

Coventry - Coventry High School

June 2017

40 Reservoir Road, Coventry, RI 02816





### Introduction

Coventry High School, located at 40 Reservoir Road in Coventry, Rhode Island, was built in 1975. It comprises 298,890 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.

Coventry High School serves grades 9 - 12, has 111 instructional spaces, and has an enrollment of 1,505. Instructional spaces are defined as rooms in which a student receives education. The LEA reported capacity for Coventry High School is 2,032 with a resulting utilization of 74%.

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 Coventry High School the 5-year need is \$22,320,807. 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 Coventry High School



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### 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 Coventry High School campus, identified by discipline and building.

### <u>Site</u>

The site level systems for this campus include:

Site	Asphalt Parking Lot Pavement		
	Asphalt Roadway Pavement		
	Concrete Pedestrian Pavement		

### **Building Envelope**

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

The exterior systems for the building(s) at this campus includes.					
01 - Main Building:	Brick Exterior Wall				
	Clear Polycarbonate Exterior Wall				
	E.I.F.S. Exterior Wall				
	Metal Panel Exterior Wall				
	Pre-cast Concrete Panel Exterior Wall				
	Wood Siding Exterior Wall				
	Steel Exterior Windows				
	Vinyl on Wood Frame Exterior Windows				
	Wood Exterior Doors				
	Steel Exterior Entrance Doors				
	Overhead Exterior Utility Doors				
02 - Concession / RR - Under Construction:	Vinyl Siding Exterior Wall				
	Vinyl on Wood Frame Exterior Windows				
	Steel Exterior Entrance Doors				
03 - Press Box:	Wood Siding Exterior Wall				
	Steel Exterior Entrance Doors				
04 - Maintenance/Equipment Storage:	Painted Exterior Wall				
	Wood Siding Exterior Wall				
	Steel Exterior Entrance Doors				
	Overhead Exterior Utility Doors				
	•				

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

01 - Main Building:	Clear Polycarbonate Roofing		
	Composition Shingle Roofing		
	Modified Bitumen Roofing		
	Single Ply Roofing		
02 - Concession / RR - Under Construction:	Composition Shingle Roofing		
03 - Press Box:	Composition Shingle Roofing		
04 - Maintenance/Equipment Storage:	Composition Shingle Roofing		





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

01 - Main Building:	Steel Interior Doors			
	Aluminum/Glass Storefront Interior Doors			
	Wood Interior Doors			
	Overhead Interior Coiling Doors			
	Interior Door Hardware			
	Exposed Metal Structure Ceiling			
	Suspended Acoustical Grid System			
	Suspended Acoustical Ceiling Tile			
	Painted Ceilings			
	Ceramic Tile Wall			
	Acoustical Wall Paneling			
	Metal Wall Paneling			
	Wood Wall Paneling			
	Vinyl/Fabric Wall Covering			
	Brick/Stone Veneer			
	Interior Wall Painting			
	Concrete Flooring			
	Quarry Tile Flooring			
	Ceramic Tile Flooring			
	Wood Flooring			
	Vinyl Composition Tile Flooring			
	Rubber Tile Flooring			
	Epoxy Coated Flooring			
	Carpet			
	Athletic/Sport Flooring			
02 - Concession / RR - Under Construction:	Wood Ceilings			
	Interior Wall Painting			
	Concrete Flooring			
03 - Press Box:	Wood Ceilings			
	Concrete Flooring			
	Wood Flooring			
04 - Maintenance/Equipment Storage:	Wood Ceilings			
-	Wood Wall Paneling			
	Concrete Flooring			

### **Mechanical**

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

01 - Main Building:	7,500 MBH Copper Tube Boiler
	Steam/Hot Water Heating Unit Vent





01 - Main Building:	Gas Fired Radiant Tube Heater
	Radiant Water Heater
	Electronic Heating System Controls
	300 Ton Metal Cooling Tower
	200 Ton Indoor Water Cooled Chiller
	3 Ton Computer Room A/C
	Window Units
	Make-up Air Unit
	5 HP Pump
	10 HP Pump
	2-Pipe Hot Water Hydronic Distribution System
	20,000 CFM Interior AHU
	Ductwork
	15 Ton DX Gas Roof Top Unit
	Kitchen Exhaust Hoods
	Roof Exhaust Fan
	Large Roof Exhaust Fan
	Small Roof Exhaust Fan
	Fire Sprinkler System

### **Plumbing**

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

01 - Main Building:	250 Gallon Water Storage Tank				
	4" Backflow Preventers				
	Gas Piping System				
	66 Gallon Electric Water Heater				
	100 Gallon Gas Water Heater				
02 - Concession / RR - Under Construction:	40 Gallon Electric Water Heater				
01 - Main Building:	Domestic Water Piping System				
02 - Concession / RR - Under Construction:	Domestic Water Piping System				
01 - Main Building:	Classroom Lavatories				
	Lavatories				
	Mop/Service Sinks				
	Refrigerated Drinking Fountain				
	Restroom Lavatories				
	Showers				
	Toilets				
	Urinals				
02 - Concession / RR - Under Construction:	Lavatories				
	Restroom Lavatories				
	Toilets				
	Urinals				



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01 - Main Building:	Air Compressor (10 hp)		
	Air Compressor (5 hp)		

### **Electrical**

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

01 - Main Building:	150 kW Emergency Generator				
	Automatic Transfer Switch				
	1,200 Amp Switchgear				
	2,000 Amp Switchgear				
	112.5 KVA Transformer				
	225 KVA Transformer				
	30 KVA Transformer				
	45 KVA Transformer				
	75 KVA Transformer				
	400 Amp Distribution Panel				
	600 Amp Distribution Panel				
	Panelboard - 120/208 100A				
	Panelboard - 120/208 125A				
	Panelboard - 120/208 225A				
	Panelboard - 120/208 400A				
	Panelboard - 277/480 100A				
	Panelboard - 277/480 225A				
	Panelboard - 277/480 400A				
	Building Mounted Lighting Fixtures				
	Canopy Mounted Lighting Fixtures				
	Light Fixtures				
02 - Concession / RR - Under Construction:	Panelboard - 120/208 100A				
	Light Fixtures				
03 - Press Box:	Panelboard - 120/208 100A				
	Light Fixtures				
04 - Maintenance/Equipment Storage:	Panelboard - 120/208 125A				
	Light Fixtures				



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### **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	1	2	3	4	5	Total	% of Total
Site	-	-	\$6,799	\$28,650	-	\$35,449	0.60 %
Roofing	-	-	\$11,714	-	\$406	\$12,120	0.20 %
Structural	-	-	-	-	-	\$0	0.00 %
Exterior	-	\$1,889	\$4,116	-	\$21,719	\$27,723	0.47 %
Interior	-	-	\$651,246	\$745,858	\$1,723,366	\$3,120,470	52.49 %
Mechanical	-	-	-	\$131,027	-	\$131,027	2.20 %
Electrical	\$1,403	\$134,279	-	-	\$7,887	\$143,568	2.42 %
Plumbing	-	-	-	\$1,681	\$107,168	\$108,849	1.83 %
Fire and Life Safety	\$56,658	-	-	-	-	\$56,658	0.95 %
Technology	-	-	\$1,991,027	-	-	\$1,991,027	33.49 %
Conveyances	-	-	-	-	-	\$0	0.00 %
Specialties	-	-	\$49,859	\$133,462	\$134,279	\$317,599	5.34 %
Total	\$58,060	\$136,167	\$2,714,761	\$1,040,677	\$1,994,825	\$5,944,490	

<sup>\*</sup>Displayed totals may not sum exactly due to mathematical rounding

The building systems with the most need include:

Interior	-	\$3,120,470
Technology	-	\$1,991,027
Specialties	-	\$317,599

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

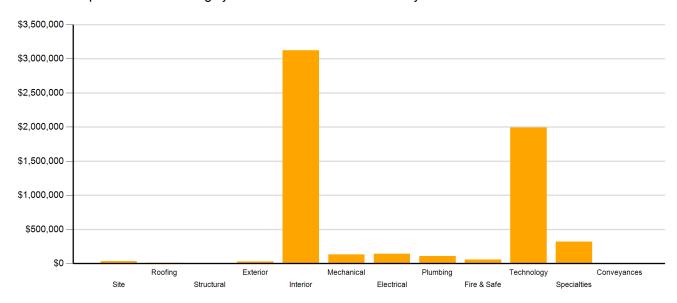


Figure 2: System Deficiencies



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### **Current Deficiencies by Category**

Deficiencies have been further grouped according to the observed category.

- Acoustics deficiencies relate to room acoustics, sound insolation, 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	1	2	3	4	5	Total
Acoustics	-	-	-	\$377,246	-	\$377,246
Barrier to Accessibility	-	-	\$607,654	-	-	\$607,654
Capital Renewal	-	\$136,167	\$59,423	\$5,642	\$1,731,780	\$1,933,012
Code Compliance	-	-	-	-	-	\$0
Educational Adequacy	\$58,060	-	\$95,185	\$317,440	\$263,045	\$733,730
Functional Deficiency	-	-	-	-	-	\$0
Hazardous Material	-	-	-	\$340,348	-	\$340,348
Technology	-	-	\$1,945,701	-	-	\$1,945,701
Traffic	-	-	\$6,799	-	-	\$6,799
Total	\$58,060	\$136,167	\$2,714,761	\$1,040,677	\$1,994,825	\$5,944,490

<sup>\*</sup>Displayed totals may not sum exactly due to mathematical rounding

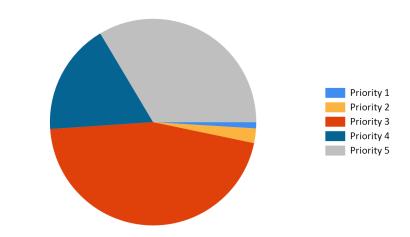


Figure 3: Current deficiencies by priority



### **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

			Life Cycle	Capital Renewal P	rojections			
System	Current Deficiencies	Year 1 2017	Year 2 2018	Year 3 2019	Year 4 2020	Year 5 2021	LC Yr. 1-5 Total	Total 5-Year Need
Site	\$35,449	\$0	\$0	\$0	\$2,550,869	\$0	\$2,550,869	\$2,586,318
Roofing	\$12,120	\$0	\$0	\$0	\$0	\$11,751	\$11,751	\$23,871
Structural	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Exterior	\$27,723	\$0	\$0	\$0	\$632,973	\$39,960	\$672,933	\$700,656
Interior	\$3,120,470	\$0	\$0	\$0	\$2,963,640	\$2,265,922	\$5,229,562	\$8,350,032
Mechanical	\$131,027	\$0	\$0	\$5,774,976	\$10,017	\$756,914	\$6,541,907	\$6,672,934
Electrical	\$143,568	\$0	\$0	\$0	\$0	\$579,623	\$579,623	\$723,191
Plumbing	\$108,849	\$0	\$0	\$11,785	\$474,816	\$4,326	\$490,927	\$599,776
Fire and Life Safety	\$56,658	\$0	\$0	\$0	\$0	\$0	\$0	\$56,658
Technology	\$1,991,027	\$0	\$0	\$0	\$0	\$0	\$0	\$1,991,027
Conveyances	\$0	\$0	\$0	\$285,209	\$0	\$0	\$285,209	\$285,209
Specialties	\$317,599	\$0	\$0	\$0	\$0	\$0	\$0	\$317,599
Total	\$5,944,490	\$0	\$0	\$6,071,970	\$6,632,315	\$3,658,496	\$16,362,781	\$22,307,271

<sup>\*</sup>Displayed totals may not sum exactly due to mathematical rounding

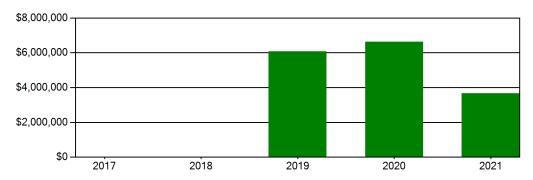


Figure 4: Life Cycle Capital Renewal Forecast



### **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 \$107,600,400. For planning purposes, the total 5-year need at the Coventry High School is \$22,320,807 (Life Cycle Years 1-5 plus the FCI deficiency cost). The Coventry High School facility has a 5-year FCI of 20.73%.

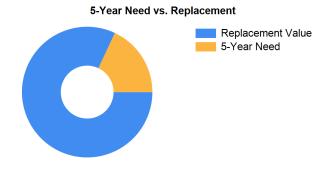


Figure 5: 5-Year FCI

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.



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### **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 1,616 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 Coventry High School cafeteria and/or library/media center to the size prescribed by the SCRs is estimated to be \$564,538.



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### **Summary of Findings**

The Coventry High School comprises 298,890 square feet and was constructed in 1975. Current deficiencies at this school total \$5,958,026. Five year capital renewal costs total \$16,362,781. The total identified need for the Coventry High School (current deficiencies and 5-year capital renewal costs) is \$22,320,807. The 5-year FCI is 20.73%.

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	
Coventry High School Totals	298,890	1975	\$5,958,026	\$16,362,781	\$22,320,807	20.73%	

<sup>\*</sup>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.

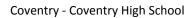
### **Cost Estimating**

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.

Priority

Qty UoM



Repair Cost



### **Site Level Deficiencies**

## **Site**Deficiency

Delicition		Odlogory	Gty (	COIVI	1 Honly	rtopan oost	טו
Crosswalk Requires	Repainting	Traffic	2 1	Ea.	3	\$1,511	22000
Note:	Repaint crosswalks at intersection of Club House Rd and Reservoir	₹d					
Crosswalk Requires	Repainting	Traffic	1 [	Ea.	3	\$755	22001
Note:	Repaint crosswalk at end of school driveway on Reservoir Rd						
Traffic Signage Is Re	equired	Traffic	2 1	Ea.	3	\$4,533	21999
Note:	Add school zone signage on Club House Rd						
Backstops Require F	Replacement	Educational Adequacy	1 1	Ea.	4	\$28,329	28431
Note:	Backstops Require Replacement						
Fencing Requires Re	eplacement (4' Chain Link Fence)	Capital Renewal	5 l	LF	4	\$321	17791
Note:	The fence at the northeast corner of the building is missing chain link	. It should be replaced.					
		Sub Total for System	5 i	items		\$35,449	
	Sub Total for	School and Site Level	5 i	items		\$35,449	
Building: 0	1 - Main Building						
Roofing							
Deficiency		Category	Qty I	JoM	Priority	Repair Cost	ID
Roof Access Ladder	Requires Replacement	Capital Renewal	3 I	LF	3	\$10,765	17807
Note:	The raised roof section over the auditorium requires a ladder.						
The Metal Downspor	uts Require Installation or Replacement	Capital Renewal	15 l	LF	3	\$949	17793
Note:	The downspout at the mechanical penthouse at the roof is damaged	Replacement is recomme	nded.				
Splash Blocks Are R	equired	Capital Renewal	1 1	Ea.	5	\$406	17800
Note:	A splash block is needed at the mechanical penthouse on the roof.						
		Sub Total for System	3 i	items		\$12,120	
Exterior							
Deficiency		Category	Qty I	IoM	Priority	Repair Cost	ID
	equires Replacement	Capital Renewal	20 \$		2	\$1,889	
THE DIYVIL EXTERIOR IN	equires ineplacement	Capital Nellewal		Wall	2	ψ1,009	17001
Location	: North side of the building and on the west side of the gym						
The Wood Exterior R	tequires Repair	Capital Renewal	300 \$		3	\$4,116	17802
			'	Wall			
Note:	The wood siding at the roof over the new cafeteria is weathered and	•					
The Exterior Require	s Painting	Capital Renewal	2,432 \$	SF Wall	5	\$13,298	17810
Note:	The metal panel at the mechanical penthouse on the roof should be	repainted.					
		Sub Total for System	3 i	tems		\$19,303	
Interior							
		Category	Qty I	JoM	Priority	Repair Cost	ID
Deficiency	Require Repair	Category Capital Renewal	Qty 1		Priority 3		ID 17792
Deficiency	Require Repair  There are moderate cracks in the CMU at the Vice Principal's office to	Capital Renewal					
Deficiency Interior CMU Walls F Note:	There are moderate cracks in the CMU at the Vice Principal's office to	Capital Renewal	20 \$				17792
Deficiency Interior CMU Walls F <b>Note:</b>	There are moderate cracks in the CMU at the Vice Principal's office to	Capital Renewal hat should be repaired. Capital Renewal	20 \$	SF Door	3	\$721 \$36,639	17792 17795
Deficiency Interior CMU Walls F Note: Interior Doors Requii Note:	There are moderate cracks in the CMU at the Vice Principal's office to Replacement Interior doors are missing at the west end of the gym near the locker	Capital Renewal hat should be repaired. Capital Renewal	20 \$	SF Door ice are	3	\$721 \$36,639	17792 17795 , and in
Deficiency Interior CMU Walls F Note: Interior Doors Requii Note:	There are moderate cracks in the CMU at the Vice Principal's office to Replacement Interior doors are missing at the west end of the gym near the locker Room 325.	Capital Renewal hat should be repaired. Capital Renewal rooms, between the cafete Barrier to	20 S 8 I eria and offi	SF Door ice are	3 a, in the ty	\$721 \$36,639 ping/repro area,	17792 17795 , and in
Deficiency Interior CMU Walls F Note: Interior Doors Requii Note: The Interior Door Ha Note:	There are moderate cracks in the CMU at the Vice Principal's office to Replacement Interior doors are missing at the west end of the gym near the locker Room 325.  Individual replacement	Capital Renewal hat should be repaired. Capital Renewal rooms, between the cafete Barrier to	20 S 8 I eria and offi 195 I	SF Door ice are	3 a, in the ty	\$721 \$36,639 ping/repro area,	17792 17795 , and in 17803
Deficiency Interior CMU Walls F Note: Interior Doors Requii Note: The Interior Door Ha Note:	There are moderate cracks in the CMU at the Vice Principal's office to Replacement Interior doors are missing at the west end of the gym near the locker Room 325. rdware Requires Replacement Non-compliant door hardware should be replaced.	Capital Renewal hat should be repaired. Capital Renewal rooms, between the cafete Barrier to Accessibility	20 S 8 I eria and offi 195 I	SF Door ice are Door	3 3 aa, in the ty 3	\$721 \$36,639 ping/repro area, \$607,654	17792 17795 , and in 17803
Deficiency Interior CMU Walls F Note: Interior Doors Requir Note: The Interior Door Ha Note: The Interior Door Ha Note:	There are moderate cracks in the CMU at the Vice Principal's office to Replacement Interior doors are missing at the west end of the gym near the locker Room 325. rdware Requires Replacement  Non-compliant door hardware should be replaced. rdware Requires Replacement	Capital Renewal hat should be repaired. Capital Renewal rooms, between the cafete Barrier to Accessibility	20 S 8 I eria and offi 195 I	Door Door Door	3 3 aa, in the ty 3	\$721 \$36,639 ping/repro area, \$607,654	17792 17795 , and in 17803
Deficiency Interior CMU Walls F Note: Interior Doors Requir Note: The Interior Door Ha Note: The Interior Door Ha Note:	There are moderate cracks in the CMU at the Vice Principal's office to Replacement Interior doors are missing at the west end of the gym near the locker Room 325. rdware Requires Replacement  Non-compliant door hardware should be replaced. rdware Requires Replacement  Doors in the mechanical room and Room 401 are missing hardware.	Capital Renewal hat should be repaired. Capital Renewal rooms, between the cafete Barrier to Accessibility Capital Renewal Capital Renewal	20 \$ 8   8   9   9   9   9   9   9   9   9	Door Door Door	3 3 aa, in the ty 3	\$721 \$36,639 ping/repro area, \$607,654 \$6,232	17792 17795 , and in 17803
Interior Doors Requii Note: The Interior Door Ha Note: The Interior Door Ha Note: Interior Toilet Partitio Note: Paint (probable pre-4	There are moderate cracks in the CMU at the Vice Principal's office to Replacement Interior doors are missing at the west end of the gym near the locker Room 325. Individual Requires Replacement  Non-compliant door hardware should be replaced. Individual Requires Replacement  Doors in the mechanical room and Room 401 are missing hardware. In Requires Replacement	Capital Renewal hat should be repaired. Capital Renewal rooms, between the cafete Barrier to Accessibility  Capital Renewal  Capital Renewal near the auditorium.	20 \$ 8   8   9   9   9   9   9   9   9   9	Door ice are Door Door	3 3 aa, in the ty 3	\$721 \$36,639 ping/repro area, \$607,654 \$6,232	17792 17795 , and in 17803 17806

Category





Coventry - Coventry High School

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Deficiency	Category	Qty	UoM	Priority	Repair Cost	ID
Paint (probable pre-1978 in base layer(s)) - large areas (> 10 sq. ft.) of peeling/damage & area in active use - children (measurement unit - square feet)	Hazardous Material	2,700	SF	4	\$25,496	Rollup
Paint (probable pre-1978 in base layer(s)) - damaged area < 9 sq. ft. AND NOT in children-accessible area (measurement unit - square feet)	Hazardous Material	3,375	SF	4	\$31,870	Rollup
Room Is Excessively Reverberant	Acoustics	17,000	SF	4	\$377,246	27938
Location: Gym						
Room Lighting Is Inadequate Or In Poor Condition.	Educational Adequacy	632	SF	4	\$23,920	Rollup
Classroom Door Requires Vision Panel	Educational Adequacy	3	Ea.	5	\$6,799	Rollup
Interior Walls Require Repainting (Bldg SF)	Capital Renewal	260,505	SF	5	\$1,709,655	Rollup
Room lacks appropriate sound control.	Educational Adequacy	200	SF	5	\$6,912	Rollup
	Sub Total for System	14	items		\$3,120,470	
Mechanical						
Deficiency	Category	Qty	UoM	Priority	Repair Cost	ID
Lab lacks an appropriate fume hood.	Educational Adequacy	6	Ea.	4	\$131,027	Rollup
	Sub Total for System	1	items		\$131,027	
Electrical						
Deficiency	Category	Qty	UoM	Priority	Repair Cost	ID
Room last power shut-off valves for utilities	Educational Adequacy	1	Ea.	1	\$1,403	Rollup
Generator Requires Replacement	Capital Renewal	1	Ea.	2	\$122,758	17809
Note: generator is original equipment, difficult to get parts and keep unit in	service					
The Panelboard Requires Replacement	Capital Renewal	2	Ea.	2	\$11,520	17808
<b>Note:</b> Panelboards in the carpentry shop should be sealed units. Carpented	r shop dust inside the par	nelboards o	creates	a fire safety	/ hazard.	
Room Has Insufficient Electrical Outlets	Educational Adequacy	16	Ea.	5	\$7,887	Rollup
	Code Tatal fan Constant					
	Sub Total for System	4	items		\$143,568	
Plumbing	Sub Total for System	4	items		\$143,568	
Plumbing Deficiency	Category		UoM	Priority	<b>\$143,568</b> Repair Cost	ID
•	·	Qty		Priority 4		
Deficiency	Category  Educational	Qty 2	UoM	<u> </u>	Repair Cost	Rollup
Deficiency Floor Drains Are Required	Category Educational Adequacy Educational	Qty 2 6	UoM Ea.	4	Repair Cost \$1,681	Rollup
Deficiency Floor Drains Are Required Room lacks a drinking fountain.	Category  Educational Adequacy  Educational Adequacy  Educational	Qty 2 6	UoM Ea. Ea.	4 5	Repair Cost \$1,681 \$6,572	Rollup
Deficiency Floor Drains Are Required Room lacks a drinking fountain.	Category  Educational Adequacy  Educational Adequacy  Educational Adequacy	Qty 2 6	UoM Ea. Ea.	4 5	Repair Cost \$1,681 \$6,572 \$100,596	Rollup
Deficiency Floor Drains Are Required Room lacks a drinking fountain. The Class Room Lavatories Plumbing Fixtures Are Missing And Should Be Installed	Category  Educational Adequacy  Educational Adequacy  Educational Adequacy	Qty 2 6 67 3	UoM Ea. Ea.	4 5	Repair Cost \$1,681 \$6,572 \$100,596	Rollup
Deficiency Floor Drains Are Required Room lacks a drinking fountain. The Class Room Lavatories Plumbing Fixtures Are Missing And Should Be Installed  Fire and Life Safety	Category  Educational Adequacy  Educational Adequacy  Educational Adequacy  Sub Total for System	Qty 2 6 67 3 Qty	UoM Ea. Ea. items	4 5 5	Repair Cost \$1,681 \$6,572 \$100,596 \$108,849	Rollup Rollup Rollup
Deficiency Floor Drains Are Required Room lacks a drinking fountain. The Class Room Lavatories Plumbing Fixtures Are Missing And Should Be Installed  Fire and Life Safety Deficiency	Category  Educational Adequacy  Educational Adequacy  Educational Adequacy  Sub Total for System  Category  Educational	Qty 2 6 67 3 Qty 5	UoM Ea. Ea. items	4 5 5 Priority	Repair Cost \$1,681 \$6,572 \$100,596 \$108,849 Repair Cost	Rollup Rollup Rollup
Deficiency Floor Drains Are Required Room lacks a drinking fountain. The Class Room Lavatories Plumbing Fixtures Are Missing And Should Be Installed  Fire and Life Safety Deficiency	Category  Educational Adequacy  Educational Adequacy  Educational Adequacy  Sub Total for System  Category  Educational Adequacy	Qty 2 6 67 3 Qty 5	UoM Ea. Ea. items UoM Ea.	4 5 5 Priority	Repair Cost \$1,681 \$6,572 \$100,596 \$108,849 Repair Cost \$56,658	Rollup Rollup Rollup
Ploor Drains Are Required  Room lacks a drinking fountain.  The Class Room Lavatories Plumbing Fixtures Are Missing And Should Be Installed  Fire and Life Safety  Deficiency  Room lacks shut-off valves for utilities. (International Fuel Gas Code, Section 409.6)	Category  Educational Adequacy  Educational Adequacy  Educational Adequacy  Sub Total for System  Category  Educational Adequacy	Qty 2 6 6 67 3 Qty 5 1	UoM Ea. Ea. items UoM Ea.	4 5 5 Priority	Repair Cost \$1,681 \$6,572 \$100,596 \$108,849 Repair Cost \$56,658	Rollup Rollup Rollup
Ploor Drains Are Required  Room lacks a drinking fountain.  The Class Room Lavatories Plumbing Fixtures Are Missing And Should Be Installed  Fire and Life Safety  Deficiency  Room lacks shut-off valves for utilities. (International Fuel Gas Code, Section 409.6)  Technology	Category  Educational Adequacy Educational Adequacy Educational Adequacy Sub Total for System  Category  Educational Adequacy Sub Total for System	Qty 2 6 6 67 3 Qty 5 1 Qty	UoM Ea. Ea. items UoM Ea. items	4 5 5 Priority 1	Repair Cost \$1,681 \$6,572 \$100,596 <b>\$108,849</b> Repair Cost \$56,658 <b>\$56,658</b>	Rollup Rollup ID Rollup
Ploor Drains Are Required  Room lacks a drinking fountain.  The Class Room Lavatories Plumbing Fixtures Are Missing And Should Be Installed  Fire and Life Safety  Deficiency  Room lacks shut-off valves for utilities. (International Fuel Gas Code, Section 409.6)  Technology  Deficiency	Category  Educational Adequacy  Educational Adequacy  Educational Adequacy  Sub Total for System  Category  Educational Adequacy  Sub Total for System  Category  Educational Adequacy  Sub Total for System	Qty 2 6 6 67 3 Qty 5 1 Qty 8	UoM Ea. Ea. items UoM Ea. UoM	4 5 5 Priority 1	Repair Cost \$1,681 \$6,572 \$100,596 \$108,849 Repair Cost \$56,658 \$56,658	Rollup Rollup ID Rollup ID Rollup
Peficiency Floor Drains Are Required Room lacks a drinking fountain. The Class Room Lavatories Plumbing Fixtures Are Missing And Should Be Installed  Fire and Life Safety Deficiency Room lacks shut-off valves for utilities. (International Fuel Gas Code, Section 409.6)  Technology Deficiency Room lacks Interactive White Board	Category  Educational Adequacy Educational Adequacy Educational Adequacy Sub Total for System  Category Educational Adequacy Sub Total for System  Category Educational Adequacy Sub Total for System	Qty 2 6 6 67 3 Qty 5 1 Qty 8	UoM Ea. Ea. items UoM Ea. items Com	4 5 5 Priority 1 Priority 3	Repair Cost \$1,681 \$6,572 \$100,596 <b>\$108,849</b> Repair Cost \$56,658 <b>\$56,658</b> Repair Cost \$45,326	Rollup Rollup ID Rollup ID Rollup 18870
Peficiency Floor Drains Are Required Room lacks a drinking fountain. The Class Room Lavatories Plumbing Fixtures Are Missing And Should Be Installed  Fire and Life Safety Deficiency Room lacks shut-off valves for utilities. (International Fuel Gas Code, Section 409.6)  Technology Deficiency Room lacks Interactive White Board Technology: Auditorium AV/Multimedia system is in need of minor improvements.  Technology: Campus network switching electronics are antiquated and/or do not meet	Category  Educational Adequacy Educational Adequacy Educational Adequacy Sub Total for System  Category Educational Adequacy Sub Total for System  Category Educational Adequacy Sub Total for System	Qty 2 6 67 3 Qty 5 1 Qty 8 1 504	UoM Ea. Ea. items UoM Ea. items Com	4 5 5 Priority 1 Priority 3 3	Repair Cost \$1,681 \$6,572 \$100,596 <b>\$108,849</b> Repair Cost \$56,658 <b>\$56,658</b> Repair Cost \$45,326 \$94,430	Rollup Rollup ID Rollup ID Rollup 18870 18867
Peliciency Floor Drains Are Required Room lacks a drinking fountain. The Class Room Lavatories Plumbing Fixtures Are Missing And Should Be Installed  Fire and Life Safety Deficiency Room lacks shut-off valves for utilities. (International Fuel Gas Code, Section 409.6)  Technology Deficiency Room lacks Interactive White Board Technology: Auditorium AV/Multimedia system is in need of minor improvements. Technology: Campus network switching electronics are antiquated and/or do not meet standards.  Technology: Gymnasium sound system is nonexistent, inadequate, or near end of useful	Category  Educational Adequacy  Educational Adequacy  Educational Adequacy  Sub Total for System  Category  Educational Adequacy  Sub Total for System  Category  Educational Adequacy  Technology  Technology	Qty 2 6 67 3 Qty 5 1 Qty 8 1 504	UoM Ea. Ea. items UoM Ea. items UoM Ea. Fa. Com Ea.	4 5 5 Priority 1 Priority 3 3 3	Repair Cost \$1,681 \$6,572 \$100,596 <b>\$108,849</b> Repair Cost \$56,658 <b>\$56,658</b> Repair Cost \$45,326 \$94,430 \$237,962	Rollup Rollup ID Rollup Rollup 18870 18869







**Technology** 

rechnology						
Deficiency	Category	Qty	UoM	Priority	Repair Cost	ID
Technology: Intermediate Telecommunications Room grounding system is inadequate or non-existent.	Technology	1	Ea.	3	\$5,288	18860
Technology: Intermediate Telecommunications Room grounding system is inadequate or non-existent.	Technology	1	Ea.	3	\$5,288	18862
Technology: Intermediate Telecommunications Room grounding system is inadequate or non-existent.	Technology	1	Ea.	3	\$5,288	18864
Technology: Intermediate Telecommunications Room grounding system is inadequate or non-existent.	Technology	1	Ea.	3	\$5,288	18866
Technology: Intermediate Telecommunications Room is not dedicated and/or inadequate.	Technology	1	Ea.	3	\$44,948	18856
Technology: Intermediate Telecommunications Room needs minor improvements.	Technology	1	Ea.	3	\$16,620	18859
Technology: Intermediate Telecommunications Room needs minor improvements.	Technology	1	Ea.	3	\$16,620	18861
Technology: Intermediate Telecommunications Room needs minor improvements.	Technology	1	Ea.	3	\$16,620	18863
Technology: Intermediate Telecommunications Room needs minor improvements.	Technology	1	Ea.	3	\$16,620	18865
Technology: Intermediate Telecommunications Room UPS does not meet standards, is inadequate, or non-existent.	Technology	1	Ea.	3	\$4,721	18858
Technology: Main Telecommunications Room ground system is inadequate or non-existent	Technology	1	Ea.	3	\$6,610	18854
Technology: Main Telecommunications Room is not dedicated and/or inadequate.	Technology	1	Ea.	3	\$49,859	18853
Technology: Main Telecommunications Room UPS does not meet standards, is inadequate, or non-existent.	Technology	1	Ea.	3	\$8,971	18855
Technology: Network cabling infrastructure is outdated (Cat 5 or less) and/or does not meet standards.	Technology	606	Ea.	3	\$257,509	18868
Technology: Network system inadequate and/or near end of useful life	Technology	24	Ea.	3	\$181,305	18872
Technology: Network system inadequate and/or near end of useful life	Technology	28	Ea.	3	\$132,201	18873
Technology: PA/Bell/Clock system is inadequate and/or near end of useful life.	Technology	296,600	SF	3	\$504,140	18871
	Sub Total for System	23	items		\$1,991,027	
Specialties						
Deficiency	Category	Qty	UoM	Priority	Repair Cost	ID
Room has insufficient writing area.	Educational Adequacy	11	Ea.	3	\$49,859	Rollup
Backdrop is Required	Educational Adequacy	1	Ea.	4	\$1,416	Rollup
Separate Student Kitchen Stations Are Required	Educational Adequacy	1	Ea.	4	\$3,702	Rollup
The Metal Student Lockers Require Replacement	Capital Renewal	2	Ea.	4	\$977	17811
Note: There are two lockers that are missing doors - one in the original ma	n building and one in the	1991 addit	tion.			
Walk In Cooler/Freezer Is Required	Educational Adequacy		Ea.	4	\$89,708	Rollup
Welding Bays Are Required	Educational Adequacy	3	Ea.	4	\$16,147	Rollup
Work Tables Are Required	Educational Adequacy	6	Ea.	4	\$21,511	Rollup
Room lacks an appropriate refrigerator.	Educational Adequacy	11	Ea.	5	\$93,485	Rollup
The room lacks a washer and/or dryer.	Educational Adequacy	3	Ea.	5	\$40,794	Rollup
	Sub Total for System	9	items		\$317,599	
Sub Total for Build	ling 01 - Main Building	61	items		\$5,900,621	



Coventry - Coventry High School

\$5,944,490

### **Building: 03 - Press Box**

### **Exterior**

Deficiency		Category	Qty UoM	Priority	Repair Cost	ID
The Exterior Requires Painting		Capital Renewal	890 SF Wall	5	\$4,866	17812
Note:	Paint is chipped and worn.					
		Sub Total for System	1 items		\$4,866	
Sub Total for Building 03 - P		Sub Total for Building 03 - Press Box	1 items		\$4,866	
Building: 0	4 - Maintenance/Equipmen	t Storage				
Exterior						
Deficiency		Category	Qty UoM	Priority	Repair Cost	ID
The Exterior Requir	es Painting	Capital Renewal	650 SF Wall	5	\$3,554	17813
Note:	The exterior paint is chipped and worn.					
		Sub Total for System	1 items		\$3,554	
Sub Total for Building 04 - Maintenance/Equipment Stora			1 items		\$3,554	

**Total for Campus** 

68 items

### Buildings with no reported deficiencies

02 - Concession / RR - Under Construction

Qty UoM

Repair Cost Remaining Life



### Coventry High School - Life Cycle Summary Yrs 1-5 Site Level Life Cycle Items

LC Type Description

### Site

Uniformat Description	LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Roadway Pavement	Asphalt	,	200	CAR	\$661,704	4
Parking Lot Pavement	Asphalt		571	CAR	\$1,889,165	4
		Sub Total for System	2	items	\$2,550,869	
		Sub Total for Building -	2	items	\$2,550,869	

### **Building: 01 - Main Building**

### Roofing

Uniformat Description

Steep Slope Roofing	Clear Polycarbonate (Greenhouse)		618 SF	\$11,751	5
		Sub Total for System	1 items	\$11,751	
Exterior					

### **Exterior**

Uniformat Description	LC Type Description	Q	ty UoM	Repair Cost	Remaining Life
Exterior Wall Veneer	E.I.F.S Bldg SF basis	30,68	32 SF	\$632,973	4
Exterior Wall Veneer	Clear Polycarbonate (Greenhouse) walls	22	0 SF	\$8,366	5
Exterior Wall Veneer	Wood Siding - Bldg SF basis	1,05	54 SF	\$31,594	5
		Sub Total for System	3 items	\$672,934	

#### Interior

Uniformat Description	LC Type Description		Qty UoM	Repair Cost	Remaining Life
Resilient Flooring	Vinyl Composition Tile Flooring	231,	244 SF	\$2,652,772	4
Wall Painting and Coating	Painting/Staining (Bldg SF)	25,	38 SF	\$168,738	4
Fluid-Applied Flooring	Epoxy Coating	1,	12 SF	\$21,144	4
Carpeting	Carpet	5,	61 SF	\$120,986	4
Wall Paneling	Wood Panel wall	4,	65 SF	\$41,663	5
Wall Paneling	Metal Panel wall		35 SF	\$10,219	5
Acoustical Suspended Ceilings	Ceilings - Acoustical Tiles	237,	292 SF	\$2,143,132	5
Suspended Plaster and	Painted ceilings	13,	050 SF	\$54,589	5
Resilient Flooring	Rubber Tile Flooring		556 SF	\$10,387	5
		Sub Total for System	9 items	\$5,223,629	

### Mechanical

Uniformat Description	LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Decentralized Heating Equipment	Heating Unit Vent - Steam/Hot water		168	Ea.	\$2,841,687	3
Heating System Supplementary Components	Controls - Electronic (Bldg.SF)		296,600	SF	\$2,003,445	3
HVAC Air Distribution	AHU 20,000 CFM Interior		5	Ea.	\$929,844	3
Decentralized Cooling	Window Units		3	Ea.	\$10,017	4
Air Distribution	Make-up Air Unit		1	Ea.	\$15,899	5
Decentralized Cooling	Computer Room A/C (3 ton)		1	Ea.	\$28,521	5
HVAC Air Distribution	Roof Top Unit - DX Gas (15 Ton)		12	Ea.	\$619,292	5
Exhaust Air	Roof Exhaust Fan - Large		5	Ea.	\$69,467	5
Exhaust Air	Roof Exhaust Fan - Small		9	Ea.	\$23,735	5
		Sub Total for System	9	items	\$6,541,907	

### **Electrical**

Uniformat Description	LC Type Description	Qty	UoM Repair Cost	Remaining Life
Lighting Fixtures	Canopy Mounted Fixtures (Ea.)	30	Ea. \$41,355	5
Transfer Switches	Automatic Transfer Switch (Amps)	600	Amps \$21,431	5
Power Distribution	Distribution Panels (400 Amps)	2	Ea. \$51,338	5
	Note: GE original equipment			
Power Distribution	Panelboard - 120/208 225A	9	Ea. \$52,193	5
Power Distribution	Panelboard - 120/208 100A	10	Ea. \$48,486	5
	Note: Original equipment			
Power Distribution	Panelboard - 277/480 400A	2	Ea. \$35,575	5
Electrical Service	Transformer (75 KVA)	1	Ea. \$10,520	5
	Note: Original equipment			
Electrical Service	Switchgear - Main Dist Panel (2000 Amps)	1	Ea. \$72,339	5





Coventry - Coventry High School

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Uniformat Description		LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Electrical Service		Switchgear - Main Dist Panel (1200	Amps)	2	Ea.	\$138,117	5
Power Distribution		Panelboard - 277/480 225A		7	Ea.	\$83,718	5
Power Distribution		Panelboard - 277/480 100A		2	Ea.	\$15,401	5
			Sub Total for System	11	items	\$570,473	
Plumbing							
Uniformat Description		LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Compressed-Air Systems		Air Compressor (5 hp)		1	Ea.	\$11,785	3
	Note:	Speedaire brand air compressor					
Plumbing Fixtures		Refrigerated Drinking Fountain		19	Ea.	\$140,171	4
Plumbing Fixtures		Showers		44	Ea.	\$334,645	4
	Note:	Locker room showers not used					
Domestic Water Equipment		Water Heater - Electric - 66 gallon		1	Ea.	\$4,326	5
			Sub Total for System	4	items	\$490,927	
Conveyances							
Uniformat Description		LC Type Description		Otv	UoM	Popair Cost	Remaining Life
Elevators		Hydraulic (Passenger Elev)			Ea.	\$285,209	3
Elevators		Trydradiio (1 dosoriger Elev)	Sub Total for System		items	\$285,209	Ü
			Sub Total for Building 01 - Main Building		items	\$13,796,829	
<b>-</b>	_		out rotal for Bullating Cr. Illiam Bullating	00	Kems	ψ10,7 00,0 <u>2</u> 3	
Building: 03 - Press	Box						
Electrical							
Uniformat Description		LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Lighting Fixtures		Light Fixtures (Bldg SF)		890	SF	\$5,288	5
			Sub Total for System	1	items	\$5,288	
			Sub Total for Building 03 - Press Box	1	items	\$5,288	
Building: 04 - Mainte	nan	co/Equipment Storac	10				
Dulluling. 04 - Mainte	Hair	ze/Equipment Storag	je				
Interior							
Uniformat Description		LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Wall Paneling		Wood Panel wall			SF	\$5,932	5
			Sub Total for System	1	items	\$5,932	
Flectrical							
Electrical		LC Type Description		Otv	HoM	Bonoir Coat	Domoining Life
Uniformat Description		LC Type Description			UoM	<u>_</u>	Remaining Life
Uniformat Description		LC Type Description Light Fixtures (Bldg SF)	Sub Tatal for Continue	650	SF	\$3,862	Remaining Life
		Light Fixtures (Bldg SF)	Sub Total for System	650 1	SF items	\$3,862 <b>\$3,862</b>	
Uniformat Description		Light Fixtures (Bldg SF)	Sub Total for System ding 04 - Maintenance/Equipment Storage Total for: Coventry High School	650 1 2	SF	\$3,862	



## **Supporting Photos**



Site Aerial



Damaged Chain Link



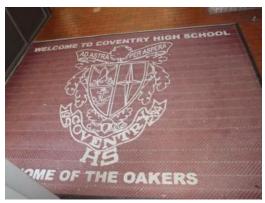
CMU Wall Crack



Rusted And Deteriorated Downspout

Coventry - Coventry High School





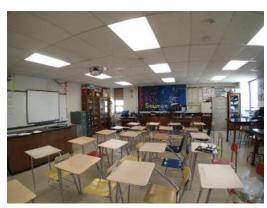
School Banner



**Building Signage** 



Plaque



Typical Classroom

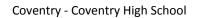


Concession Building



Exterior Finishes

M\*A\*P\*P\*S ©, Jacobs 2017







Concession Building



Concession Building



Missing Parition Door



Concession Building



Damaged And Stained Exterior Roof Trim



Missing Splash Block

Coventry - Coventry High School





Carpentry Shop Panelboards



Weathered Wood Edge Trim



Rooftop Mechanical Enclosure



1975 Generator



Worn Exterior Paint



Press Box

M•A•P•P•S ©, Jacobs 2017 25







Press Box Interior



Press Box



Field Storage Interior



Grounds Equipment Storage Building



Storage Building Interior



Grounds Equipment Storage Building

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Grounds Equipment Storage Building



**Exterior Driveway View** 



**Exterior Entrance Doors** 



**Exterior Elevation** 



Library



Elevation







Cafeteria



Asphalt Parking



Media Center



Gymnasium

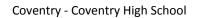


Entrance Canopy



Front Elevation

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Exterior Finishes



Fitness Room



Cafeteria



Asphalt Parking Area



Auditorium



Library







Pedestrian Paving



Asphalt Parking



Asphalt Driveway



Composition Shingle Roof



Missing Door