1 77633 SF	\$49.78	\$3,864,571		\$3,864,571	L																			\$3	,864,571

7.4 Auditorium	D5029 Lighting System, Interior, School, Upgrade D5037 Fire Alarm Control Panel,	25	24	1 1500	SF \$2	97 \$32,	2,955	\$32,955																				\$32,	955
7.6 Electrical Room	Addressable, Replace B2011 Exterior Wall Paint, 1-2 Stories, Prep	15	8	7 1	EA \$20,29	'.59     \$20,	,298							\$20	,298													\$20,	,298
9 Storage shed	& Paint	10	9	1 800	SF \$	.42 \$1,	,936	\$1,936										\$1,9	36									\$3,	,872
Totals, Unescalated							\$	\$476,730 \$4,352,977	\$78,360	\$274,40	2 \$106,55	9 \$54,89	96 \$72,4	39 \$61	,178 \$7,	572 \$310	,650	\$0 \$1,9	36 \$24,	800 \$254,	877	\$0 \$14,000	0 \$0	\$40,88	0 \$31,9	970 \$13	3,014	\$6,177	241
Location Factor (1.00)								\$0 \$0	\$0	\$(	) \$	0 \$	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	0 \$0	\$	0	\$0	\$0		\$0
Totals, Escalated (3.0% inflation, compounded	d annually)						\$	\$476,730 \$4,483,566	\$83,132	\$299,84	7 \$119,93	3 \$63,64	10 \$86,4	96 \$75	,241 \$9,	592 \$405	,328	\$0 \$2,6	80 \$35,	359 \$374,	296	\$0 \$21,812	2 \$C	\$67,56	8 \$54,4	427 \$22	2,821	\$6,682	467

Replacement Reserves Report
Edmunds Middle & Elementary School

	e & Liementary School																											
2016 t Section	Location Description	Cost Description	Lifespan (EUL) E	Age RUL	Quantity Unit	Unit Cost	Subtotal	2016	2017	2018	2019	2020	2021	2022	2023	20	24	2025 2	026 2027	2028	2029	2030	2031	2032	2033	2034	2035	Deficiency Repair Estimate
3.2	2 Parking lot	Z1060 ADA, Parking, Designated Stall with Pavement Markings & Signage (Van), Install	0	0 0	1 EA	\$420.00	\$420	\$420																				\$4
	Building Attached	B1015 Concrete, Exterior Stairs, Replace	50	49 1	1000 SF	\$48.94	\$48,940		\$48,940																			\$48,9
5.2	2 Gymnasium - Fire Escape	B1015 Metal, Exterior Stairs, Replace	40	39 1	200 SF	\$44.53	\$8,906		\$8,906																			\$8,9
5.2	2 Parking and service drives	G2022 Asphalt Pavement, Parking Lot, Mill & Overlay	25	25 0	41500 SF	\$3.28	\$136,120	\$136,120																				\$136,1
5.2	2 Throughout Parking Areas	G2022 Asphalt Pavement, Parking Lot, Cut & Patch	25	19 6	20000 SF	\$4.96	\$99,200							\$99,200	)													\$99,2
5.2	2 All parking and service drives	G2022 Asphalt Pavement, Parking Lot, Seal & Stripe	10	2 8	66400 SF	\$0.38	\$25,232									\$2	5,232									\$25,232		\$50,
5.2	2 Site	G2031 Concrete Sidewalk, Replace	30	28 2		\$19.82				\$34,685																		\$34,6
	5 East side of property	G2047 Play Structure, Small, Replace B3011 Single-Ply EPDM Membrane Roof,	20	19 1		\$15,000.00			\$30,000																			\$30,
	3 Elementary School	Replace B3011 Single-Ply EPDM Membrane Roof,	20	3 17		\$10.52																		•	\$139,916			\$139,
6.3	3 Cafeteria building	Replace B3011 Single-Ply TPO/PVC Membrane Roof,	20	2 18	7200 SF	\$10.52	\$75,744																			\$75,744		\$75,
6.3	3 Gymnasium	Replace	20	16 4	11400 SF	\$15.93	\$181,602					\$181,602																\$181,
6.3	3 Middle School -snow guards	B3011 Metal Roof, Repair	0	-1 1	47500 SF	\$0.31	\$14,725		\$14,725																			\$14,
6.3	3 Middle School Attic	X1010 ECM, Attic Insulation Levels, Upgrade	0	-1 1	47500 SF	\$1.50	\$71,250		\$71,250																			\$71,2
	5 B and C Building Entrances	B1015 Concrete, Exterior Stairs, Replace	50	50 0		\$48.94	\$97,880																					\$97,8
6.6	6 Elementary School and Middle School	B2021 Wood Window, Repair B2021 Aluminum Window, Double Glazed,	0	0 0	56 EA	\$238.87	\$13,377	\$13,377																				\$13,3
6.6	6 Cafeteria Building	3+ Stories, 24 SF, Replace	30	28 2	100 EA	\$1,450.00	\$145,000			\$145,000																		\$145,0
6.6	6 Gymnasium	B2023 Storefront Windows without Door(s), Metal-Framed, Replace	30	27 3	250 SF	\$48.00	\$12,000				\$12,000	)																\$12,0
6.6	6 Building Connectors and Entrances	B2023 Storefront Windows with Door(s), Metal-Framed, Replace	30	28 2	1600 SF	\$55.00	\$88,000			\$88,000																		\$88,
		C1031 Ward Call Care of Cafety Class																										
6.6	6 Elementary School	C1021 Wood, Solid Core w/ Safety Glass, Painted/Stained, Interior Door, Replace	20	16 4	98 EA	\$1,423.11	\$139,465					\$139,465																\$139,4
		C1033 Locker, Steel, Baked Enamel, Single to 5 Tier, 12" W x 15" D x 72" H, Replace (Per																										
6.8	8 Elementary School and Middle School	LF)	20	18 2	1100 LF	\$482.50	\$530,750			\$530,750																		\$530,7
	9 Entire huilding	C3012 Concrete/Masonry, Interior Wall,	0	2 5	205650 55	¢1.45	¢209 102						¢209.103	,							\$298,193							¢E06
	8 Entire building 8 Building Stairwells	Prep & Paint C3024 Vinyl Sheet Flooring, Replace		3 5 13 2	205650 SF 14000 SF		\$298,193 \$140,140			\$140,140			\$298,193	3							\$298,193	5			\$140,140			\$596,3 \$280,2
	Hallways/Corridors, Classrooms, Offices a	- ·	45	0 7	425000.55	ć0.40	ć4 022 <b>7</b> 50								ć4 022 :	750												ć4 022
6.8	8 Common Areas Hallways/Corridors, Classrooms, Offices a	Abatement, Replace nd	15	8 7	125000 SF	\$8.19	\$1,023,750								\$1,023,	750												\$1,023,7
6.8	8 Common Areas	C3024 Plywood Flooring, Replace	20	12 8	85000 SF	\$3.35	\$284,750									\$28	4,750											\$284,
	8 Elementary School	C3024 Wood Strip Flooring, Sand & Refinish	10	5 5		\$3.68							\$66,240	)									\$66,240					\$132,
	8 1904 Building Stairwells 8 Hallways, classrooms	C3024 Vinyl Sheet Flooring, Replace C3032 Acoustical Tile Ceiling, Replace	15 20	13 2 5 15		\$10.01 \$3.11				\$36,036													\$388,750		\$36,036			\$72,i \$388,
	1 Mechanical Room	D2091 Air Compressor, 2 HP, Replace		11 9		\$6,611.73											:	\$33,059										\$33,
7.3	1 Boiler Room	D3021 Boiler, Gas, 4,201 to 10,000 MBH, Replace	25	20 5	2 EA	\$332,867.50	\$665,735						\$665,735	5														\$665,7
		D3022 Condensate Receiver Station, 15 GAL,											,					420 CC :										
7.1	1 Mechanical Room	Replace D3023 Heat Exchanger, Steam-to-Water, 76	25	16 9	4 EA	\$7,732.67	\$30,931										:	\$30,931										\$30,9
7.1	1 Elementary School - Building B	to 105 GPM, Replace D3041 Air Handler, Interior, 10,001 to	35	16 19	1 EA	\$12,916.17	\$12,916																				\$12,916	\$12,9
7.3	1 Mechanical Room	15,000 CFM, Replace	30	27 3	2 EA	\$41,979.17	\$83,958				\$83,958	3																\$83,9
7.3	1 All Buildings	D3041 Variable Air Volume (VAV) Unit, 100 to 400 CFM, Replace	15	9 6	38 EA	\$4,141.92	\$157,393							\$157,393	3													\$157,
7 -	1 Kitchen, Gym	D3042 Exhaust Fan, Propeller, 1,000 CFM, Replace	15	11 4	3 EA	\$1,402.69	\$4,208					\$4,208															\$4,208	\$8,
	1 Attic	D3042 Exhaust Fan, Centrifugal, 2,001 to 3,500 CFM, Replace		11 4		\$3,072.78						\$9,218															\$9,218	\$18,4
		D3042 Exhaust Fan, Centrifugal, 251 to 800										7,210		612.424													YJ,210	
7.1	1 Building Interior General	CFM, Replace D3042 Exhaust Fan, Roof Mounted, 1,001 to	15	9 6	6 EA	\$2,021.87	\$12,131							\$12,131	I													\$12,1
7.1	1 Roof	1,500 CFM, Replace D3044 Circulation Pump, Heating Water, 10	15	11 4	13 EA	\$1,927.94	\$25,063					\$25,063															\$25,063	\$50,1
7.3	1 Boiler room	HP, Replace D3051 Unit Heater, Hydronic, 37 to 85 MBH,	20	11 9	2 EA	\$11,175.00	\$22,350										:	\$22,350										\$22,3
7.3	1 Building Interior General	Replace	20	7 13	1 EA	\$1,900.28	\$1,900														\$1,900	)						\$1,9

Replacement Reserve Edmunds Middle & El																										THE AND THE STREET STRE
3/23/2016																										
Report Section	Location Description	Cost Description	Lifespan (EUL)	EAge	RUL Quantity U	nit Unit Cost	Subtotal	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026 2027	2028	2029	2030	2031	2032 203	2034	2035	<b>Deficiency Repair Estimate</b>
74.0 1	literatura de Comunit	D3051 Unit Heater, Hydronic, 101 to 160	20			ć2 450 S											627.466									ć27.4 <i>6</i> 0
7.1 Bulli	lding Interior General	MBH, Replace D3068 Building Automation System (HVAC	20	11	9 11 EA	\$2,469.66	\$27,166										\$27,166									\$27,166
7.1 Flon	mentary School, Gym and Cafeteria	Controls), Upgrade	20	18	2 101656 SF	\$5.36	\$544,876			\$544,876																\$544,876
7.1 Elen	mentary seriooi, sym and careteria	E1093 Kitchen Exhaust Hood, Commercial,	20	. 10	2 101030 31	<b>75.5</b> 0	, ,,,,,,,			7544,070																<del>,</del> 544,676
7.1 Kitcl	then	Replace	15	6	9 1 EA	\$7,571.72	\$7,572										\$7,572									\$7,572
7.1 Kitcl	hen	E1094 Ceiling Fan, Residential, Replace	15	6	9 2 EA	\$354.13	\$708										\$708									\$708
		G3011 Pipe & Fittings, Copper, 2",																								
7.1 Elen	mentary School	Replace/Install	40	35	5 1875 LF	\$74.73	\$140,119						\$140,119													\$140,119
		D2023 Water Heater, Electric, Commercial,																								
7.2 Med	chanical room	121 to 300 GAL, Replace	15	12	3 1 EA	\$10,415.00	\$10,415				\$10,415													\$10,41	.5	\$20,830
		D2023 Water Heater, Electric, Residential,				4													4							4
7.2 Med	chanical room	16 to 29 GAL, Replace	15	3	12 1 EA	\$1,937.53	\$1,938												\$1,938							\$1,938
7.2 Mag	chanical room	D2023 Water Heater, Electric, Commercial, 81 to 100 GAL, Replace	15	2	13 3 EA	\$6,462.33	\$19,387													\$19,387						\$19,387
7.2 IVIEC	Chanicarroom	D2023 Water Heater, Electric, Commercial,	13	, 2	15 5 L	30,402.33	\$15,507													\$15,367						\$15,367
7.2 Med	chanical room	121 to 300 GAL, Replace	15	12	3 1 EA	\$10,415.00	\$10,415				\$10,415													\$10,41	5	\$20,830
		D5012 Distribution Panel, 480 Y, 277 V, 400				¥ = 0, 1 = 0 10 1	77:				7-0,:													7/		7-2,533
7.4 Boile	ler Room	Amp, Replace	30	25	5 1 EA	\$11,202.02	\$11,202						\$11,202													\$11,202
		D5012 Distribution Panel, 208 Y, 120 V, 225																								
7.4 Build	lding Interior General	Amp, Replace	30	16	14 35 EA	\$7,951.00	\$278,285														\$278,285					\$278,285
		D5037 Fire Alarm Control Panel,																								
7.6 Med	chanical Room	Addressable, Replace	15	6	9 1 EA	\$20,297.59	\$20,298										\$20,298									\$20,298
		E1093 Food Service Equipment, Commercial																								
8.2 Com	nmercial kitchen	Kitchen (Allowance), Replace	5	3	2 1 EA	\$48,500.00	\$48,500			\$48,500					\$48,50	00			\$48,500				\$48,	500		\$194,000
		E1093 Freezer/Cooler, Commercial, Walk-In,																								
8.2 Kitcl	hen	Replace	15	8	7 3 EA	\$22,317.14	\$66,951								\$66,95	1										\$66,951
Totals, Unescalated								\$247,797	\$173,821	\$1,567,987	\$116,788	\$359,556	\$1,181,488	\$268,724	\$1,139,20	1 \$309,982	\$142,083		\$50,438	\$319,480	\$278,285	\$454,990	,	592 \$121,80	6 \$51,406	\$7,148,425
Location Factor (1.00)	•							\$0				\$0	\$0	\$0		50 \$0			\$0	\$0	\$0	\$0			0 \$0	
Totals, Escalated (3.09	% inflation, compounded annually)							\$247,797	\$179,036	\$1,663,478	\$127,618	\$404,684	\$1,369,669	\$320,871	\$1,401,07	4 \$392,676	\$185,386	\$0 \$0	\$71,912	\$469,167	\$420,931	\$708,860	\$0 \$602,	515 \$207,36	7 \$90,140	\$8,863,279

	Replacement	Reserves	Repor
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Champlain Elementary

Jiain Liementary																										
2016 rt Section	Location Description	Cost Description	Lifespan (EUL) E	Age RUL	Quantity Unit	: Unit Cost	Subtotal	2016	2017	2018 20	019 2020	2021	2022	2023	2024	2025	2026	2027	2028 2029	2030	2031	2032	2033	2034	2035	Deficiency Repair Estimate
		Z1060 ADA, Parking, Designated Stall with																								
3.2 Main	parking lot	Pavement Markings & Signage, Install	0	0 0	1 EA	\$375.00	\$375	\$375																		\$37
		Z1060 ADA, Parking, Designated Stall with																								
3.2 Front	Parking lot	Pavement Markings & Signage (Van), Install G2022 Asphalt Pavement, Parking Lot, Seal	0	0 0	1 EA	\$420.00	\$420	\$420																		\$42
5.2 Parkii	g lots	& Stripe	10	0 10	45 SF	\$0.38	\$17										\$17									\$1
5.2 Parkii	g lots, drive aisles	G2022 Asphalt Pavement, Parking Lot, Mill & Overlay		25 0	55000 SF	\$3.28	\$180,422	\$180 422																		\$180,42
5.2 Site v	<del>-</del>	G2031 Asphalt Sidewalk, Seal	5	5 0		\$0.79						\$3,950					\$3,950				\$3,950					\$15,80
5.2 Site w	alkways	G2031 Asphalt Sidewalk, Replace	25	25 0	2000 SF	\$0.75	\$1,500	\$1,500																		\$1,50
5.3 Side p	arking area	G2052 Drainage Swale, Concrete, Replace/Install	25	25 0	250 LF	\$40.81	\$10,203	\$10,203																		\$10,20
500 11		G3031 Pipe & Fittings, Cast Iron, 10",	=0		450.5	4400.40	400.055	400.055																		400.00
5.3 Buildi	ng to manhole	Replace/Install P1000 Engineer, Civil, Roadway & Driveway,	50	50 0	150 LF	\$188.43	\$28,265	\$28,265																		\$28,26
5.3 Parkii	g lot sewer line	Evaluate/Report	0	0 0	1 EA	\$6,325.00	\$6,325	\$6,325																		\$6,32
6.3 Prima	ry roofs	B3011 Single-Ply EPDM Membrane Roof, Replace	20	12 8	32000 SF	\$10.52	\$336,637								\$336,637											\$336,63
0.5 111110	1 10013	B2011 Brick Veneer, Exterior, 1-2 Stories,	20	12 0	32000 31	710.32	<b>7550,057</b>								7550,057											\$330,03
6.4 Boile	room exterior	Repair	0	0 0	175 SF	\$50.88	\$8,904	\$8,904																		\$8,90
6.8 Classi	oom windows	B2021 Aluminum Window, Double Glazed, 3+ Stories, 24 SF, Replace	30	26 4	2400 EA	\$49.95	\$119,880				\$119,880	)														\$119,88
		C3012 Concrete/Masonry, Interior Wall,																								
	ooms/Common Corridors ooms/common corridors	Prep & Paint C3024 Vinyl Tile Flooring, Replace	8 15	6 2 15 0			\$178,000	\$16,802		\$178,000							\$178,000				\$16,802			\$178,000		\$534,00 \$33,60
	ng interior	C3032 Acoustical Tile Ceiling, Replace	20	6 14			\$10,002													\$109						\$10
		E1093 Food Service Equipment, Commercial																								
6.8 Kitche	n	Kitchen (Allowance), Replace		4 1	1 EA	\$12,650.00	\$12,650		\$12,650	)			\$12,650	)				\$12,650				\$12,650				\$50,60
		E1093 Food Service Equipment, Commercial																								
6.8 Kitche	n	Kitchen (Allowance), Replace		1 4	1 EA	\$8,000.00	\$8,000				\$8,000	)				\$8,000				\$8,000					\$8,000	\$32,00
7.1 Buildi	ng Interior	D3022 Pipe & Fittings, Steel, 3", Replace	40	39 1	. 800 LF	\$44.29	\$35,432		\$35,432	!																\$35,43
		D3032 Condensing Unit/Heat Pump, Split																								
7.1 Roof		System, 2 Ton, Replace D3032 Condensing Unit/Heat Pump, Split	15	13 2	5 EA	\$3,122.18	\$15,611			\$15,611													\$15,611	-		\$31,22
7.1 Roof		System, 2 Ton, Replace	15	7 8	1 EA	\$3,122.18	\$3,122								\$3,122											\$3,12
7.1 Snlit o	ystems - classrooms	D3032 Condensing Unit/Heat Pump, Split System, 3.5 Ton, Replace	15	11 4	2 EA	\$4.894.00	\$9,788				\$9,788	2													\$9,788	\$19,57
7.1 Spire	ystems classicoms	D3041 Unit Ventilator, 1,501 to 2,000 CFM	13	11 7	2 270	Ş4,054.00	<i>\$3,766</i>				\$3,760	,													\$5,700	Ų13,3 <i>1</i>
7.1 Gymr	asium	(approx. 5 Ton), Replace	15	14 1	. 2 EA	\$15,000.00	\$30,000		\$30,000	)												\$30,000				\$60,00
7.1 Gymr	asium	D3042 Exhaust Fan, Centrifugal, 251 to 800 CFM, Replace	15	15 0	2 EA	\$2,021.87	\$4,044	\$4,044													\$4,044					\$8,08
		D3044 Replace water source unit heaters				4754.00	45.440				45.44															40.44
7.1 Comr	on areas/basement	with fan 43.9 MBH D3044 Circulation Pump, Heating Water, 7.5	30	26 4	8 EA	\$764.00	\$6,112				\$6,112	2														\$6,11
7.1 Boile	Room	HP, Replace		3 17	2 EA	\$6,037.49	\$12,075																\$12,075	i		\$12,07
7.1 Buildi	ng Interior General	D3051 Unit Heater, Electric, 3 to 6 kW, Replace	20	3 17	1 EA	\$1 741 57	\$1,742																\$1,742	1		\$1,74
712 Buildi	ig interior deficial	D3052 Air Handling Unit, Exterior, 21 to 25																					Ψ±), .Σ			
7.1 Gym	ir Handling Unit	Ton, Replace D3052 Air Handling Unit, Exterior, 26 to 40	15	2 13	1 EA	\$151,800.00	\$151,800												\$151,80	00						\$151,80
7.1 RTU -	2nd floor classrooms (VFD Addition)	Ton, Replace	15	0 15	1 EA	\$7,500.00	\$7,500														\$7,500					\$7,50
	Library and Offices	D3052 Replace rooftop unit	15	4 11			\$60,000											\$60,000								\$60,00
7.1 RIU -	2nd floor classrooms	D3052 Replace rooftop unit E1093 Kitchen Exhaust Hood, Commercial,	15	13 2	40 Ton	\$3,507.50	\$140,300			\$140,300													\$140,300	)		\$280,60
7.1 Kitche	n	Replace	15	1 14	1 EA	\$15,000.00	\$15,000													\$15,000						\$15,00
7.2 Custo	dian Closets	D2023 Water Heater, Electric, Residential, 30 to 52 GAL, Replace	12	2 10	10 EA	\$1.335.00	\$13,350										\$13,350									\$13,35
		D2023 Water Heater, Gas, Commercial, 60															,									
7.2 Boile	Room	to 120 GAL, Replace D5012 Secondary Transformer, Dry, 150	15	8 7	1 EA	\$10,698.82	\$10,699							\$10,699												\$10,69
7.4 Electr	ical Room	kVA, Replace		25 5	1 EA	\$15,803.27	\$15,803					\$15,803														\$15,80
7.4 Electr	cal Room	D5012 Building/Main Switchgear, 480 Y, 277 V, 1,000 Amp, Replace		25 5	1 FA	\$195,649.21	\$195 640					\$195,649														\$195,64
		D1011 Elevator, Hydraulic, 1500 to 2500 LB,										¥±55,049														
7.5 Comr	on corridor	2 Floors, Renovate	30	30 0	1 EA	\$108,794.40	\$108,794	\$108,794																		\$108,79

D4091 Kitchen Fire Suppression System 7.6 Kitchen (CO2), Replace 15 1 14 1 EA \$4,447.10 \$4,447  D5037 Fire Alarm Control Panel, 7.6 Electrical closet Addressable, Replace 15 2 13 1 EA \$20,297.59 \$20,298  Totals, Unescalated  S370,003 \$78,002 \$333,911 \$0 \$143,780 \$215,402 \$12,650 \$10,699 \$339,759 \$8,000 \$195,317 \$72,650 \$0 \$172,098 \$27,556 \$32,296 \$42,650 \$169,727 \$178,000 \$17,788	cement Reserves Report plain Elementary																													And Annual Printers and An	
Report Section Location Description																															
D4091 Kitchen Fire Suppression System  7.6 Kitchen  (CO2), Replace 15 1 14 1 EA \$4,447.10 \$4,447  D5037 Fire Alarm Control Panel,  7.6 Electrical closet Addressable, Replace 15 2 13 1 EA \$2,297.59 \$20,298  Totals, Unescalated  5370,003 \$78,082 \$333,911 \$0 \$143,780 \$215,402 \$12,650 \$10,699 \$339,759 \$8,000 \$195,317 \$72,650 \$0 \$172,098 \$27,556 \$32,296 \$42,650 \$169,727 \$178,000 \$17,788																															
7.6 Kitchen (CO2), Replace 15 1 14 1 EA \$4,447.10 \$4,447	rt Section Location Description	•	Litespan (EU	L) EAg	RUL Q	uantity Unit	Unit Cost	Subtotal	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	5 202	5 2027	7 202	28 2029	9 20	30 20	)31 2	2032	2033	2034	2035	Deficiency R	epair Estimate
D5037 Fire Alarm Control Panel,  7.6 Electrical closet Addressable, Replace 15 2 13 1 EA \$20,297.59 \$20,298  Totals, Unescalated \$370,003 \$78,082 \$333,911 \$0 \$143,780 \$215,402 \$12,650 \$10,699 \$339,759 \$8,000 \$195,317 \$72,650 \$0 \$172,098 \$27,556 \$32,296 \$42,650 \$169,727 \$178,000 \$17,788																															
7.6 Electrical closet Addressable, Replace 15 2 13 1 EA \$20,297.59 \$20,298  Totals, Unescalated \$370,003 \$78,082 \$333,911 \$0 \$143,780 \$215,402 \$12,650 \$10,699 \$339,759 \$8,000 \$195,317 \$72,650 \$0 \$172,098 \$27,556 \$32,296 \$42,650 \$169,727 \$178,000 \$17,788	7.6 Kitchen	(CO2), Replace		15	1 14	1 EA	\$4,447.10	\$4,447	'														\$4	,447							\$4,44
Totals, Unescalated \$370,003 \$78,082 \$333,911 \$0 \$143,780 \$215,402 \$12,650 \$10,699 \$339,759 \$8,000 \$195,317 \$72,650 \$0 \$172,098 \$27,556 \$32,296 \$42,650 \$169,727 \$178,000 \$17,788		D5037 Fire Alarm Control Panel,																													
	7.6 Electrical closet	Addressable, Replace		15	2 13	1 EA	\$20,297.59	\$20,298	3													\$20,2	298								\$20,29
	, Unescalated								\$370,00	3 \$78,082	2 \$333,91	.1 \$0	\$143,780	\$215,402	2 \$12,650	0 \$10,699	9 \$339,75	59 \$8,0	000 \$195,	317 \$72,0	650	\$0 \$172,0	098 \$27	,556 \$32	2,296 \$4	42,650 \$:	169,727	\$178,00	\$17,788	3	\$2,420,36
ocation Factor (1.00) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	on Factor (1.00)								\$	so \$0	) \$	0 \$0	\$0	\$0	0 \$0	0 \$0	0 9	\$0	\$0	\$0	\$0 5	\$0	\$0	\$0	\$0	\$0	\$0	\$1	) \$(	)	
Totals, Escalated (3.0% inflation, compounded annually) \$370,003 \$80,424 \$354,246 \$0 \$161,826 \$249,711 \$15,105 \$13,158 \$430,397 \$10,438 \$262,490 \$100,565 \$0 \$252,731 \$41,681 \$50,316 \$68,441 \$280,534 \$303,033 \$31,191		ally)							\$370.00	3 \$80.424	4 \$354.24	.6 \$0	\$161.826	\$249 711	1 \$15 10	5 \$13.158	8 \$430.39	97 \$10.4	38 \$262	490 \$100 °	565	\$0 \$252 :	731 \$41	681 \$50	1316 \$6	68 441  \$1	280 534	\$303.03	3 \$31 191		\$3,076,28

tion Location Description	Cost Description	Lifespan (EUL)	Age RUL	Quantity Unit	Unit Cost	Subtotal	2016 20	17 2018 2	2019 2020	2021 2022	2 2023	2024	2025	2026 2	2027 2028	2029	2030	2031	2032 2033	2034	2035	Deficiency Repair
·	·	, , ,	Ü	•																		
3.2 Parking lot	Z1060 ADA, Parking, Designated Stall with Pavement Markings & Signage (Van), Install	0	0 0	1 EA	\$420.00	\$420	\$420															
3.2 Parking lot	Z1060 ADA, Parking, Designated Stall with Pavement Markings & Signage, Install	0	0 0	3.21 EA	\$375.00	\$1,204	\$1,204															
5.2 Parking lots	G2022 Asphalt Pavement, Parking Lot, Seal & Stripe	10	10 0	90000 SF	\$0.38	\$34,200	\$34.200							\$34,200								
5.2 Side and rear yards	G2031 Asphalt Sidewalk, Seal B3011 Single-Ply EPDM Membrane Roof,	5	5 0	1000 SF	\$0.79					\$790				\$790				\$790				
6.3 Roof	Replace	20	5 15	23000 SF		\$241,960											:	\$241,960				
6.4 1993 Wing	B2021 Steel Window, Repair C3012 Concrete/Masonry, Interior Wall,	0	0 0	25 EA	\$133.50	\$3,338	\$3,338															
6.8 Common corridors/classrooms	Prep & Paint	8	6 2			\$29,000		\$29,000						\$29,000						\$29,000		
6.8 Common corridors/classrooms 6.8 Common corridors/classrooms	C3024 Vinyl Tile Flooring, Replace C3032 Acoustical Tile Ceiling, Replace	15 20	6 9 6 14	3490 SF 280 SF	\$4.80 \$3.11	\$16,754 \$871							\$16,754				\$871					
6.8 Kitchen	E1093 Freezer/Cooler, Commercial, Walk- In, Replace D3021 Boiler, Gas, 301 to 750 MBH,	15	7 8	2 EA	\$22,317.14	\$44,634						\$44,634										
7.1 Mechanical Room	Replace D3032 Condensing Unit/Heat Pump, Split	25	7 18	2 EA	\$23,840.87	\$47,682														\$47,682		
7.1 Classrooms	System, 2.5 Ton, Replace D3041 Make-Up Air Unit, 2,000 to 6,000	15	7 8	26 EA	\$3,366.36	\$87,525						\$87,525										
7.1 Roof	CFM, Replace D3042 Exhaust Fan, Centrifugal, 3,501 to		7 13	1 EA	\$32,062.66											\$32,063						
7.1 Roof	5,000 CFM, Replace D3044 Circulation Pump, Heating Water, 3		7 8	2 EA	\$4,322.55							\$8,645				Ć0 205						
7.1 Mechanical Room 7.1 Mechanical Room	HP, Replace D3045 Circulation Pump, Chiller & Condenser Water, 10 HP, Replace		<ul><li>7 13</li><li>7 13</li></ul>	2 EA 2 EA	\$4,652.29 \$6,237.69											\$9,305 \$12,475						
7.1 Mechanical Room	D3045 Circulation Pump, Chiller & Condenser Water, 5 HP, Replace	20	7 13	3 EA	\$5,518.88											\$16,557						
7.1 Electrical Room	D3051 Unit Heater, Hydronic, 13 to 36 MBH, Replace		7 13	1 EA	\$1,516.80											\$1,517						
7.1 Roof	D3052 Air Handling Unit, Exterior, 16 to 20 Ton, Replace	15	7 8	1 EA	\$37,802.95	\$37,803						\$37,803										
7.1 Roof	D3052 Air Handling Unit, Exterior, 16 to 20 Ton, Replace	15	7 8	1 EA	\$37,802.95	\$37,803						\$37,803										
7.1 Roof	D3052 Air Handling Unit, Exterior, 3.5 to 5 Ton, Replace D3052 Air Handling Unit, Exterior, 8 to 10	15	7 8	1 EA	\$11,419.83	\$11,420						\$11,420										
7.1 Roof	Ton, Replace D2023 Water Heater, Gas, Tankless, 6.5 to	15	7 8	1 EA	\$19,738.18	\$19,738						\$19,738										
7.2 Mechanical Room	9.5 GPM, Replace D2023 Water Storage Tank, 80 to 150 GAL,	15	7 8	1 EA	\$1,843.56	\$1,844						\$1,844										
7.2 Mechanical Room	Replace	20	7 13	1 EA	\$2,140.56	\$2,141										\$2,141						
7.2 Piping Distribution System	D2029 Plumbing System, School, Upgrade D1011 Elevator, Hydraulic, 3000 to 4000 LB,		40 0			\$700,280																
7.5 Lobby	3 Floors, Renovate Z1020 ADA, Elevator/Lift, Wheelchair Lift,		23 7		\$83,619.00						\$83,619											
7.5 Main lobby 7.6 Electric room	Up to 8', Install D5037 Fire Alarm Control Panel, Addressable, Replace		0 0	1 EA	\$23,850.00								\$20,298									
7.0 LIECUIC FOOTH	E1093 Food Service Equipment,	15	0 9	I EA	\$ <b>2</b> 0,237.39	<b>320,238</b>							\$ <b>2</b> 0,236									
8.2 Commercial kitchen	Commercial Kitchen (Allowance), Replace	5	1 4	1 EA	\$15,200.00			ćo ć <u>o</u> o coo	\$15,20			6240 ***	\$15,200	¢62.000	ć0 ^~	674.055	\$15,200	ća42 ===	¢0 **	¢70.000	\$15,200	
scalated ctor (1.00)							\$764,081 \$0	\$0 \$29,000 \$0 \$0		) \$790 \$( ) \$0 \$(					\$0 \$0 \$0 \$0			\$242,750 \$0	\$0 \$0 \$0 \$0	\$76,682 \$0		

Wheeler Elementary																												Microsoft August (March 1994)  Microsoft (March 1994)
16																												
ection Location Description	Cost Description Z1050 ADA, Miscellaneous, Signage,	Lifespan (EUL)	EAge	RUL Quar	ntity Unit	Unit Cost	Subtotal	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Deficiency Repair Estimate
3.2 East and west sides of property	Directional, Wall-Mounted, Install	0	0	0	2 EA	\$280.00	\$560	\$560																				\$56
	Z1060 ADA, Parking, Designated Stall with						4																					
3.2 East side parking	Pavement Markings & Signage (Van), Install	0	) 0	0	1 EA	\$420.00	\$420	\$420																				\$42
2.2 East and wort sides of property	Z1060 ADA, Parking, Designated Stall with	0	) 0	0	3 EA	¢27E 00	¢1 13E	\$1,125																				\$1,12
3.2 East and west sides of property	Pavement Markings & Signage, Install Z1080 ADA, Restroom, Lavatory Pipe Wraps,	U	, 0	U	5 EA	\$375.00	\$1,125	\$1,125																				\$1,12
3.2 Accessible restroom	Install G2022 Asphalt Pavement, Parking Lot, Mill &	0	0	0	2 EA	\$120.00	\$240	\$240																				\$24
5.2 Recreation area at rear of property	Overlay	25	8	17	7000 SF	\$3.28	\$22,963																		\$22,9	<del>)</del> 63		\$22,96
5.2 Parking lots	G2022 Asphalt Pavement, Parking Lot, Mill & Overlay	25	. 8	17 1:	1800 SF	\$3.28	\$38,709																		\$38,7	709		\$38,70
	G2022 Asphalt Pavement, Parking Lot, Seal &																								Ψ30).	03		
5.2 Asphalt parking lots throughout site	Stripe G2052 Drainage Swale, Concrete,	10	) 5	5 18	3810 SF	\$0.38	\$7,148						\$7,148										\$7,148	3				\$14,29
5.3 West parking lot	Replace/Install	25			150 LF	\$31.26																						\$4,68
5.5 West, north and northeast sides	G2047 Play Structure, Small, Replace B3011 Single-Ply EPDM Membrane Roof,	20	) 9	11	3 EA	\$15,000.00	\$45,000												\$45,000	1								\$45,00
6.3 North portion of building	Replace	20	17	3 10	5400 SF	\$10.52	\$172,528			9	\$172,528																	\$172,52
6.3 West and central portion of building	B3011 Single-Ply TPO/PVC Membrane Roof, Replace	20	18	2 4	4500 SF	\$15.93	\$71,685			\$71,685																		\$71,68
6.3 Original Building - Snow Guards	B3011 Metal Roof, Repair	0			3500 SF		\$2,635			771,003																		\$2,63
6.3 Original building	B3011 Metal Roof, Replace	40	21	19 8	3500 SF		\$211,650																				\$211,650	
6.3 Gymnasium	B3011 Single-Ply EPDM Membrane Roof, Replace	20	5	15	3000 SF	\$10.52	\$31,560																\$31,560	0				\$31,56
6.3 1904 Building Attic	X1010 ECM, Attic Insulation Levels, Upgrade	0	0	0 10	0800 SF	\$0.75	\$8,100	\$8,100																				\$8,10
C. A. Navida, or author and houtletters	B2011 Exterior Wall Paint, 1-2 Stories, Prep	40			-600 65	ć2.42	642.552							ć42 FF2										C42 FF:	2			¢27.4
6.4 North portion of building	& Paint B2021 Aluminum Window, Double Glazed,	10	) 4	6 5	5600 SF	\$2.42	\$13,552							\$13,552										\$13,552	2			\$27,10
6.6 Exterior	3+ Stories, 24 SF, Replace	30	28	2	56 EA	\$1,934.82	\$108,350			\$108,350																		\$108,35
6.6 1993 Building	B2023 Storefront Windows without Door(s), Metal-Framed, Replace	30	29	1	500 SF	\$48.00	\$24,000		\$24,000																			\$24,00
6.6 Classrooms	B2032 Steel, Insulated, Exterior Door, Replace	25	25	0	10 EA	\$1,577.53	\$15,775	\$15,775																				\$15,77
	C1021 Wood, Solid Core w/ Safety Glass,																											
6.6 1904 Classrooms	Painted/Stained, Interior Door, Replace	20	18	2	30 EA	\$1,423.11	\$42,693			\$42,693																		\$42,69
	C3012 Concrete/Masonry, Interior Wall,																											
6.8 Hallways, classrooms 6.8 1904 Building Stairwells	Prep & Paint C3024 Vinyl Sheet Flooring, Replace	8			0000 SF 3600 SF	\$0.89	\$35,600 \$36,036			\$36,036				\$35,600								\$35,600			\$36,0	026		\$71,20 \$72,07
6.8 Classrooms, common areas	C3024 Vinyl Tile Flooring, Replace	15 15			3340 SF		\$16,034			\$30,030			\$16,034												\$30,0	130		\$16,03
6.8 Offices, classrooms	C3025 Carpet, Standard Commercial, Medium Traffic, Replace	10	) 7	3 :	1000 SF	\$7.26	\$7,256				\$7,256										\$7,256	i						\$14,51
	D3021 Boiler, Gas, 2,001 to 2,500 MBH,										Ų/) <b>2</b> 30										ψ,,250							
7.1 Boiler Room	Replace D3022 Condensate Receiver Station, 15 GAL,	25	10	15	2 EA	\$54,195.22	\$108,390																\$108,390	)				\$108,39
7.1 Boiler Room	Replace	25	16	9	1 EA	\$7,732.67	\$7,733										\$7,733											\$7,73
7.1 Boiler Room	D3023 Heat Exchanger, Steam-to-Water, 41 to 75 GPM, Replace	35	16	19	2 EA	\$9,484.21	\$18,968																				\$18,968	\$18,96
	D3041 Unit Ventilator, 751 to 1,250 CFM																										. ,	
7.1 South portion of building	(approx. 3 Ton), Replace D3041 Unit Ventilator, 751 to 1,250 CFM	15	13	2	8 EA	\$9,050.00	\$72,400			\$72,400															\$72,4	100		\$144,80
7.1 North portion of building	(approx. 3 Ton), Replace D3042 Exhaust Fan, Centrifugal, 251 to 800	15	6	9	10 EA	\$9,050.00	\$90,500										\$90,500											\$90,50
7.1 Attic	CFM, Replace	15	11	4	5 EA	\$2,021.87	\$10,109				:	\$10,109															\$10,109	\$20,21
7.1 Poof	D3042 Exhaust Fan, Roof Mounted, 801 to	15	. 11	4	0.54	¢1 760 40	¢1E 02E					¢1E 02E															¢1E 02E	ć21 O
7.1 Roof	1,000 CFM, Replace D3044 Circulation Pump, Heating Water, 3	15	11	4	9 EA	\$1,769.49	\$13,925				;	\$15,925															\$15,925	\$31,85
7.1 Boiler Room	HP, Replace D3052 Air Handling Unit, Exterior, 11 to 15	20	11	9	4 EA	\$4,652.29	\$18,609										\$18,609											\$18,60
7.1 Roof	Ton, Replace	15	11	4	1 EA	\$27,804.57	\$27,805				:	\$27,805															\$27,805	\$55,60
7.1 Building Interior General	D3068 Building Automation System (HVAC Controls), Upgrade	20	) 1	19 4	1405 SF	\$5.26	\$238,011																				\$238,011	\$238,01
	controls, opprade																					\$9,512					Y230,011	\$9,51
7.2 New and Old Building	D2021 Backflow Preventer, 3", Replace	15	1	14	2 EA	\$4,756.10	\$9,512															39,312						Ş9,5.

	D2023 Water Heater, Gas, Residential, 30 to										
7.2 Mechanical room	50 GAL, Replace	10	10 0	1 EA	\$1,330.00	\$1,330	\$1,330	\$	1,330		
	D2023 Water Heater, Gas, Tankless, 6.5 to										
7.2 Boiler Room	9.5 GPM, Replace	15	4 11	1 EA	\$1,843.56	\$1,844			\$1,844		
7.2 Kitchen	D2029 Plumbing System, School, Upgrade	40	39 1	500 SF	\$38.94	\$19,470	\$19,470				Ş
7.2 Boiler Room, New Building	D2031 Pipe & Fittings, Cast Iron, 4", Replace	50	50 0	100 LF	\$150.00	\$15,000	\$15,000				
	D5012 Secondary Transformer, Dry, 50 kVA,										
7.4 Electrical Room	Replace	30	20 10	2 EA	\$6,857.93	\$13,716		\$1	3,716		
	D5012 Distribution Panel, 208 Y, 120 V, 200										
7.4 Building Interior General	Amp, Replace	30	20 10	5 EA	\$7,906.20	\$39,531		\$3	9,531		
7.451	D5012 Distribution Panel, 480 Y, 277 V, 400	20	20 40		444 202 0			A.	4.000		
7.4 Electrical Room	Amp, Replace	30	20 10	1 EA	\$11,202.02	\$11,202		\$1	1,202		
7.4 Electrical Room	D5012 Distribution Panel, 480 Y, 277 V, 200 Amp, Replace	20	20 10	3 EA	\$9,777.06	\$29,331		ća	9,331		
7.4 Electrical Room	D1011 Elevator Controls, Automatic, 6 Car	30	20 10	3 EA	\$9,777.00	\$29,331		\$2	9,331		
7.5 Elevator	Cluster, Modernize	20	13 7	1 FA	\$88,291.00	\$88,291		\$88,291			
7.5 Elevator	D1011 Replace passenger cab finishes		11 9		. ,	\$18,975		\$18,975			
7.5 Elevator	DIDII Nepidee passenger cab illishes			2 271	ψ10,575.00	, 410,575		Ψ10 <i>)</i> 3.13			
7.6 Building Interior General	D4019 Sprinkler Heads (per SF), Replace	20	20 0	44405 SF	\$1.33	\$59,059	\$59,059				
	D5037 Fire Alarm Control Panel,										
7.6 Mechanical room	Addressable, Replace	15	13 2	1 EA	\$20,297.59	\$20,298	\$20,298			\$20,298	
	D4091 Kitchen Fire Suppression System										
8.2 Commercial kitchen	(CO2), Replace	15	15 0	1 EA	\$23,909.00	\$23,909	\$23,909		\$23,	909	
	E1093 Kitchen Exhaust Hood, Commercial,										
8.2 Kitchen	Replace	15	15 0	1 EA	\$7,571.72	\$7,572	\$7,572		\$7,	572	
	E1093 Food Service Equipment, Commercial										
8.2 Commercial kitchen	Kitchen (Allowance), Replace	5	3 2	1 EA	\$32,000.00	\$32,000	\$32,000	\$32,000	\$32,000	\$32,000	
scalated							\$150,414 \$43,470 \$383,462 \$179,784 \$53,839 \$	23,182 \$49,152 \$120,291 \$0 \$135,817 \$9	5,110 \$46,844 \$32,000 \$7,256 \$45,112 \$178,	579 \$13,552 \$222,405 \$0 \$522,469	:
ctor (1.00)							\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	
lated (3.0% inflation, compounded annua	lly)						\$150,414 \$44,774 \$406,815 \$196,455 \$60,597 \$	26,874 \$58,690 \$147,943 \$0 \$177,210 \$12	7,820 \$64,842 \$45,624 \$10,656 \$68,236 \$278,	220 \$21,747 \$367,602 \$0 \$916,152	\$

Charles P. Smith Elementary

no	/22	/2016
US.	/ Z3	/2016

03/23/2016																
Report Section	Location Description	Cost Description	Lifespan (EUL)	Age RUL	Quantity Unit	Unit Cost	Subtotal 2016	2017 2018 2019 2020 2	021 2022 2023	2024 2025 2026 2027	7 2028 2029	2030 2031	2032	2033	2034 2	035 Deficiency Repair Estimate
		Z1060 ADA, Parking, Designated Stall with														
3.2 Park	king lot	Pavement Markings & Signage (Van), Install G2022 Asphalt Pavement, Parking Lot, Mill	0	0 0	1 EA	\$420.00	\$420 \$420									\$420
5.2 Park	king lot	& Overlay G2022 Asphalt Pavement, Parking Lot, Seal		22 3	27000 SF	\$3.28	\$88,571	\$88,571								\$88,571
5.2 Park	king lot	& Stripe G2041 Chain Link Fence, 3' to 4' High (per	10	2 8	24.3 SF	\$0.38	\$9			\$9					\$9	\$18
5.5 Peri	meter	LF), Replace x	30	23 7	1000 LF	\$22.12	\$22,120		\$22,120	0						\$22,120
5.5 Play	ground	G2047 Play Structure, Small, Replace B3011 Single-Ply TPO/PVC Membrane Roof,	20	6 14	3 EA	\$15,000.00	\$45,000					\$45,000				\$45,000
6.3 Roo	f	Replace B2011 Exterior Wall Paint, 1-2 Stories, Prep	20	6 14	390 SF	\$15.93	\$6,213					\$6,213				\$6,213
6.4 Exte	erior trim	& Paint C3012 Gypsum Board/Plaster/Metal,		3 7	1200 SF	\$2.42	\$2,904		\$2,90	4				\$2,904		\$5,808
6.8 Hall	ways, classrooms	Interior Wall, Prep & Paint	8	4 4	32000 SF	\$0.84	\$26,880	\$26,880			\$26,880					\$53,760
6.8 Gym	nnacium	C3012 Concrete/Masonry, Interior Wall, Prep & Paint	8	4 4	7000 SF	\$0.80	\$6,230	\$6,230			\$6,230					\$12,460
· ·	nmon areas and classrooms	C3024 Vinyl Tile Flooring, Replace	15	6 9			\$20,801	\$0,230		\$20,801	Ş0,230					\$20,801
6.8 Offic	ces, classrooms	C3025 Carpet, Standard Commercial, Medium Traffic, Replace	10	6 4	200 SF	\$7.26	\$1,451	\$1,451				\$1,451				\$2,902
7.1 Kitch	hen	D3041 Fan Coil Unit, 1 to 1.5 Ton, Replace	15	7 8	1 EA	\$1,878.84	\$1,879			\$1,879						\$1,879
7.1 Roo	f	D3042 Exhaust Fan, Centrifugal, 2,001 to 3,500 CFM, Replace		3 12	1 EA	\$3,072.78	\$3,073				\$3,073					\$3,073
		D3042 Exhaust Fan, Centrifugal, 251 to 800		- 0		40.004.00	4			***						***
	trical Room	CFM, Replace D3044 Circulation Pump, Heating Water, 3		7 8		\$2,021.87				\$4,044						\$4,044
7.1 Boile	er Room	HP, Replace D3045 Circulation Pump, Chiller &	20	3 17	′ 5 EA	\$4,652.29	\$23,261							\$23,261		\$23,261
7.1 Boile	er Room	Condenser Water, 5 HP, Replace D3045 Circulation Pump, Chiller &	20	2 18	3 EA	\$5,518.88	\$16,557							\$	516,557	\$16,557
7.1 Boile	er Room	Condenser Water, 7.5 HP, Replace D3051 Unit Heater, Hydronic, 37 to 85 MBH,	20	3 17	2 EA	\$6,037.49	\$12,075							\$12,075		\$12,075
7.1 Gym	nnasium, Boiler Room	Replace D3052 Air Handling Unit, Exterior, 16 to 20	20	3 17	2 EA	\$1,900.28	\$3,801							\$3,801		\$3,801
7.1 Roo	f	Ton, Replace	15	3 12	1 EA	\$42,000.00	\$42,000				\$42,000					\$42,000
7.1 Offic	ce, Custodian	D3052 Heat Pump, 2.5 to 3 Ton, Replace D3052 Air Handling Unit, Exterior, 16 to 20	15	3 12	2 EA	\$5,770.93	\$11,542				\$11,542					\$11,542
7.1 Roo	f	Ton, Replace	15	3 12	1 EA	\$34,000.00	\$34,000				\$34,000					\$34,000
7.1 Offic	ce	D3052 Heat Pump, 2.5 to 3 Ton, Replace D3052 Air Handling Unit, Exterior, 16 to 20	15	3 12	1 EA	\$5,770.93	\$5,771				\$5,771					\$5,771
7.1 Roo	f	Ton, Replace	15	3 12	1 EA	\$42,000.00	\$42,000				\$42,000					\$42,000
7.1 Clas	srooms	D3052 Heat Pump, 1.5 to 2 Ton, Replace D3052 Air Handling Unit, Exterior, 16 to 20	15	2 13	18 EA	\$4,124.00	\$74,232				\$74,2	32				\$74,232
7.1 Roo	f	Ton, Replace D3052 Air Handling Unit, Exterior, 16 to 20	15	3 12	1 EA	\$42,000.00	\$42,000				\$42,000					\$42,000
7.1 Roo	f	Ton, Replace	15	3 12	1 EA	\$42,000.00	\$42,000				\$42,000					\$42,000
7.1 Entr	rances	D3052 Heat Pump, 0.75 to 1 Ton, Replace E1093 Kitchen Exhaust Hood, Commercial,	15	3 12	3 EA	\$4,175.73	\$12,527				\$12,527					\$12,527
7.1 Kitch	hen	Replace	15	3 12	1 EA	\$7,571.72	\$7,572				\$7,572					\$7,572
7.2 Boile	er room	D2023 Water Heater, Gas, Tankless, 6.5 to 9.5 GPM, Replace		3 12	1 EA	\$2,259.00	\$2,259				\$2,259					\$2,259
7.2 Clas	crooms	D2023 Water Heater, Electric, Residential, 5 to 15 GAL, Replace		1/1 1	10 EA	¢5 000 00	\$05,000	\$95,000								¢ar ana
7.2 Clas 7.2 Pit	STOUTIS	D2043 Sump Pump, 3 HP, Replace		14 1 3 12		\$5,000.00 \$2,062.81		\$95,000			\$4,126					\$95,000 \$4,126
7.6 Elec	trical room	D5037 Fire Alarm Control Panel, Addressable, Replace		6 9	1 EA	\$20,297.59	\$20,298			\$20,298						\$20,298
8.2 Kitch	hen	E1093 Freezer/Cooler, Commercial, Walk-In, Replace		3 12	2 EA	\$22,317.14	\$44,634				\$44,634					\$44,634

Replacement Reserves Charles P. Smith Elemen	•																										
03/23/2016 Report Section	Location Description	Cost Description	Lifespan (EUL)	EAge RU	L Quantity U	nit Unit Cos	t Subtotal	2016 2017	2018	2019 2020	2021	. 2022	2023	2024	2025	2026 2	2027 20	28 20	29 20	30 2	031 20	32 2	2033	2034	2035 D	Deficiency Repair	Estimate
		E1093 Food Service Equipment, Commercial																									
8.2 Comm	mon areas and classrooms	Kitchen (Allowance), Replace	5	4	1 1 EA	\$12,000.	00 \$12,000	\$12,00	0			\$12,000				\$1	12,000				\$12	2,000					\$48,000
Totals, Unescalated								\$420 \$107,00	0 \$0 \$	88,571 \$34,5	61 \$0	\$12,000 \$	\$25,024	\$5,932	\$41,099	\$0 \$1	12,000 \$32	5,613 \$74	,232 \$5	,664	\$0 \$12	2,000 \$4	42,041	\$16,566	\$0		\$850,723
Location Factor (1.00)								\$0 \$	0 \$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0
Totals, Escalated (3.0% i	inflation, compounded ann	ually)						\$420 \$110,21	.0 \$0 \$	96,784 \$38,8	99 \$0	\$14,329	\$30,776	\$7,514	\$53,624	\$0 \$1	16,611 \$46	5,673 \$109	,012 \$79	,659	\$0 \$19	9,256 \$6	69,487	\$28,202	\$0	ç	\$1,140,457

John J. Flynn Elementary

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3/23/2016 eport Section	Location Description	Cost Description	Lifespan (EUL) E	Age RUL	Quantity Uni	t Unit Cost	Subtotal	2016	2017	2018	2019	2020 2	2021 2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034 2035	5 Deficiency Repair Estimate
3.2 Park	king lot	Z1060 ADA, Parking, Designated Stall with Pavement Markings & Signage (Van), Install	0	0 0	1 EA	\$420.00	\$420	\$420																		\$420
3.2 Nor	rth side parking area	Z1060 ADA, Parking, Designated Stall with Pavement Markings & Signage, Install G2022 Asphalt Pavement, Parking Lot, Seal	0	0 0	1 EA	\$375.00	\$375	\$375																		\$37
5.5 Rea	king lots and service drives or of property	& Stripe G2047 Play Structure, Medium, Replace	10 20	3 7 13 7	2 EA	\$31,625.00								\$184,680 \$63,250										\$184,6	80	\$369,360 \$63,250
•	nnasium/Auditorium of - Kitchen Area	B1012 Concrete Decking, Replace B3011 Single-Ply TPO/PVC Membrane Roof, Replace	50 20	47 3 20 0			\$219,300	\$76.464		\$	\$219,300															\$219,300 \$76,46
	of - Halls & Classrooms	B3011 Single-Ply EPDM Membrane Roof, Replace	20	3 17		·	\$462,880	4.0,																\$462,88	30	\$462,880
6.3 Site	•	G3011 Pipe & Fittings, Ductile Iron, 6", Replace/Install C3012 Concrete/Masonry, Interior Wall,	40	40 0	300 LF	\$126.38	\$37,914	\$37,914																		\$37,91
6.8 Com	nmon areas and classrooms	Prep & Paint C3012 Gypsum Board/Plaster/Metal,	8	4 4	32000 SF	\$0.89	\$28,480					\$28,480							\$28,480	1						\$56,960
	lways, classrooms nmon areas and classrooms	Interior Wall, Prep & Paint C3024 Vinyl Tile Flooring, Replace D3021 Boiler, Gas, 2,001 to 2,500 MBH,	8 15	4 4 4 11			\$11,760 \$28,103					\$11,760						\$28,103	\$11,760	)						\$23,520 \$28,100
7.1 Boile	ler Room	Replace D3032 Condensing Unit/Heat Pump, Split	25	8 17	2 EA	\$54,195.22	\$108,390																	\$108,3	90	\$108,390
7.1 Roo 7.1 Roo	·	System, 16 to 20 Ton, Replace D3032 Condensing Unit/Heat Pump, Split System, 16 to 20 Ton, Replace		<ul><li>3 12</li><li>3 12</li></ul>		\$24,577.00 \$26,950.00													\$49,154 \$26,950							\$49,15 <sub>/</sub> \$26,95 <sub>/</sub>
	Iding Interior General	D3032 Condensing Unit/Heat Pump, Split System, 6 to 7.5 Ton, Replace		5 10		\$11,591.12											\$23,182		320,330	,						\$23,18
7.1 Roo	of	D3032 Condensing Unit/Heat Pump, Split System, 13 to 15 Ton, Replace D3041 Make-Up Air Unit, 2,000 to 6,000	15	7 8	1 EA	\$23,279.00	\$23,279								\$23,27	79										\$23,27
7.1 Attio	ic	CFM, Replace D3042 Exhaust Fan, Centrifugal, 2,001 to	20	4 16	1 EA	\$32,062.66	\$32,063																\$32,063			\$32,06
7.1 Roo 7.1 Boile		3,500 CFM, Replace D3044 Circulation Pump, Heating Water, 3 HP, Replace	15 20	5 10 8 12		\$3,072.78 \$4,652.29	\$9,218 \$9,305										\$9,218		\$9,305							\$9,213 \$9,30
7.1 Boile		D3045 Circulation Pump, Chiller & Condenser Water, 3 HP, Replace	20	4 16		\$4,652.29	\$9,305												<b>33,30</b> 3				\$9,305			\$9,30
7.1 Boile	ler Room	D3045 Circulation Pump, Chiller & Condenser Water, 12.5 to 15 HP, Replace	20	4 16	3 EA	\$6,860.74	\$20,582																\$20,582			\$20,58
7.1 Med	chanical Spaces	D3051 Unit Heater, Hydronic, 13 to 36 MBH, Replace D3051 Unit Heater, Hydronic, 8 to 12 MBH,	20	5 15	2 EA	\$1,516.80	\$3,034															\$3,03	4			\$3,03
7.1 Corr	ridors and Vestibules	Replace D3052 Air Handling Unit, Exterior, 16 to 20	20	18 2	10 EA	\$880.85	\$8,809			\$8,809																\$8,80
7.1 Roo 7.1 Roo		Ton, Replace D3052 Air Handling Unit, Exterior, 16 to 20 Ton, Replace		5 10 5 10		\$37,802.95 \$37,802.95											\$37,803 \$37,803									\$37,80 \$37,80
7.1 Roo		D3052 Air Handling Unit, Exterior, 16 to 20 Ton, Replace		5 10		\$37,802.95											\$37,803									\$37,80
7.1 Clas		D3052 Heat Pump, 1.5 to 2 Ton, Replace D2023 Water Heater, Gas, Tankless, 6.5 to		3 12		\$4,124.00													\$156,712							\$156,71
7.2 Boile 7.2 Kitcl		9.5 GPM, Replace D2023 Water Heater, Gas, Commercial, 60 to 120 GAL, Replace	15 15	<ul><li>3 12</li><li>1 14</li></ul>		\$2,259.00 \$10,698.82													\$2,259	1	\$10,699	)				\$2,25 \$10,69
7.2 Site		G3011 Pipe & Fittings, PVC, 8", Replace/Install	40				\$19,690		\$19,690																	\$19,69
	ctrical room in building	D5037 Fire Alarm Control Panel, Addressable, Replace D5038 Security Control Panel, Replace	15 15	2 13 15 0		\$20,297.59 \$6,594.69		\$6,595												\$20,298		\$6,59	5			\$20,29 \$13,18
8.2 Com	nmercial kitchen	E1093 Food Service Equipment, Commercial Kitchen (Allowance), Replace		3 2	1 EA	\$32,000.00	\$32,000		<b>,</b>	\$32,000				\$32,000	)				\$32,000	ı				\$32,00	00	\$128,000

Replacement Reserv John J. Flynn Elemer	•																												1
03/23/2016 Report Section	Location Description	Cost Description	Lifesnan (FL	II) FA	Δσe RIII	Quantity III	nit Unit Cost	Subtotal	2016	2017	2018	2019	2020	2021 20	)22 2023	3 2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	20:	34 2035	5 Deficiency Repair Estimate	
Report Section	Location Description	E1093 Freezer/Cooler, Commercial, Walk-In,		,, .,	ige NOL	. Qualitity Of	iii Oiiii Cost	Jubiotai	2010	2017	2010	2013	2020	2021 20	,22 2023	2024	2023	2020	2027	2020	2023	2030	2031	2032	2033	20.	34 2033	Denciency Repair Estimate	1
8.2 Kit	chen	Replace E1093 Kitchen Exhaust Hood, Commercial,		15	5 10	) 2 EA	\$22,317.14	\$44,634										\$44,634	ı									\$44,63	34
8.2 Kit	chen	Replace		15	5 10	1 EA	\$7,571.72	\$7,572										\$7,572	2									\$7,57	72
Totals, Unescalated Location Factor (1.00 Totals, Escalated (3.0		nually)							\$	0 \$0	\$0	) \$(	0 \$0	0 \$0		. ' ' .	0 \$0	\$0	\$(	) \$	20 \$20,298 50 \$0 24 \$29,808	\$0	\$0	, .	, - ,-	\$0	\$0 \$0 \$0 \$0 \$0 \$0	) ,	\$0

Replacement Reserve	es Report																								
IRA																									
3/23/2016																									
Report Section	Location Description	Cost Description	Lifespan (EUL)	Age RU	L Quantit	/ Unit	Unit Cost	Subtotal	2016	2017 2018	3 2019	2020 20	021 2022	2023	2024	2025	2026	2027 2028	2029	2030	2031	2032	2033	2034 2035 Deficier	ncy Repair Estimate
•	·	Z1060 ADA, Parking, Access Aisle Striping,	, , ,	Ü	·																				
3.2 Park	king lot	Install	0	0	0 8	0 LF	\$7.25	\$580	\$580																\$580
22511		Z1080 ADA, Restroom, Grab Bars &				4 54	ć4 250 00	64.250	ć4 250																64.25
3.2 Pubi	lic restroom	Blocking, Install Z1080 ADA, Restroom, Lavatory Pipe	0	0	0	1 EA	\$1,250.00	\$1,250	\$1,250																\$1,250
3.2 Publ	lic restroom	Wraps, Install	0	0	0	1 EA	\$120.00	\$120	\$120																\$120
		G2022 Asphalt Pavement, Parking Lot, Seal					7	7	7																,
5.2 Park	king lot and service drives	& Stripe	10	4	6 25200	0 SF	\$0.38	\$95,760					\$95,7	60								\$95,760			\$191,520
5.5 Rear	r of property	G2047 Play Structure, Small, Replace	20	11	9	1 EA	\$15,000.00	\$15,000								\$15,000	)								\$15,000
6.3 Root	£	B3011 Single-Ply TPO/PVC Membrane Roof,	20	44	9 1680	0.65	Ć4F 02	¢267.624								\$267,624									¢267.62
6.3 K00	T	Replace B2011 Caulk Sealant, Exterior Wall Joints to	20	11	9 1680	U 3F	\$15.93	\$267,624								\$267,624									\$267,624
6.4 Win	dow seals	1/2", Replace	10	10	0 240	0 LF	\$15.35	\$36,840	\$36,840	ı							\$36,840								\$73,680
		B2011 Exterior Wall Paint, 1-2 Stories, Prep					,	, , -	, , -								, , -								, -,
6.4 Exte	erior trim	& Paint	10	7	3 150	0 SF	\$2.42	\$3,630			\$3,630	)							\$3,630						\$7,260
6.8 Class	srooms, conference rooms, restrooms	C3024 Vinyl Tile Flooring, Replace	15	9	6 80	0 SF	\$4.80	\$3,840					\$3,8	40											\$3,840
		C3025 Carpet, Standard Commercial,																							
	ces and hallways	Medium Traffic, Replace	10	7		0 SF	\$7.26	\$5,805			\$5,805	i							\$5,805						\$11,610
6.8 Entii	re building	C3032 Acoustical Tile Ceiling, Replace	20	7 1	3 15	0 SF	\$3.11	\$467											\$467						\$467
7.1 Faui	ipment mezzanine	D2023 Domestic Boiler, Gas, 501 to 800 MBH, Replace	22	22	0	2 EA	\$17,800.00	¢2E 600	\$35,600																\$35,600
7.1 Equi	ipment mezzanine	D3031 Chiller, Air-Cooled, 41 to 50 Ton,	22	22	U	ZEA	\$17,000.00	\$55,000	\$55,000	'															\$55,000
7.1 Root	f	Replace	25	25	0	1 EA	\$78,186.30	\$78,186	\$78,186																\$78,186
		D3041 Air Handler, Interior, 10,001 to																							
7.1 Pent	thouse	15,000 CFM, Replace	30	30	0	1 EA	\$41,979.17	\$41,979	\$41,979																\$41,979
		D3041 Variable Air Volume (VAV) Unit, 100					4	*****	440000																*
7.1 Build 7.1 Build	8	to 400 CFM, Replace D3049 HVAC System, School, Upgrade	15 20		0 4 0 1686	5 EA	\$4,141.92		\$186,386 \$728,689											\$	186,386				\$372,773 \$728,689
7.1 Build	unig	D2023 Water Heater, Electric, Commercial,	20	20	0 1000	0 36	343.22	\$120,003	\$720,009																\$720,003
7.2 Med	chanical closet	121 to 300 GAL, Replace	15	8	7	1 EA	\$10,415.00	\$10,415						\$10,415	5										\$10,415
7.4 Roo	m 17	D5019 Electrical System, School, Upgrade	40	37	3 1686	0 SF	\$49.78	\$839,291			\$839,291	L													\$839,291
7.4 Build	dina	D5022 LED Lighting Fixture, Basic, 20 W, Replace	20	14	c 0/	3 EA	\$180.19	¢151 000					\$151,9	00											\$151,900
7.4 Build	ung	D4019 Sprinkler System, Full Retrofit,	20	14	0 84	3 EA	\$180.19	\$151,900					\$151,9	00											\$151,900
7.6 Build	ding	School (per SF), Renovate	50	42	8 1686	0 SF	\$6.25	\$105,375							\$105,375	5									\$105,375
		D5037 Fire Alarm Control Panel,																							
7.6 Room	m 17	Addressable, Replace	15	13	2	1 EA	\$20,297.59	\$20,298		\$20,2	98												\$20,298	3	\$40,59
Totals, Unescalated										\$0 \$20,2			\$0 \$251,5				. ,		1 - 7		,	\$95,760	. ,		\$2,977,75
Location Factor (1.00)	•								\$0	•	\$0 \$0	•	•	\$0 \$0							\$0	\$0			\$0
Totals, Escalated (3.09	% inflation, compounded annually)								\$1,109,631	\$0 \$21,5	34 \$927,426	\$0	\$0 \$300,3	05 \$12,809	\$133,486	\$368,760	\$49,510	Ş0 Ş0	\$14,541	Ş0 Ş	290,384	\$153,667	\$33,549	9 \$0 \$0	\$3,415,601

Property Services Building

Section Location	on Description	Cost Description G2012 Asphalt Pavement, Roadways, Mill &	Lifespan (EUL)	EAge	KUL (	Quantity Uni	t Unit Cost	Subtotal	2016	2017	2018 2	2019	2020	2021 20	22 2023	2024 20	J25 20	026 2	027	2028 202	9 2030	2031	2032 2033	2034	2035	Deficiency Repair Est
5.2 Parking area	a	Overlay	25	25	0	34000 SF	\$3.28	\$111,520	\$111 520																	\$1
3.2 Tarking area	u	G2022 Asphalt Pavement, Parking Lot, Mill	23			31000 31	<b>γ3.2</b> 0	γ111,3 <b>2</b> 0	Ψ111,3 <b>2</b> 0																	7-
5.2 Driveway		& Overlay	25	25	0	6300 SF	\$3.28	\$20,667	\$20,667																	Ş
·		G2022 Asphalt Pavement, Parking Lot, Seal																								
5.2 Asphalt pav	ement .	& Stripe	10	0	10	40000 SF	\$0.38	\$15,200									\$15	5,200								Ç
		G2052 Landscaping, Flat Areas, Re-slope,																								
5.3 Building per	rimeter	Regrade/Establish	25	25	0	6000 SF	\$3.24	\$19,440	\$19,440																	
		D5038 Vehicle Control Gate Operator,																								
5.5 Entrance		Replace	15			1 EA	\$2,065.00		\$2,065													\$2,065				
6.3 Roof		B3011 Metal Roof, Replace	40	36	4	13000 SF	\$12.45	\$161,850				\$	161,850													3
C A Fotonian	II	B2011 Exterior Wall Paint, 1-2 Stories, Prep	10	0	4	4000 CF	ć2.42	ć0 c00		¢0.000								,	.0.00							
6.4 Exterior wa	IIS	& Paint C3012 Gypsum Board/Plaster/Metal,	10	9	1	4000 SF	\$2.42	\$9,680		\$9,680								÷	9,680							
6.8 Interior dry	wall	Interior Wall, Prep & Paint	8	6	2	2500 SF	\$0.84	\$2,100		٥	52,100						¢-	2,100						\$2,100		
6.8 Offices, rest		C3024 Vinyl Tile Flooring, Replace	15	15		100 SF	\$4.80		\$480	Ψ	52,100						72	2,100				\$480	1	72,100		
0.0 0111003, 1031	ti domis	D3032 Condensing Unit/Heat Pump, Split	13	13	Ü	100 31	γ·1.00	Ş-100	ŷ 100													φ-100				
7.1 Mezzanine		System, 4 Ton, Replace	15	11	4	1 EA	\$5,250.00	\$5,250					\$5,250												\$5,250	
		D3042 Exhaust Fan, Propeller, 2,000 CFM,					. ,	, ,					. ,													
7.1 Exterior Wa	ıll	Replace	15	12	3	1 EA	\$1,823.76	\$1,824			Ş	51,824												\$1,824		
		D3051 Furnace, Gas, 101 to 150 MBH,																								
7.1 Mezzanine		Replace	20	9	11	1 EA	\$1,658.87	\$1,659										Ş	1,659							
		D3051 Unit Heater, Natural Gas, 56 to 75																								
7.1 Auto Shop a	and Back Rooms	MBH, Replace	20	6	14	3 EA	\$4,467.67	\$13,403													\$13,40	3				
		D2023 Water Heater, Electric, Residential,																								
7.2 Mechanical	closet	30 to 52 GAL, Replace	15	8	7	1 EA	\$1,236.00	\$1,236							\$1,236											
7.4.4		D5012 Distribution Panel, 208 Y, 120 V, 400	20	4.5	40	4.54	60 407 05	60.400																60.400		
7.4 Mezzanine		Amp, Replace	30	12	18	1 EA	\$9,487.85																	\$9,488		
Jnescalated									. ,	\$9,680 \$			,		\$0 \$1,236			7,300 \$1	,	\$0 \$		3 \$2,545		\$13,412		
n Factor (1.00)	ion oomonoum-ll	annually)							\$0		\$0 `2.220. ć	\$0 \$1,003, ¢	\$0		\$0 \$0		\$0	\$0	\$0	\$0 \$		0 \$0				
Escalated (3.0% inflati	ion, compounded	annuaiiy)							\$154,1/2	\$9,970 \$	2,228 \$	1,993 \$	188,073	\$0	\$0 \$1,520	\$0	\$0 \$25	3,250 \$1	5,696	\$0 \$	U \$20,27	3 \$3,965	\$0 \$0	\$22,832	\$9,206	