



# Facility Condition Assessment

Exeter-West Greenwich - Wawaloam School

June 2017

100 Victory Highway, Exeter, RI 02822





## Introduction

Wawaloam School, located at 100 Victory Highway in Exeter, Rhode Island, was built in 1951. It comprises 40,300 gross square feet. Each school across the district was visited three times during the Facility Condition Assessments by three teams of specialists in the spring/summer of 2016.

Wawaloam School serves grades KG - 2, has 27 instructional spaces, and has an enrollment of 313. Instructional spaces are defined as rooms in which a student receives education. The LEA reported capacity for Wawaloam School is 380 with a resulting utilization of 82%.

For master planning purposes a 5-year need was developed to provide an understanding of the current need as well as the projected needs in the near future. For Wawaloam School the 5-year need is \$3,061,427. The findings contained within this report resulted from an assessment of building systems performed by building professionals experienced in disciplines including: architecture, mechanical, plumbing, electrical, acoustics, hazardous materials, and technology infrastructure.



Figure 1: Aerial view of Wawaloam School



## Approach and Methodology

A facility condition assessment evaluates each building's overall condition. Two components of the facility condition assessment are combined to total the cost for facility need. The two components of the facility condition assessment are current deficiencies and life cycle forecast.

**Current Deficiencies:** Deficiencies are items in need of repair or replacement as a result of being broken, obsolete, or beyond useful life. The existing deficiencies that currently require correction are identified and assigned a priority. An example of a current deficiency might include a broken lighting fixture or an inoperable roof top air conditioning unit.

**Life Cycle Forecast:** Life cycle analysis evaluates ages of a building's systems to forecast system replacement as they reach the end of serviceable life. An example of a life cycle system replacement is a roof with a 20-year life that has been in place for 15 years and may require replacement in five years.

## Discipline Specialists

All assessment teams produced current deficiencies associated with each school. The assessment for the school facilities at the Rhode Island Department of Education included several specialties:

**Facility Condition Assessment:** Architectural, mechanical, and electrical engineering professionals observed conditions via a visual observation that did not include intrusive measures, destructive investigations, or testing. Additionally, the assessment incorporated input provided by district facilities and maintenance staff where applicable. The assessment team recorded existing conditions, identified problems and deficiencies, documented corrective action and quantities, and identified the priority of the repair in accordance with parameters defined during the planning phase. The team took digital photos at each school to better identify significant deficiencies.

**Technology:** Technology specialists visited RIDE facilities and met with technology directors to observe and assess each facility's technology infrastructure. The assessment included network architecture, major infrastructure components, classroom instructional systems, necessary building space and support for technology. The technology assessment took into account the desired technology outcome and best practices and processes to ensure results can be attained effectively.

**Hazardous Materials:** Schools constructed prior to 1990 were assessed by specialists to identify the presence of hazardous materials. The team focused on identifying asbestos containing building materials (ACBMs), lead-based painted (LBP) areas, polychlorinated biphenyls (PCBs), and chlorofluorocarbons (CFCs). As part of an indoor air and exterior air quality assessment, the team noted evidence of mold, water intrusion, mercury, and oil and hazardous materials (OHMs) exposure. If sampling and analysis was required, these activities were recommended but not included in the scope of work.

**Traffic:** A traffic specialist performed an in-office review of aerial imagery of the traffic infrastructure around the facilities in accordance with section 1.05-7 in the Rhode Island School Construction Regulations and reviewed data collected on site during the facility condition assessment. Based on this information, deficiencies and corrective actions were identified. High problem areas were identified for consideration of more detailed site-specific study and analysis in the future.

**Acoustics:** Specialists assessed each school's acoustics, including architectural acoustics, mechanical system noise and vibration, and environmental noise. The assessment team evaluated room acoustics with particular attention to the intelligibility of speech in learning spaces, interior and exterior sound isolation, and mechanical system noise and vibration control.

**Educational Program Space Assessment:** Teams evaluated schools to ensure that that all spaces adequately support the districts educational program. Standards are established for each classroom type or instructional space. Each space is evaluated to determine if it meets those standards and a listing of alterations that should be made to make the space a better environment for teaching and learning was created.



## System Summaries

The following tables summarize major building systems at the Wawaloam School campus, identified by discipline and building.

### Site

The site level systems for this campus include:

<b>Site</b>	Asphalt Parking Lot Pavement
	Asphalt Roadway Pavement
	Concrete Pedestrian Pavement

### Building Envelope

The exterior systems for the building(s) at this campus includes:

<b>01 - Main Building:</b>	Brick Exterior Wall
	E.I.F.S. Exterior Wall
	Metal Panel Exterior Wall
	Aluminum Exterior Windows
	Storefront / Curtain Wall
	Steel Exterior Entrance Doors

The roofing for the building(s) at this campus consists of:

<b>01 - Main Building:</b>	Composition Shingle Roofing
	EPDM Roofing

### Interior

The interior systems for the building(s) at this campus include:

<b>01 - Main Building:</b>	Interior Demountable Partitions
	Steel Interior Doors
	Overhead Interior Coiling Doors
	Interior Door Hardware
	Suspended Acoustical Grid System
	Suspended Acoustical Ceiling Tile
	Painted Ceilings
	Ceramic Tile Wall
	Vinyl/Fabric Wall Covering
	Interior Wall Painting
	Quarry Tile Flooring
	Ceramic Tile Flooring
	Vinyl Composition Tile Flooring
	Carpet



## Mechanical

The mechanical systems for the building(s) at this campus include:

<b>01 - Main Building:</b>	400 MBH Cast Iron Steam Boiler
	1,275 MBH Cast Iron Water Boiler
	Radiant Water Heater
	12 MBH Steam Unit Heater
	DDC Heating System Controls
	Pneumatic Heating System Controls
	5 Ton Condensing Unit
	Window Units
	5 HP Pump
	2-Pipe Hot Water Hydronic Distribution System
	2,000 CFM Interior AHU
	Ductwork
	Roof Exhaust Fan
	4'x6' Ventilator/Relief Vent

## Plumbing

The plumbing systems for the building(s) at this campus include:

<b>01 - Main Building:</b>	52 Gallon Electric Water Heater
	Domestic Water Piping System
	Classroom Lavatories
	Lavatories
	Mop/Service Sinks
	Refrigerated Drinking Fountain
	Restroom Lavatories
	Toilets
	Urinals
	Air Compressor (5 hp)

## Electrical

The electrical systems for the building(s) at this campus include:

<b>01 - Main Building:</b>	800 Amp Switchgear
	Panelboard - 120/208 125A
	Panelboard - 120/208 225A
	Building Mounted Lighting Fixtures
	Light Fixtures



## Facility Deficiency Priority Levels

Deficiencies were ranked according to five priority levels, with Priority 1 items being the most critical to address:

**Priority 1 – Mission Critical Concerns:** Deficiencies or conditions that may directly affect the school's ability to remain open or deliver the educational curriculum. These deficiencies typically relate to building safety, code compliance, severely damaged or failing building components, and other items that require near-term correction. An example of a Priority 1 deficiency is a fire alarm system replacement.

**Priority 2 - Indirect Impact to Educational Mission:** Items that may progress to a Priority 1 item if not addressed in the near term. Examples of Priority 2 deficiencies include inadequate roofing that could cause deterioration of integral building systems, and conditions affecting building envelopes, such as roof and window replacements.

**Priority 3 - Short-Term Conditions:** Deficiencies that are necessary to the school's mission but may not require immediate attention. These items should be considered necessary improvements required to maximize facility efficiency and usefulness. Examples of Priority 3 items include site improvements and plumbing deficiencies.

**Priority 4 - Long-Term Requirements:** Items or systems that may be considered improvements to the instructional environment. The improvements may be aesthetic or provide greater functionality. Examples include cabinets, finishes, paving, removal of abandoned equipment, and educational accommodations associated with special programs.

**Priority 5 - Enhancements:** Deficiencies aesthetic in nature or considered enhancements. Typical deficiencies in this priority include repainting, replacing carpet, improved signage, or other improvements to the facility environment.



The following chart summarizes this site's current deficiencies by building system and priority. The listing details current deficiencies including deferred maintenance, functional deficiencies, code compliance, capital renewal, hazardous materials and technology categories.

Table 1: System by Priority

System	Priority					Total	% of Total
	1	2	3	4	5		
Site	-	-	\$12,181	\$227,386	\$5,807	\$245,375	11.43 %
Roofing	-	-	-	\$724	-	\$724	0.03 %
Structural	-	-	-	-	-	\$0	0.00 %
Exterior	-	\$415,697	-	-	-	\$415,697	19.37 %
Interior	-	-	\$222,599	\$86,950	\$3,480	\$313,029	14.58 %
Mechanical	-	\$93,138	-	\$276,495	-	\$369,633	17.22 %
Electrical	-	-	-	-	\$3,970	\$3,970	0.18 %
Plumbing	-	-	\$1,255	-	\$33,338	\$34,593	1.61 %
Fire and Life Safety	-	-	-	-	-	\$0	0.00 %
Technology	-	-	\$758,979	-	-	\$758,979	35.36 %
Conveyances	-	-	-	-	-	\$0	0.00 %
Specialties	-	-	\$4,563	-	-	\$4,563	0.21 %
<b>Total</b>	\$0	\$508,835	\$999,578	\$591,556	\$46,595	\$2,146,564	

\*Displayed totals may not sum exactly due to mathematical rounding

The building systems with the most need include:

Technology	-	\$758,979
Exterior	-	\$415,697
Mechanical	-	\$369,633

The chart below represents the building systems and associated deficiency costs.

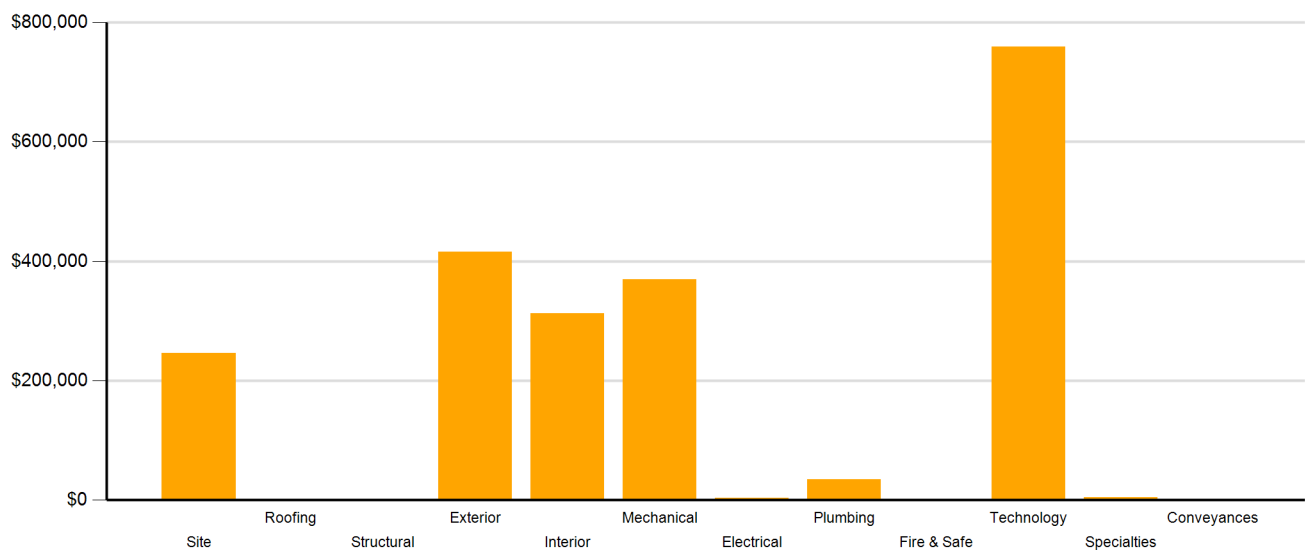


Figure 2: System Deficiencies



## Current Deficiencies by Category

Deficiencies have been further grouped according to the observed category.

- **Acoustics** deficiencies relate to room acoustics, sound insulation, and mechanical systems and vibration control modeled after ANSI/ASA Standard S12.60-2010 and ASHRAE Handbook, Chapter 47 on Sound and Vibration Control.
- **Barrier to Accessibility** deficiencies relate to the Americans with Disabilities Act and the Rhode Island Governors Commission on Disability. Additional items related to accessibility may be included other categories.
- **Capital Renewal** items have reached or exceeded serviceable life and require replacement. These are current and do not include life cycle capital renewal forecasts. Also included are deficiencies correcting planned work postponed beyond its regular life expectancy.
- **Code Compliance** deficiencies related to current codes. Many may fall under grandfather clauses, which allow buildings to continue operating under codes effective at the time of construction. However, there are instances where the level of renovation requires full compliance which are reflected in the master plan.
- **Educational Adequacy** deficiencies identify where facilities do not align with the Basic Education Program and the RIDE School Construction Regulations.
- **Functional Deficiencies** are deficiencies for components or systems that have failed before the end of expected life or are not the right application, size, or design.
- **Hazardous Materials** include deficiencies for building systems or components containing potentially hazardous material. The team focused on identifying asbestos containing building materials (ACBMs), lead based painted (LBP) areas, polychlorinated biphenyls (PCBs), and chlorofluorocarbons (CFCs). As part of an indoor air and exterior air quality assessment, the team noted evidence of mold, water intrusion, mercury, and oil and hazardous materials (OHMs) exposure. With other scopes of work there may be other costs associated with hazardous materials.
- **Technology** deficiencies relate to network architecture, technology infrastructure, classroom systems, and support. Examples of technology deficiencies include: security cameras, secure electronic access, telephone handsets, and dedicated air conditioning for telecommunication rooms.
- **Traffic** deficiencies relate to vehicle or pedestrian traffic, such as bus loops, crosswalks, and pavement markings.



The following chart and table represent the deficiency category by priority. This listing includes current deficiencies for all building systems.

Table 2: Deficiency Category by Priority

Category	Priority					Total
	1	2	3	4	5	
Acoustics	-	-	\$183,114	\$47,844	-	\$230,958
Barrier to Accessibility	-	-	\$1,255	-	-	\$1,255
Capital Renewal	-	\$508,835	\$51,667	\$502,416	-	\$1,062,917
Code Compliance	-	-	-	-	-	\$0
Educational Adequacy	-	-	\$50,197	\$28,329	\$46,595	\$125,121
Functional Deficiency	-	-	-	-	-	\$0
Hazardous Material	-	-	-	\$12,968	-	\$12,968
Technology	-	-	\$713,346	-	-	\$713,346
Traffic	-	-	-	-	-	\$0
<b>Total</b>	\$0	\$508,835	\$999,578	\$591,556	\$46,595	\$2,146,564

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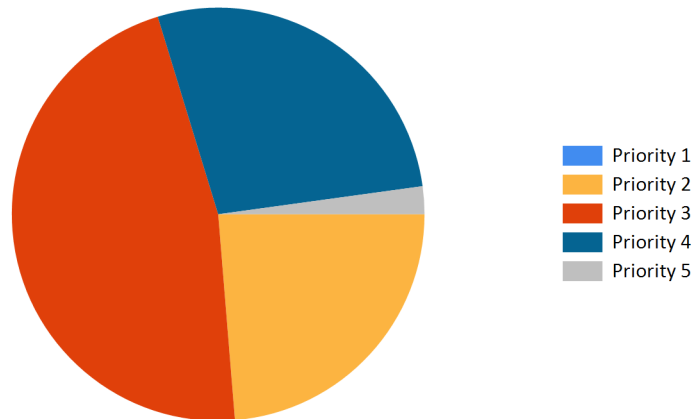


Figure 3: Current deficiencies by priority



### Life Cycle Capital Renewal Forecast

During the facility condition assessment, assessors inspected all major building systems. If a need for immediate replacement was identified, a deficiency was created with the estimated repair costs. The identified deficiency contributes to the facility's total current repair costs.

Capital planning scenarios span multiple years, as opposed to being constrained to immediate repairs. Construction projects may begin several years after the initial facility condition assessment. Therefore, in addition to the current year repair costs, it is necessary to forecast the facility's future costs using a 5-year life cycle renewal forecast model.

Life cycle renewal is the projection of future building system costs based upon each individual system's expected serviceable life. Building systems and components age over time, eventually break down, reach the end of their useful lives, and may require replacement. While an item may be in good condition now, it might reach the end of its life before a planned construction project occurs.

The following chart shows all current deficiencies and the subsequent 5-year life cycle capital renewal projections. The projections outline costs for major building systems in which a component is expected to reach the end of its useful life and require capital funding for replacement.

Table 3: Capital Renewal Forecast

System	Current Deficiencies	Life Cycle Capital Renewal Projections					LC Yr. 1-5 Total	Total 5-Year Need
		Year 1 2017	Year 2 2018	Year 3 2019	Year 4 2020	Year 5 2021		
Site	\$245,375	\$0	\$0	\$162,118	\$0	\$0	\$162,118	\$407,493
Roofing	\$724	\$0	\$0	\$0	\$0	\$0	\$0	\$724
Structural	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Exterior	\$415,697	\$0	\$0	\$0	\$0	\$54,152	\$54,152	\$469,849
Interior	\$313,029	\$247,637	\$0	\$0	\$0	\$33,716	\$281,353	\$594,382
Mechanical	\$369,633	\$0	\$0	\$0	\$0	\$0	\$0	\$369,633
Electrical	\$3,970	\$0	\$0	\$25,374	\$0	\$239,457	\$264,831	\$268,801
Plumbing	\$34,593	\$0	\$0	\$32,765	\$0	\$0	\$32,765	\$67,358
Fire and Life Safety	\$0	\$0	\$0	\$118,119	\$0	\$0	\$118,119	\$118,119
Technology	\$758,979	\$0	\$0	\$0	\$0	\$0	\$0	\$758,979
Conveyances	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Specialties	\$4,563	\$0	\$0	\$0	\$0	\$0	\$0	\$4,563
<b>Total</b>	<b>\$2,146,564</b>	<b>\$247,637</b>	<b>\$0</b>	<b>\$338,376</b>	<b>\$0</b>	<b>\$327,325</b>	<b>\$913,338</b>	<b>\$3,059,902</b>

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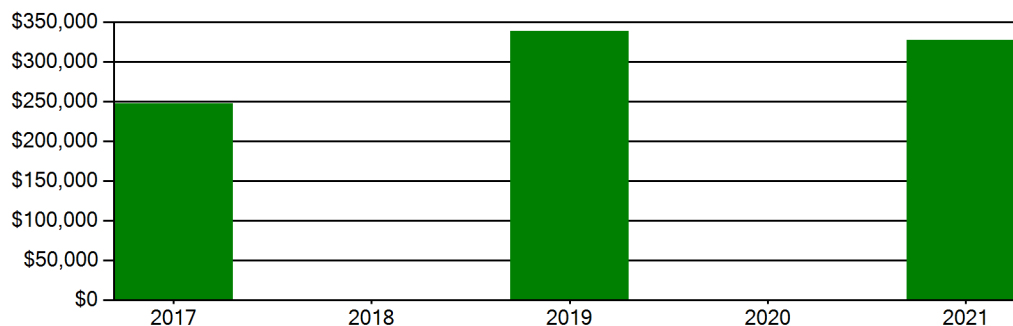
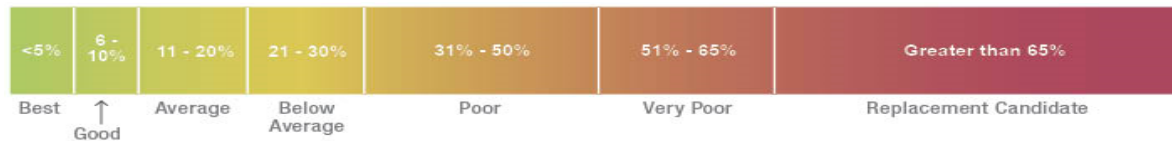


Figure 4: Life Cycle Capital Renewal Forecast



## Facility Condition Index (FCI)

The Facility Condition Index (FCI) is used throughout the facility condition assessment industry as a general indicator of a building’s health. Since 1991, the facility management industry has used an index called the FCI to benchmark the relative condition of a group of schools. The FCI is derived by dividing the total repair cost, including educational adequacy and site-related repairs, by the total replacement cost. A facility with a higher FCI percentage has more need, or higher priority, than a facility with a lower FCI. It should be noted that costs in the New Construction category are not included in the FCI calculation.



Financial modeling has shown that over a 30-year period, it is more cost effective to replace than repair schools with a FCI of 65 percent or greater. This is due to efficiency gains with facilities that are more modern and the value of the building at the end of the analysis period. It is important to note that the FCI at which a facility should be considered for replacement is typically debated and adjusted based on property owners and facility managers approach to facility management. Of course, FCI is not the only factor used to identify buildings that need renovation, replacement, or even closure. Historical significance, enrollment trends, community sentiment, and the availability of capital are additional factors that are analyzed when making school facility decisions.

For master planning purposes, the total current deficiencies and the first five years of projected life cycle needs were combined. This provides an understanding of the current needs of a facility as well as the projected needs in the near future. A 5-year FCI was calculated by dividing the 5-year need by the total replacement cost. Costs associated with new construction are not included in the FCI calculation.

The replacement value represents the estimated cost of replacing the current building with another building of like size, based on today’s estimated cost of construction in the Providence, Rhode Island area. The estimated replacement cost for this facility is \$14,105,000. For planning purposes, the total 5-year need at the Wawaloam School is \$3,061,427 (Life Cycle Years 1-5 plus the FCI deficiency cost). The Wawaloam School facility has a 5-year FCI of 21.69%.

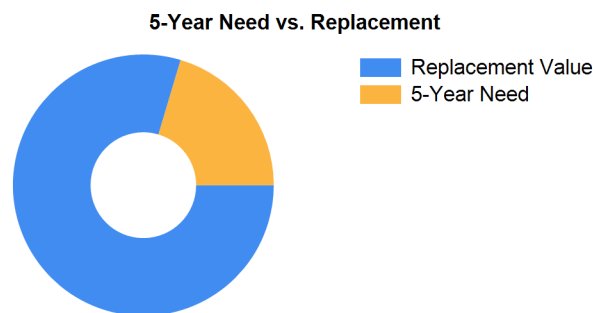


Figure 5: 5-Year FCI

It is important to reiterate that this FCI replacement threshold is not conclusive, but is intended to initiate planning discussion in which other relevant issues with regard to a facility’s disposition must be incorporated. This merely suggests where conversations regarding replacement might occur.



## Rhode Island Aspirational Capacity

The capacity of a school reflects how many students the school's physical facility can effectively serve. There are various methodologies that exist to calculate capacity. It is not uncommon to review an existing building only to find that the capacity that had once been assigned is greater than what can be reasonably accommodated today. This is primarily because of a change in how programs are delivered.

The Rhode Island Aspirational Capacity is based on the Rhode Island School Construction Regulations (SCRs) and is an aspirational goal of space use. The capacity for each individual public school in the state of Rhode Island was designed to conform to Section 1.06-2 Space Allowance Guidelines of the Rhode Island Department of Education (RIDE) SCRs. These regulations outline the allowed gross square feet (GSF) per student at each school type (ES, MS, HS) by utilizing a sliding scale based on projected enrollment. The resulting capacities reflect how school capacities align to the SCRs for new construction. The existing enrollment was multiplied by the GSF per student for the appropriate bracket. For the purposes of this analysis, Pre-K centers were rolled into the elementary totals, and K-8 facilities were counted as middle schools.

The most consistent and equitable way a state can determine school capacities across a variety of districts and educational program offerings is to use square-foot-per-student standards. In contrast, in the 2013 Public Schoolhouse Assessment Report, LEAs self-reported capacities for their elementary, middle and high schools. Districts typically report "functional capacity," which is defined as the number of students each classroom can accommodate. Functional capacity counts how many students can occupy a space, not how much room students and teachers have within that space. For example, a 650-square-foot classroom and a 950-square-foot classroom can both have a reported capacity of 25 students, but the actual teaching and learning space per student varies greatly.

The variation in square feet per student impacts the kinds of teaching practices possible in each space. The lowest allocation of space per student restricts group and project-based learning strategies and requires teachers to teach in more traditional, lecture-style formats, due to a lack of space. Furthermore, the number of students that can be accommodated in a classroom does not account for access to sufficient common spaces such as libraries, cafeterias, and gymnasiums. When cafeterias are undersized relative to the population, schools must host four or more lunch periods a day, resulting in some students eating lunch mid-morning and some mid-afternoon. Similarly, undersized libraries and gymnasiums create scheduling headaches for schools and restrict student access. Finally, a classroom count-only approach to school capacity does not consider the inherent scheduling challenges schools face.

Applying the Rhode Island Aspirational Capacity, a facility of this size could ideally support an enrollment of approximately 224 students.

## Facility New Construction

As part of the Educational Program Space Assessment, select core spaces were compared to the RI School Construction Regulations. If it was determined that a facility was in need of square footage related to a cafeteria or library/media center, a cost for additional space was estimated. This cost is not included in the total 5-year need or the 5-year FCI calculation.

The New Construction cost to bring the Wawaloam School cafeteria and/or library/media center to the size prescribed by the SCRs is estimated to be \$181,440.



## Summary of Findings

The Wawaloam School comprises 40,300 square feet and was constructed in 1951. Current deficiencies at this school total \$2,148,089. Five year capital renewal costs total \$913,338. The total identified need for the Wawaloam School (current deficiencies and 5-year capital renewal costs) is \$3,061,427. The 5-year FCI is 21.69%.

Table 4: Facility Condition by Building

	Gross Sq Ft	Year Built	Current Deficiencies	LC Yr. 1-5 Total	Total 5 Yr Need (Yr 1-5 + Current Defs)	5-Year FCI
<b>Wawaloam School Totals</b>	<b>40,300</b>	<b>1951</b>	<b>\$2,148,089</b>	<b>\$913,338</b>	<b>\$3,061,427</b>	<b>21.69%</b>

*\*Displayed totals may not sum exactly due to mathematical rounding*

The following pages provide a listing of all current deficiencies and 5-year life cycle need and the associated costs, followed by photos taken during the assessment.

## Cost Estimating

Cost estimates are derived from local cost estimating expertise and enhanced by industry best practices, historical cost data, and relevance to the Rhode Island region. Costs have been developed from current market rates as of the 2nd quarter in 2016. All costs are based on a replace-in-kind approach, unless the item was not in compliance with national or state regulations or standards.

For planning and budgeting purposes, facility assessments customarily add a soft cost multiplier onto deficiency repair cost estimates. This soft cost multiplier accounts for costs that are typically incurred when contracting for renovation and construction services. Soft costs typically include construction cost factors, such as contractor overhead and profit, as well as labor and material inflation, professional fees, and administrative costs. Based on the Rhode Island School Construction Regulations, a soft cost multiplier of 20% is included on all cost estimates. Other project allowances are included in the cost estimates based on school attributes such as age, location, and historic designation. All stated costs in the assessment report will include soft costs for planning and budgeting purposes. These are estimates, and costs will vary at the time of construction.



## Site Level Deficiencies

### Site

Deficiency	Category	Qty	UoM	Priority	Repair Cost	ID
Concrete Walks Require Replacement	Capital Renewal	600	SF	3	\$12,181	964
Asphalt Paving Requires Replacement	Capital Renewal	68	CAR	4	\$199,057	967
Backstops Require Replacement	Educational Adequacy	1	Ea.	4	\$28,329	28474
<b>Note:</b> Backstops Require Replacement						
Exterior Basketball Goals are Required	Educational Adequacy	1	Ea.	5	\$5,807	28740
<b>Note:</b> Exterior Basketball Goals are Required						
	<b>Sub Total for System</b>	<b>4</b>	<b>items</b>		<b>\$245,375</b>	
	<b>Sub Total for School and Site Level</b>	<b>4</b>	<b>items</b>		<b>\$245,375</b>	

## Building: 01 - Main Building

### Roofing

Deficiency	Category	Qty	UoM	Priority	Repair Cost	ID
Canopies Require Painting	Capital Renewal	60	SF	4	\$724	998
<b>Note:</b> Columns, soffit and fascia at canopy on north entrance need paint						
	<b>Sub Total for System</b>	<b>1</b>	<b>items</b>		<b>\$724</b>	

### Exterior

Deficiency	Category	Qty	UoM	Priority	Repair Cost	ID
The EIFS Exterior Requires Replacement (Bldg SF)	Capital Renewal	20,150	SF	2	\$415,697	985
	<b>Sub Total for System</b>	<b>1</b>	<b>items</b>		<b>\$415,697</b>	

### Interior

Deficiency	Category	Qty	UoM	Priority	Repair Cost	ID
Classroom Entry Doors Provide Insufficient Sound Isolation	Acoustics	22	Ea.	3	\$183,114	4745
<b>Note:</b> All classroom						
The Vinyl Composition Tile Requires Replacement	Capital Renewal	3,442	SF	3	\$39,486	980
<b>Note:</b> Corridor VCT in 1998 addition needs replacing						
Paint (probable pre-1978 in base layer(s)) - damaged area < 9 sq. ft. OR overall worn AND in children-accessible area (measurement unit - each)	Hazardous Material	17	Ea.	4	\$4,849	Rollup
Paint (probable pre-1978 in base layer(s)) - damaged area < 9 sq. ft. OR overall worn AND in children-accessible area (measurement unit - linear feet)	Hazardous Material	200	LF	4	\$4,563	Rollup
Paint (probable pre-1978 in base layer(s)) - damaged area < 9 sq. ft. OR overall worn AND in children-accessible area (measurement unit - square feet)	Hazardous Material	374	SF	4	\$3,556	Rollup
Room Is Excessively Reverberant	Acoustics	1,500	SF	4	\$13,048	4746
<b>Note:</b> Gym						
Room Is Excessively Reverberant	Acoustics	4,000	SF	4	\$34,796	4747
<b>Note:</b> Cafeteria						
The Stone/Quarry Flooring Requires Replacement	Capital Renewal	574	SF	4	\$26,139	978
<b>Note:</b> Quarry tile in original boys and girls toilet rooms						
Room lacks appropriate sound control.	Educational Adequacy	100	SF	5	\$3,480	Rollup
	<b>Sub Total for System</b>	<b>9</b>	<b>items</b>		<b>\$313,029</b>	

### Mechanical

Deficiency	Category	Qty	UoM	Priority	Repair Cost	ID
Steam/HW Unit Heater Requires Replacement	Capital Renewal	32	Ea.	2	\$76,421	961
Steam/HW Unit Heater Requires Replacement	Capital Renewal	7	Ea.	2	\$16,717	963
Existing Controls Are Inadequate And Should Be Replaced With DDC Controls	Capital Renewal	20,150	SF	4	\$121,328	1840
Existing Controls Are Inadequate And Should Be Replaced With DDC Controls	Capital Renewal	20,150	SF	4	\$136,107	1841
<b>Note:</b> Replace pneumatic controls with new DDC controls.						
Small HVAC Circulating Pump Requires Replacement	Capital Renewal	2	Ea.	4	\$19,060	954
	<b>Sub Total for System</b>	<b>5</b>	<b>items</b>		<b>\$369,633</b>	



# Facility Condition Assessment

Exeter-West Greenwich - Wawaloam School

## Electrical

Deficiency	Category	Qty	UoM	Priority	Repair Cost	ID
Room Has Insufficient Electrical Outlets	Educational Adequacy	8	Ea.	5	\$3,970	Rollup
<b>Sub Total for System</b>		<b>1</b>	<b>items</b>		<b>\$3,970</b>	

## Plumbing

Deficiency	Category	Qty	UoM	Priority	Repair Cost	ID
The Restroom Grab Bars Are Not ADA Compliant	Barrier to Accessibility	2	Ea.	3	\$1,255	979
<b>Note:</b> Girls toilet rooms missing grab bars only						
Room lacks a drinking fountain.	Educational Adequacy	21	Ea.	5	\$23,159	Rollup
The Class Room Lavatories Plumbing Fixtures Are Missing And Should Be Installed	Educational Adequacy	10	Ea.	5	\$10,179	Rollup
<b>Sub Total for System</b>		<b>3</b>	<b>items</b>		<b>\$34,593</b>	

## Technology

Deficiency	Category	Qty	UoM	Priority	Repair Cost	ID
Room lacks Interactive White Board	Educational Adequacy	8	Ea.	3	\$45,633	Rollup
Technology: Campus network switching electronics are antiquated and/or do not meet standards.	Technology	72	Ea.	3	\$34,225	3388
Technology: Classroom AV/Multimedia systems are in need of improvements.	Technology	23	Ea.	3	\$218,660	3392
Technology: Instructional spaces do not have local sound reinforcement.	Technology	22	Ea.	3	\$104,577	3391
Technology: Main Telecommunications Room ground system is inadequate or non-existent.	Technology	1	Ea.	3	\$6,655	3386
Technology: Main Telecommunications Room is not dedicated and/or inadequate.	Technology	1	Ea.	3	\$50,197	3385
Technology: Network cabling infrastructure is outdated (Cat 5 or less) and/or does not meet standards.	Technology	100	Ea.	3	\$42,781	3389
Technology: Network system inadequate and/or near end of useful life	Technology	1	Ea.	3	\$7,606	3396
Technology: Network system inadequate and/or near end of useful life	Technology	13	Ea.	3	\$61,795	3397
Technology: PA/Bell/Clock system is inadequate and/or near end of useful life.	Technology	40,300	SF	3	\$68,964	3393
Technology: Special Space AV/Multimedia system is inadequate.	Technology	1	Ea.	3	\$54,190	3390
Technology: Telecommunications Room (small size room) needs dedicated cooling system improvements.	Technology	1	Ea.	3	\$4,753	3387
Technology: Telephone handsets are inadequate and sparsely deployed throughout the campus.	Technology	34	Ea.	3	\$51,718	3394
Technology: Telephone system is inadequate and/or non-existent.	Technology	1	Ea.	3	\$7,225	3395
<b>Sub Total for System</b>		<b>14</b>	<b>items</b>		<b>\$758,979</b>	

## Specialties

Deficiency	Category	Qty	UoM	Priority	Repair Cost	ID
Room has insufficient writing area.	Educational Adequacy	1	Ea.	3	\$4,563	Rollup
<b>Sub Total for System</b>		<b>1</b>	<b>items</b>		<b>\$4,563</b>	
<b>Sub Total for Building 01 - Main Building</b>		<b>35</b>	<b>items</b>		<b>\$1,901,190</b>	
<b>Total for Campus</b>		<b>39</b>	<b>items</b>		<b>\$2,146,564</b>	



## Wawaloam School - Life Cycle Summary Yrs 1-5

### Site Level Life Cycle Items

#### Site

Uniformat Description	LC Type Description	Qty	UoM	Repair Cost	Remaining Life
Parking Lot Pavement	Asphalt	32	CAR	\$105,873	3
Roadway Pavement	Asphalt	17	CAR	\$56,245	3
		<b>Sub Total for System</b>	<b>2 items</b>	<b>\$162,118</b>	
		<b>Sub Total for Building -</b>	<b>2 items</b>	<b>\$162,118</b>	

### Building: 01 - Main Building

#### Exterior

Uniformat Description	LC Type Description	Qty	UoM	Repair Cost	Remaining Life
Exterior Operating Windows	Aluminum - Windows per SF	320	SF	\$54,152	5
		<b>Note:</b> Original building;			
		(20) 4x4			
		<b>Sub Total for System</b>	<b>1 items</b>	<b>\$54,152</b>	

#### Interior

Uniformat Description	LC Type Description	Qty	UoM	Repair Cost	Remaining Life
Wall Painting and Coating	Painting/Staining (Bldg SF)	37,479	SF	\$247,637	1
Suspended Plaster and	Painted ceilings	8,060	SF	\$33,716	5
		<b>Sub Total for System</b>	<b>2 items</b>	<b>\$281,352</b>	

#### Electrical

Uniformat Description	LC Type Description	Qty	UoM	Repair Cost	Remaining Life
Lighting Fixtures	Building Mounted Fixtures (Ea.)	17	Ea.	\$25,374	3
Lighting Fixtures	Light Fixtures (Bldg SF)	40,300	SF	\$239,457	5
		<b>Sub Total for System</b>	<b>2 items</b>	<b>\$264,831</b>	

#### Plumbing

Uniformat Description	LC Type Description	Qty	UoM	Repair Cost	Remaining Life
Plumbing Fixtures	Refrigerated Drinking Fountain	4	Ea.	\$29,510	3
Domestic Water Equipment	Water Heater - Electric - 52 gallon	1	Ea.	\$3,255	3
		<b>Note:</b> 52 gallon electric water heater			
		<b>Sub Total for System</b>	<b>2 items</b>	<b>\$32,765</b>	

#### Fire and Life Safety

Uniformat Description	LC Type Description	Qty	UoM	Repair Cost	Remaining Life
Fire Detection and Alarm	Fire Alarm	40,300	SF	\$118,119	3
		<b>Sub Total for System</b>	<b>1 items</b>	<b>\$118,119</b>	
		<b>Sub Total for Building 01 - Main Building</b>	<b>8 items</b>	<b>\$751,219</b>	
		<b>Total for: Wawaloam School</b>	<b>10 items</b>	<b>\$913,336</b>	



## Supporting Photos



Site Aerial



Hallway Finishes



Music Classroom



Exterior Finishes



# Facility Condition Assessment

Exeter-West Greenwich - Wawaloam School



Computer Lab



Original Boiler



Art Classroom



Compressor



Cafeteria



North Elevation



# Facility Condition Assessment

Exeter-West Greenwich - Wawaloam School



Hot Water Distribution Pump



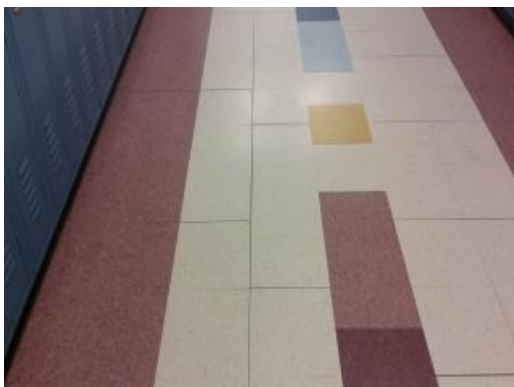
Sidewalk At North Entrance



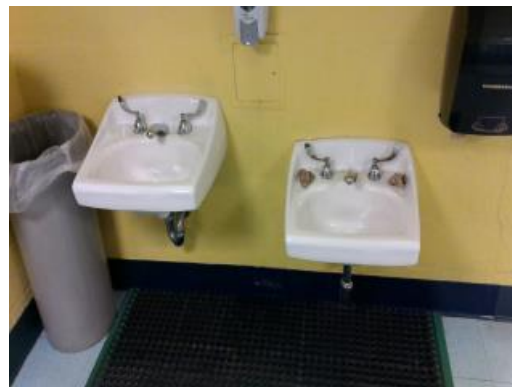
AHU In Gymnasium



Plaque



Separating VCT Flooring



Typical Restroom Fixtures



# Facility Condition Assessment

Exeter-West Greenwich - Wawaloam School



Chipped EIFS Wall



Restroom Finishes



Gymnasium



Urinals



Ductwork For Exhaust



Front Elevation

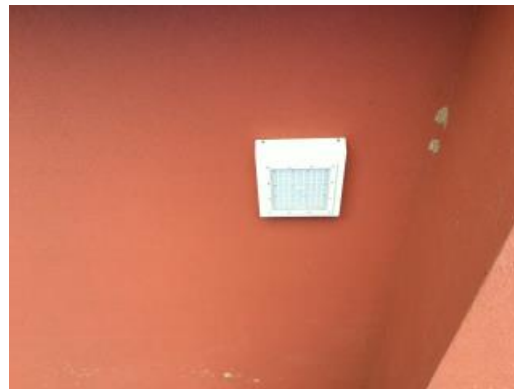


# Facility Condition Assessment

Exeter-West Greenwich - Wawaloam School



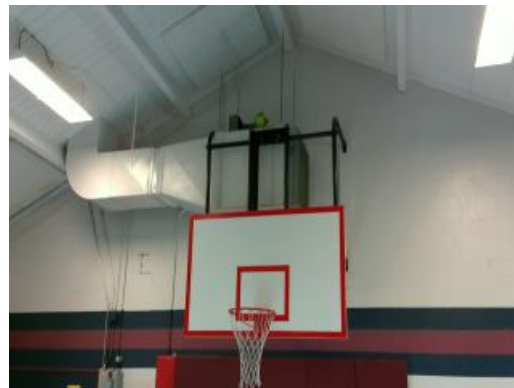
Unit Heater



LED Lights



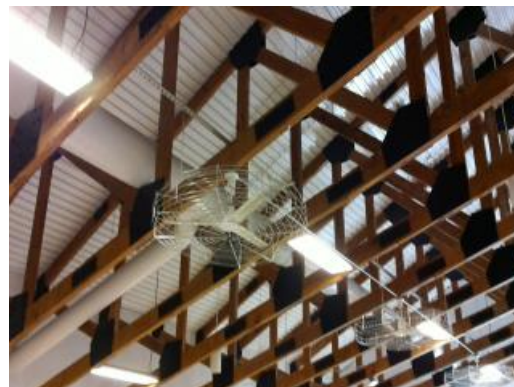
Playground



Gym Exhaust



Cracked Asphalt Paving



Cafeteria Exposed Ceiling



# Facility Condition Assessment

Exeter-West Greenwich - Wawaloam School



New LED Parking Lights



Broken Quarry Tile Flooring



Older Building Lights



Exhaust System Ventilator For New Wing 4X



Blocked Vent



West Elevation

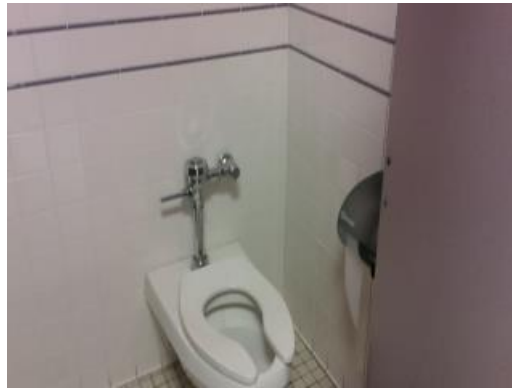


# Facility Condition Assessment

Exeter-West Greenwich - Wawaloam School



Refrigerated Drinking Fountain



Missing Grab Bars



Typical Classroom



Battery Operated Emergency Light



Office Air Handler With DX Coil And Heating Coil



Classroom Lavatory



# Facility Condition Assessment

Exeter-West Greenwich - Wawaloam School



Toilet



Art Room



Weathered Asphalt