

Capital Needs Assessment

Prepared for:

SAU-39 1 School Street Amherst, NH 03031



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Amherst Middle School

Amherst, NH

May 30, 2017

on-site-insight.com

Preliminary Report

Amherst Middle School: Property Overview

1



Total Buildings:

Total Area (sf) 112,000

Building Type	<u># Bldgs</u>
Elevator	1
Walk-up	
Townhouse	-
Totals:	1

Occupancy:		School
Financing:		Municipal
Property/Develop	oment Age:	45 years
Year of Construc	ction:	1972
Year of Most Re	cent Rehab:	2001
City & State:	Amherst,	NH 03031
Addresses:	14 Cross	Road

OSI Project Number:	17255
Assessment Date:	May 8, 2017
Assessment Conditions:	Cloudy, 50°F
Assessor:	David Jackson



Property Description:

This low-rise middle school was built in 1972 and expanded in 2001. The building is clad with brick and has multiple roof coverings: tar and gravel, rubber and PVC membranes, and architectural shingles. Windows are double glazed metal framed models. The central mechanical room houses the hydronic heat boilers which is controlled by an EMS. The classrooms have through-wall convectors (heat and fresh air). The building uses municipal water and has its own leaching field.



Executive Summary

Amherst Middle School

Amherst, NH

Amherst Middle School is a low-rise building that serves over 600 students in grades 5 through 8. The original building was built in 1972 and expanded most recently in 2001. Remarkable and excellent maintenance and service has helped to extend the useful life of many building systems and components. There are however several key needs that should be addressed in the near-term, including replacements of original roof coverings, classroom through-wall convectors (heat and ventilation), movable partitions in the pod classrooms, and asphalt paving repairs. Future capital actions are based on useful life expectations and assume continued effective maintenance and physical management. Costs for the twenty-year plan total \$4,081,666 or \$36.44 per square feet in in inflated dollars.

Site

The site, located on a large relatively flat parcel of land adjacent to municipal ball fields and near the Souhegan High School campus, features asphalt paved parking, driveways, walkways, and outdoor basketball courts, surrounding landscaping, masonry retaining walls, and a gravity fed leaching field.

1. Costs for the development's site related elements total \$520,242 or \$4.65 per square foot in inflated dollars.

- 2. The parking lots, driveways, and walkways have areas that are cracked and damaged. The cost to repair these surfaces (crack-fill, sealcoat, and re-stripe) is shown in Years 1, 6, and 16; resurfacing is shown in Year 11. The outdoor recreation area is in good condition and surface repairs are anticipated in Years 4, 9, and 13; resurfacing is shown toward the end of the plan in Year 17.
- 3. An allowance to replace a damaged wall section near a service area is shown in Year 1. The plan also includes an allowance to upgrade the landscaping in Year 12. The plan also includes the cost for future servicing to the septic system and leaching field, in Year 15.

Mechanical Room

The central mechanical room contains natural gas-fired systems: three condensing boilers to produce hydronic (forced hot water) heat and a domestic hot water (DHW) tank that serves the entire facility. The heating system is augmented with a pair of in-line fractional horsepower pumps used to distribute hydronic heat. Two additional DHW tanks are located in mechanical closets in other areas of the facility. The boiler plant is governed by an energy management system (EMS), which also controls the rooftop equipment (discussed in the Building Mechanical and Electrical report section), and monitors and controls space temperature throughout the building.

- 4. Costs related to the development's boilers and boiler room systems total \$298,903 or \$2.67 per square foot in inflated dollars.
- 5. The cost to upgrade the EMS is shown in Years 8 and 15. The boilers, pumps, and DHW tanks are to be replaced in Year 12.

Building Mechanical and Electrical Systems

Major building systems include the fire sprinkler system, distribution piping for hydronic heat, domestic hot and cold water, sanitary wastewater, and natural gas services, heating, ventilation and air conditioning (HVAC) services, electrical, fire detection, security, and elevators.

- 6. Costs related to the development's mechanical and electrical systems total \$680,007 or \$6.07 per square foot in inflated dollars.
- 7. The original through-wall convectors have been repaired and serviced to help extend their useful life. Some of these units appear to no longer have functioning outside air louvers which could impact the indoor air quality. A recent air quality study performed by a third party, showed several areas where carbon dioxide (CO₂) readings exceeded the desired level of 1,000 ppm (the maximum level for acceptable ventilation), indicating a need to provide reliable ventilation throughout the facility. The cost to replace the original through-wall convectors is shown over the first 2 years of the plan. The newer through-wall convectors are to be refurbished over a two-year period starting in Year 13.
- 8. The ceiling mounted air handlers, located in the industrial arts area, are original and are to be replaced in Year 3. The series of rooftop packaged units provide heating and cooling to specific areas of the building; each unit has a natural gas-fired combustion element and a direct expansion (DX) cooling coil; there are also several split DX air conditioning units each serving specific program/support areas. The rooftop units and the split DX air conditioners are to be replaced in Year 10. The air-cooled condensers for the commercial refrigeration units are also to be maintained as operating concerns. The exhaust fans are to be upgraded in Year 12.

- 9. An allowance to upgrade the video monitoring system, public address system, and the central clock is Years 3, 10, and 17. The generator, which provides 50 kW of emergency power, is to be replaced in Year 5. The fire alarm system is to be upgraded toward the end of the plan in Year 17.
- 10. The elevator, which appears to be lightly used, is maintained by a full service contract. The age of the equipment could not be determined but it possible that it is original. The cost for a major upgrade is shown in Year 7. Also, the cost to refurbish the elevator cab interior and door operators is shown in Years 7 and 19.

Building Architectural Systems and Program Areas

This building features flat roofs covered with a variety of membranes: fastened rubber, white PVC, and tar and gravel; the roofs have interior drains for drainage. There is also a pitched roof section that is covered with architectural shingles. The exterior walls are clad with brick. The windows are metal framed double glazed models. A metal frame storefront-type door is at the primary entrances. The secondary doors are single leaf solid metal models. Interior common areas include the classrooms, science labs, and industrial arts shops, hallways, stairways, a gymnasium, locker rooms and restrooms. The support areas feature the cafeteria with a stage, library, administration/support offices, and the central kitchen.

11. Costs related to the development's architectural systems total \$2,153,984 or \$19.23 per square foot in inflated dollars.

12. The cost to replace the caulking, in which there were sections found to be dried, cracked, and in some isolated areas voids were also noted, is shown in Years 1 and 16. Repainting of the lintels is also shown in Years 1 and 16. The brickwork appears to be in good condition and future repointing is shown in Year 16.

- 13. An allowance for anticipated failed window glazing replacement is shown starting in Year 8. Replacement of the secondary and service doors is shown in Year 18.
- 14. The original tar and gravel roof covering has been well-maintained to help extend the expected useful life significantly. There are sections that appear to show signs of minor water retention (ponding). The cost to replace this roof covering, is shown over a two-year period starting in Year 2. The existing PVC membrane has an isolated area in which the interior drain is higher than the surrounding membrane resulting in ponding; this issue is to be corrected in the first year of the plan. The costs to replace the PVC membrane and the rubber membrane are shown in Years 6 and 10, respectively. Preferably, the replacement roof coverings should be PVC membranes, which will provide a cooling benefit to the building during the summer months. The architectural shingles are to be replaced starting in Year 18.
- 15. The pod classrooms have movable partitions, which can be used to vary the size of these areas, however the partitions transmit sound between the classrooms and over time have become difficult to use. An allowance to replace these partitions with newer ones, designed to limit sound transmission and to also be easier to use is shown over the first 3 years of the plan. This item should be discussed at the client review meeting.
- 16. Wall repainting and ceiling tile and carpet replacement is shown every ten years starting in Year 8. Replacement of the vinyl composite tile (VCT) flooring is shown in Year 18.
- 17. An annual allowance to repair the lockers starts in the first year of the plan. Also, allowances to replace classroom furnishings and equipment start in Year 5.
- 18. Costs related to the school's support areas total \$428,530 or \$3.83 per square foot in inflated dollars.

19. Future replacement of ceiling panels and repainting in the other program areas is shown in Years 8 and 18. The VCT is to be replaced in Year 18. The Library furnishing and equipment replacement is shown starting in Years 9 and 19. The furnishing within the Cafeteria/Stage area is to be replaced in Year 15, and the equipment within this same space is to be replaced at the end of the plan in Year 20. In the central kitchen, the ceiling tiles are to be replaced and the walls repainted in Years 8 and 18. The linoleum sheet flooring is to be replaced in Year 15. The dishwasher is failing and is to be replaced in the first year of the plan. An allowance to replace the other appliances is shown in Year 15.

Additional Notes:

- 1. The Physical Assessment of the property was conducted on May 8, 2017. Additional information was provided to ON-SITE INSIGHT by site staff and others. OSI was represented on this assignment by David Jackson. We would like to thank site staff for their assistance.
- 2. Regular updates of this plan are recommended to ensure careful monitoring of major building systems and to adjust the program to accommodate unanticipated circumstances surrounding the buildings, operations, and/or occupants.
- 3. This report is delivered subject to the conditions on Appendix A, Statement of Delivery.

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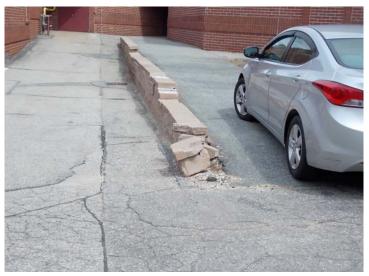
A block retaining wall at the student garden area.



A view of the asphalt paved parking lot.



A close-up of cracks in a section of the asphalt paving.



Damage on a section of asphalt paving and this wall.



Close-up of damage at this catch basin.



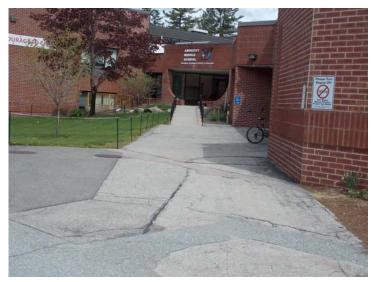
The paved play area.



A view of the front elevation.



A view of the side elevation of the older building section.



This is the main entrance.



One of the secondary entrances.



An example of a caulked building joint.



A close-up of missing caulking.



This elevation section shows the newer building wing on the left (arrow) and the older building wing on the right.



Peeling paint observed on an air intake grill on the older building section.



A close-up of a metal lintel that is showing rust along the front edge.



Tar and gravel roof covering on a building section.



In the foreground is a rubber membrane (black), and at the center is a PVC membrane including on a pitched roof section augmented with snow guards. Also shown is a pair of rooftop units.



A close-up of a roof drain that is seated above the membrane (which should be pitched to the drain). This is confirmed with the standing water to the right.



A close-up view of one of the solar light tubes.



This pitched roof section is covered with architectural shingles.



A classroom in the original building wing featuring ceiling tiles, VCT flooring, movable partitions and fixed walls.



A classroom in the newer building wing with ceiling tiles, VCT flooring and fixed walls.



The Gymnasium floor was refinished prior to the assessment.



A bank of lockers in the newer building wing.



A view of the Cafeteria; in the background is the stage.



This is the kitchen, which is adjacent to the Cafeteria.



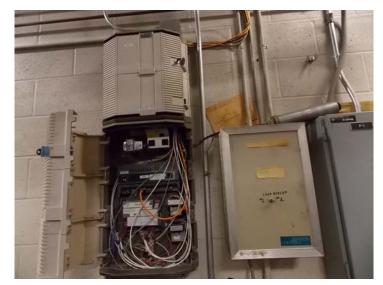
An outside view of the walk-in refrigerator/freezer. The air-cooled compressor is mounted on top.



One of the restrooms.



The group of natural gas-fired boilers used to produce hydronic heat.



The energy management system (EMS) panel in the mechanical room (opened for photo).



The pair of base-mounted 7.5 hp hydronic heat circulating pumps.



One of the natural gas-fired DHW tanks.



One of the original through-wall convectors.



A newer through-wall convector.



This air handler serves the Wood Shop



A view of the fire alarm control panel (FACP).



The fire sprinkler system includes this backflow preventer, which keeps stagnant sprinkler water from flowing back into the potable water system.



This is the diesel powered emergency generator; it produces 50 kW of power.



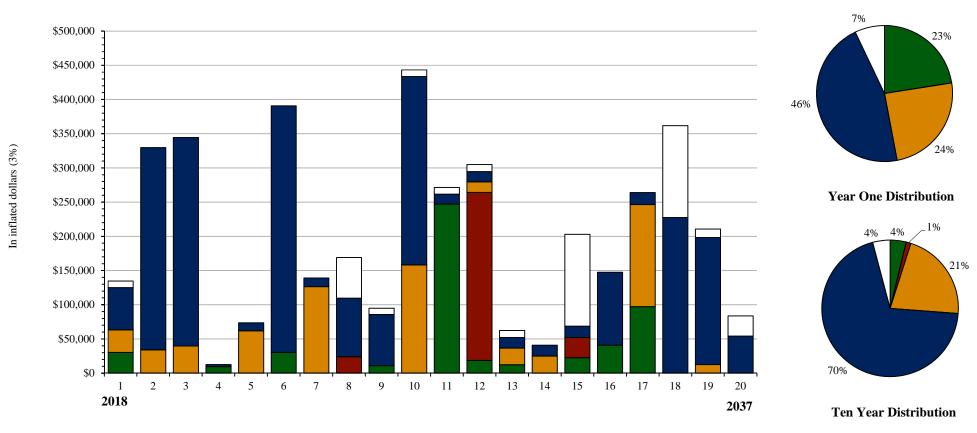
This is the school's waste compactor.



LED exterior light fixture.

Capital Needs Summary

Amherst Middle School



Total Costs by Building System (inflated dollars)

	In Year 1	In Years 1-10	In Years 1-20
Site Systems	\$30,320 or \$.27 / SF	\$81,203 or \$.73 / SF	\$520,242 or \$4.65 / SF
Mechanical Room		\$23,983 or \$.21 / SF	\$298,903 or \$2.67 / SF
Building Mech. & Elec.	\$33,000 or \$.29 / SF	\$453,396 or \$4.05 / SF	\$680,007 or \$6.07 / SF
Building Architectural	\$61,825 or \$.55 / SF	\$1,485,490 or \$13.26 / SF	\$2,153,984 or \$19.23 / SF
Program Areas	\$9,500 or \$.08/SF	\$87,660 or \$.78/SF	\$428,530 or \$3.83/SF
In inflated dollars:	\$134,645 or \$1.20/SF	\$2,131,732 or \$19.03/SF	\$4,081,666 or \$36.44/SF
In current dollars:	\$134,645 or \$1.20/SF	\$1,861,697 or \$16.62/SF	\$3,139,108 or \$28.03/SF

53%

10%

13%

Twenty Year Distribution

Capital Needs Summary

			OSI Ref:	17255			ber of Buildings:	1		
Amherst Middle School mherst, NH 03031			Property Age: Financing:	45 Years Municipal		Total N	Number of Units: Occupancy:	112000 School		
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Site Systems										
Surface	\$30,320	\$0	\$0	\$9,461	\$0	\$30,454	\$0	\$0	\$10,968	\$0
Site Distribution Systems	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Sub-Total	\$30,320	\$0	\$0	\$9,461	\$0	\$30,454	\$0	\$0	\$10,968	\$0
Mechanical Room										
Boilers	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,983	\$0	\$0
Boiler Room Systems	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Mechanical Sub-Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,983	\$0	\$0
Building Mech. & Electrical										
Mechanical	\$33,000	\$33,990	\$30,766	\$0	\$0	\$0	\$0	\$0	\$0	\$147,178
Electrical	\$0 \$0	\$0	\$9,018	\$0 \$0	\$61,903	\$0	\$0	\$0	\$0	\$11,091
Elevators	\$0	\$0	\$0	\$0	\$0	\$0	\$126,450	\$0	\$0	\$0
Mechanical & Electrical Sub-Total	\$33,000	\$33,990	\$39,784	\$0	\$61,903	\$0	\$126,450	\$0	\$0	\$158,269
Building Architectural										
Structural and Exterior	\$23,875	\$0	\$0	\$0	\$0	\$0	\$0	\$425	\$437	\$451
Roof Systems	\$1,200	\$257,798	\$265,532	\$0	\$0	\$348,185	\$0	\$0	\$0	\$261,257
Classrooms/Halls/Stairs	\$34,000	\$35,020	\$36,071	\$0	\$8,723	\$8,984	\$9,254	\$61,243	\$9,817	\$10,112
Gym/Restrooms/Locker Rms	\$2,750	\$2,833	\$2,917	\$3,005	\$3,095	\$3,188	\$3,284	\$23,982	\$64,465	\$3,588
Building Architectural Sub-Total	\$61,825	\$295,651	\$304,520	\$3,005	\$11,818	\$360,357	\$12,538	\$85,649	\$74,720	\$275,407
Support Areas										
Cafeteria/Stage	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19,276	\$0	\$0
Library	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$29,773	\$9,247	\$9,525
Admin Offices	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,665	\$0	\$0
Kitchen	\$9,500	\$0	\$0	\$0	\$0	\$0	\$0	\$5,674	\$0	\$0
Program Areas Sub-Total	\$9,500	\$0	\$0	\$0	\$0	\$0	\$0	\$59,388	\$9,247	\$9,525
Total Capital Costs	\$134,645	\$329,641	\$344,304	\$12,466	\$73,721	\$390,812	\$138,988	\$169,020	\$94,935	\$443,201

Costs on these two pages are aggregated by category from the Capital Needs worksheets which follow. Total capital costs on these two pages are carried forward to line F of the Replacement Reserve Analysis(es) that follow.

	2037	2036	2035	2034	2033	2032	2031	2030	2029	2028
	Year 20	Year 19	Year 18	Year 17	Year 16	Year 15	Year 14	Year 13	Year 12	Year 11
Site Systems										
Surface	\$0	\$0	\$0	\$97,254	\$40,928	\$0	\$0	\$12,344	\$18,687	\$247,136
Site Distribution Systems	\$0	\$0	\$0	\$0	\$0	\$22,689	\$0	\$0	\$0	\$0
Site Sub-Total	\$0	\$0	\$0	\$97,254	\$40,928	\$22,689	\$0	\$12,344	\$18,687	\$247,136
Mechanical Room										
Boilers	\$0	\$0	\$0	\$0	\$0	\$29,495	\$0	\$0	\$202,652	\$0
Boiler Room Systems	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$29,495 \$0	\$0 \$0	\$0 \$0	\$202,032 \$42,773	\$0 \$0
			ψυ			ψυ				
Mechanical Sub-Total	\$0	\$0	\$0	\$0	\$0	\$29,495	\$0	\$0	\$245,425	\$0
Building Mech. & Electric										
Mechanical	\$0	\$0	\$0	\$0	\$0	\$0	\$24,965	\$24,238	\$15,573	\$0
Electrical	\$0 \$0	\$0 \$0	\$0 \$0	\$149,238	\$0 \$0	\$0 \$0	\$24,905 \$0	\$24,238 \$0	\$15,575 \$0	\$0 \$0
Elevators	\$0 \$0	\$12,598	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Mechanical & Electrical Sub-Tot	\$0	\$12,598	\$0	\$149,238	\$0	\$0	\$24,965	\$24,238	\$15,573	\$0
Building Architectural										
Structural and Exterior	\$606	\$588	\$18,917	\$554	\$90,212	\$522	\$507	\$492	\$478	\$464
Roof Systems	\$0	\$0	\$11,336	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Classrooms/Halls/Stairs	\$48,674	\$47,256	\$115,375	\$12,436	\$12,074	\$11,723	\$11,381	\$11,050	\$10,728	\$10,415
Gym/Restrooms/Locker Rms	\$4,822	\$137,729	\$81,835	\$4,413	\$4,284	\$4,160	\$4,038	\$3,921	\$3,807	\$3,696
Building Architectural Sub-Total	\$54,102	\$185,573	\$227,463	\$17,404	\$106,571	\$16,405	\$15,927	\$15,463	\$15,012	\$14,575
			, , , , , , , , , , , , , , , , , , , ,			,		,		
Support Areas										
Cafeteria/Stage	\$16,658	\$0	\$67,277	\$0	\$0	\$45,378	\$0	\$0	\$0	\$0
Library	\$12,801	\$12,428	\$40,012	\$0	\$0	\$0	\$0	\$10,408	\$10,105	\$9,811
Admin Offices	\$0	\$0	\$19,390	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Kitchen	\$0	\$0	\$7,625	\$0	\$0	\$88,979	\$0	\$0	\$0	\$0
Program Areas Sub-Total	\$29,459	\$12,428	\$134,304	\$0	\$0	\$134,357	\$0	\$10,408	\$10,105	\$9,811
Total Capital Costs	\$83,560	\$210,599	\$361,767	\$263,896	\$147,499	\$202,945	\$40,892	\$62,453	\$304,802	\$271,521

			ement reserve balance: tributions to Reserves:		or \$00/unit or \$00/unit	Reserve Funding In Year 1 Replacement Reserve (RR) analysis starts here with the starting RR balance reported, or imputed, to have been on hand at the start of Year 1, and current annual RR contributions. The projections below reflect Starting RR Balance (Line A), plus the Total Annual RR Contributions (Line D) and Interest Earnings on RR (Line E), minus Total Annual Capital Costs (Line F), taken from the CNS above. This is expressed arithmetically as (A+D+E)-F=G, Year-End Balances, then carries forward to Line A of the following Year.							
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027		
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10		
(A) F	Reserve Balances												
	Starting Replacement Reserves	\$0	\$814,295	\$708,023	\$589,868	\$806,154	\$974,005	\$836,322	\$953,050	\$1,050,166	\$1,231,407		
(B) A	Annual Funding												
	Contributions Indexed at 3%	\$0	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2		
(C)	Additional Unit Contributions	\$1.75											
		2	2	2	2	2	2	2	2	2	2		
(D)	Total Annual Reserve Funding	\$196,000	\$196,000	\$201,880	\$207,936	\$214,174	\$220,600	\$227,218	\$234,034	\$241,055	\$248,287		
(E)	Interest on Reserves at 3%	\$2,940	\$27,369	\$24,269	\$20,815	\$27,397	\$32,529	\$28,498	\$32,102	\$35,121	\$40,667		
	Total Funds Available	\$198,940	\$1,037,664	\$934,172	\$818,620	\$1,047,726	\$1,227,134	\$1,092,038	\$1,219,186	\$1,326,343	\$1,520,361		
(F)	Total Capital Cost	\$134,645	\$329,641	\$344,304	\$12,466	\$73,721	\$390,812	\$138,988	\$169,020	\$94,935	\$443,201		
(G)	Reserve Balances	\$64,295	\$708,023	\$589,868	\$806,154	\$974,005	\$836,322	\$953,050	\$1,050,166	\$1,231,407	\$1,077,160		
	Outside Capital:	\$750,000											
	Adjusted Reserve Balances	\$814,295	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		

Notes:

1. Same starting reserve balance as shown in Plan 1.

In Year 1, \$750,000 is added to the reserve balance and the annual contribution is established at \$93,963 (\$1.75 per square foot).
 Plan is fully funded.

*ANNUAL RR CONTRIBUTIONS are shown being indexed for inflation at the % specified above except when Additional Contributions are called for.

Line C, Additional Contributions allows for material adjustments in annual RR funding that would enable the property to meet all projected needs out of reserves through Year 20.

**INTEREST EARNINGS ON RESERVES are calculated on 100% of starting balances and on 50% of the total annual contribution for the year at the rate shown

SITE SYSTEMS				(E:	xpected Useful 1	ife)		
Replacement Items	Quantity	Cost per unit in 2018 \$\$	Total Cost in 2018 \$\$	AGE (Years)	EUL (Years)	Replacemen Year of action AND		Notes
URFACE	(in the second s			(
								Asphalt paved; cracked and damaged areas observed
Parking/Driveways	65,071 sf	2.45	\$159,424	Varies	20	11	in 1 Year	Resurface in Year 11
0			<u> </u>					Cracks and surface damage observed. Crack-fill, sealcoat, and
Crack-Fill and Sealcoat	75,058 sf	0.35	\$26,270	Varies	5	1 /6 /16	in 1 Year	re-stripe in Years 1, 6, and 16
								Asphalt; cracks observed, included in Crack-fill/Sealcoat
Sidewalks	9,987 sf	2.45	\$24,468	Varies	20	11	in 1 Year	repair. Resurface in Year 11
		2.45	\$60,606	3		17	in 1 Year	Basketball courts and recreation area, in good condition
Outdoor Courts	24,737 sf	0.35	\$8,658	3	20	4 /9 /13	in 1 Year	Crack-fill/sealcoat/re-stripe Yrs 4, 9, 13. Resurface in Yr 17
	<u> </u>					-		Large masonry blocks at student garden, in good condition
Retaining Walls	105 lf		\$0	45	20			Maintain out of Operating
6								Damaged masonry block wall
Retaining Walls	45 lf	90.00	\$4,050	45	25	1	in 1 Year	Replace in Year 1
Fencing	lf							
Tenenig	"							
Dumpsters & Enclosures	ls							
Dumpsters & Enclosures	15							
Play Equipment	ls							
Flay Equipment	15							
Cite Linkting	1-							
Site Lighting	ls							
6. I. I.								
Site Lighting	ea	. <u></u>						
T 1 '		12500.00	¢12.500	15	<i>c</i> 0	12	. 1 17	Surround lawn, garden beds, and trees
Landscaping	<u> </u>	13500.00	\$13,500	45	60	12	in 1 Year	Upgrade allowance
Entry Signage	ea	·						
Storage Shed	ls							
Concession Stand Building	ls	·						
ITE DISTRIBUTION SYSTEM	15							
Gas Lines	<u> </u>	<u> </u>	\$0	45	60			Maintain out of Operating
Sanitary Lines	1 ls		\$0	45	60			Maintain out of Operating
Cold Water Lines	1 ls		\$0	45	60			Maintain out of Operating
Electric Distribution	<u>1</u> ls		\$0	45	60			Maintain out of Operating
								Gravity-fed, recent sewer line repair
Sanitary Leach fields	1 ls	15000.00	\$15,000	45	60	15	in 1 Year	Service allowance
Miscellaneous	lf							
	"					-		

Projected Capital Needs Over Twenty Years

Amherst Middle School

SITE SYSTEMS

	Costs projected	at 3%																Sľ	TE SYS	STEMS
Replacement Items	Year 1 2018	Year 2 2019	Year 3 2020	Year 4 2021	Year 5 2022	Year 6 2023	Year 7 2024	Year 8 2025	Year 9 2026	Year 10 2027	Year 11 2028	Year 12 2029	Year 13 2030	Year 14 2031	Year 15 2032	Year 16 2033	Year 17 2034	Year 18 2035	Year 19 2036	Year 20 2037
*																			SU	RFACE
Parking/Driveways	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$214,252	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Crack-Fill and Sealcoat	\$26,270	\$0	\$0	\$0	\$0	\$30,454	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40,928	\$0	\$0	\$0	\$0
Sidewalks	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$32,883	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Outdoor Courts	\$0	\$0	\$0	\$9,461	\$0	\$0	\$0	\$0	\$10,968	\$0	\$0	\$0	\$12,344	\$0	\$0	\$0	\$97,254	\$0	\$0	\$0
Retaining Walls	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Retaining Walls	\$4,050	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Fencing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Dumpsters & Enclosures	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Play Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Lighting	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Lighting	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Landscaping	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18,687	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Entry Signage	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Storage Shed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Concession Stand Building	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
																SI	TE DIST	RIBUT	ION SY:	STEMS
Gas Lines	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Sanitary Lines	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cold Water Lines	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Electric Distribution	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Sanitary Leach fields	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,689	\$0	\$0	\$0	\$0	\$0
Miscellaneous	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Amherst Middle School							
MECHANICAL ROOM					xpected Useful li		
Replacement Items	Quantity	Cost per unit in 2018 \$\$	Total Cost in 2018 \$\$	AGE (Years)	EUL (Years)	Replacement Schedule Year of action AND duration of project	Notes
BOILERS							
Boilers	3 ea	44100.00	\$132,300	8	20	12 in 1 Year	Natural gas-fired condensing PK Mach blrs (1050 MBH input) Replace in Year 12
							JCI Metasys, governs boiler plant and rooftop equipment
Controls - EMS	<u> </u>	19500.00	\$19,500	12	20	8 /15 in 1 Year	Allowance to upgrade in Years 8 and 15
Circulating Pumps	2 ea	7050.00	\$14,100	8	20	12 in 1 Year	Base-mounted 7.5 hp pumps Replace in Year 12
Circulating rumps	2 ea	/050.00	\$14,100	0			In-line fractional hp pumps
Boiler Secondary Pumps	<u>2</u> ea		\$0	45	25		Included in boiler plant replacement cost
Chilled Water Pumps	ls						
Cooling Water Pumps	ls						
Cooling water rumps	15						
Condensate & Feed Water	ea						
Variable Frequency Drives	ls						
Miscellaneous	ls						
							Ducted air source, sealed combustion
Combustion Air	<u> </u>		\$0	8	30		Maintain out of Operating Stainless steel (boilers) and CPVC (DHW tanks); in good
Flue Exhaust	<u> </u>		\$0	8	30		condition. Maintain out of Operating
BOILER ROOM SYSTEMS							
							No observed leaks or pipe corrosion
Boiler Room Piping/Valves	<u> </u>		\$0	Varies	25		Maintain out of Operating
Heat Exchanger	ea						
DHW Generation	3	10300.00	\$30,900	0	20	10 in 1 Voor	Natural gas-fired condensing: 199 MBH/230 gph/100 gal cap ea
DHW Generation	<u>3</u> ea	10500.00	\$30,900	8	20	12 in 1 Year	Replace in Year 12
DHW Storage	ea						
DHW Pumps	1 ls		\$0	45	20		Fractional hp in-line models Maintain out of Operating
Dirit rumps	1						Manhain out of Operating
DHW Pumps	ea						
Boiler Room Piping Insulation	<u> </u>		\$0	45	30		
Fuel Oil Storage	<u> </u>		\$0	45	25		Day tank for generator; maintain out of Operating
Fuel Oil Transfer System	ls						
Sump Pumps	ea						

Projected Capita	Costs projected		wenty	1 cal	3													r st Mic ECHAN		
Replacement Items	Year 1 2018	Year 2 2019	Year 3 2020	Year 4 2021	Year 5 2022	Year 6 2023	Year 7 2024	Year 8 2025	Year 9 2026	Year 10 2027	Year 11 2028	Year 12 2029	Year 13 2030	Year 14 2031	Year 15 2032	Year 16 2033	Year 17 2034	Year 18 2035	Year 19 2036	Year 20 2037
																			BO	DILER
Boilers	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$183,134	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Controls - EMS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,983	\$0	\$0	\$0	\$0	\$0	\$0	\$29,495	\$0	\$0	\$0	\$0	\$0
Sirculating Pumps	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19,518	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Boiler Secondary Pumps	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Chilled Water Pumps	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cooling Water Pumps	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Condensate & Feed Water	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ariable Frequency Drives	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
liscellaneous	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ombustion Air	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ue Exhaust	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
																	BOII	LER RO	OM SYS	STEM
oiler Room Piping/Valves	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
eat Exchanger	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HW Generation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$42,773	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HW Storage	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HW Pumps	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HW Pumps	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
oiler Room Piping Insulation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
uel Oil Storage	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
el Oil Transfer System	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ump Pumps	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

BUILDING MECHANICAL A	ND ELECTRICA	AL .		(Ex	pected Useful li	fe)	
Replacement Items	Quantity	Cost per unit in 2018 \$\$	Total Cost in 2018 \$\$	AGE (Years)	EUL (Years)	Replacement Schedule Year of action AND duration of project	Notes
BUILDING MECHANICAL							
							Connected to water main
Building Fire Suppression	<u> </u>		\$0	45	50		Backflow preventer in place; maintain out of Operating
							No observed or reported systemic problems
Hydronic Heat Distribution	<u> </u>		\$0	45	50		Maintain out of Operating
							No observed or reported systemic problems
Domestic Hot/Cold Water Dist.	<u>1</u> ls	. <u></u> .	\$0	45	50		Maintain out of Operating
							No observed or reported systemic problems
Building Sanitary Waste	<u> </u>	·	\$0	45	40		Maintain out of Operating
& Vent. Dist.							No observed or reported systemic problems
Building Gas Distribution	<u> </u>	·	\$0	45	50		Maintain out of Operating
							Trane units: gas heat and 15-tons of cooling
Rooftop Units	<u> </u>	21300.00	\$106,500	Varies	20	10 in 1 Year	Replace in Year 10
							Usefulness extended from servicing and repairs
Air Handler Unit	2 ea	14500.00	\$29,000	45	25	3 in 1 Year	Replace in Year 3
							Rooftop mounted condensers, terminal units in various areas
Split DX Air Conditioning	<u> </u>	2100.00	\$6,300	5	15	10 in 1 Year	Replace in Year 10
							Original through-wall hydronic fan coils
Convectors/Fan Coils - Old	24_ ea	2750.00	\$66,000	45	25	1 over 2 Years	Replace starting in Year 1
							Newer through-wall hydronic fan coils. Refurbish
Convectors/Fan Coils - New	20_ ea	1700.00	\$34,000	12	25	13 over 2 Years	starting in Year 13 (motor, coils, controls)
							Rooftop fans, in good condition
Exhaust Fans	<u> </u>	11250.00	\$11,250	Varies	20	12 in 1 Year	Upgrade in Year 12
Recirculating Fans	ea						
UILDING ELECTRICAL							Main switchgear, panels, and transformers
Building Power Wiring	1 ls		\$0	45	99		Monitor
Building Fower wirnig	I IS	·		45			ONAN 50 kW; lights and key bldg systems
Emergency Generator	1 ls	55000.00	\$55,000	45	35	5 in 1 Year	Replace in Yr 5
Emergency Generator	13		455,000				Replace in 115
Emergency Lights	ls						
							Notifier FACP w/hardwired detection and alarm devices
Smoke / Fire Detection	1 ls	84500.00	\$84,500	3	20	17 in 1 Year	Upgrade in Year 17
							Video monitoring, central clock, P/A system
Signaling / Communication	<u> </u>	8500.00	\$8,500	Varies	20	3 /10 /17 in 1 Year	Upgrade allowance
UILDING ELEVATORS							Dover hydraulic elevator
Shafts and Doorways	<u> </u>		\$0	45	35		Maintained by full service contract
							Cab interior and door operators not in service contract
Cabs	1 ea	7400.00	\$7,400	5	12	7 /19 in 1 Year	Allowance to refurbish in Years 7 and 19
							Major upgrade: hydraulic pump station, controller/dispatcher
Machine Room Equipment	<u> </u>	98500.00	\$98,500	45	35	7 in 1 Year	in Year 7
Service Lift	1 ls		\$0	45	35		

Projected Capital Needs Over Twenty Years

Costs projected at 3%													BUILDING MECHANICAL AND ELECTRICAL										
Replacement Items	Year 1 2018	Year 2 2019	Year 3 2020	Year 4 2021	Year 5 2022	Year 6 2023	Year 7 2024	Year 8 2025	Year 9 2026	Year 10 2027	Year 11 2028	Year 12 2029	Year 13 2030	Year 14 2031	Year 15 2032	Year 16 2033	Year 17 2034	Year 18 2035	Year 19 2036	Year 20 2037			
																	BUIL	DING N	IECHA	NICAL			
Building Fire Suppression	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Hydronic Heat Distribution	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Domestic Hot/Cold Water Dist.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Building Sanitary Waste & Vent. Dist.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Building Gas Distribution	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Rooftop Units	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$138,958	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Air Handler Unit	\$0	\$0	\$30,766	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Split DX Air Conditioning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,220	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Convectors/Fan Coils - Old	\$33,000	\$33,990	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Convectors/Fan Coils - New	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$24,238	\$24,965	\$0	\$0	\$0	\$0	\$0	\$0			
Exhaust Fans	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,573	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Recirculating Fans	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
																	BUI	LDING	ELECT	RICAL			
Building Power Wiring	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Emergency Generator	\$0	\$0	\$0	\$0	\$61,903	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Emergency Lights	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Smoke / Fire Detection	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$135,598	\$0	\$0	\$0			
Signaling / Communication	\$0	\$0	\$9,018	\$0	\$0	\$0	\$0	\$0	\$0	\$11,091	\$0	\$0	\$0	\$0	\$0	\$0	\$13,640	\$0	\$0	\$0			
																	BU	ILDING	ELEVA	TORS			
Shafts and Doorways	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Cabs	\$0	\$0	\$0	\$0	\$0	\$0	\$8,836	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,598	\$0			
Machine Room Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$117,614	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Service Lift	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			

BUILDING ARCHITECTURE							
Replacement Items	Quantity	Cost per unit in 2018 \$\$	Total Cost in 2018 \$\$	AGE (Years)	EUL (Years)	Replacement Schedule Year of action AND duration of project	Notes
TRUCTURE							
							Concrete slab
Foundation	<u>2,274</u> lf	·	\$0	45	50		Monitor
Framing	ls						
Slab	sf						
Miscellaneous	ls						
BUILDING EXTERIOR							Metal framed glass storefront type, varying sizes
Exterior Common Doors	4 ea		\$0	Varies	35		Maintain out of Operating
Automatic Door Openers	ea						
Automatic Door Openers	0						Solid core metal doors
Secondary Doors	<u> </u>	1200.00	\$9,600	Varies	35	18 in 1 Year	Replace
Service Doors	1	1500.00	\$1.500	12	20	19 in 1 Vaar	Double leaf metal doors, in good condition
Service Doors	<u> </u>	1500.00	\$1,500	12	30	18 in 1 Year	Replace
Storm Doors	ea						
	56,850 ttl sf						In good condition, no signs of cracks or deterioration
Exterior Walls - Brick	<u>2,843</u> sf	11.85	\$33,684	45	60	16 in 1 Year	Allowance for repointing in Year 16
Exterior Walls - Clean/Paint	sf						
							Areas of dried, cracked, caulking, with some openings
Exterior Caulking	<u> </u>	14500.00	\$14,500	Varies	15	1 /16 in 1 Year	Allowance to replace caulking in Years 1 and 16
Trim, Soffit & Fascia	ls						
Exterior Ceilings	ls						Metal framed double glazed
Window Frames	74_ea		\$0	12	35		Maintain out of Operating
							Metal, some rust observed on exposed edges
Window Lintels	<u> </u>	9375.00	\$9,375	45	65	1 /16 in 1 Year	Scrape, prime, and repaint in Years 1 and 16
Window Frames	ea						
							Allowance for glazing damage (breaks and fogging)
Window Glass	37_ ea	140.00	\$5,180	12	20	8 over 15 Years	starts in Year 8
Storm / Screen Windows	ls						
Balcony Railings	ea	·					
Fire Escapes	ea						
			<i>c</i> .		1-		LED wall-mounted
Bldg Mounted Lighting	<u> </u>		\$0	45	15		Maintain out of Operating

Projected Capital Needs Over Twenty Years Costs projected at 3%

Amherst Middle School

BUILDING ARCHITECTURE

	FJ																			
Replacement Items	Year 1 2018	Year 2 2019	Year 3 2020	Year 4 2021	Year 5 2022	Year 6 2023	Year 7 2024	Year 8 2025	Year 9 2026	Year 10 2027	Year 11 2028	Year 12 2029	Year 13 2030	Year 14 2031	Year 15 2032	Year 16 2033	Year 17 2034	Year 18 2035	Year 19 2036	Year 20 2037
																			STRU	CTURE
Foundation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Framing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Slab	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
																		BUILDIN		
Exterior Common Doors	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Automatic Door Openers	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Secondary Doors	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,867	\$0	\$0
Service Doors	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,479	\$0	\$0
Storm Doors	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Exterior Walls - Brick	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$52,478	\$0	\$0	\$0	\$0
Exterior Walls - Clean/Paint	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Exterior Caulking	\$14,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,591	\$0	\$0	\$0	\$0
Trim, Soffit & Fascia	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Exterior Ceilings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Window Frames	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Window Lintels	\$9,375	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,606	\$0	\$0	\$0	\$0
Window Frames	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Window Glass	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$425	\$437	\$451	\$464	\$478	\$492	\$507	\$522	\$538	\$554	\$571	\$588	\$606
Storm / Screen Windows	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Balcony Railings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Fire Escapes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Bldg Mounted Lighting	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

BUILDING ARCHITECTURI	Econtinued							
Replacement Items	Quantity	Cost per unit in 2018 \$\$	Total Cost in 2018 \$\$	AGE (Years)	EUL (Years)	-	nt Schedule	Notes
ROOF SYSTEMS								
								Wood framed, wood decking
Structure	48,752 sf		\$0	45	40			Monitor
								Original, good maintenance and repairs
Roof - Tar & Gravel	33,709 sf	14.85	\$500,579	45	20	2	over 2 Years	Replace starting in Year 2, consider PVC membrane
								In good condition
Roof - Rubber Membrane	13,484 sf	14.85	\$200,231	10	20	10	in 1 Year	Replace in Year 10, consider PVC membrane
	20,225 sf	14.85	\$300,347			/6	in 1 Year	Membrane ponding at section that is lower than drain
Roof - PVC Membrane	<u>1</u> ls	1200.00	\$1,200	18	20	1	in 1 Year	Repair in Year 1, replace in Year 6
								In good condition
Roof - Asphalt Shingles	1,559 sf	4.40	\$6,858	5	23	18	in 1 Year	Replace in Year 18
								Interior drains; existing drainage problem shown in Year 1
Roof Drainage	<u> </u>		\$0	Varies	40			under PVC Membrane.
								Channels light into interior spaces without glare
Solar Light Tubes	5 ea		\$0	5	25			Maintain out of Operating
Penthouses	ea							
Chimney	ls		<u> </u>					
CLASSROOMS								Painted
Walls	37,060 sf	0.70	\$25,942	Varies	10	8 /18	in 1 Year	Repaint in Years 8 and 18
								Suspended ceiling tiles
Ceilings	14,640 sf	1.10	\$16,104	Varies	10	8 /18	in 1 Year	Replace
								VCT, in good condition
Floors	14,640 sf	4.10	\$60,024	Varies	20	18	over 3 Years	Replace starting in Year 18
	20	2400.00	\$10 2 000		20			Durability and noise concerns. Replace w/sound
Movable Partitions	<u> </u>	3400.00	\$102,000	Varies	20	1	over 3 Years	attenuating and resilient folding partitions. Discuss
T · 1.4			¢0		25			Fluorescent fixtures
Lighting	<u> </u>	<u> </u>	\$0	Varies	25			Maintain out of Operating; consider LEDs -Discuss
Franciscure	1 1-	105000.00	¢105.000	Venier	20	5	20 X	Desks, chairs, tables, etc.
Furniture	<u> </u>	105000.00	\$105,000	Varies	20	5	over 20 Years	Replacement allowance Computers, projectors, screens, whiteboards, etc.
Equipment	1 ls	50000.00	\$50,000	Varias	25	5	over 20 Years	Replacement allowance
Equipment	I IS	30000.00	\$30,000	Varies		5	over 20 Tears	Replacement anowance
Miscellaneous	ls							
Miscelancous	15							
HALLS/STAIRS/LOBBY								Painted
Walls	24,850 sf	0.70	\$17,395	2	10	8 /18	over 2 Year	Repaint in Years 8 and 18
	24,000 31	0.70	φ <u>τ</u> , το το το				5.6. 2 Iou	Suspended ceiling tiles
Ceilings	14,640 sf	1.10	\$16,104	2	10	8 /18	over 2 Year	Replace
- · · · · · · · · · · · · · · · · · · ·	1,010 51						<u>2</u> 104	VCT, in good condition
Floors	14,640 sf	4.10	\$60,024	Varies	20	18	over 2 Year	Replace starting in Year 18
								Metal lockers, older ones with combination locks
Lockers	1 sf	55000.00	\$55,000	Varies	30	1	over 20 Year	Repair allowance
							<u> </u>	Fluorescent fixtures
Lighting	<u>1</u> ls		\$0	45	20			Maintain out of Operating; consider LEDs -Discuss

Projected Capital Needs Over Twenty Years Costs projected at 3%

Amherst Middle School

BUILDING ARCHITECTURE--continued

	Cosis projecie														mmea					
Replacement Items	Year 1 2018	Year 2 2019	Year 3 2020	Year 4 2021	Year 5 2022	Year 6 2023	Year 7 2024	Year 8 2025	Year 9 2026	Year 10 2027	Year 11 2028	Year 12 2029	Year 13 2030	Year 14 2031	Year 15 2032	Year 16 2033	Year 17 2034	Year 18 2035	Year 19 2036	Year 20 2037
																		RC	OF SYS	STEMS
Structure	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Roof - Tar & Gravel	\$0	\$257,798	\$265,532	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Roof - Rubber Membrane	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$261,257	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Roof - PVC Membrane	\$1,200	\$0	\$0	\$0	\$0	\$348,185	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Roof - Asphalt Shingles	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,336	\$0	\$0
Roof Drainage	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Solar Light Tubes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Penthouses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Chimney	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
																		(LASSR	OOMS
Walls	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$31,905	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$42,878	\$0	\$0
Ceilings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19,806	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$26,617	\$0	\$0
Floors	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$33,070	\$34,062	\$35,084
Movable Partitions	\$34,000	\$35,020	\$36,071	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Lighting	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Furniture	\$0	\$0	\$0	\$0	\$5,909	\$6,086	\$6,269	\$6,457	\$6,651	\$6,850	\$7,056	\$7,267	\$7,485	\$7,710	\$7,941	\$8,179	\$8,425	\$8,677	\$8,938	\$9,206
Equipment	\$0	\$0	\$0	\$0	\$2,814	\$2,898	\$2,985	\$3,075	\$3,167	\$3,262	\$3,360	\$3,461	\$3,564	\$3,671	\$3,781	\$3,895	\$4,012	\$4,132	\$4,256	\$4,384
Miscellaneous	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
																	н	ALLS/ST	TAIRS/I	LOBBY
Walls	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,697	\$11,018	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,376	\$14,807	\$0
Ceilings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,903	\$10,200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,309	\$13,708	\$0
Floors	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$49,605	\$51,093	\$0
Lockers	\$2,750	\$2,833	\$2,917	\$3,005	\$3,095	\$3,188	\$3,284	\$3,382	\$3,484	\$3,588	\$3,696	\$3,807	\$3,921	\$4,038	\$4,160	\$4,284	\$4,413	\$4,545	\$4,682	\$4,822
Lighting	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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BUILDING ARCHITECTURE	-continued			(Ex	spected Useful 1	ife)	
Replacement Items	Quantity	Cost per unit in 2018 \$\$	Total Cost in 2018 \$\$	AGE (Years)	EUL (Years)	Replacement Schedule Year of action AND duration of project	Notes
GYMNASIUM/LOCKER ROOM	S/RESTROOMS						
							Painted
Walls	2,835 sf	0.85	\$2,410	1	10	9 /19 in 1 Year	Repaint Painted
Ceilings	11,906 sf	0.85	\$10,120	1	10	9 /19 in 1 Year	Repaint
	11,906 sf						Floor recently refinished
Floors	<u>8,200</u> sf	2.30	\$18,860	1	10	9 /19 in 1 Year	Refinish in Years 9 and 19
Fixtures	<u> </u>		\$0	45	25		Maintain out of Operating
Accessories	<u> </u>		\$0	45	20		Maintain out of Operating
SUPPORT AREAS CAFETERIA and STAGE							
Walls	14,105 sf	0.70	\$9,874	2	10	8 /18 in 1 Year	Painted Repaint
w ans	14,105 \$1	0.70	\$9,074		10	o /10 III 1 1eai	Painted surface and supports
Ceilings	6,105 sf	0.95	\$5,800	2	10	8 /18 in 1 Year	Repaint
Floors	6,105 sf	4.10	\$25,031	2	20	18 in 1 Year	VCT, in good condition Replace
110013	0,105 31	4.10	\$25,051		20		Tables, benches, stage equipment
Furnishings	<u> </u>	30000.00	\$30,000	Varies	20	15 in 1 Year	Replacement allowance
Equipment	<u> </u>	9500.00	\$9,500	Varies	20	20 in 1 Year	Stage lighting, A/V system Replacement allowance
LIBRARY							
							Ceiling tiles, painted walls
Walls/Ceilings	9,942 sf	0.84	\$8,351	2	10	8 /18 in 1 Year	Replace tiles, repaint walls
Floors	5,766 sf	2.75	\$15,857	2	10	8 /18 in 1 Year	Carpet Replace, consider carpet tiles
							Tables, chairs, shelving, etc.
Furnishing	<u>1</u> ls	11500.00	\$11,500	Varies	10	9 /19 over 5 Years	Replacement allowance
Equipment	<u> </u>	25000.00	\$25,000	Varies	10	9 /19 over 5 Years	Computers Replacement allowance
Miscellaneous							
			. <u> </u>				
ADMIN/SUPPORT OFFICES							Ceiling tiles, painted walls
Walls/Ceilings	4,516 sf	0.84	\$3,793	2	10	8 /18 in 1 Year	Replace tiles, repaint walls VCT
Floor Covering	1,936 sf	4.10	\$7,938	Varies	20	18 in 1 Year	Replace
Equipment	<u> </u>		\$0	Varies	10		Desks, chairs, cabinets, computers, copier, etc. Maintain out of Operating
KITCHEN							Ceiling tiles, painted walls
Walls/Ceilings	5,492 sf	0.84	\$4,613	2	10	8 /18 in 1 Year	Replace tiles, repaint walls
Floors	2,447 sf	5.65	\$13,826	15	30	15 in 1 Year	Linoleum sheet, in good condition Replace in Year 15
							Stainless steel cabinets and countertops
Cabinets/Countertops	<u>1</u> ls	45000.00	\$0 \$45,000	45	20	15 in 1 Year	Maintain out of Operating Walk-in refrig/freezer, gas range, dishwasher, comm equip.
Appliances	<u> </u>	9500.00	\$9,500	45	25	1 in 1 Year	Replace dishwasher in Yr 1; future replacements in Yr 15

Projected Capital Needs Over Twenty Years

	Costs projected at 3% BUILDING ARCHITECTU														FECTU	REcor	ıtinued			
Replacement Items	Year 1 2018	Year 2 2019	Year 3 2020	Year 4 2021	Year 5 2022	Year 6 2023	Year 7 2024	Year 8 2025	Year 9 2026	Year 10 2027	Year 11 2028	Year 12 2029	Year 13 2030	Year 14 2031	Year 15 2032	Year 16 2033	Year 17 2034	Year 18 2035	Year 19 2036	Year 20 2037
														(GYMNAS	SIUM/LC	OCKER I	ROOMS	REST	ROOMS
Walls	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,053	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,102	\$0
Ceilings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,820	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,229	\$0
Floors	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,891	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$32,108	\$0
Fixtures	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Accessories	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
																		FETER		
Walls	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,143	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,319	\$0	\$0
Ceilings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,133	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,586	\$0	\$0
Floors	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$41,372	\$0	\$0
Furnishings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$45,378	\$0	\$0	\$0	\$0	\$0
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	20	\$0	\$0	\$0	\$0	\$0	\$16,658
																			LI	BRARY
Walls/Ceilings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,271	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,803	\$0	\$0
Floors	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19,501	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$26,208	\$0	\$0
Furnishing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,914	\$3,001	\$3,091	\$3,184	\$3,279	\$0	\$0	\$0	\$0	\$0	\$3,916	\$4,033
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,334	\$6,524	\$6,720	\$6,921	\$7,129	\$0	\$0	\$0	\$0	\$0	\$8,512	\$8,768
Miscellaneous	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Walls/Ceilings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,665	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	ADMI \$0	N/SUPP \$6,270	\$0 \$0	S0
Floor Covering	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,120	\$0	\$0
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
																			Kľ	ICHEN
Walls/Ceilings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,674	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,625	\$0	\$0
Floors	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,912	\$0	\$0	\$0	\$0	\$0
Cabinets/Countertops	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Appliances	\$9,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$68,067	\$0	\$0	\$0	\$0	\$0

Appendix A: Statement of Delivery

Our Capital Needs Assessment (the "CNA" or the "Report") on the subject property is delivered subject to the following terms and conditions:

- 1. The report and analysis may be relied upon by you as a description of the observed current conditions of the building and site improvements, only as of the date of this report, and with the knowledge that certain limitations and exceptions within the report that are the reflective of the scope of services as defined in our contract. Although care has been taken in the performance of this assessment, ON-SITE INSIGHT, Inc. (and/or its representatives) makes no representations regarding latent or concealed defects that may exist and no warranty or guarantee is expressed or implied. This report is made only in the best exercise of our ability and judgment. Conclusions reached in this report assume current and continuing responsible ownership and competent property management.
- 2. We have undertaken no formal evaluation of environmental concerns, including but not limited to asbestos containing materials (ACMs), lead-based paint, chlorofluorocarbons (CFCs), polychlorinated biphenyls (PCBs), and mildew/mold.
- 3. Conclusions in this report are based on estimates of the age and normal working life of various items of equipment and/or statistical comparisons. Actual conditions can alter the useful life of any item. When an item needs immediate replacement depends on many factors, including previous use/misuse, irregularity of servicing, faulty manufacture, unfavorable conditions, Acts of God and unforeseen circumstances. Certain components that may be working when we made our inspection might deteriorate or break in the future without notice.
- 4. To prepare this report, we used historic data on capital activities and costs, blueprints (when available), and current prices for capital actions. We have not independently verified this information, have assumed that it is reliable, but assume no responsibility for its accuracy.
- 5. Unless otherwise noted in the report, we assume that all building components meet code requirements in force when the property was built.
- 6. If accessibility issues are referenced in the report, the site elements, common areas, and dwelling units at the development were examined for compliance with the requirements of the Uniform Federal Accessibility Standards (UFAS), and for Massachusetts properties, the Massachusetts Architectural Accessibility Board (AAB). The methodology employed in undertaking this examination is adapted from a Technical Assistance Guide (TAG-88-11) titled "Supplemental Information About the Section 504 Transition Plan Requirements" published by the Coordination and Review section of the U.S. Department of Justice Civil Rights Division, and the AAB Rules and Regulations, 521 CMR effective July 10, 1987. The Guide also incorporates the requirements of UFAS, published April 1, 1988 by the General Services Administration, the Department of Defense, the Department of Housing and Urban Development, and the U.S. Postal Service. Changes in legislation and/or regulations may make some observations moot.
- 7. Response Actions and estimated costs of responses were developed by ON-SITE INSIGHT, Inc. If additional structural work is necessary, costs for some Response Actions may exceed estimates. Whenever the Response Action is to remove, reposition, or modify walls, a competent structural engineer should be retained before any work is done, because such investigation may disclose that a Response Action is either more costly than estimated, or is not possible.
- 8. Conclusions reached in this report assume current and continuing responsible ownership and competent property management. Any unauthorized reliance on or use of the report, including any of its information or conclusions, will be at the third party's sole risk. For the same reasons, no warranties or representation, express or implied in this report, are made to any such third party. Reliance on the report by the client and all authorized parties will be subject to the terms, conditions and limitations stated in the contract Terms and Conditions. The limitation of liability defined in the Terms and Conditions is the aggregate limit of ON-SITE INSIGHT's liability to the client and all relying parties.
- 9. Regular updates of this plan are recommended to ensure careful monitoring of major building systems and to adjust the program to accommodate unanticipated circumstances surrounding the buildings, operations, and/or occupants.