FACILITY CONDITION ASSESSMENT

prepared for

Richmond Public Schools
301 North Ninth Street
Richmond, VA 23219

Thomas C. Boushall Middle School
3400 Hopkins Road
Richmond, VA 23234

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BV PROJECT #:
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DATE OF REPORT:
May 11, 2024

ON SITE DATE:
April 4, 2024

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1. Executive Summary

Property Overview and Assessment Details

General Information	
Property Type	Middle school campus
Number of Buildings	1
Main Address	3400 Hopkins Road, Richmond, VA 23234
Site Developed	1986
Outside Occupants / Leased Spaces	None
Date(s) of Visit	April 4, 2024
Management Point of Contact	Daniel Alu Project Engineer 800 Yard Street, Suite 115 Columbus, Ohio 43212 C: 614.949.1355 daniel.alu@gofmx.com
On-site Point of Contact (POC)	Ronald (Bobby) Hathaway Jr., Director of Facilities Department of Facility Services 1461 A Commerce Road Richmond, VA 23224 Office: (804) 780-6251 Mobil: (804) 325-0740 Email: Rhathawa@rvaschools.net
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AssetCalc Link	Full dataset for this assessment can be found at: https://www.assetcalc.net/

Significant/Systemic Findings and Deficiencies

Historical Summary

The building was constructed in 1986 and serves grades six through eight.

Architectural

The roof is primarily a built-up system with reported leaks throughout. There are metal roof overhangs throughout the building exterior. A west side exterior wall has a drain that does not connect to any gutters or downspouts and spills out directly down the brick wall resulting in stains and deterioration. It is recommended that the built-up roof be completely replaced and a downspout be added.

A sink in the girl's locker room is falling off the wall and is a safety concern. The ceramic tile walls in both locker rooms have broken tiles. All the tile flooring in the restrooms are outdated and some have missing tiles.

In some of the ADA restrooms the sink piping is not insulated, and most doors do not have compliant ADA door hardware.

The facility's hallway has worn concrete flooring that is stained.

For all other assets typical lifecycle-based interior and exterior finish replacements are budgeted and anticipated.

Mechanical, Electrical, Plumbing and Fire (MEPF)

The control panel for the elevator is outdated and replacement parts have become obsolete.

There is a four-pipe system throughout the building that includes boilers, cooling tower, air handlers, and a water chiller which is currently scheduled to be replaced. The HVAC system feeds into new fan coil units that are in the ceiling throughout the building. During the inspection a noisy unit above entrance to classroom 287 was observed and it is suggested that maintenance person be dedicated to inspecting and repairing the noise issue.

The fire alarm panel located in the main office is outdated. A replacement cost is included.

The PA system is connected to most of the building except the gymnasium. There are complaints that no one can hear the bells or announcements if they are in the gymnasium therefore it can become a safety issue. A retrofit cost is included.

The site generator is old and does not supply enough energy to power all the lights throughout the school. All the electrical distribution panels, motor control centers, switchboards, and an automatic transfer switch are nearing the end of their lifespan. There are also complaints about not enough outlets throughout the building. The cost of updating the electrical system is included.

Site

The bus entrance roadway has alligator cracks throughout.

The asphalt running trail in the sports field and asphalt sidewalk along the sports field has cracks and trip hazards throughout. The small basketball court that was turned into a picnic area has severe cracks and erosion issues from stormwater run-off. The stairwell that leads down to the picnic area is missing a handrail and the cement stairs have started to erode.

At the front entrance walkway there is a section of concrete sidewalk that is upheaved by tree roots and has become a trip hazard. The cost to repair the section of sidewalk is included.

There is a section of fencing that is broken off at the rear of the building across from the cooling tower. A replacement cost is included.

Complaints about the main parking lot not having direct building entrance access to people using the ADA parking spaces have been expressed. There are a couple ADA parking spaces at the front of the building which have the closest and most direct access to the building, but majority of ADA parking spaces are located in the main parking lot on the right side of the building. These parking spaces are much farther away from the main entrance to the school and are inconvenient. Relocating ADA parking from the main parking lot to spaces at the front parking lot would solve this problem.

Recommended Additional Studies

No additional studies recommended at this time.

Facility Condition Index (FCI)

One of the major goals of the FCA is to calculate the Facility Condition Index (FCI), which provides a theoretical objective indication of a facility's overall condition. The FCI is defined as the ratio of the cost of current needs divided by the current replacement value (CRV) of the facility. In this report, each building is considered as a separate facility. The chart below presents the industry standard ranges and cut-off points.

FCI Ranges and Description	
0 – 5%	In new or well-maintained condition, with little or no visual evidence of wear or
5 – 10%	Subjected to wear but is still in a serviceable and functioning condition.
10 – 30%	Subjected to hard or long-term wear. Nearing the end of its useful or serviceable life.
30% and above	Has reached the end of its useful or serviceable life. Renewal is now necessary.

The deficiencies and lifecycle needs identified in this assessment provide the basis for a portfolio-wide capital improvement funding strategy. In addition to the current FCI, extended FCI's have been developed to provide owners the intelligence needed to plan and budget for the "keep-up costs" for their facilities. As such the 3-year, 5-year, and 10-year FCI's are calculated by dividing the anticipated needs of those respective time periods by current replacement value. As a final point, the FCI's ultimately provide more value when used to compare facilities across a portfolio instead of being over-analyzed and scrutinized as stand-alone mathematical values. The table below presents the current, 3-year, 5-year, and 10-year FCI's for each facility:

FCI Analysis | Thomas C. Boushall Middle School / Main Building(1986)

Replacement Value	*Total SF*	*Cost/SF*
$ 44,985,500	*128,530*	*$ 350*

	Est Reserve Cost	FCI
Current	$ 84,100	**0.2 %**
3-Year	$ 4,279,100	9.5 %
5-Year	$ 5,679,700	12.6 %
10-Year	$ 12,207,600	27.1 %

Immediate Needs

Facility/Building	Total Items	Total Cost
Thomas C. Boushall Middle School / Main Building	3	$84,100
Thomas C. Boushall Middle School / Site	4	$20,300
Total	**7**	**$104,400**

Main Building

ID	Location Description	UF Code	Description	Condition	Plan Type	Cost
7526103	Outside Room 287	D3050	HVAC System, any type, Repairs per Man-Day, Repair	Poor	Performance/Integrity	$1,300
7526129	Throughout building	Y1030	ADA Entrances & Doors, Hardware, Lever Handle, Install	Poor	Accessibility	$82,500
7526085	Throughout building	Y1050	ADA Restrooms, Lavatory, Pipe Wraps/Insulation, Install	Poor	Accessibility	$300
Total (3 items)						**$84,100**

Site

ID	Location Description	UF Code	Description	Condition	Plan Type	Cost
7526470	Site stair to play court	G2030	Site Stairs & Ramps, Steps, Concrete (per LF of nosing), Replace	Poor	Safety	$5,800

7526116	Site	G2030	Sidewalk, any pavement type, Sectional Repairs (per Man-Day), Repair	Poor	Safety	$1,000
7500401	Site	G2050	Sports Apparatus, Basketball, Backboard/Rim/Pole, Replace	Failed	Performance/Integrity	$9,500
7527454	Right side parking lot to front lot	Y1010	ADA Parking, Designated Stall, Pavement Markings & Signage, Install	Poor	Accessibility	$4,000
Total (4 items)						**$20,300**

Key Findings

Sidewalk in Poor condition.

any pavement type, Sectional Repairs (per Man-Day)
Site Thomas C. Boushall Middle School Site

Uniformat Code: G2030
Recommendation: **Repair in 2024**

Priority Score: **94.9**

Plan Type: Safety

Cost Estimate: $1,000

**$$**$$

Sidewalk is upheaved from tree root and poses a potential trip hazard. There was a report of a teacher tripping incident. - AssetCALC ID: 7526116

Site Stairs & Ramps in Poor condition.

Steps, Concrete (per LF of nosing)
Site Thomas C. Boushall Middle School Site
stair to play court

Uniformat Code: G2030
Recommendation: **Replace in 2024**

Priority Score: **94.9**

Plan Type: Safety

Cost Estimate: $5,800

**$$**$$

Stairway is crumbing and handrails bent or missing. Water runoff makes for muddy and slippery conditions. - AssetCALC ID: 7526470

Generator in Poor condition.

Diesel
Main Building Thomas C. Boushall Middle School Site

Uniformat Code: D5010
Recommendation: **Replace in 2025**

Priority Score: **88.8**

Plan Type: Performance/Integrity

Cost Estimate: $40,000

**$$$**$

Antiquated, rust deteriorated, very loud, leaks, and does not supply much energy. - AssetCALC ID: 7500323

Roofing in Poor condition.

Built-Up
Main Building Thomas C. Boushall Middle School Roof

Uniformat Code: B3010
Recommendation: **Replace in 2025**

Priority Score: **88.8**

Plan Type: Performance/Integrity

Cost Estimate: $1,036,000

$$$$

Roof leaks reported throughout. - AssetCALC ID: 7526734

Wall Finishes in Poor condition.

Ceramic Tile
Main Building Thomas C. Boushall Middle School Locker rooms

Uniformat Code: C2010
Recommendation: **Replace in 2026**

Priority Score: **86.7**

Plan Type: Performance/Integrity

Cost Estimate: $18,000

**$$$**$

Worn out and cracked at some spots - AssetCALC ID: 7526118

Elevator Controls in Poor condition.

Automatic, 1 Car
Main Building Thomas C. Boushall Middle School Elevator

Uniformat Code: D1010
Recommendation: **Replace in 2025**

Priority Score: **85.8**

Plan Type: Performance/Integrity

Cost Estimate: $5,000

**$$**$$

Elevator controls are old and parts are hard to replace - AssetCALC ID: 7500334

Sidewalk in Poor condition.

Asphalt
Site Thomas C. Boushall Middle School Walkway near tennis courts

Uniformat Code: G2030
Recommendation: **Overlay in 2026**

Priority Score: **85.7**

Plan Type: Performance/Integrity

Cost Estimate: $3,800

**$$**$$

Cracks and water runoff damage - AssetCALC ID: 7526472

Roadways in Poor condition.

Pavement, Asphalt
Site Thomas C. Boushall Middle School Front parking lot/roadway/bus unloading area

Uniformat Code: G2010
Recommendation: **Mill & Overlay in 2026**

Priority Score: **84.7**

Plan Type: Performance/Integrity

Cost Estimate: $41,300

**$$$**$

Alligator cracks throughout - AssetCALC ID: 7500406

Electrical System in Poor condition.

Wiring & Switches, Average or Low Density/Complexity
Main Building Thomas C. Boushall Middle School Throughout building

Uniformat Code: D5030
Recommendation: **Replace in 2026**

Priority Score: **84.7**

Plan Type: Performance/Integrity

Cost Estimate: $321,300

$$$$

Outdated panels, switchboards, automatic transfer switch, and issues with not enough outlets - AssetCALC ID: 7526787

Running Track in Poor condition.

Pavement, Asphalt
Site Thomas C. Boushall Middle School Site

Uniformat Code: G2010
Recommendation: **Overlay in 2026**

Priority Score: **84.7**

Plan Type: Performance/Integrity

Cost Estimate: $69,400

$$$$

Asphalt track has cracks throughout. - AssetCALC ID: 7500437

Sports Apparatus in Failed condition.

Basketball, Backboard/Rim/Pole
Site Thomas C. Boushall Middle School Site

Uniformat Code: G2050
Recommendation: **Replace in 2024**

Priority Score: **82.9**

Plan Type: Performance/Integrity

Cost Estimate: $9,500

**$$**$$

No hoop or rim - AssetCALC ID: 7500401

Athletic Surfaces & Courts in Poor condition.

Basketball/General, Asphalt Pavement
Site Thomas C. Boushall Middle School
Building Rear near sports fields

Uniformat Code: G2050
Recommendation: **Replace in 2025**

Priority Score: **82.8**

Plan Type: Performance/Integrity

Cost Estimate: $39,000

**$$$**$

Deep cracks throughout. - AssetCALC ID: 7526473

Fire Alarm Panel in Poor condition.

Fully Addressable
Main Building Thomas C. Boushall Middle School Main Office

Uniformat Code: D7050
Recommendation: **Replace in 2025**

Priority Score: **81.8**

Plan Type: Performance/Integrity

Cost Estimate: $15,000

**$$$**$

Outdated - AssetCALC ID: 7500382

Automatic Transfer Switch in Poor condition.

ATS
Main Building Thomas C. Boushall Middle School Main electrical

Uniformat Code: D5010
Recommendation: **Replace in 2025**

Priority Score: **81.8**

Plan Type: Performance/Integrity

Cost Estimate: $7,300

**$$**$$

Very outdated - AssetCALC ID: 7500433

Flooring in Poor condition.

Ceramic Tile
Main Building Thomas C. Boushall Middle School Restrooms

Uniformat Code: C2030
Recommendation: **Replace in 2026**

Priority Score: **81.7**

Plan Type: Performance/Integrity

Cost Estimate: $46,800

**$$$**$

Outdated and worn out - AssetCALC ID: 7526130

ADA Entrances & Doors in Poor condition.

Hardware, Lever Handle
Main Building Thomas C. Boushall Middle School Throughout building

Uniformat Code: Y1030
Recommendation: **Install in 2024**

Priority Score: **63.9**

Plan Type: Accessibility

Cost Estimate: $82,500

$$$$

Most doors are knobs - AssetCALC ID: 7526129

Intercom/PA System in Poor condition.

Intercom System Upgrade, Facility-Wide
Main Building Thomas C. Boushall Middle School Gymnasium

Uniformat Code: D6060
Recommendation: **Replace in 2025**

Priority Score: **54.8**

Plan Type: Retrofit/Adaptation

Cost Estimate: $9,000

**$$**$$

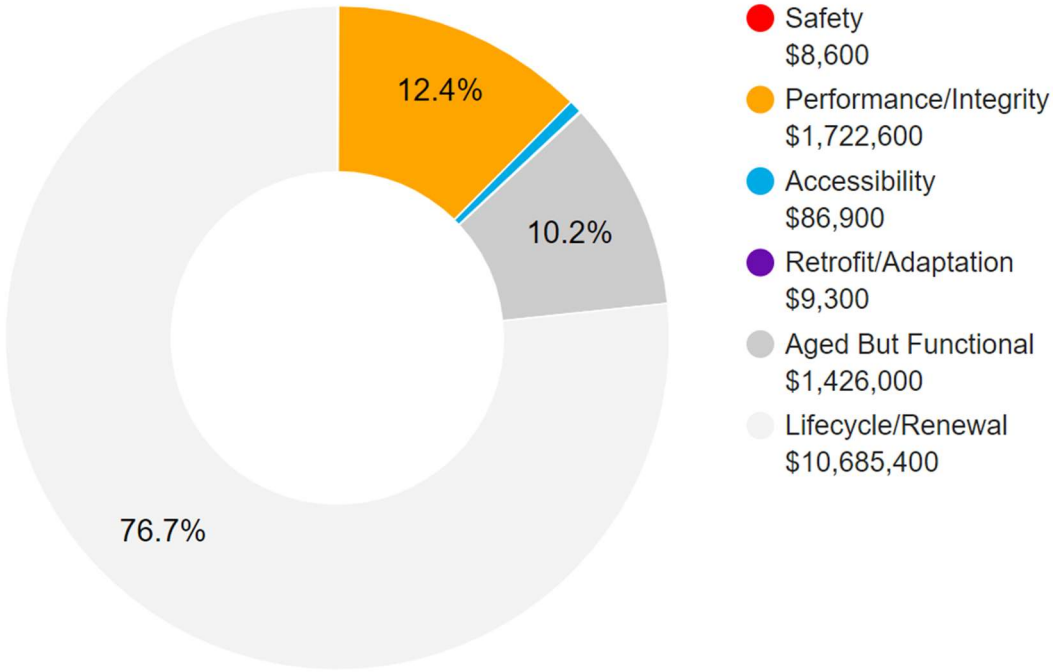
Pa system in gymnasium does not work - AssetCALC ID: 7526113

Plan Types

Each line item in the cost database is assigned a Plan Type, which is the primary reason or rationale for the recommended replacement, repair, or other corrective action. This is the "why" part of the equation. A cost or line item may commonly have more than one applicable Plan Type; however, only one Plan Type will be assigned based on the "best" fit, typically the one with the greatest significance and highest on the list below.

Plan Type Descriptions	
Safety	An observed or reported unsafe condition that if left unaddressed could result in injury; a system or component that presents potential liability risk.
Performance/Integrity	Component or system has failed, is almost failing, performs unreliably, does not perform as intended, and/or poses risk to overall system stability.
Accessibility	Does not meet ADA, UFAS, and/or other accessibility requirements.
Environmental	Improvements to air or water quality, including removal of hazardous materials from the building or site.
Retrofit/Adaptation	Components, systems, or spaces recommended for upgrades in in order to meet current standards, facility usage, or client/occupant needs.
Lifecycle/Renewal	Any component or system that is neither deficient nor aged past EUL but for which future replacement or repair is anticipated and budgeted.

Plan Type Distribution (by Cost)



10-YEAR TOTAL: $13,938,800

2. Building Information

Building Systems Summary		
Address	3400 Hopkins Road; Richmond VA	
Constructed/Renovated	1986	
Building Area	128,530 SF	
Number of Stories	2 above grade	
System	*Description*	*Condition*
Structure	Masonry bearing walls with metal roof deck supported by open-web steel joists and concrete strip/wall footing foundation system	Fair
Façade	Primary Wall Finish: Brick Windows: Aluminum	Fair
Roof	Primary: Flat construction with built-up roofing Secondary: Shed construction with metal finish	Poor
Interiors	Walls: Painted gypsum board, painted CMU, wood paneling, vinyl, ceramic tile, unfinished Floors: Carpet, VCT, ceramic tile, quarry tile, terrazzo, sealed concrete, Unfinished Ceilings: Painted gypsum board and ACT, Unfinished/exposed	Fair
Elevators	Passenger: 1 hydraulic car serving all 2 floors	Fair
Plumbing	Distribution: Copper supply and PVC waste & venting Hot Water: Electric water heaters with integral tanks Fixtures: Toilets, urinals, and sinks in all restrooms	Fair

Building Systems Summary		
HVAC	Central System: Boilers, chillers, air handlers, and cooling tower feeding VAV terminal units Supplemental components: Ductless split-systems and Split-system heat pumps	Fair
Fire Suppression	Wet-pipe sprinkler system and fire extinguishers, and kitchen hood system	Fair
Electrical	Source & Distribution: Main switchboard with copper wiring Interior Lighting: LED, linear fluorescent, CFL Exterior Building-Mounted Lighting: halogen Emergency Power: Diesel generator with automatic transfer switch	Poor
Fire Alarm	Alarm panel with smoke detectors, heat detectors, alarms, strobes, pull stations, back-up emergency lights, and exit signs	Fair
Equipment/Special	Commercial kitchen equipment	Fair
Accessibility	Presently it does not appear an accessibility study is needed for this building. See the appendix for associated photos and additional information.	
Additional Studies	No additional studies are currently recommended for the building.	
Areas Observed	The interior spaces were observed to gain a clear understanding of the facility's overall condition. Other areas accessed and assessed included the exterior equipment and assets directly serving the building, the exterior walls of the facility, and the roofs.	
Key Spaces Not Observed	All key areas of the facility were accessible and observed.	

The table below shows the anticipated costs by trade or building system over the next 20 years.

System Expenditure Forecast

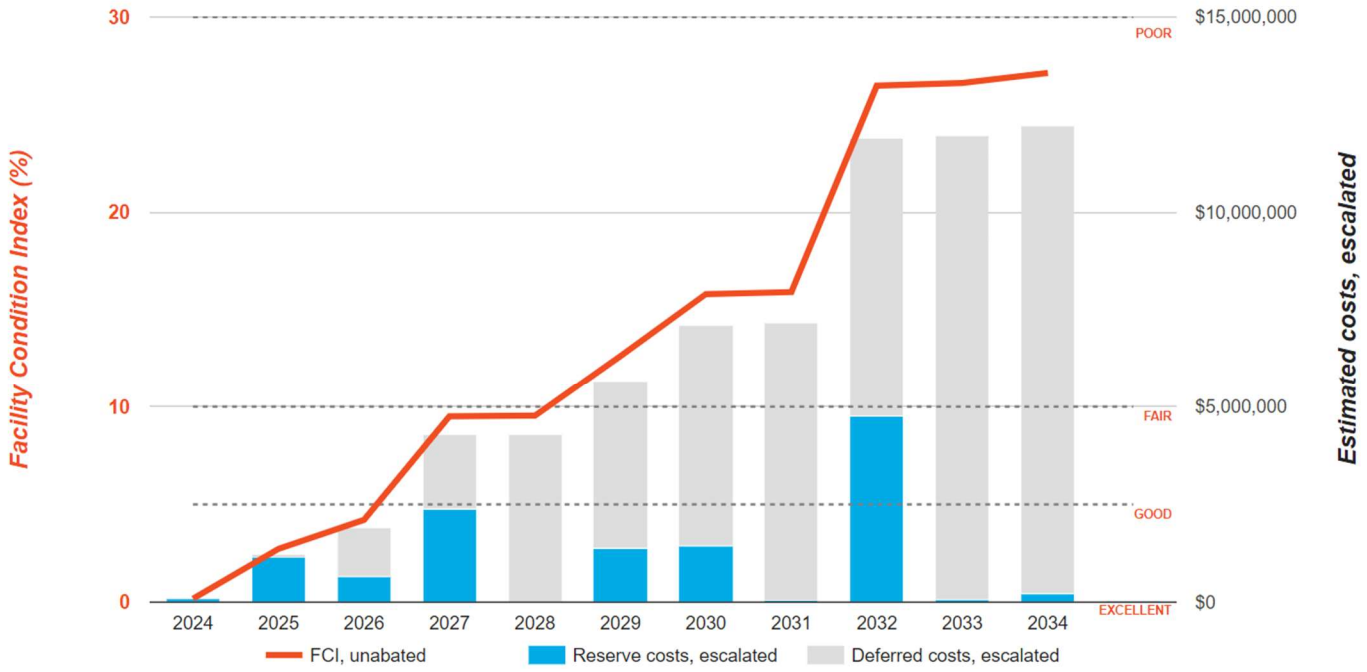
System	Immediate	Short Term (1-2 yr)	Near Term (3-5 yr)	Med Term (6-10 yr)	Long Term (11-20 yr)	TOTAL
Structure	-	-	-	-	-	-
Facade	-	-	$299,200	$8,600	-	$307,800
Roofing	-	$1,067,300	$82,100	-	-	$1,149,500
Interiors	-	$134,800	$4,600	$1,468,400	$924,300	$2,532,100
Conveying	-	$5,200	$63,400	-	$4,400	$72,900
Plumbing	-	$1,800	$45,000	$2,030,800	$55,800	$2,133,400
HVAC	$1,300	-	$1,246,100	$2,036,700	$2,185,900	$5,470,000
Fire Protection	-	-	$702,200	$5,400	-	$707,600
Electrical	-	$578,500	$736,100	-	$293,800	$1,608,300
Fire Alarm & Electronic Systems	-	$24,700	$372,500	$865,400	$604,400	$1,867,000
Equipment & Furnishings	-	-	$159,700	$112,600	$138,500	$410,800
Site Utilities	-	-	$6,500	-	-	$6,500
Site Development	-	-	$66,100	-	-	$66,100
Accessibility	$82,800	-	-	-	-	$82,800
TOTALS (3% inflation)	**$84,100**	**$1,812,200**	**$3,783,400**	**$6,527,900**	**$4,207,200**	**$16,414,800**

NEEDS OVER TIME: The vertical blue bars in the graphic below represent the year-by-year needs identified for the facility. The orange line forecasts what would happen to the FCI (left Y axis) over time, assuming zero capital expenditures over the next ten years. The dollar amounts allocated for each year are associated with the values along the right Y axis.

Needs by Year with Unaddressed FCI Over Time

FCI Analysis: Thomas C. Boushall Middle School Main Building

Replacement Value: $44,985,500 Inflation Rate: 3.0% Average Needs per Year: $1,109,800



Building 1: Photographic Overview

1 - FRONT ELEVATION

2 - LEFT ELEVATION

3 - RIGHT ELEVATION

4 - REAR ELEVATION

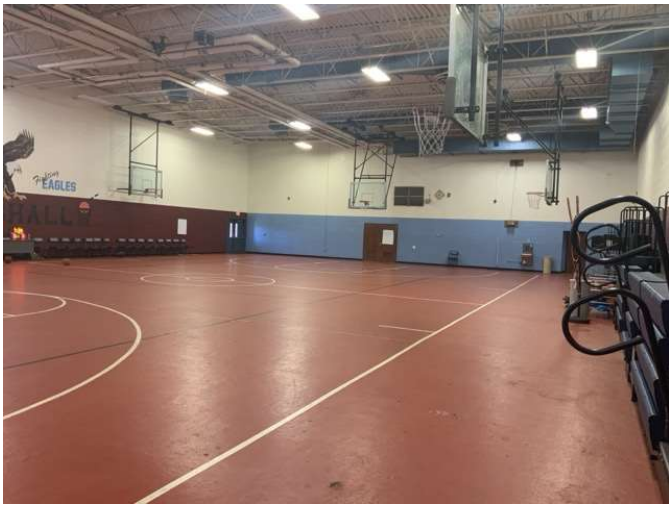
5 - ROOF

6 - MEDIA CENTER

7 - KITCHEN

8 - CAFETERIA

9 - MAIN OFFICE



10 - GYMNASIUM

11 – BOILER ROOM

12 – ELEVATOR ROOM

3. Site Summary

Site Information		
Site Area	14.3 acres (estimated)	
Parking Spaces	141 total spaces all in open lots; 9 of which are accessible	
System	*Description*	*Condition*
Pavement/Flatwork	Asphalt lots with limited areas of concrete aprons and pavement and adjacent concrete sidewalks, curbs, ramps, and stairs	Fair
Site Development	Property entrance signage; chain link fencing; No dumpster enclosures Playgrounds and sports fields and courts with bleachers, and site lights Limited park benches, picnic tables, trash receptacles	Fair
Landscaping and Topography	Limited landscaping features including lawns, trees, bushes, and planters Irrigation not present Concrete retaining walls Low to moderate site slopes throughout	Fair
Utilities	Municipal water and sewer Local utility-provided electric	Fair
Site Lighting	Pole-mounted: LED Pedestrian walkway and landscape accent lighting	Fair
Ancillary Structures	None	--

Site Information	
Site Accessibility	Presently it does not appear an accessibility study is needed for the exterior site areas. See the appendix for associated photos and additional information.
Site Additional Studies	No additional studies are currently recommended for the exterior site areas.
Site Areas Observed	The exterior areas within the property boundaries were observed to gain a clear understanding of the site's overall condition.
Site Key Spaces Not Observed	All key areas of the exterior site were accessible and observed.

The table below shows the anticipated costs by trade or site system over the next 20 years.

System Expenditure Forecast

System	Immediate	Short Term (1-2 yr)	Near Term (3-5 yr)	Med Term (6-10 yr)	Long Term (11-20 yr)	TOTAL
Site Pavement	$6,800	$121,400	$31,200	$317,700	$301,700	$778,900
Site Development	$9,500	$41,000	$36,800	$211,100	$453,200	$751,600
Site Utilities	-	-	-	$116,700	$50,100	$166,700
Accessibility	$4,000	-	-	-	-	$4,000
TOTALS (3% inflation)	**$20,300**	**$162,400**	**$68,000**	**$645,500**	**$805,000**	**$1,701,200**

Site: Photographic Overview

1 – RIGHT PARKING LOT

2 – REAR PARKING LOT

3 - FENCING

4 – DUMPSTER AREA

5 – TENNIS COURTS

6 - SIGNAGE

4. ADA Accessibility

Generally, Title II of the Americans with Disabilities Act (ADA) prohibits discrimination by entities to access and use of “areas of public accommodations” and “public facilities” on the basis of disability. Regardless of their age, these areas and facilities must be maintained and operated to comply with the Americans with Disabilities Act Accessibility Guidelines (ADAAG).

A public entity (i.e. city governments) shall operate each service, program, or activity so that the service, program, or activity, when viewed in its entirety, is readily accessible to and usable by individuals with disabilities.

However, this does not:

1. Necessarily require a public entity to make each of its existing facilities accessible to and usable by individuals with disabilities;
2. Require a public entity to take any action that would threaten or destroy the historic significance of an historic property; or
3. Require a public entity to take any action that it can demonstrate would result in a fundamental alteration in the nature of a service, program, or activity or in undue financial and administrative burdens. In those circumstances where personnel of the public entity believe that the proposed action would fundamentally alter the service, program, or activity or would result in undue financial and administrative burdens, a public entity has the burden of proving that compliance with 35.150(a) of this part would result in such alteration or burdens. The decision that compliance would result in such alteration or burdens must be made by the head of a public entity or his or her designee after considering all resources available for use in the funding and operation of the service, program, or activity, and must be accompanied by a written statement of the reasons for reaching that conclusion. If an action would result in such an alteration or such burdens, a public entity shall take any other action that would not result in such an alteration or such burdens but would nevertheless ensure that individuals with disabilities receive the benefits or services provided by the public entity.

Removal of barriers to accessibility should be addressed from a liability standpoint in order to comply with federal law, but the barriers may or may not be building code violations. The Americans with Disabilities Act Accessibility Guidelines are part of the ADA federal civil rights law pertaining to the disabled and are not a construction code. State and local jurisdictions have adopted the ADA Guidelines or have adopted other standards for accessibility as part of their construction codes.

During the FCA, Bureau Veritas performed a limited high-level accessibility review of the facility non-specific to any local regulations or codes. The scope of the visual observation was limited to the same areas observed while performing the FCA and the categories set forth in the material included in the appendix. It is understood by the Client that the limited observations described herein do not comprise a full ADA Compliance Survey, and that such a survey is beyond the scope of this assessment. A full measured ADA survey would be required to identify more specific potential accessibility issues. Additional clarifications of this limited survey:

- This survey was visual in nature and actual measurements were not taken to verify compliance
- Only a representative sample of areas was observed
- Two overview photos were taken for each subsection regardless of perceived compliance or non-compliance
- Itemized costs for individual non-compliant items are included in the dataset
- For any “none” boxes checked or reference to “no issues” identified, that alone does not guarantee full compliance

No detailed follow-up accessibility study is currently recommended since no major or moderate issues were identified at the subject site. Reference the appendix for specific data, photos, and tables or checklists associated with this limited accessibility survey.

5. Purpose and Scope

Purpose

Bureau Veritas was retained by the client to render an opinion as to the Property's current general physical condition on the day of the site visit.

Based on the observations, interviews and document review outlined below, this report identifies significant deferred maintenance issues, existing deficiencies, and material code violations of record, which affect the Property's use. Opinions are rendered as to its structural integrity, building system condition and the Property's overall condition. The report also notes building systems or components that have realized or exceeded their typical expected useful lives.

The physical condition of building systems and related components are typically defined as being in one of five condition ratings. For the purposes of this report, the following definitions are used:

Condition Ratings	
Excellent	New or very close to new; component or system typically has been installed within the past year, sound and performing its function. Eventual repair or replacement will be required when the component or system either reaches the end of its useful life or fails in service.
Good	Satisfactory as-is. Component or system is sound and performing its function, typically within the first third of its lifecycle. However, it may show minor signs of normal wear and tear. Repair or replacement will be required when the component or system either reaches the end of its useful life or fails in service.
Fair	Showing signs of wear and use but still satisfactory as-is, typically near the median of its estimated useful life. Component or system is performing adequately at this time but may exhibit some signs of wear, deferred maintenance, or evidence of previous repairs. Repair or replacement will be required due to the component or system's condition and/or its estimated remaining useful life.
Poor	Component or system is significantly aged, flawed, functioning intermittently or unreliably; displays obvious signs of deferred maintenance; shows evidence of previous repair or workmanship not in compliance with commonly accepted standards; has become obsolete; or exhibits an inherent deficiency. The present condition could contribute to or cause the deterioration of contiguous elements or systems. Either full component replacement is needed or repairs are required to restore to good condition, prevent premature failure, and/or prolong useful life.
Failed	Component or system has ceased functioning or performing as intended. Replacement, repair, or other significant corrective action is recommended or required.
Not Applicable	Assigning a condition does not apply or make logical sense, most commonly due to the item in question not being present.

Scope

The standard scope of the Facility Condition Assessment includes the following:

- Visit the Property to evaluate the general condition of the building and site improvements, review available construction documents in order to familiarize ourselves with, and be able to comment on, the in-place construction systems, life safety, mechanical, electrical, and plumbing systems, and the general built environment.
- Identify those components that are exhibiting deferred maintenance issues and provide cost estimates for Immediate Costs and Replacement Reserves based on observed conditions, maintenance history and industry standard useful life estimates. This will include a review of documented capital improvements completed within the last five-year period and work currently contracted for, if applicable.
- Provide a full description of the Property with descriptions of in-place systems and commentary on observed conditions.
- Provide a high-level categorical general statement regarding the subject Property's compliance to Title III of the Americans with Disabilities Act. This will not constitute a full ADA survey, but will help identify exposure to issues and the need for further review.
- Obtain background and historical information about the facility from a building engineer, property manager, maintenance staff, or other knowledgeable source. The preferred methodology is to have the client representative or building occupant complete a Pre-Survey Questionnaire (PSQ) in advance of the site visit. Common alternatives include a verbal interview just prior to or during the walk-through portion of the assessment.
- Review maintenance records and procedures with the in-place maintenance personnel.
- Observe a representative sample of the interior spaces/units, including vacant spaces/units, to gain a clear understanding of the property's overall condition. Other areas to be observed include the exterior of the property, the roofs, interior common areas, and the significant mechanical, electrical and elevator equipment rooms.
- Provide recommendations for additional studies, if required, with related budgetary information.
- Provide an Executive Summary at the beginning of this report, which highlights key findings and includes a Facility Condition Index as a basis for comparing the relative conditions of the buildings within the portfolio.

6. Opinions of Probable Costs

Cost estimates are attached throughout this report, with the Replacement Reserves in the appendix.

These estimates are based on Invoice or Bid Document/s provided either by the Owner/facility and construction costs developed by construction resources such as *R.S. Means, CBRE Whitestone,* and *Marshall & Swift,* Bureau Veritas's experience with past costs for similar properties, city cost indexes, and assumptions regarding future economic conditions.

Opinions of probable costs should only be construed as preliminary, order of magnitude budgets. Actual costs most probably will vary from the consultant's opinions of probable costs depending on such matters as type and design of suggested remedy, quality of materials and installation, manufacturer and type of equipment or system selected, field conditions, whether a physical deficiency is repaired or replaced in whole, phasing or bundling of the work (if applicable), quality of contractor, quality of project management exercised, market conditions, use of subcontractors, and whether competitive pricing is solicited, etc. Certain opinions of probable costs cannot be developed within the scope of this guide without further study. Opinions of probable cost for further study should be included in the FCA.

Methodology

Based upon site observations, research, and judgment, along with referencing Expected Useful Life (EUL) tables from various industry sources, Bureau Veritas opines as to when a system or component will most probably necessitate replacement. Accurate historical replacement records, if provided, are typically the best source of information. Exposure to the elements, initial quality and installation, extent of use, the quality and amount of preventive maintenance exercised, etc., are all factors that impact the effective age of a system or component. As a result, a system or component may have an effective age that is greater or less than its actual chronological age. The Remaining Useful Life (RUL) of a component or system equals the EUL less its *effective age*, whether explicitly or implicitly stated. Projections of Remaining Useful Life (RUL) are based primarily on age and condition with the presumption of continued use and maintenance of the Property similar to the observed and reported past use and maintenance practices, in conjunction with the professional judgment of Bureau Veritas's assessors. Significant changes in occupants and/or usage may affect the service life of some systems or components.

Where quantities could not be or were not derived from an actual construction document take-off or facility walk-through, and/or where systemic costs are more applicable or provide more intrinsic value, budgetary square foot and gross square foot costs are used. Estimated costs are based on professional judgment and the probable or actual extent of the observed defect, inclusive of the cost to design, procure, construct and manage the corrections.

Definitions

Immediate Needs

Immediate Needs are line items that require immediate action as a result of: (1) material existing or potential unsafe conditions, (2) failed or imminent failure of mission critical building systems or components, or (3) conditions that, if not addressed, have the potential to result in, or contribute to, critical element or system failure within one year or will most probably result in a significant escalation of its remedial cost.

For database and reporting purposes the line items with RUL=0, and commonly associated with *Safety* or *Performance/Integrity* Plan Types, are considered Immediate Needs.

Replacement Reserves

Cost line items traditionally called Replacement Reserves (equivalently referred to as Lifecycle/Renewals) are for recurring probable renewals or expenditures, which are not classified as operation or maintenance expenses. The replacement reserves should be budgeted for in advance on an annual basis. Replacement Reserves are reasonably predictable both in terms of frequency and cost. However, Replacement Reserves may also include components or systems that have an indeterminable life but, nonetheless, have a potential for failure within an estimated time period.

Replacement Reserves generally exclude systems or components that are estimated to expire after the reserve term and are not considered material to the structural and mechanical integrity of the subject property. Furthermore, systems and components that are not deemed to have a material effect on the use of the Property are also excluded. Costs that are caused by acts of God, accidents, or other occurrences that are typically covered by insurance, rather than reserved for, are also excluded.

Replacement costs are solicited from ownership/property management, Bureau Veritas's discussions with service companies, manufacturers' representatives, and previous experience in preparing such schedules for other similar facilities. Costs for work performed by the ownership's or property management's maintenance staff are also considered.

Bureau Veritas's reserve methodology involves identification and quantification of those systems or components requiring capital reserve funds within the assessment period. The assessment period is defined as the effective age plus the reserve term. Additional information concerning system or component replacement costs (in today's dollars), typical expected useful lives, and remaining useful lives were estimated so that a funding schedule could be prepared. The Replacement Reserves Schedule presupposes that all required remedial work has been performed or that monies for remediation have been budgeted for items defined as Immediate Needs.

For the purposes of 'bucketizing' the System Expenditure Forecasts in this report, the Replacement Reserves have been subdivided and grouped as follows: Short Term (years 1-3), Near Term (years 4-5), Medium Term (years 6-10), and Long Term (years 11-20).

Key Findings

In an effort to highlight the most significant cost items and not be overwhelmed by the Replacement Reserves report in its totality, a subsection of Key Findings is included within the Executive Summary section of this report. Key Findings typically include repairs or replacements of deficient items within the first five-year window, as well as the most significant high-dollar line items that fall anywhere within the ten-year term. Note that while there is some subjectivity associated with identifying the Key Findings, the Immediate Needs are always included as a subset.

7. Certification

Richmond Public Schools (the Client) retained Bureau Veritas to perform this Facility Condition Assessment in connection with its continued operation of Thomas C. Boushall Middle School, 3400 Hopkins Road, Richmond, VA 23234, the "Property". It is our understanding that the primary interest of the Client is to locate and evaluate materials and building system defects that might significantly affect the value of the property and to determine if the present Property has conditions that will have a significant impact on its continued operations.

The conclusions and recommendations presented in this report are based on the brief review of the plans and records made available to our Project Manager during the site visit, interviews of available property management personnel and maintenance contractors familiar with the Property, appropriate inquiry of municipal authorities, our Project Manager's walk-through observations during the site visit, and our experience with similar properties.

No testing, exploratory probing, dismantling or operating of equipment or in-depth studies were performed unless specifically required under the *Purpose and Scope* section of this report. This assessment did not include engineering calculations to determine the adequacy of the Property's original design or existing systems. Although walk-through observations were performed, not all areas may have been observed (see Section 1 for specific details). There may be defects in the Property, which were in areas not observed or readily accessible, may not have been visible, or were not disclosed by management personnel when questioned. The report describes property conditions at the time that the observations and research were conducted.

This report has been prepared for and is exclusively for the use and benefit of the Client identified on the cover page of this report. The purpose for which this report shall be used shall be limited to the use as stated in the contract between the client and Bureau Veritas.

This report, or any of the information contained therein, is not for the use or benefit of, nor may it be relied upon by any other person or entity, for any purpose without the advance written consent of Bureau Veritas. Any reuse or distribution without such consent shall be at the client's or recipient's sole risk, without liability to Bureau Veritas.

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Reviewed by:

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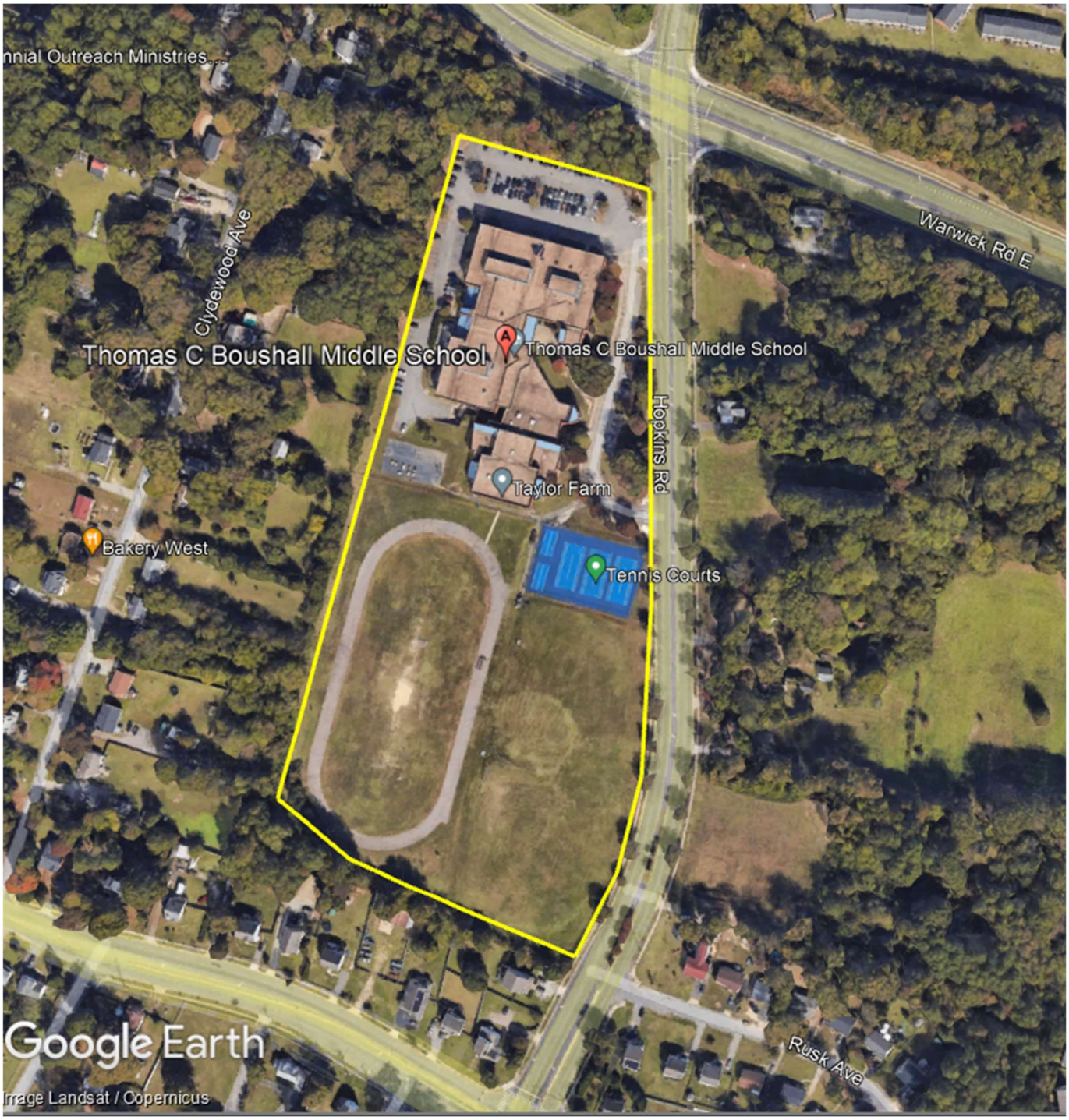
8. Appendices

Appendix A: Site Plan
Appendix B: Pre-Survey Questionnaires
Appendix C: Accessibility Review and Photos
Appendix D: Component Condition Report
Appendix E: Replacement Reserves
Appendix F: Equipment Inventory List

Appendix A:
Site Plan

Site Plan



Project Number	Project Name
166385.24R000-030.468	Thomas C. Boushall Middle School
Source	**On-Site Date**
Google Maps	April 4, 2024

N

Appendix B:
Pre-Survey Questionnaires

BV FACILITY CONDITION ASSESSMENT: PRE-SURVEY QUESTIONNAIRE

Building / Facility Name: Thomas C. Boushall Middle School

Name of person completing form: Facility Manager

Title / Association w/ property:

Length of time associated w/ property: 24 years

Date Completed: 4/4/2024

Phone Number:

Method of Completion: DURING - verbally completed during assessment

Directions: Please answer all questions to the best of your knowledge and in good faith. Please provide additional details in the Comments column, or backup documentation for any ***Yes*** responses.

Data Overview		Response		
1	Year(s) constructed	Constructed: 1986	Renovated:	
2	Building size in SF	128,530 **SF**		
3	Major Renovation/Rehabilitation		Year	Additional Detail
		Facade		
		Roof		
		Interiors		
		HVAC	2023	Fan coils
		Electrical		
		Site Pavement		
		Accessibility		
4	List other significant capital improvements (focus on recent years; provide approximate date).	In ceiling fan coils throughout building 2023		
5	List any major capital expenditures planned/requested for the next few years. Have they been budgeted?	New water chiller is going to be installed soon		
6	Describe any on-going extremely problematic, historically chronic, or immediate facility needs.	Old fire alarm panel needs replacement, sidewalk at main entrance is upheaved and is a tripping hazard, generator is old and doesn't generate enough energy, built-up roof has leaks		

Mark the column corresponding to the appropriate response. Please provide additional details in the Comments column, or backup documentation for any ***Yes*** responses. (**NA** indicates "*Not Applicable*", **Unk** indicates "*Unknown*")

	Question	Response				Comments
		Yes	No	Unk	NA	
7	Are there any problems with foundations or structures, like excessive settlement?		X			
8	Are there any wall, window, basement or roof leaks?	X				Roof leaks
9	Has any part of the facility ever contained visible suspect mold growth, or have there been any indoor air quality complaints?		X			
10	Are your elevators unreliable, with frequent service calls?	X				The elevator controls are outdated and parts are hard to come by
11	Are there any plumbing leaks, water pressure, or clogging/backup issues?		X			
12	Have there been any leaks or pressure problems with natural gas, HVAC piping, or steam service?		X			
13	Are any areas of the facility inadequately heated, cooled or ventilated? Poorly insulated areas?		X			
14	Is the electrical service outdated, undersized, or problematic?	X				Not enough outlets
15	Are there any problems or inadequacies with exterior lighting?		X			
16	Is site/parking drainage inadequate, with excessive ponding or other problems?		X			
17	Are there any other unresolved construction defects or significant issues/hazards at the property that have not yet been identified above?		X			
18	ADA: Has an accessibility study been previously performed? If so, when?				X	
19	ADA: Have any ADA improvements been made to the property since original construction? Describe.				X	
20	ADA: Has building management reported any accessibility-based complaints or litigation?	X				Right side parking lot has 4 ADA spaces that dont have direct access to building entrance, its a long way to the main entrance.
21	Are any areas of the property leased to outside occupants?		X			

Signature of Assessor

Signature of POC

Appendix C:
Accessibility Review and Photos

Visual Checklist - 2010 ADA Standards for Accessible Design

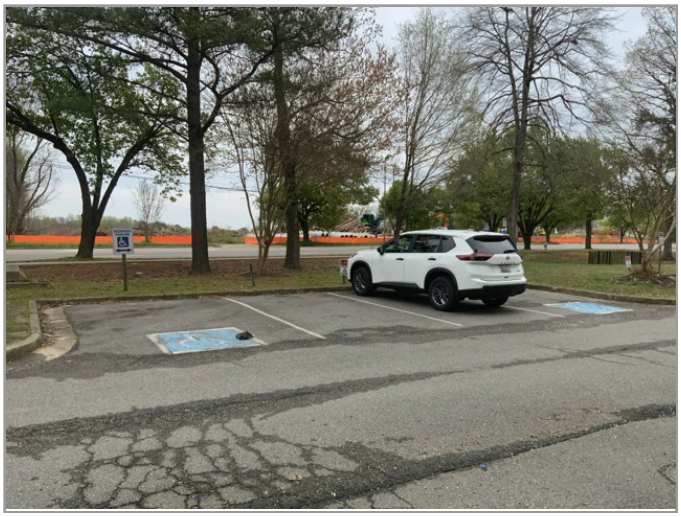
Property Name: Thomas C. Boushall Middle School

BV Project Number: 166385.24R000-030.468

Abbreviated Accessibility Checklist					
Facility History & Interview					
Question		Yes	No	Unk	Comments
1	Has an accessibility study been previously performed? If so, when?			X	
2	Have any ADA improvements been made to the property since original construction? Describe.			X	
3	Has building management reported any accessibility-based complaints or litigation?	X			Right side parking lot has 4 ADA spaces that don't have direct access to building entrance. Its a long way to the main

Abbreviated Accessibility Checklist

Parking



OVERVIEW OF ACCESSIBLE PARKING AREA

CLOSE-UP OF STALL

	Question	Yes	No	NA	Comments
1	Does the required number of standard ADA designated spaces appear to be provided ?	X			
2	Does the required number of van-accessible designated spaces appear to be provided ?	X			
3	Are accessible spaces on the shortest accessible route to an accessible building entrance ?		X		ADA parking at the front does but not at main parking lot.
4	Does parking signage include the International Symbol of Accessibility ?	X			
5	Does each accessible space have an adjacent access aisle ?	X			
6	Do parking spaces and access aisles appear to be relatively level and without obstruction ?	X			

Abbreviated Accessibility Checklist

Exterior Accessible Route

ACCESSIBLE PATH

CURB CUT

	Question	Yes	No	NA	Comments
1	Is an accessible route present from public transportation stops and municipal sidewalks on or immediately adjacent to the property ?	X			
2	Does a minimum of one accessible route appear to connect all public areas on the exterior, such as parking and other outdoor amenities, to accessible building entrances ?	X			
3	Are curb ramps present at transitions through raised curbs on all accessible routes?	X			
4	Do curb ramps appear to have compliant slopes for all components ?			X	
5	Do ramp runs on an accessible route appear to have compliant slopes ?			X	
6	Do ramp runs on an accessible route appear to have a compliant rise and width ?			X	

7	Do ramps on an accessible route appear to have compliant end and intermediate landings ?			✕	
8	Do ramps and stairs on an accessible route appear to have compliant handrails?			✕	
9	For stairways that are open underneath, are permanent barriers present that prevent or discourage access?			✕	

Abbreviated Accessibility Checklist

Building Entrances

ACCESSIBLE ENTRANCE

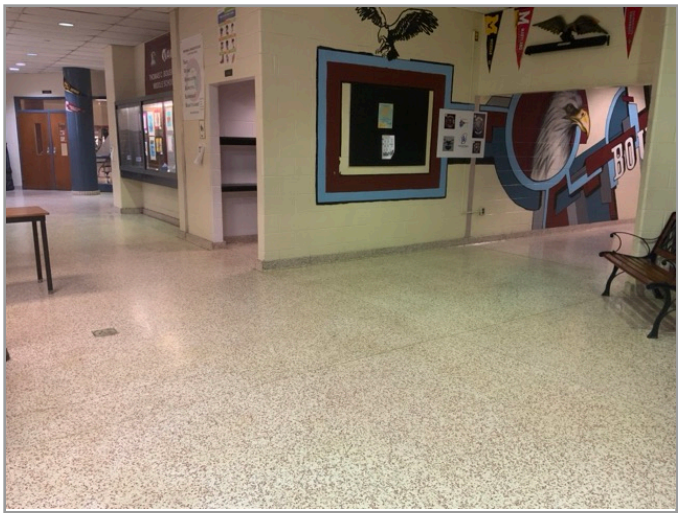
DOOR HARDWARE

	Question	Yes	No	NA	Comments
1	Do a sufficient number of accessible entrances appear to be provided ?	X			
2	If the main entrance is not accessible, is an alternate accessible entrance provided?	X			
3	Is signage provided indicating the location of alternate accessible entrances ?	X			
4	Do doors at accessible entrances appear to have compliant maneuvering clearance area on each side ?	X			
5	Do doors at accessible entrances appear to have compliant hardware ?	X			
6	Do doors at accessible entrances appear to have a compliant clear opening width ?	X			

7	Do pairs of accessible entrance doors in series appear to have the minimum clear space between them ?	✕			
8	Do thresholds at accessible entrances appear to have a compliant height ?	✕			

Abbreviated Accessibility Checklist

Interior Accessible Route



ACCESSIBLE INTERIOR PATH

ACCESSIBLE INTERIOR RAMP

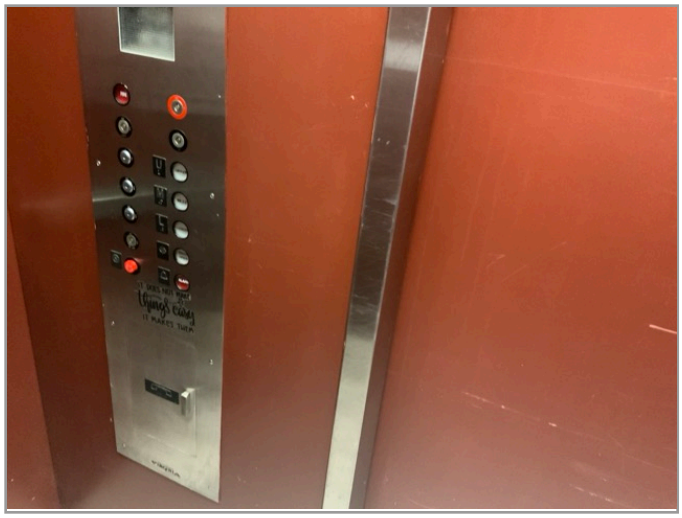
	Question	Yes	No	NA	Comments
1	Does an accessible route appear to connect all public areas inside the building ?	X			
2	Do accessible routes appear free of obstructions and/or protruding objects ?	X			
3	Do ramps on accessible routes appear to have compliant slopes ?	X			
4	Do ramp runs on an accessible route appear to have a compliant rise and width ?	X			
5	Do ramps on accessible routes appear to have compliant end and intermediate landings ?	X			
6	Do ramps on accessible routes appear to have compliant handrails ?	X			

7	Are accessible areas of refuge and the accessible means of egress to those areas identified with accessible signage ?			X	
8	Do public transaction areas have an accessible, lowered service counter section ?	X			
9	Do public telephones appear mounted with an accessible height and location ?			X	
10	Do doors at interior accessible routes appear to have compliant maneuvering clearance area on each side ?	X			
11	Do doors at interior accessible routes appear to have compliant hardware ?		X		All doors have knobs
12	Do non-fire hinged, sliding, or folding doors on interior accessible routes appear to have compliant opening force ?	X			
13	Do doors on interior accessible routes appear to have a compliant clear opening width ?	X			

Abbreviated Accessibility Checklist

Elevators

LOBBY LOOKING AT CABS



IN-CAB CONTROLS

	Question	Yes	No	NA	Comments
1	Are hallway call buttons configured with the “UP” button above the “DOWN” button?	X			
2	Is accessible floor identification signage present on the hoistway sidewalls on each level ?	X			
3	Do the elevators have audible and visual arrival indicators at the lobby and hallway entrances?	X			
4	Do the elevator hoistway and car interior appear to have a minimum compliant clear floor area ?	X			
5	Do the elevator car doors have automatic re-opening devices to prevent closure on obstructions?	X			
6	Do elevator car control buttons appear to be mounted at a compliant height ?	X			

7	Are tactile and Braille characters mounted to the left of each elevator car control button ?	✕			
8	Are audible and visual floor position indicators provided in the elevator car?	✕			
9	Is the emergency call system on or adjacent to the control panel and does it not require voice communication ?	✕			

Abbreviated Accessibility Checklist

Public Restrooms

TOILET STALL OVERVIEW

SINK, FAUCET HANDLES AND ACCESSORIES

	Question	Yes	No	NA	Comments
1	Do publicly accessible toilet rooms appear to have a minimum compliant floor area ?	X			
2	Does the lavatory appear to be mounted at a compliant height and with compliant knee area ?	X			
3	Does the lavatory faucet have compliant handles ?	X			
4	Is the plumbing piping under lavatories configured to protect against contact ?		X		Not all ADA restrooms have wrapped pipes.
5	Are grab bars provided at compliant locations around the toilet ?	X			
6	Do toilet stall doors appear to provide the minimum compliant clear width ?	X			

7	Do toilet stalls appear to provide the minimum compliant clear floor area ?	✕			
8	Where more than one urinal is present in a multi-user restroom, does minimum one urinal appear to be mounted at a compliant height and with compliant approach width ?	✕			
9	Do accessories and mirrors appear to be mounted at a compliant height ?	✕			

Appendix D:
Component Condition Report

Component Condition Report | Thomas C. Boushall Middle School / Main Building

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity		RUL	ID
Structure							
A1010	Foundation	Fair	Foundation System, Concrete or CMU Walls w/ Continuous Footings	2,850	LF	37	7550721
B1010	Main building	Fair	Structural Framing, Masonry (CMU) Bearing Walls	128,530	SF	37	7550722
Facade							
B2010	Building Exterior	Fair	Exterior Walls, Brick Veneer	36,500	SF	25	7500428
B2020	Building Exterior	Fair	Glazing, any type by SF	4,550	SF	3	7500328
B2050	Building Exterior	Fair	Exterior Door, Steel, Standard	37		5	7500385
B2050	Building Exterior	Fair	Overhead/Dock Door, Steel, 12'x12' (144 SF)	2		10	7500416
Roofing							
B3010	Roof	Poor	Roofing, Built-Up	74,000	SF	1	7526734
B3010	Roof	Fair	Roofing, Metal	5,450	SF	5	7500364
B3020	Building right side facing sports fields	Poor	Roof Appurtenances, Gutters & Downspouts, Aluminum w/ Fittings	25	LF	2	7526471
Interiors							
C1030	Throughout building	Fair	Interior Door, Wood, Solid-Core	275		6	7526086
C1030	Throughout building	Fair	Interior Door, Steel, Standard	4		6	7526082
C1090	Restrooms	Fair	Toilet Partitions, Plastic/Laminate	25		10	7526143
C1090	Throughout building	Fair	Lockers, Steel-Baked Enamel, 12" W x 15" D x 72" H	1,200		6	7526120
C2010	Locker rooms	Poor	Wall Finishes, Ceramic Tile	1,000	SF	2	7526118
C2030	Kitchen and Locker Rooms	Fair	Flooring, Quarry Tile	4,000	SF	12	7526079
C2030	Throughout building	Fair	Flooring, Terrazzo	33,450	SF	12	7526121
C2030	Throughout building	Fair	Flooring, Carpet, Commercial Standard	100	SF	4	7526134
C2030	Throughout building	Fair	Flooring, Vinyl Tile (VCT)	78,000	SF	8	7526099
C2030	Restrooms	Poor	Flooring, Ceramic Tile	2,600	SF	2	7526130

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity		RUL	ID
C2030	Gymnasium	Fair	Athletic Flooring, Indoor Gymnasium Resilient Flooring, Recycled Rubber, Rolled Goods	6,000	SF	2	7526146
C2030	Facilities Area	Poor	Flooring, any surface, w/ Paint or Sealant, Prep & Paint	2,000	SF	2	7526095
C2030	Cafeteria stage	Fair	Flooring, Wood, Strip, Refinish	800	SF	5	7526132
Conveying							
D1010	Elevator	Fair	Elevator Cab Finishes, Economy	1		3	7500430
D1010	Elevator	Fair	Passenger Elevator, Hydraulic, 2 Floors, Renovate	1		3	7500426
D1010	Elevator	Poor	Elevator Controls, Automatic, 1 Car	1		1	7500334
Plumbing							
D2010	Gymnasium Storage Room	Fair	Water Heater, Electric, Residential [Booster heater girls]	1		3	7500410
D2010	Gymnasium Storage Room	Fair	Water Heater, Electric, Residential [Booster heater boys]	1		3	7500378
D2010	Classroom 227	Fair	Emergency Plumbing Fixtures, Eye Wash & Shower Station	1		10	7526104
D2010	Classroom 249	Fair	Emergency Plumbing Fixtures, Eye Wash & Shower Station	1		10	7526107
D2010	Throughout building	Fair	Plumbing System, Supply & Sanitary, Medium Density (excludes fixtures)	128,530	SF	8	7526786
D2010	Kitchen	Fair	Water Heater, Electric, Residential	1		6	7526108
D2010	Locker rooms	Fair	Shower, Ceramic Tile	13		6	7526076
D2010	Boiler room	Fair	Water Heater, Electric, Commercial (36 kW)	1		12	7500436
D2010	Throughout building	Fair	Sink/Lavatory, Vanity Top, Solid Surface or Vitreous China	6		10	7526141
D2010	Classroom 231	Fair	Emergency Plumbing Fixtures, Eye Wash & Shower Station	1		10	7526109
D2010	Throughout building	Fair	Sink/Lavatory, Vanity Top, Stainless Steel	4		10	7526128
D2010	Throughout building	Fair	Sink/Lavatory, Trough Style, Solid Surface	1		10	7526074
D2010	Kitchen	Fair	Sink/Lavatory, Commercial Kitchen, 1-Bowl	2		10	7526091
D2010	Kitchen	Fair	Sink/Lavatory, Commercial Kitchen, 3-Bowl	2		10	7526139
D2010	Throughout building	Fair	Drinking Fountain, Wall-Mounted, Single-Level	17		9	7526100
D2010	Boiler room	Fair	Backflow Preventer, Domestic Water	1		3	7500425

Component Condition Report | Thomas C. Boushall Middle School / Main Building

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
D2010	Custodial Closet	Fair	Sink/Lavatory, Service Sink, Floor	7	3	7526081
D2010	Classroom 247	Fair	Emergency Plumbing Fixtures, Eye Wash & Shower Station	1	10	7526123
D2010	Restrooms	Fair	Toilet, Commercial Water Closet	29	6	7526125
D2010	Restrooms	Fair	Sink/Lavatory, Wall-Hung, Enameled Steel	28	6	7526137
D2010	Boiler room	Fair	Water Heater, Electric, Commercial (36 kW)	1	12	7500359
D2010	Restrooms	Fair	Urinal, Standard	18	10	7526117
D2010	Kitchen	Fair	Sink/Lavatory, Commercial Kitchen, 2-Bowl	1	10	7526105
D2010	Girls locker room	Poor	Sink/Lavatory, Wall-Hung, Enameled Steel	1	1	7526140
D2060	Boiler room	Fair	Air Compressor, Tank-Style	1	3	7500394
D2060	Boiler room	Fair	Supplemental Components, Compressed Air Dryer, Process Support	1	5	7500413
HVAC						
D3020	Boiler room	Fair	Boiler, Gas, HVAC [Boiler-2]	1	15	7500316
D3020	Boiler room	Fair	Boiler Supplemental Components, Expansion Tank	1	25	7500400
D3020	Boiler room	Fair	Boiler, Gas, HVAC [Boiler-3]	1	15	7500432
D3020	Boiler room	Fair	Boiler, Gas, HVAC [Boiler-1]	1	15	7500375
D3030	Rear building exterior	Fair	Split System Ductless, Single Zone	1	10	7500423
D3030	Rear building exterior	Fair	Split System Ductless, Single Zone	1	10	7500412
D3030	Classroom 233	Fair	Split System, Fan Coil Unit, DX	1	10	7526153
D3030	Classroom 234	Fair	Split System, Fan Coil Unit, DX	1	10	7526106
D3030	Roof	Fair	Split System, Condensing Unit/Heat Pump	1	10	7500339
D3030	Roof	Fair	Split System, Condensing Unit/Heat Pump	1	10	7500346
D3030	Roof	Fair	Split System, Condensing Unit/Heat Pump	1	5	7500340
D3030	Site	Fair	Cooling Tower, (Typical) Open Circuit	1	16	7500349
D3030	Roof	Fair	Split System, Condensing Unit/Heat Pump	1	10	7500360

Component Condition Report | Thomas C. Boushall Middle School / Main Building

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
D3030	Rear building exterior	Fair	Split System Ductless, Single Zone	1	10	7500419
D3050	AHU 12 Penthouse	Fair	Air Handler, Interior AHU, Easy/Moderate Access [AHU-2]	1	3	7500330
D3050	Gymnasium Storage Room	Fair	Air Handler, Interior AHU, Easy/Moderate Access [Ahu-10]	1	3	7500403
D3050	Boiler room	Fair	Pump, Distribution, HVAC Chilled or Condenser Water [Cwp-2]	1	9	7500317
D3050	AHU 13 Penthouse	Fair	Air Handler, Interior AHU, Easy/Moderate Access [AHU-13]	1	3	7500355
D3050	AHU 12 Penthouse	Fair	Air Handler, Interior AHU, Easy/Moderate Access	1	20	7500341
D3050	Gymnasium Storage Room	Fair	Air Handler, Interior AHU, Easy/Moderate Access	1	17	7500370
D3050	Boiler room	Fair	Pump, Distribution, HVAC Heating Water [HHWP-1]	1	10	7500407
D3050	Boiler room	Fair	Pump, Distribution, HVAC Heating Water [HHWP-3]	1	10	7500420
D3050	Outside Room 287	Poor	HVAC System, any type, Repairs per Man-Day, Repair	1	0	7526103
D3050	Boiler room	Fair	Pump, Distribution, HVAC Heating Water [HHWP-2]	1	10	7500418
D3050	Boiler room	Fair	Pump, Distribution, HVAC Chilled or Condenser Water [Cwp-1]	1	9	7500373
D3050	Boiler room	Fair	Pump, Distribution, HVAC Chilled or Condenser Water [Chwp-1]	1	9	7500443
D3050	Gymnasium Storage Room	Fair	Air Handler, Interior AHU, Easy/Moderate Access	1	17	7500319
D3050	AHU 12 Penthouse	Fair	Air Handler, Interior AHU, Easy/Moderate Access [Ahu-12]	1	3	7500444
D3050	Boiler room	Fair	Pump, Distribution, HVAC Heating Water [HHWP-6]	1	8	7500434
D3050	Throughout building	Fair	HVAC System, Hydronic Piping, 4-Pipe	128,530 SF	8	7526785
D3050	AHU 7 Penthouse	Fair	Air Handler, Interior AHU, Easy/Moderate Access [AHU-7]	1	3	7500383
D3050	AHU 7 Penthouse	Fair	Air Handler, Interior AHU, Easy/Moderate Access [AHU-6]	1	3	7500398
D3050	AHU 7 Penthouse	Fair	Air Handler, Interior AHU, Easy/Moderate Access [AHU-14]	1	3	7500393
D3050	AHU 13 Penthouse	Fair	Air Handler, Interior AHU, Easy/Moderate Access [AHU-5]	1	3	7500386
D3050	Boiler room	Fair	Pump, Distribution, HVAC Chilled or Condenser Water [Chwp-2]	1	9	7500427
D3050	Gymnasium Storage Room	Fair	Air Handler, Interior AHU, Easy/Moderate Access [AHU-11]	1	3	7500324
D3050	Mechanical room above media center	Fair	Air Handler, Interior AHU, Easy/Moderate Access [Ahu-8]	1	3	7500358

Component Condition Report | Thomas C. Boushall Middle School / Main Building

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
D3050	Boiler room	Fair	Pump, Distribution, HVAC Heating Water [HHWP-5]	1	8	7500411
D3050	AHU 13 Penthouse	Fair	Air Handler, Interior AHU, Easy/Moderate Access [Ahu-4]	1	3	7500421
D3050	Mechanical room above media center	Fair	Air Handler, Interior AHU, Easy/Moderate Access [Ahu-9]	1	3	7500399
D3050	AHU 13 Penthouse	Fair	Air Handler, Interior AHU, Easy/Moderate Access [Ahu-3]	1	3	7500329
D3050	Boiler room	Fair	Pump, Distribution, HVAC Heating Water [HHWP-3A]	1	10	7500390
D3060	Roof	Fair	Exhaust Fan, Roof or Wall-Mounted, 28" Damper	1	14	7500344
D3060	Roof	Fair	Exhaust Fan, Roof or Wall-Mounted, 16" Damper	1	5	7500326
D3060	Roof	Fair	Exhaust Fan, Roof or Wall-Mounted, 24" Damper [EF-23]	1	17	7500331
D3060	AHU 12 Penthouse	Fair	Axial Flow Fan, In-Line, 10 HP Motor [RAF-2]	1	3	7500318
D3060	AHU 13 Penthouse	Fair	Axial Flow Fan, In-Line, 10 HP Motor [RAF-13]	1	3	7500389
D3060	Roof	Fair	Exhaust Fan, Roof or Wall-Mounted, 16" Damper [EF-20]	1	17	7500417
D3060	Gymnasium Storage Room	Fair	Exhaust Fan, Centrifugal, 16" Damper [EAF-4]	1	3	7500405
D3060	AHU 13 Penthouse	Fair	Axial Flow Fan, In-Line, 10 HP Motor [RAF-4]	1	3	7500321
D3060	Kitchen	Fair	Supplemental Components, Air Curtain, 5' Wide Non-Heated	1	3	7526119
D3060	AHU 7 Penthouse	Fair	Axial Flow Fan, In-Line, 10 HP Motor [RAF-6]	1	3	7500397
D3060	Gymnasium Storage Room	Fair	Exhaust Fan, Centrifugal, 16" Damper [EAF-6]	1	3	7500440
D3060	Roof	Fair	Exhaust Fan, Roof or Wall-Mounted, 16" Damper [EF-21]	1	17	7500391
D3060	AHU 12 Penthouse	Fair	Axial Flow Fan, In-Line, 10 HP Motor [RAF-1]	1	3	7500351
D3060	Throughout building	Fair	Supplemental Components, Air Purifier, Electrostatic	53	3	7526083
D3060	Roof	Fair	Exhaust Fan, Roof or Wall-Mounted, 16" Damper [EF-22]	1	17	7500343
D3060	AHU 7 Penthouse	Fair	Axial Flow Fan, In-Line, 10 HP Motor [RAF-14]	1	3	7500395
Fire Protection						
D4010	Throughout building	Fair	Fire Suppression System, Full System Install/Retrofit, Medium Density/Complexity, Renovate	128,530 SF	3	7526148

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
D4010	Kitchen	Fair	Fire Suppression System, Commercial Kitchen, per LF of Hood	10 LF	10	7526147
Electrical						
D5010	Main electrical	Poor	Automatic Transfer Switch, ATS	1	1	7500433
D5010	Site	Poor	Generator, Diesel	1	1	7500323
D5020	AHU 13 Penthouse	Fair	Motor Control Center, w/ Main Breaker	1	3	7500384
D5020	Electrical closet main entrance 2	Fair	Distribution Panel, 120/208 V [LLC]	1	2	7500367
D5020	Electrical closet main entrance 2	Fair	Secondary Transformer, Dry, Stepdown	1	15	7500315
D5020	AHU 7 Penthouse	Fair	Motor Control Center, w/ Main Breaker	1	3	7500435
D5020	Electrical closet main entrance 2	Fair	Distribution Panel, 120/208 V [LRC]	1	2	7500320
D5020	Electrical closet main entrance 1	Fair	Secondary Transformer, Dry, Stepdown	1	15	7500388
D5020	Electrical closet main entrance 2	Fair	Distribution Panel, 120/208 V	1	2	7500424
D5020	Electrical closet by staff entrance	Fair	Secondary Transformer, Dry, Stepdown [LB]	1	15	7500335
D5020	Electrical closet by gymnasium	Fair	Secondary Transformer, Dry, Stepdown	1	15	7500415
D5020	Electrical closet by 226	Fair	Switchboard, 120/208 V [2LC]	1	2	7500368
D5020	AHU 12 Penthouse	Fair	Motor Control Center, w/ Main Breaker	1	3	7500362
D5020	Electrical closet by 281	Fair	Secondary Transformer, Dry, Stepdown [2A]	1	15	7500376
D5020	Main electrical	Fair	Switchboard, 277/480 V	1	2	7500352
D5020	Boiler room	Fair	Motor Control Center, w/ Main Breaker	1	3	7500336
D5020	Electrical closet by 250	Fair	Secondary Transformer, Dry, Stepdown [2B]	1	15	7500365
D5020	Electrical closet by 226	Fair	Secondary Transformer, Dry, Stepdown [2C]	1	15	7500409
D5030	AHU 13 Penthouse	Fair	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	17	7500366
D5030	AHU 13 Penthouse	Fair	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	17	7500353
D5030	AHU 12 Penthouse	Fair	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	14	7500348
D5030	AHU 7 Penthouse	Good	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	18	7500422

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
D5030	AHU 12 Penthouse	Fair	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install [AHU-1]	1	14	7500429
D5030	AHU 13 Penthouse	Fair	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	17	7500431
D5030	AHU 13 Penthouse	Fair	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	17	7500369
D5030	AHU 13 Penthouse	Good	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	17	7500408
D5030	AHU 13 Penthouse	Fair	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	14	7500354
D5030	AHU 13 Penthouse	Fair	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install [Ahu-4]	1	14	7500327
D5030	Mechanical room above media center	Good	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	15	7500363
D5030	AHU 7 Penthouse	Fair	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	14	7500392
D5030	AHU 12 Penthouse	Fair	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	14	7500441
D5030	AHU 7 Penthouse	Fair	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	14	7500438
D5030	Throughout building	Poor	Electrical System, Wiring & Switches, Average or Low Density/Complexity	128,530 SF	2	7526787
D5030	AHU 12 Penthouse	Fair	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	17	7500387
D5030	AHU 7 Penthouse	Good	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	17	7500372
D5030	AHU 7 Penthouse	Good	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	17	7500333
D5030	AHU 13 Penthouse	Fair	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	17	7500402
D5030	AHU 7 Penthouse	Fair	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	15	7500322
D5030	AHU 12 Penthouse	Fair	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	14	7500350
D5030	AHU 12 Penthouse	Fair	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	17	7500371
D5040	Throughout building	Fair	Interior Lighting System, Full Upgrade, Medium Density & Standard Fixtures	128,530 SF	5	7526784
Fire Alarm & Electronic Systems						
D6060	Gymnasium	Fair	Intercom/PA System, Intercom System Upgrade, Facility-Wide	122,530 SF	8	7546955
D6060	Gymnasium	Poor	Intercom/PA System, Intercom System Upgrade, Facility-Wide	6,000 SF	1	7526113
D7030	Throughout building	Fair	Security/Surveillance System, Full System Upgrade, Average Density	128,530 SF	6	7526111
D7050	Main Office	Poor	Fire Alarm Panel, Fully Addressable	1	1	7500382

Component Condition Report | Thomas C. Boushall Middle School / Main Building

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
D7050	Throughout building	Fair	Fire Alarm System, Full System Upgrade, Simple Addressable, Upgrade/Install	128,530 SF	8	7526783
D8010	Throughout building	Fair	BAS/HVAC Controls, Basic System or Legacy Upgrades, Upgrade/Install	128,530 SF	5	7526152
Equipment & Furnishings						
E1030	Kitchen	Fair	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich	1	10	7526072
E1030	Kitchen	Fair	Foodservice Equipment, Refrigerator, 3-Door Reach-In [4]	1	7	7526150
E1030	Kitchen	Fair	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich	1	10	7526136
E1030	Kitchen	Fair	Foodservice Equipment, Refrigerator, 1-Door Reach-In	1	7	7526126
E1030	Kitchen	Fair	Foodservice Equipment, Walk-In, Freezer	1	5	7526094
E1030	Kitchen	Fair	Foodservice Equipment, Convection Oven, Single [1]	1	4	7526114
E1030	Kitchen	Fair	Foodservice Equipment, Tilting Skillet	1	6	7526092
E1030	Kitchen	Fair	Foodservice Equipment, Exhaust Hood, 8 to 10 LF	1	6	7526093
E1030	Kitchen	Fair	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich	1	10	7526151
E1030	Kitchen	Fair	Foodservice Equipment, Walk-In, Evaporator for Refigerator/Freezer	1	3	7526133
E1030	Kitchen	Fair	Foodservice Equipment, Refrigerator, 3-Door Reach-In	1	7	7526131
E1030	Kitchen	Fair	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich	1	10	7526089
E1030	Kitchen	Fair	Foodservice Equipment, Convection Oven, Single [4]	1	4	7526115
E1030	Kitchen	Fair	Foodservice Equipment, Refrigerator, 1-Door Reach-In [7]	1	5	7526101
E1030	Kitchen	Fair	Foodservice Equipment, Refrigerator, 1-Door Reach-In [9]	1	5	7526127
E1030	Kitchen	Fair	Foodservice Equipment, Convection Oven, Single [9]	1	5	7526135
E1030	Kitchen	Fair	Foodservice Equipment, Refrigerator, 1-Door Reach-In [6]	1	5	7526090
E1030	Kitchen	Fair	Foodservice Equipment, Steamer, Tabletop	1	5	7526077
E1030	Kitchen	Fair	Foodservice Equipment, Walk-In, Evaporator for Refigerator/Freezer	1	3	7526075
E1030	Kitchen	Fair	Foodservice Equipment, Refrigerator, 1-Door Reach-In [10 (surplus)]	1	5	7526144
E1030	Kitchen	Fair	Foodservice Equipment, Steamer, Tabletop	1	5	7526122

Component Condition Report | Thomas C. Boushall Middle School / Main Building

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
E1030	Kitchen	Fair	Foodservice Equipment, Refrigerator, 2-Door Reach-In	1	7	7526149
E1030	Kitchen	Fair	Foodservice Equipment, Mixer, Freestanding	1	12	7526078
E1030	Kitchen	Fair	Foodservice Equipment, Convection Oven, Single [8]	1	5	7526084
E1030	Kitchen	Fair	Foodservice Equipment, Refrigerator, 2-Door Reach-In	1	7	7526110
E1030	Kitchen	Fair	Foodservice Equipment, Refrigerator, 3-Door Reach-In	1	7	7526112
E1030	Kitchen	Fair	Foodservice Equipment, Refrigerator, 3-Door Reach-In [3]	1	7	7526088
E1030	Kitchen	Fair	Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels	1	8	7526096
E1030	Kitchen	Fair	Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels	1	8	7526080
E1030	Kitchen	Fair	Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels	1	10	7526097
E1030	Kitchen	Fair	Foodservice Equipment, Mixer, Freestanding	1	12	7526138
E1030	Kitchen	Fair	Foodservice Equipment, Walk-In, Refrigerator	1	5	7526098
E1030	Kitchen	Fair	Foodservice Equipment, Refrigerator, 1-Door Reach-In [A]	1	5	7526073
E1040	Main Entrance	Fair	Healthcare Equipment, Defibrillator (AED), Cabinet-Mounted	1	5	7526142
E2010	Throughout building	Fair	Casework, Cabinetry Economy	120 LF	3	7526087
E2010	Throughout building	Fair	Casework, Countertop, Solid Surface	60 LF	3	7526124
E2010	Gymnasium	Fair	Bleachers, Telescoping Manual, up to 15 Tier (per Seat)	40	5	7526102
Athletic, Recreational & Playfield Areas						
G2050	Gymnasium	Fair	Sports Apparatus, Basketball, Backboard/Rim/Pole	6	5	7526145
Sitework						
G4050	Building exterior	Fair	Exterior Site Lighting, Wall Pack, any type w/ LED, 13 to 26 W	14	5	7500325
Accessibility						
Y1030	Throughout building	Poor	ADA Entrances & Doors, Hardware, Lever Handle, Install	275	0	7526129
Y1050	Throughout building	Poor	ADA Restrooms, Lavatory, Pipe Wraps/Insulation, Install	4	0	7526085

Component Condition Report | Thomas C. Boushall Middle School

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
Interiors						
C1070		Fair	Suspended Ceilings, Acoustical Tile (ACT)	100,000 SF	10	7551184
C2010		Fair	Wall Finishes, any surface, Prep & Paint	200,000 SF	6	7551182
C2050		Fair	Ceiling Finishes, any flat surface, Prep & Paint	2,600 SF	6	7551183

Component Condition Report | Thomas C. Boushall Middle School / Site

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
Pedestrian Plazas & Walkways						
G2010	Site	Poor	Running Track, Pavement, Asphalt, Overlay	34,700 SF	2	7500437
G2010	Front parking lot/roadway/bus unloading area	Poor	Roadways, Pavement, Asphalt, Mill & Overlay	11,800 SF	2	7500406
G2020	Front+right+rear parking lots	Fair	Parking Lots, Pavement, Asphalt, Mill & Overlay	63,500 SF	8	7500379
G2020	Front+right+rear parking lots	Fair	Parking Lots, Pavement, Asphalt, Seal & Stripe	63,500 SF	3	7500442
G2030	Site stair to play court	Poor	Site Stairs & Ramps, Steps, Concrete (per LF of nosing)	140 LF	0	7526470
G2030	Site	Poor	Sidewalk, any pavement type, Sectional Repairs (per Man-Day), Repair	1	0	7526116
G2030	Site	Fair	Sidewalk, Concrete, Small Areas/Sections	6,200 SF	18	7500347
G2030	Walkway near tennis courts	Poor	Sidewalk, Asphalt, Overlay	2,500 SF	2	7526472
Athletic, Recreational & Playfield Areas						
G2050	Site	Failed	Sports Apparatus, Basketball, Backboard/Rim/Pole	1	0	7500401
G2050	Site	Good	Athletic Surfaces & Courts, Tennis/Volleyball, 2-Color Surface, Seal & Stripe	21,500 SF	8	7500380
G2050	Site	Fair	Sports Apparatus, Soccer, Movable Practice Goal	2	10	7500414
G2050	Building Rear near sports fields	Poor	Athletic Surfaces & Courts, Basketball/General, Asphalt Pavement	6,000 SF	1	7526473
G2050	Site	Fair	Outdoor Spectator Seating, Bleachers, Aluminum Benches (per Seat)	5	8	7500357
G2050	Site	Good	Athletic Surfaces & Courts, Tennis/Volleyball, Rubber-Acrylic w/ Integral Color, Resurface	21,500 SF	8	7500381

Component Condition Report | Thomas C. Boushall Middle School / Site

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity		RUL	ID
G2050	Site	Fair	Sports Apparatus, Baseball, Backstop Chain-Link	2		10	7500374
Sitework							
G2060	Site	Fair	Retaining Wall, Concrete Cast-in-Place	1,100	SF	12	7500345
G2060	Site	Fair	Flagpole, Metal	1		20	7500396
G2060		Fair	Fences & Gates, Fence, Chain Link 8'	1,270	LF	5	7533048
G2060	Site	Fair	Dumpster Pad, Concrete, Replace/Install	700	SF	12	7500356
G2060	Site	Good	Picnic Table, Wood/Composite/Fiberglass	10		18	7500439
G2060	Site	Fair	Trash Receptacle, Medium-Duty Metal or Precast	3		10	7500337
G2060	Site	Good	Fences & Gates, Fence, Chain Link 8'	800	LF	10	7500338
G2060	Site rear across from cooling tower	Poor	Fences & Gates, Fence, Chain Link 8'	30	LF	2	7500342
G2060	Site	Fair	Signage, Property, Building or Pole-Mounted, Replace/Install	1		8	7500361
G4050	Site	Fair	Pole Light Fixture w/ Lamps, any type 20' High, w/ LED Replacement, Replace/Install	3		10	7500377
G4050	Site	Fair	Pole Light Fixture w/ Lamps, any type 30' High, w/ LED Replacement, Replace/Install	11		10	7500332
G4050	Parking lot	Good	Parking/Roadway Lighting, Pole-Mounted, any type w/ LED	26		16	7448544
Accessibility							
Y1010	Right side parking lot to front lot	Poor	ADA Parking, Designated Stall, Pavement Markings & Signage, Install	4		0	7527454

Appendix E:
Replacement Reserves

Replacement Reserves Report

5/11/2024

Location	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	Total Escalated Estimate
Thomas C. Boushall Middle School	$0	$0	$0	$0	$0	$0	$364,425	$0	$0	$0	$470,371	$0	$0	$0	$0	$0	$489,756	$0	$0	$0	$0	**$1,324,552**
Thomas C. Boushall Middle School / Main Building	$84,070	$1,147,420	$664,792	$2,382,800	$13,450	$1,387,141	$1,432,457	$46,120	$4,754,093	$64,195	$231,086	$0	$912,915	$689,330	$88,260	$417,068	$296,871	$252,026	$821,764	$0	$728,992	**$16,414,849**
Thomas C. Boushall Middle School / Site	$20,310	$40,170	$122,216	$31,225	$0	$36,807	$0	$0	$483,811	$0	$161,673	$0	$218,854	$41,963	$0	$0	$50,067	$0	$489,577	$0	$4,515	**$1,701,189**
Grand Total	**$104,380**	**$1,187,590**	**$787,007**	**$2,414,025**	**$13,450**	**$1,423,948**	**$1,796,882**	**$46,120**	**$5,237,904**	**$64,195**	**$863,130**	**$0**	**$1,131,769**	**$731,293**	**$88,260**	**$417,068**	**$836,694**	**$252,026**	**$1,311,342**	**$0**	**$733,507**	**$19,440,590**

Thomas C. Boushall Middle School

Uniformat Code	Location Description	ID	Cost Description	Lifespan (EUL)	EAge	RUL	Quantity	Unit	Unit Cost *	Subtotal	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	Deficiency Repair Estimate
C1070	Thomas C. Boushall Middle School	7551184	Suspended Ceilings, Acoustical Tile (ACT), Replace	25	15	10	100000	SF	$3.50	$350,000											$350,000												**$350,000**
C2010	Thomas C. Boushall Middle School	7551182	Wall Finishes, any surface, Prep & Paint	10	4	6	200000	SF	$1.50	$300,000							$300,000										$300,000						**$600,000**
C2050	Thomas C. Boushall Middle School	7551183	Ceiling Finishes, any flat surface, Prep & Paint	10	4	6	2600	SF	$2.00	$5,200							$5,200										$5,200						**$10,400**
Totals, Unescalated											**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$305,200**	**$0**	**$0**	**$0**	**$350,000**	**$0**	**$0**	**$0**	**$0**	**$0**	**$305,200**	**$0**	**$0**	**$0**	**$0**	**$960,400**
Totals, Escalated (3.0% inflation, compounded annually)											**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$364,425**	**$0**	**$0**	**$0**	**$470,371**	**$0**	**$0**	**$0**	**$0**	**$0**	**$489,756**	**$0**	**$0**	**$0**	**$0**	**$1,324,552**

Thomas C. Boushall Middle School / Main Building

Uniformat Code	Location Description	ID	Cost Description	Lifespan (EUL)	EAge	RUL	Quantity	Unit	Unit Cost *	Subtotal	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	Deficiency Repair Estimate
B2020	Building Exterior	7500328	Glazing, any type by SF, Replace	30	27	3	4550	SF	$55.00	$250,250				$250,250																		**$250,250**
B2050	Building Exterior	7500385	Exterior Door, Steel, Standard, Replace	40	35	5	37	EA	$600.00	$22,200						$22,200																	**$22,200**
B2050	Building Exterior	7500416	Overhead/Dock Door, Steel, 12'x12' (144 SF), Replace	30	20	10	2	EA	$3,200.00	$6,400											$6,400											**$6,400**
B3010	Roof	7500364	Roofing, Metal, Replace	40	35	5	5450	SF	$13.00	$70,850						$70,850																**$70,850**
B3010	Roof	7526734	Roofing, Built-Up, Replace	25	24	1	74000	SF	$14.00	$1,036,000		$1,036,000																				**$1,036,000**
B3020	Building right side facing sports fields	7526471	Roof Appurtenances, Gutters & Downspouts, Aluminum w/ Fittings, Replace	20	18	2	25	LF	$9.00	$225			$225																			**$225**
C1030	Throughout building	7526082	Interior Door, Steel, Standard, Replace	40	34	6	4	EA	$600.00	$2,400							$2,400															**$2,400**
C1030	Throughout building	7526086	Interior Door, Wood, Solid-Core, Replace	40	34	6	275	EA	$700.00	$192,500							$192,500															**$192,500**
C1090	Restrooms	7526143	Toilet Partitions, Plastic/Laminate, Replace	20	10	10	25	EA	$750.00	$18,750											$18,750											**$18,750**
C1090	Throughout building	7526120	Lockers, Steel-Baked Enamel, 12" W x 15" D x 72" H, Replace	20	14	6	1200	EA	$500.00	$600,000							$600,000															**$600,000**
C2010	Locker rooms	7526118	Wall Finishes, Ceramic Tile, Replace	40	38	2	1000	SF	$18.00	$18,000			$18,000																			**$18,000**
C2030	Facilities Area	7526095	Flooring, any surface, w/ Paint or Sealant, Prep & Paint	10	8	2	2000	SF	$1.50	$3,000			$3,000														$3,000					**$6,000**
C2030	Restrooms	7526130	Flooring, Ceramic Tile, Replace	40	38	2	2600	SF	$18.00	$46,800			$46,800																			**$46,800**
C2030	Gymnasium	7526146	Athletic Flooring, Indoor Gymnasium Resilient Flooring, Recycled Rubber, Rolled Goods, Replace	15	13	2	6000	SF	$9.88	$59,280			$59,280																$59,280			**$118,560**
C2030	Kitchen and Locker Rooms	7526079	Flooring, Quarry Tile, Replace	50	38	12	4000	SF	$26.00	$104,000																	$104,000					**$104,000**
C2030	Cafeteria stage	7526132	Flooring, Wood, Strip, Refinish	10	5	5	800	SF	$4.00	$3,200						$3,200													$3,200			**$6,400**
C2030	Throughout building	7526099	Flooring, Vinyl Tile (VCT), Replace	15	7	8	78000	SF	$5.00	$390,000									$390,000													**$390,000**
C2030	Throughout building	7526121	Flooring, Terrazzo, Replace	50	38	12	33450	SF	$14.00	$468,300																	$468,300					**$468,300**
C2030	Throughout building	7526134	Flooring, Carpet, Commercial Standard, Replace	10	6	4	100	SF	$7.50	$750					$750														$750				**$1,500**
D1010	Elevator	7500334	Elevator Controls, Automatic, 1 Car, Replace	20	19	1	1	EA	$5,000.00	$5,000		$5,000																				**$5,000**
D1010	Elevator	7500426	Passenger Elevator, Hydraulic, 2 Floors, Renovate	30	27	3	1	EA	$55,000.00	$55,000				$55,000																		**$55,000**
D1010	Elevator	7500430	Elevator Cab Finishes, Economy, Replace	10	7	3	1	EA	$3,000.00	$3,000				$3,000														$3,000					**$6,000**
D2010	Gymnasium Storage Room	7500378	Water Heater, Electric, Residential, Replace	15	12	3	1	EA	$900.00	$900				$900																$900		**$1,800**
D2010	Gymnasium Storage Room	7500410	Water Heater, Electric, Residential, Replace	15	12	3	1	EA	$900.00	$900				$900																$900		**$1,800**
D2010	Kitchen	7526108	Water Heater, Electric, Residential, Replace	15	9	6	1	EA	$900.00	$900							$900															**$900**
D2010	Boiler room	7500359	Water Heater, Electric, Commercial (36 kW), Replace	20	8	12	1	EA	$18,500.00	$18,500																	$18,500					**$18,500**
D2010	Boiler room	7500436	Water Heater, Electric, Commercial (36 kW), Replace	20	8	12	1	EA	$18,500.00	$18,500																	$18,500					**$18,500**
D2010	Boiler room	7500425	Backflow Preventer, Domestic Water, Replace	30	27	3	1	EA	$10,500.00	$10,500				$10,500																		**$10,500**
D2010	Throughout building	7526786	Plumbing System, Supply & Sanitary, Medium Density (excludes fixtures), Replace	40	32	8	128530	SF	$11.00	$1,413,830									$1,413,830													**$1,413,830**
D2010	Girls locker room	7526140	Sink/Lavatory, Wall-Hung, Enameled Steel, Replace	30	29	1	1	EA	$1,700.00	$1,700		$1,700																				**$1,700**
D2010	Custodial Closet	7526081	Sink/Lavatory, Service Sink, Floor, Replace	35	32	3	7	EA	$800.00	$5,600				$5,600																		**$5,600**
D2010	Restrooms	7526125	Toilet, Commercial Water Closet, Replace	30	24	6	29	EA	$1,300.00	$37,700							$37,700															**$37,700**
D2010	Restrooms	7526137	Sink/Lavatory, Wall-Hung, Enameled Steel, Replace	30	24	6	28	EA	$1,700.00	$47,600							$47,600															**$47,600**
D2010	Locker rooms	7526076	Shower, Ceramic Tile, Replace	30	24	6	13	EA	$2,500.00	$32,500							$32,500															**$32,500**
D2010	Throughout building	7526100	Drinking Fountain, Wall-Mounted, Single-Level, Replace	15	6	9	17	EA	$1,200.00	$20,400										$20,400												**$20,400**
D2010	Kitchen	7526105	Sink/Lavatory, Commercial Kitchen, 2-Bowl, Replace	30	20	10	1	EA	$2,100.00	$2,100											$2,100											**$2,100**
D2010	Classroom 247	7526123	Emergency Plumbing Fixtures, Eye Wash & Shower Station, Replace	20	10	10	1	EA	$2,300.00	$2,300											$2,300											**$2,300**
D2010	Restrooms	7526117	Urinal, Standard, Replace	30	20	10	18	EA	$1,100.00	$19,800											$19,800											**$19,800**
D2010	Kitchen	7526091	Sink/Lavatory, Commercial Kitchen, 1-Bowl, Replace	30	20	10	2	EA	$1,600.00	$3,200											$3,200											**$3,200**
D2010	Kitchen	7526139	Sink/Lavatory, Commercial Kitchen, 3-Bowl, Replace	30	20	10	2	EA	$2,500.00	$5,000											$5,000											**$5,000**
D2010	Throughout building	7526141	Sink/Lavatory, Vanity Top, Solid Surface or Vitreous China, Replace	30	20	10	6	EA	$1,100.00	$6,600											$6,600											**$6,600**

Replacement Reserves Report

5/11/2024

Uniformat Code	Location Description	ID	Cost Description	Lifespan (EUL)	EAge	RUL	Quantity	Unit	Unit Cost *	Subtotal	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	Deficiency Repair Estimate
D2010	Classroom 231	7526109	Emergency Plumbing Fixtures, Eye Wash & Shower Station, Replace	20	10	10	1	EA	$2,300.00	$2,300											$2,300											**$2,300**
D2010	Throughout building	7526128	Sink/Lavatory, Vanity Top, Stainless Steel, Replace	30	20	10	4	EA	$1,200.00	$4,800											$4,800											**$4,800**
D2010	Throughout building	7526074	Sink/Lavatory, Trough Style, Solid Surface, Replace	30	20	10	1	EA	$2,500.00	$2,500											$2,500											**$2,500**
D2010	Classroom 227	7526104	Emergency Plumbing Fixtures, Eye Wash & Shower Station, Replace	20	10	10	1	EA	$2,300.00	$2,300											$2,300											**$2,300**
D2010	Classroom 249	7526107	Emergency Plumbing Fixtures, Eye Wash & Shower Station, Replace	20	10	10	1	EA	$2,300.00	$2,300											$2,300											**$2,300**
D2060	Boiler room	7500394	Air Compressor, Tank-Style, Replace	20	17	3	1	EA	$17,300.00	$17,300				$17,300																		**$17,300**
D2060	Boiler room	7500413	Supplemental Components, Compressed Air Dryer, Process Support, Replace	20	15	5	1	EA	$5,600.00	$5,600						$5,600																**$5,600**
D3020	Boiler room	7500375	Boiler, Gas, HVAC, Replace	30	15	15	1	EA	$50,800.00	$50,800																$50,800						**$50,800**
D3020	Boiler room	7500432	Boiler, Gas, HVAC, Replace	30	15	15	1	EA	$50,800.00	$50,800																$50,800						**$50,800**
D3020	Boiler room	7500316	Boiler, Gas, HVAC, Replace	30	15	15	1	EA	$50,800.00	$50,800																$50,800						**$50,800**
D3030	Site	7500349	Cooling Tower, (Typical) Open Circuit, Replace	25	9	16	1	EA	$170,000.00	$170,000																	$170,000					**$170,000**
D3030	Roof	7500340	Split System, Condensing Unit/Heat Pump, Replace	15	10	5	1	EA	$37,800.00	$37,800						$37,800															$37,800	**$75,600**
D3030	Roof	7500360	Split System, Condensing Unit/Heat Pump, Replace	15	5	10	1	EA	$5,200.00	$5,200											$5,200											**$5,200**
D3030	Rear building exterior	7500419	Split System Ductless, Single Zone, Replace	15	5	10	1	EA	$6,100.00	$6,100											$6,100											**$6,100**
D3030	Roof	7500346	Split System, Condensing Unit/Heat Pump, Replace	15	5	10	1	EA	$5,200.00	$5,200											$5,200											**$5,200**
D3030	Roof	7500339	Split System, Condensing Unit/Heat Pump, Replace	15	5	10	1	EA	$5,200.00	$5,200											$5,200											**$5,200**
D3030	Rear building exterior	7500412	Split System Ductless, Single Zone, Replace	15	5	10	1	EA	$6,100.00	$6,100											$6,100											**$6,100**
D3030	Classroom 233	7526153	Split System, Fan Coil Unit, DX, Replace	15	5	10	1	EA	$4,600.00	$4,600											$4,600											**$4,600**
D3030	Classroom 234	7526106	Split System, Fan Coil Unit, DX, Replace	15	5	10	1	EA	$4,600.00	$4,600											$4,600											**$4,600**
D3030	Rear building exterior	7500423	Split System Ductless, Single Zone, Replace	15	5	10	1	EA	$6,100.00	$6,100											$6,100											**$6,100**
D3050	Boiler room	7500411	Pump, Distribution, HVAC Heating Water, Replace	15	7	8	1	EA	$5,100.00	$5,100									$5,100													**$5,100**
D3050	Boiler room	7500434	Pump, Distribution, HVAC Heating Water, Replace	15	7	8	1	EA	$5,100.00	$5,100									$5,100													**$5,100**
D3050	Throughout building	7526785	HVAC System, Hydronic Piping, 4-Pipe, Replace	40	32	8	128530	SF	$8.00	$1,028,240									$1,028,240													**$1,028,240**
D3050	Boiler room	7500427	Pump, Distribution, HVAC Chilled or Condenser Water, Replace	25	16	9	1	EA	$7,600.00	$7,600										$7,600												**$7,600**
D3050	Boiler room	7500373	Pump, Distribution, HVAC Chilled or Condenser Water, Replace	25	16	9	1	EA	$6,800.00	$6,800										$6,800												**$6,800**
D3050	Boiler room	7500443	Pump, Distribution, HVAC Chilled or Condenser Water, Replace	25	16	9	1	EA	$7,600.00	$7,600										$7,600												**$7,600**
D3050	Boiler room	7500317	Pump, Distribution, HVAC Chilled or Condenser Water, Replace	25	16	9	1	EA	$6,800.00	$6,800										$6,800												**$6,800**
D3050	Boiler room	7500390	Pump, Distribution, HVAC Heating Water, Replace	25	15	10	1	EA	$6,500.00	$6,500											$6,500											**$6,500**
D3050	Boiler room	7500418	Pump, Distribution, HVAC Heating Water, Replace	25	15	10	1	EA	$6,500.00	$6,500											$6,500											**$6,500**
D3050	Boiler room	7500420	Pump, Distribution, HVAC Heating Water, Replace	25	15	10	1	EA	$6,500.00	$6,500											$6,500											**$6,500**
D3050	Boiler room	7500407	Pump, Distribution, HVAC Heating Water, Replace	25	15	10	1	EA	$6,500.00	$6,500											$6,500											**$6,500**
D3050	Outside Room 287	7526103	HVAC System, any type, Repairs per Man-Day, Repair	0	0	0	1	EA	$1,250.00	$1,250	$1,250																					**$1,250**
D3050	Mechanical room above media center	7500399	Air Handler, Interior AHU, Easy/Moderate Access, Replace	30	27	3	1	EA	$49,000.00	$49,000				$49,000																		**$49,000**
D3050	AHU 13 Penthouse	7500329	Air Handler, Interior AHU, Easy/Moderate Access, Replace	30	27	3	1	EA	$49,000.00	$49,000				$49,000																		**$49,000**
D3050	Mechanical room above media center	7500358	Air Handler, Interior AHU, Easy/Moderate Access, Replace	30	27	3	1	EA	$49,000.00	$49,000				$49,000																		**$49,000**
D3050	Gymnasium Storage Room	7500324	Air Handler, Interior AHU, Easy/Moderate Access, Replace	25	22	3	1	EA	$22,000.00	$22,000				$22,000																		**$22,000**
D3050	AHU 13 Penthouse	7500421	Air Handler, Interior AHU, Easy/Moderate Access, Replace	30	27	3	1	EA	$49,000.00	$49,000				$49,000																		**$49,000**
D3050	AHU 7 Penthouse	7500383	Air Handler, Interior AHU, Easy/Moderate Access, Replace	30	27	3	1	EA	$49,000.00	$49,000				$49,000																		**$49,000**
D3050	AHU 7 Penthouse	7500398	Air Handler, Interior AHU, Easy/Moderate Access, Replace	30	27	3	1	EA	$49,000.00	$49,000				$49,000																		**$49,000**
D3050	AHU 7 Penthouse	7500393	Air Handler, Interior AHU, Easy/Moderate Access, Replace	30	27	3	1	EA	$49,000.00	$49,000				$49,000																		**$49,000**
D3050	AHU 13 Penthouse	7500386	Air Handler, Interior AHU, Easy/Moderate Access, Replace	30	27	3	1	EA	$49,000.00	$49,000				$49,000																		**$49,000**
D3050	AHU 12 Penthouse	7500444	Air Handler, Interior AHU, Easy/Moderate Access, Replace	30	27	3	1	EA	$49,000.00	$49,000				$49,000																		**$49,000**
D3050	AHU 13 Penthouse	7500355	Air Handler, Interior AHU, Easy/Moderate Access, Replace	30	27	3	1	EA	$49,000.00	$49,000				$49,000																		**$49,000**
D3050	Gymnasium Storage Room	7500403	Air Handler, Interior AHU, Easy/Moderate Access, Replace	25	22	3	1	EA	$22,000.00	$22,000				$22,000																		**$22,000**
D3050	AHU 12 Penthouse	7500330	Air Handler, Interior AHU, Easy/Moderate Access, Replace	30	27	3	1	EA	$49,000.00	$49,000				$49,000																		**$49,000**
D3050	Gymnasium Storage Room	7500319	Air Handler, Interior AHU, Easy/Moderate Access, Replace	25	8	17	1	EA	$15,000.00	$15,000												$15,000										**$15,000**
D3050	Gymnasium Storage Room	7500370	Air Handler, Interior AHU, Easy/Moderate Access, Replace	25	8	17	1	EA	$15,000.00	$15,000												$15,000										**$15,000**
D3050	AHU 12 Penthouse	7500341	Air Handler, Interior AHU, Easy/Moderate Access, Replace	30	10	20	1	EA	$31,000.00	$31,000																					$31,000	**$31,000**
D3060	AHU 7 Penthouse	7500395	Axial Flow Fan, In-Line, 10 HP Motor, Replace	20	17	3	1	EA	$7,000.00	$7,000				$7,000																		**$7,000**
D3060	AHU 12 Penthouse	7500351	Axial Flow Fan, In-Line, 10 HP Motor, Replace	20	17	3	1	EA	$7,000.00	$7,000				$7,000																		**$7,000**
D3060	AHU 7 Penthouse	7500397	Axial Flow Fan, In-Line, 10 HP Motor, Replace	20	17	3	1	EA	$7,000.00	$7,000				$7,000																		**$7,000**
D3060	AHU 13 Penthouse	7500321	Axial Flow Fan, In-Line, 10 HP Motor, Replace	20	17	3	1	EA	$7,000.00	$7,000				$7,000																		**$7,000**
D3060	AHU 13 Penthouse	7500389	Axial Flow Fan, In-Line, 10 HP Motor, Replace	20	17	3	1	EA	$7,000.00	$7,000				$7,000																		**$7,000**
D3060	AHU 12 Penthouse	7500318	Axial Flow Fan, In-Line, 10 HP Motor, Replace	20	17	3	1	EA	$7,000.00	$7,000				$7,000																		**$7,000**
D3060	Gymnasium Storage Room	7500440	Exhaust Fan, Centrifugal, 16" Damper, Replace	25	22	3	1	EA	$2,400.00	$2,400				$2,400																		**$2,400**
D3060	Gymnasium Storage Room	7500405	Exhaust Fan, Centrifugal, 16" Damper, Replace	25	22	3	1	EA	$2,400.00	$2,400				$2,400																		**$2,400**
D3060	Roof	7500326	Exhaust Fan, Roof or Wall-Mounted, 16" Damper, Replace	20	15	5	1	EA	$2,400.00	$2,400						$2,400																**$2,400**

Replacement Reserves Report

5/11/2024

Uniformat Code	Location Description	ID	Cost Description	Lifespan (EUL)	EAge	RUL	Quantity	Unit	Unit Cost *	Subtotal	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	Deficiency Repair Estimate
D3060	Roof	7500344	Exhaust Fan, Roof or Wall-Mounted, 28" Damper, Replace	20	6	14	1	EA	$4,000.00	$4,000															$4,000							**$4,000**
D3060	Roof	7500343	Exhaust Fan, Roof or Wall-Mounted, 16" Damper, Replace	20	3	17	1	EA	$2,400.00	$2,400																		$2,400				**$2,400**
D3060	Roof	7500391	Exhaust Fan, Roof or Wall-Mounted, 16" Damper, Replace	20	3	17	1	EA	$2,400.00	$2,400																		$2,400				**$2,400**
D3060	Roof	7500417	Exhaust Fan, Roof or Wall-Mounted, 16" Damper, Replace	20	3	17	1	EA	$2,400.00	$2,400																		$2,400				**$2,400**
D3060	Roof	7500331	Exhaust Fan, Roof or Wall-Mounted, 24" Damper, Replace	20	3	17	1	EA	$3,000.00	$3,000																		$3,000				**$3,000**
D3060	Throughout building	7526083	Supplemental Components, Air Purifier, Electrostatic, Replace	5	2	3	53	EA	$8,800.00	$466,400				$466,400					$466,400				$466,400						$466,400			**$1,865,600**
D3060	Kitchen	7526119	Supplemental Components, Air Curtain, 5' Wide Non-Heated, Replace	20	17	3	1	EA	$1,500.00	$1,500				$1,500																		**$1,500**
D4010	Throughout building	7526148	Fire Suppression System, Full System Install/Retrofit, Medium Density/Complexity, Renovate	40	37	3	128530	SF	$5.00	$642,650				$642,650																		**$642,650**
D4010	Kitchen	7526147	Fire Suppression System, Commercial Kitchen, per LF of Hood, Replace	20	10	10	10	LF	$400.00	$4,000											$4,000											**$4,000**
D5010	Site	7500323	Generator, Diesel, Replace	25	24	1	1	EA	$40,000.00	$40,000		$40,000																				**$40,000**
D5010	Main electrical	7500433	Automatic Transfer Switch, ATS, Replace	25	24	1	1	EA	$7,300.00	$7,300		$7,300																				**$7,300**
D5020	Electrical closet by 226	7500368	Switchboard, 120/208 V, Replace	40	38	2	1	EA	$40,000.00	$40,000			$40,000																			**$40,000**
D5020	Main electrical	7500352	Switchboard, 277/480 V, Replace	40	38	2	1	EA	$120,000.00	$120,000			$120,000																			**$120,000**
D5020	Electrical closet by 250	7500365	Secondary Transformer, Dry, Stepdown, Replace	30	15	15	1	EA	$6,700.00	$6,700																$6,700						**$6,700**
D5020	Electrical closet by 226	7500409	Secondary Transformer, Dry, Stepdown, Replace	30	15	15	1	EA	$10,000.00	$10,000																$10,000						**$10,000**
D5020	Electrical closet by staff entrance	7500335	Secondary Transformer, Dry, Stepdown, Replace	30	15	15	1	EA	$10,000.00	$10,000																$10,000						**$10,000**
D5020	Electrical closet by gymnasium	7500415	Secondary Transformer, Dry, Stepdown, Replace	30	15	15	1	EA	$10,000.00	$10,000																$10,000						**$10,000**
D5020	Electrical closet by 281	7500376	Secondary Transformer, Dry, Stepdown, Replace	30	15	15	1	EA	$6,700.00	$6,700																$6,700						**$6,700**
D5020	Electrical closet main entrance 1	7500388	Secondary Transformer, Dry, Stepdown, Replace	30	15	15	1	EA	$6,700.00	$6,700																$6,700						**$6,700**
D5020	Electrical closet main entrance 2	7500315	Secondary Transformer, Dry, Stepdown, Replace	30	15	15	1	EA	$20,000.00	$20,000																$20,000						**$20,000**
D5020	Electrical closet main entrance 2	7500424	Distribution Panel, 120/208 V, Replace	30	28	2	1	EA	$6,000.00	$6,000			$6,000																			**$6,000**
D5020	Electrical closet main entrance 2	7500320	Distribution Panel, 120/208 V, Replace	30	28	2	1	EA	$6,000.00	$6,000			$6,000																			**$6,000**
D5020	Electrical closet main entrance 2	7500367	Distribution Panel, 120/208 V, Replace	30	28	2	1	EA	$6,000.00	$6,000			$6,000																			**$6,000**
D5020	Boiler room	7500336	Motor Control Center, w/ Main Breaker, Replace	30	27	3	1	EA	$15,000.00	$15,000				$15,000																		**$15,000**
D5020	AHU 12 Penthouse	7500362	Motor Control Center, w/ Main Breaker, Replace	30	27	3	1	EA	$15,000.00	$15,000				$15,000																		**$15,000**
D5020	AHU 13 Penthouse	7500384	Motor Control Center, w/ Main Breaker, Replace	30	27	3	1	EA	$15,000.00	$15,000				$15,000																		**$15,000**
D5020	AHU 7 Penthouse	7500435	Motor Control Center, w/ Main Breaker, Replace	30	27	3	1	EA	$15,000.00	$15,000				$15,000																		**$15,000**
D5030	Throughout building	7526787	Electrical System, Wiring & Switches, Average or Low Density/Complexity, Replace	40	38	2	128530	SF	$2.50	$321,325			$321,325																			**$321,325**
D5030	AHU 12 Penthouse	7500350	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	6	14	1	EA	$5,300.00	$5,300															$5,300							**$5,300**
D5030	AHU 7 Penthouse	7500438	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	6	14	1	EA	$5,300.00	$5,300															$5,300							**$5,300**
D5030	AHU 12 Penthouse	7500441	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	6	14	1	EA	$5,300.00	$5,300															$5,300							**$5,300**
D5030	AHU 7 Penthouse	7500392	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	6	14	1	EA	$5,300.00	$5,300															$5,300							**$5,300**
D5030	AHU 13 Penthouse	7500354	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	6	14	1	EA	$5,300.00	$5,300															$5,300							**$5,300**
D5030	AHU 13 Penthouse	7500327	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	6	14	1	EA	$5,300.00	$5,300															$5,300							**$5,300**
D5030	AHU 12 Penthouse	7500429	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	6	14	1	EA	$5,300.00	$5,300															$5,300							**$5,300**
D5030	AHU 12 Penthouse	7500348	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	6	14	1	EA	$5,300.00	$5,300															$5,300							**$5,300**
D5030	Mechanical room above media center	7500363	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	5	15	1	EA	$10,000.00	$10,000																$10,000						**$10,000**
D5030	AHU 7 Penthouse	7500322	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	5	15	1	EA	$5,300.00	$5,300																$5,300						**$5,300**
D5030	AHU 13 Penthouse	7500408	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	3	17	1	EA	$5,300.00	$5,300																		$5,300				**$5,300**
D5030	AHU 7 Penthouse	7500372	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	3	17	1	EA	$5,300.00	$5,300																		$5,300				**$5,300**
D5030	AHU 13 Penthouse	7500402	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	3	17	1	EA	$5,300.00	$5,300																		$5,300				**$5,300**
D5030	AHU 12 Penthouse	7500371	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	3	17	1	EA	$5,300.00	$5,300																		$5,300				**$5,300**
D5030	AHU 12 Penthouse	7500387	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	3	17	1	EA	$5,300.00	$5,300																		$5,300				**$5,300**
D5030	AHU 13 Penthouse	7500431	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	3	17	1	EA	$5,300.00	$5,300																		$5,300				**$5,300**
D5030	AHU 13 Penthouse	7500369	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	3	17	1	EA	$5,300.00	$5,300																		$5,300				**$5,300**
D5030	AHU 13 Penthouse	7500353	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	3	17	1	EA	$5,300.00	$5,300																		$5,300				**$5,300**
D5030	AHU 13 Penthouse	7500366	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	3	17	1	EA	$5,300.00	$5,300																		$5,300				**$5,300**
D5030	AHU 7 Penthouse	7500333	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	3	17	1	EA	$5,300.00	$5,300																		$5,300				**$5,300**
D5030	AHU 7 Penthouse	7500422	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	2	18	1	EA	$5,300.00	$5,300																			$5,300			**$5,300**
D5040	Throughout building	7526784	Interior Lighting System, Full Upgrade, Medium Density & Standard Fixtures, Replace	20	15	5	128530	SF	$4.50	$578,385						$578,385																**$578,385**
D6060	Gymnasium	7526113	Intercom/PA System, Intercom System Upgrade, Facility-Wide, Replace	20	19	1	6000	SF	$1.50	$9,000		$9,000																				**$9,000**
D6060	Gymnasium	7546955	Intercom/PA System, Intercom System Upgrade, Facility-Wide, Replace	20	12	8	122530	SF	$1.50	$183,795									$183,795													**$183,795**
D7030	Throughout building	7526111	Security/Surveillance System, Full System Upgrade, Average Density, Replace	15	9	6	128530	SF	$2.00	$257,060							$257,060															**$257,060**
D7050	Main Office	7500382	Fire Alarm Panel, Fully Addressable, Replace	15	14	1	1	EA	$15,000.00	$15,000		$15,000															$15,000					**$30,000**
D7050	Throughout building	7526783	Fire Alarm System, Full System Upgrade, Simple Addressable, Upgrade/Install	20	12	8	128530	SF	$2.00	$257,060									$257,060													**$257,060**
D8010	Throughout building	7526152	BAS/HVAC Controls, Basic System or Legacy Upgrades, Upgrade/Install	15	10	5	128530	SF	$2.50	$321,325						$321,325														$321,325		**$642,650**
E1030	Kitchen	7526075	Foodservice Equipment, Walk-In, Evaporator for Refigerator/Freezer, Replace	15	12	3	1	EA	$4,600.00	$4,600				$4,600																$4,600			**$9,200**

Replacement Reserves Report

5/11/2024

Uniformat Code	Location Description	ID	Cost Description	Lifespan (EUL)	EAge	RUL	Quantity	Unit	Unit Cost *	Subtotal	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	Deficiency Repair Estimate
E1030	Kitchen	7526133	Foodservice Equipment, Walk-In, Evaporator for Refigerator/Freezer, Replace	15	12	3	1	EA	$4,600.00	$4,600				$4,600															$4,600			**$9,200**
E1030	Kitchen	7526115	Foodservice Equipment, Convection Oven, Single, Replace	10	6	4	1	EA	$5,600.00	$5,600					$5,600										$5,600							**$11,200**
E1030	Kitchen	7526114	Foodservice Equipment, Convection Oven, Single, Replace	10	6	4	1	EA	$5,600.00	$5,600					$5,600										$5,600							**$11,200**
E1030	Kitchen	7526122	Foodservice Equipment, Steamer, Tabletop, Replace	10	5	5	1	EA	$7,000.00	$7,000						$7,000										$7,000						**$14,000**
E1030	Kitchen	7526098	Foodservice Equipment, Walk-In, Refrigerator, Replace	20	15	5	1	EA	$15,000.00	$15,000						$15,000																**$15,000**
E1030	Kitchen	7526073	Foodservice Equipment, Refrigerator, 1-Door Reach-In, Replace	15	10	5	1	EA	$2,700.00	$2,700						$2,700															$2,700	**$5,400**
E1030	Kitchen	7526101	Foodservice Equipment, Refrigerator, 1-Door Reach-In, Replace	15	10	5	1	EA	$2,700.00	$2,700						$2,700															$2,700	**$5,400**
E1030	Kitchen	7526135	Foodservice Equipment, Convection Oven, Single, Replace	10	5	5	1	EA	$5,600.00	$5,600						$5,600										$5,600						**$11,200**
E1030	Kitchen	7526127	Foodservice Equipment, Refrigerator, 1-Door Reach-In, Replace	15	10	5	1	EA	$2,700.00	$2,700						$2,700															$2,700	**$5,400**
E1030	Kitchen	7526144	Foodservice Equipment, Refrigerator, 1-Door Reach-In, Replace	15	10	5	1	EA	$2,700.00	$2,700						$2,700															$2,700	**$5,400**
E1030	Kitchen	7526084	Foodservice Equipment, Convection Oven, Single, Replace	10	5	5	1	EA	$5,600.00	$5,600						$5,600										$5,600						**$11,200**
E1030	Kitchen	7526090	Foodservice Equipment, Refrigerator, 1-Door Reach-In, Replace	15	10	5	1	EA	$2,700.00	$2,700						$2,700															$2,700	**$5,400**
E1030	Kitchen	7526077	Foodservice Equipment, Steamer, Tabletop, Replace	10	5	5	1	EA	$7,000.00	$7,000						$7,000										$7,000						**$14,000**
E1030	Kitchen	7526094	Foodservice Equipment, Walk-In, Freezer, Replace	20	15	5	1	EA	$25,000.00	$25,000						$25,000																**$25,000**
E1030	Kitchen	7526092	Foodservice Equipment, Tilting Skillet, Replace	20	14	6	1	EA	$24,500.00	$24,500							$24,500															**$24,500**
E1030	Kitchen	7526093	Foodservice Equipment, Exhaust Hood, 8 to 10 LF, Replace	15	9	6	1	EA	$4,500.00	$4,500							$4,500															**$4,500**
E1030	Kitchen	7526112	Foodservice Equipment, Refrigerator, 3-Door Reach-In, Replace	15	8	7	1	EA	$6,400.00	$6,400								$6,400														**$6,400**
E1030	Kitchen	7526088	Foodservice Equipment, Refrigerator, 3-Door Reach-In, Replace	15	8	7	1	EA	$6,400.00	$6,400								$6,400														**$6,400**
E1030	Kitchen	7526149	Foodservice Equipment, Refrigerator, 2-Door Reach-In, Replace	15	8	7	1	EA	$4,600.00	$4,600								$4,600														**$4,600**
E1030	Kitchen	7526110	Foodservice Equipment, Refrigerator, 2-Door Reach-In, Replace	15	8	7	1	EA	$4,600.00	$4,600								$4,600														**$4,600**
E1030	Kitchen	7526150	Foodservice Equipment, Refrigerator, 3-Door Reach-In, Replace	15	8	7	1	EA	$6,400.00	$6,400								$6,400														**$6,400**
E1030	Kitchen	7526131	Foodservice Equipment, Refrigerator, 3-Door Reach-In, Replace	15	8	7	1	EA	$6,400.00	$6,400								$6,400														**$6,400**
E1030	Kitchen	7526126	Foodservice Equipment, Refrigerator, 1-Door Reach-In, Replace	15	8	7	1	EA	$2,700.00	$2,700								$2,700														**$2,700**
E1030	Kitchen	7526096	Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels, Replace	15	7	8	1	EA	$1,700.00	$1,700									$1,700													**$1,700**
E1030	Kitchen	7526080	Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels, Replace	15	7	8	1	EA	$1,700.00	$1,700									$1,700													**$1,700**
E1030	Kitchen	7526097	Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels, Replace	15	5	10	1	EA	$1,700.00	$1,700											$1,700											**$1,700**
E1030	Kitchen	7526072	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich, Replace	15	5	10	1	EA	$4,700.00	$4,700											$4,700											**$4,700**
E1030	Kitchen	7526151	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich, Replace	15	5	10	1	EA	$4,700.00	$4,700											$4,700											**$4,700**
E1030	Kitchen	7526089	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich, Replace	15	5	10	1	EA	$4,700.00	$4,700											$4,700											**$4,700**
E1030	Kitchen	7526136	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich, Replace	15	5	10	1	EA	$4,700.00	$4,700											$4,700											**$4,700**
E1030	Kitchen	7526138	Foodservice Equipment, Mixer, Freestanding, Replace	25	13	12	1	EA	$14,000.00	$14,000													$14,000									**$14,000**
E1030	Kitchen	7526078	Foodservice Equipment, Mixer, Freestanding, Replace	25	13	12	1	EA	$14,000.00	$14,000													$14,000									**$14,000**
E1040	Main Entrance	7526142	Healthcare Equipment, Defibrillator (AED), Cabinet-Mounted, Replace	10	5	5	1	EA	$1,500.00	$1,500						$1,500											$1,500					**$3,000**
E2010	Throughout building	7526124	Casework, Countertop, Solid Surface, Replace	40	37	3	60	LF	$110.00	$6,600				$6,600																		**$6,600**
E2010	Throughout building	7526087	Casework, Cabinetry Economy, Replace	20	17	3	120	LF	$175.00	$21,000				$21,000																		**$21,000**
E2010	Gymnasium	7526102	Bleachers, Telescoping Manual, up to 15 Tier (per Seat), Replace	20	15	5	40	EA	$300.00	$12,000						$12,000																**$12,000**
G2050	Gymnasium	7526145	Sports Apparatus, Basketball, Backboard/Rim/Pole, Replace	25	20	5	6	EA	$9,500.00	$57,000						$57,000																**$57,000**
G4050	Building exterior	7500325	Exterior Site Lighting, Wall Pack, any type w/ LED, 13 to 26 W, Replace	20	15	5	14	EA	$400.00	$5,600						$5,600																**$5,600**
Y1030	Throughout building	7526129	ADA Entrances & Doors, Hardware, Lever Handle, Install	0	0	0	275	EA	$300.00	$82,500	$82,500																					**$82,500**
Y1050	Throughout building	7526085	ADA Restrooms, Lavatory, Pipe Wraps/Insulation, Install	0	0	0	4	EA	$80.00	$320	$320																					**$320**
Totals, Unescalated											**$84,070**	**$1,114,000**	**$626,630**	**$2,180,600**	**$11,950**	**$1,196,560**	**$1,199,660**	**$37,500**	**$3,752,925**	**$49,200**	**$171,950**	**$0**	**$640,300**	**$469,400**	**$58,350**	**$267,700**	**$185,000**	**$152,480**	**$482,700**	**$0**	**$403,625**	**$13,084,600**
Totals, Escalated (3.0% inflation, compounded annually)											**$84,070**	**$1,147,420**	**$664,792**	**$2,382,800**	**$13,450**	**$1,387,141**	**$1,432,457**	**$46,120**	**$4,754,093**	**$64,195**	**$231,086**	**$0**	**$912,915**	**$689,330**	**$88,260**	**$417,068**	**$296,871**	**$252,026**	**$821,764**	**$0**	**$728,992**	**$16,414,849**

Thomas C. Boushall Middle School / Site

Uniformat Code	Location Description	ID	Cost Description	Lifespan (EUL)	EAge	RUL	Quantity	Unit	Unit Cost *	Subtotal	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	Deficiency Repair Estimate
G2010	Front parking lot/roadway/bus unloading area	7500406	Roadways, Pavement, Asphalt, Mill & Overlay	25	23	2	11800	SF	$3.50	$41,300			$41,300																			**$41,300**
G2010	Site	7500437	Running Track, Pavement, Asphalt, Overlay	25	23	2	34700	SF	$2.00	$69,400			$69,400																			**$69,400**
G2020	Front+right+rear parking lots	7500442	Parking Lots, Pavement, Asphalt, Seal & Stripe	5	2	3	63500	SF	$0.45	$28,575				$28,575					$28,575					$28,575					$28,575			**$114,300**
G2020	Front+right+rear parking lots	7500379	Parking Lots, Pavement, Asphalt, Mill & Overlay	25	17	8	63500	SF	$3.50	$222,250								$222,250														**$222,250**
G2030	Site	7526116	Sidewalk, any pavement type, Sectional Repairs (per Man-Day), Repair	0	0	0	1	EA	$1,000.00	$1,000	$1,000																					**$1,000**
G2030	Walkway near tennis courts	7526472	Sidewalk, Asphalt, Overlay	25	23	2	2500	SF	$1.50	$3,750			$3,750																			**$3,750**
G2030	Site	7500347	Sidewalk, Concrete, Small Areas/Sections, Replace	50	32	18	6200	SF	$20.00	$124,000																			$124,000			**$124,000**
G2030	Site stair to play court	7526470	Site Stairs & Ramps, Steps, Concrete (per LF of nosing), Replace	50	50	0	140	LF	$41.50	$5,810	$5,810																					**$5,810**
G2050	Site	7500401	Sports Apparatus, Basketball, Backboard/Rim/Pole, Replace	25	25	0	1	EA	$9,500.00	$9,500	$9,500																					**$9,500**
G2050	Building Rear near sports fields	7526473	Athletic Surfaces & Courts, Basketball/General, Asphalt Pavement, Replace	25	24	1	6000	SF	$6.50	$39,000		$39,000																				**$39,000**
G2050	Site	7500380	Athletic Surfaces & Courts, Tennis/Volleyball, 2-Color Surface, Seal & Stripe	10	2	8	21500	SF	$1.50	$32,250								$32,250											$32,250			**$64,500**
G2050	Site	7500381	Athletic Surfaces & Courts, Tennis/Volleyball, Rubber-Acrylic w/ Integral Color, Resurface	10	2	8	21500	SF	$4.50	$96,750								$96,750											$96,750			**$193,500**

Replacement Reserves Report

5/11/2024

Uniformat Code	Location Description	ID	Cost Description	Lifespan (EUL)	EAge	RUL	Quantity	Unit	Unit Cost *	Subtotal	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	Deficiency Repair Estimate
G2050	Site	7500357	Outdoor Spectator Seating, Bleachers, Aluminum Benches (per Seat), Replace	25	17	8	5	EA	$120.00	$600									$600														**$600**
G2050	Site	7500374	Sports Apparatus, Baseball, Backstop Chain-Link, Replace	20	10	10	2	EA	$5,000.00	$10,000											$10,000												**$10,000**
G2050	Site	7500414	Sports Apparatus, Soccer, Movable Practice Goal, Replace	15	5	10	2	EA	$700.00	$1,400											$1,400												**$1,400**
G2060	Site rear across from cooling tower	7500342	Fences & Gates, Fence, Chain Link 8', Replace	40	38	2	30	LF	$25.00	$750			$750																				**$750**
G2060	Site	7533048	Fences & Gates, Fence, Chain Link 8', Replace	40	35	5	1270	LF	$25.00	$31,750						$31,750																		**$31,750**
G2060	Site	7500337	Trash Receptacle, Medium-Duty Metal or Precast, Replace	20	10	10	3	EA	$700.00	$2,100											$2,100												**$2,100**
G2060	Site	7500338	Fences & Gates, Fence, Chain Link 8', Replace	40	30	10	800	LF	$25.00	$20,000											$20,000												**$20,000**
G2060	Site	7500439	Picnic Table, Wood/Composite/Fiberglass, Replace	20	2	18	10	EA	$600.00	$6,000																			$6,000				**$6,000**
G2060	Site	7500361	Signage, Property, Building or Pole-Mounted, Replace/Install	20	12	8	1	EA	$1,500.00	$1,500									$1,500														**$1,500**
G2060	Site	7500396	Flagpole, Metal, Replace	30	10	20	1	EA	$2,500.00	$2,500																					$2,500		**$2,500**
G2060	Site	7500345	Retaining Wall, Concrete Cast-in-Place, Replace	50	38	12	1100	SF	$130.00	$143,000													$143,000										**$143,000**
G2060	Site	7500356	Dumpster Pad, Concrete, Replace/Install	50	38	12	700	SF	$15.00	$10,500													$10,500										**$10,500**
G4050	Site	7500332	Pole Light Fixture w/ Lamps, any type 30' High, w/ LED Replacement, Replace/Install	20	10	10	11	EA	$6,800.00	$74,800											$74,800												**$74,800**
G4050	Site	7500377	Pole Light Fixture w/ Lamps, any type 20' High, w/ LED Replacement, Replace/Install	20	10	10	3	EA	$4,000.00	$12,000											$12,000												**$12,000**
G4050	Parking lot	7448544	Parking/Roadway Lighting, Pole-Mounted, any type w/ LED, Replace	20	4	16	26	EA	$1,200.00	$31,200																	$31,200						**$31,200**
Y1010	Right side parking lot to front lot	7527454	ADA Parking, Designated Stall, Pavement Markings & Signage, Install	0	0	0	4	EA	$1,000.00	$4,000	$4,000																						**$4,000**
Totals, Unescalated											**$20,310**	**$39,000**	**$115,200**	**$28,575**	**$0**	**$31,750**	**$0**	**$0**	**$381,925**	**$0**	**$120,300**	**$0**	**$153,500**	**$28,575**	**$0**	**$0**	**$31,200**	**$0**	**$287,575**	**$0**	**$2,500**	**$1,240,410**
Totals, Escalated (3.0% inflation, compounded annually)											**$20,310**	**$40,170**	**$122,216**	**$31,225**	**$0**	**$36,807**	**$0**	**$0**	**$483,811**	**$0**	**$161,673**	**$0**	**$218,854**	**$41,963**	**$0**	**$0**	**$50,067**	**$0**	**$489,577**	**$0**	**$4,515**	**$1,701,189**

Appendix F:
Equipment Inventory List

D10 Conveying

Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Yr	Barcode	Qty
1	7500334	D1010	**Elevator Controls**	Automatic, 1 Car		Thomas C. Boushall Middle School / Main Building	Elevator					5577	
2	7500426	D1010	**Passenger Elevator**	Hydraulic, 2 Floors	1500 - 2500 LB	Thomas C. Boushall Middle School / Main Building	Elevator					5576	

D20 Plumbing

Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Yr	Barcode	Qty
1	7500436	D2010	**Water Heater**	Electric, Commercial (36 kW)	119 GAL	Thomas C. Boushall Middle School / Main Building	Boiler room	A. O. Smith	DRE120-100	1615M002034	2016	5585	
2	7500359	D2010	**Water Heater**	Electric, Commercial (36 kW)	119 GAL	Thomas C. Boushall Middle School / Main Building	Boiler room	A. O. Smith	DRE120-100	1620M001144	2016	5584	
3	7526108	D2010	**Water Heater**	Electric, Residential	50 GAL	Thomas C. Boushall Middle School / Main Building	Kitchen	A. O. Smith	ENS50100	1535A011307	2015	5452	
4	7500378	D2010	**Water Heater** [Booster heater boys]	Electric, Residential	52 GAL	Thomas C. Boushall Middle School / Main Building	Gymnasium Storage Room	State Industries, Inc.	SB6526IFEB	4389005		5516	
5	7500410	D2010	**Water Heater** [Booster heater girls]	Electric, Residential	52 GAL	Thomas C. Boushall Middle School / Main Building	Gymnasium Storage Room	State Industries, Inc.	SB6526IFEB	43900863		5513	
6	7500425	D2010	**Backflow Preventer**	Domestic Water	6 IN	Thomas C. Boushall Middle School / Main Building	Boiler room	Watts				5599	
7	7500394	D2060	**Air Compressor**	Tank-Style	15 HP	Thomas C. Boushall Middle School / Main Building	Boiler room	Ingersoll Rand				5600	
8	7500413	D2060	**Supplemental Components**	Compressed Air Dryer, Process Support	100 CFM	Thomas C. Boushall Middle School / Main Building	Boiler room	Hankison				5561	

D30 HVAC

Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Yr	Barcode	Qty
1	7500375	D3020	**Boiler** [Boiler-1]	Gas, HVAC	1700 MBH	Thomas C. Boushall Middle School / Main Building	Boiler room	Patterson-Kelley	N-2000-2	CY30-09-33757	2009	5590	
2	7500316	D3020	**Boiler** [Boiler-2]	Gas, HVAC	1700 MBH	Thomas C. Boushall Middle School / Main Building	Boiler room	Patterson-Kelley	N-2000-2	CY30-09-33758	2009	5589	
3	7500432	D3020	**Boiler** [Boiler-3]	Gas, HVAC	1700 MBH	Thomas C. Boushall Middle School / Main Building	Boiler room	Patterson-Kelley	N-2000-2	CY28-09-33733	2009	5588	
4	7500400	D3020	**Boiler Supplemental Components**	Expansion Tank	15 GAL	Thomas C. Boushall Middle School / Main Building	Boiler room	Wheeler		09340	2009	5562	
5	7500349	D3030	**Cooling Tower**	(Typical) Open Circuit	512 TON	Thomas C. Boushall Middle School / Main Building	Site	Evapco	AT19-512	15-724602	2015	5583	
6	7500339	D3030	**Split System**	Condensing Unit/Heat Pump	4	Thomas C. Boushall Middle School / Main Building	Roof	York	TCD48B41SA	W1K9244616	2019	5536	
7	7500346	D3030	**Split System**	Condensing Unit/Heat Pump	4 TON	Thomas C. Boushall Middle School / Main Building	Roof	York	TCD48B41SA	W1L9345513	2019	5537	
8	7500340	D3030	**Split System**	Condensing Unit/Heat Pump	16 TON	Thomas C. Boushall Middle School / Main Building	Roof	Carrier	38AUDC16AGM61	33141235842	2014	5533	
9	7500360	D3030	**Split System**	Condensing Unit/Heat Pump	4 TON	Thomas C. Boushall Middle School / Main Building	Roof	York	TCD48B41SA	W1K9244594	2019	5534	
10	7526153	D3030	**Split System**	Fan Coil Unit, DX	4 TON	Thomas C. Boushall Middle School / Main Building	Classroom 233	York	CM60DXA2A	W1C9693616	2019	5484	

11	7526106	D3030	**Split System**	Fan Coil Unit, DX	4 TON	Thomas C. Boushall Middle School / Main Building	Classroom 234	York	CM48DXA1C	W1L9321428	2019	5481
12	7500423	D3030	**Split System Ductless**	Single Zone	2.5 TON	Thomas C. Boushall Middle School / Main Building	Rear building exterior	Daikin Industries	RZQ30TAVJU	F000788	2019	5781
13	7500412	D3030	**Split System Ductless**	Single Zone	2.5 TON	Thomas C. Boushall Middle School / Main Building	Rear building exterior	Daikin Industries	RZQ30TAVJU	F000790	2019	5783
14	7500419	D3030	**Split System Ductless**	Single Zone	2.5 TON	Thomas C. Boushall Middle School / Main Building	Rear building exterior	Daikin Industries	RZQ30TAVJU	F000786	2019	5782
15	7500443	D3050	**Pump** [Chwp-1]	Distribution, HVAC Chilled or Condenser Water	15 HP	Thomas C. Boushall Middle School / Main Building	Boiler room	Bell & Gossett	1510BF10.5	C087792-01F90	2008	5597
16	7500427	D3050	**Pump** [Chwp-2]	Distribution, HVAC Chilled or Condenser Water	15 HP	Thomas C. Boushall Middle School / Main Building	Boiler room	Bell & Gossett	1510BF10.5	C087792-02F90	2008	5598
17	7500373	D3050	**Pump** [Cwp-1]	Distribution, HVAC Chilled or Condenser Water	10 HP	Thomas C. Boushall Middle School / Main Building	Boiler room	Bell & Gossett	1510BF8.5	C087791-02F90	2008	5595
18	7500317	D3050	**Pump** [Cwp-2]	Distribution, HVAC Chilled or Condenser Water	10 HP	Thomas C. Boushall Middle School / Main Building	Boiler room	Bell & Gossett	1510BF8.5	C087791-01F90	2008	5596
19	7500407	D3050	**Pump** [HHWP-1]	Distribution, HVAC Heating Water	7.5 HP	Thomas C. Boushall Middle School / Main Building	Boiler room	Bell & Gossett	1510BF9.25	C092569-02H90	2009	5587
20	7500418	D3050	**Pump** [HHWP-2]	Distribution, HVAC Heating Water	7.5 HP	Thomas C. Boushall Middle School / Main Building	Boiler room	Bell & Gossett	1510BF9.25	C092569-01H90	2009	5586
21	7500420	D3050	**Pump** [HHWP-3]	Distribution, HVAC Heating Water	7.5 HP	Thomas C. Boushall Middle School / Main Building	Boiler room	Bell & Gossett	80BF6.5	C092571-02H90	2009	5591
22	7500390	D3050	**Pump** [HHWP-3A]	Distribution, HVAC Heating Water	7.5 HP	Thomas C. Boushall Middle School / Main Building	Boiler room	Bell & Gossett	80BF6.5	C092571-01H90	2009	5592
23	7500411	D3050	**Pump** [HHWP-5]	Distribution, HVAC Heating Water	7.5 HP	Thomas C. Boushall Middle School / Main Building	Boiler room	Bell & Gossett				5593
24	7500434	D3050	**Pump** [HHWP-6]	Distribution, HVAC Heating Water	7.5 HP	Thomas C. Boushall Middle School / Main Building	Boiler room	Bell & Gossett				5594
25	7500341	D3050	**Air Handler**	Interior AHU, Easy/Moderate Access	4800 CFM	Thomas C. Boushall Middle School / Main Building	AHU 12 Penthouse	Carrier	39LA12-BX-AFP117	3814U30573	2014	
26	7500370	D3050	**Air Handler**	Interior AHU, Easy/Moderate Access	1250 CFM	Thomas C. Boushall Middle School / Main Building	Gymnasium Storage Room	The Wing Company		24804		5515
27	7500319	D3050	**Air Handler**	Interior AHU, Easy/Moderate Access	1250 CFM	Thomas C. Boushall Middle School / Main Building	Gymnasium Storage Room	The Wing Company		24803		5512
28	7500403	D3050	**Air Handler** [Ahu-10]	Interior AHU, Easy/Moderate Access	4000 CFM	Thomas C. Boushall Middle School / Main Building	Gymnasium Storage Room	Trane	CCDB14AEND	K85J74806		5518
29	7500324	D3050	**Air Handler** [AHU-11]	Interior AHU, Easy/Moderate Access	10 CFM	Thomas C. Boushall Middle School / Main Building	Gymnasium Storage Room	Trane	CCDB19AEND	K850748C74		5519
30	7500444	D3050	**Air Handler** [Ahu-12]	Interior AHU, Easy/Moderate Access	8001 - 10000 CFM	Thomas C. Boushall Middle School / Main Building	AHU 12 Penthouse	Trane	CCDB31BE0D	K85J74809		5557
31	7500355	D3050	**Air Handler** [AHU-13]	Interior AHU, Easy/Moderate Access	8001 - 10000 CFM	Thomas C. Boushall Middle School / Main Building	AHU 13 Penthouse	Trane	CCDB35ME0D	K85K7481C		5542
32	7500393	D3050	**Air Handler** [AHU-14]	Interior AHU, Easy/Moderate Access	8001 - 10000 CFM	Thomas C. Boushall Middle School / Main Building	AHU 7 Penthouse	Trane	CDH41CEDD	K85K74811		5507
33	7500330	D3050	**Air Handler** [AHU-2]	Interior AHU, Easy/Moderate Access	8001 - 10000 CFM	Thomas C. Boushall Middle School / Main Building	AHU 12 Penthouse	Trane	CCDB14EE0D	K85J74799		5522

34	7500329	D3050	**Air Handler** [Ahu-3]	Interior AHU, Easy/Moderate Access	8001 - 10000 CFM	Thomas C. Boushall Middle School / Main Building	AHU 13 Penthouse	Trane	CCDB06CE0D	K85J174800		5547	
35	7500421	D3050	**Air Handler** [Ahu-4]	Interior AHU, Easy/Moderate Access	8001 - 10000 CFM	Thomas C. Boushall Middle School / Main Building	AHU 13 Penthouse	Trane	CCD812EE0D	K85J74801		5548	
36	7500386	D3050	**Air Handler** [AHU-5]	Interior AHU, Easy/Moderate Access	8001 - 10000 CFM	Thomas C. Boushall Middle School / Main Building	AHU 13 Penthouse	Trane	CCDB08EE0D	K85J74802		5543	
37	7500398	D3050	**Air Handler** [AHU-6]	Interior AHU, Easy/Moderate Access	8001 - 10000 CFM	Thomas C. Boushall Middle School / Main Building	AHU 7 Penthouse	Trane	CCD812RNED	K85074803		5506	
38	7500383	D3050	**Air Handler** [AHU-7]	Interior AHU, Easy/Moderate Access	8001 - 10000 CFM	Thomas C. Boushall Middle School / Main Building	AHU 7 Penthouse	Trane	CCD808EEOD	K85974804		5539	
39	7500358	D3050	**Air Handler** [Ahu-8]	Interior AHU, Easy/Moderate Access	8001 - 10000 CFM	Thomas C. Boushall Middle School / Main Building	Mechanical room above media center	Trane	CCDB31BE00	K85J74808		5572	
40	7500399	D3050	**Air Handler** [Ahu-9]	Interior AHU, Easy/Moderate Access	8001 - 10000 CFM	Thomas C. Boushall Middle School / Main Building	Mechanical room above media center	Trane	CCD812BEND	K85J74805		5574	
41	7500351	D3060	**Axial Flow Fan** [RAF-1]	In-Line, 10 HP Motor	40000 CFM	Thomas C. Boushall Middle School / Main Building	AHU 12 Penthouse	Barry Blower	270TUB	854266		5527	
42	7500389	D3060	**Axial Flow Fan** [RAF-13]	In-Line, 10 HP Motor	40000 CFM	Thomas C. Boushall Middle School / Main Building	AHU 13 Penthouse	Barry Blower	445TUB	854274		5546	
43	7500395	D3060	**Axial Flow Fan** [RAF-14]	In-Line, 10 HP Motor	40000 CFM	Thomas C. Boushall Middle School / Main Building	AHU 7 Penthouse	Barry Blower	270TUB			5508	
44	7500318	D3060	**Axial Flow Fan** [RAF-2]	In-Line, 10 HP Motor	40000 CFM	Thomas C. Boushall Middle School / Main Building	AHU 12 Penthouse	Barry Blower	445TUB	854273		5528	
45	7500321	D3060	**Axial Flow Fan** [RAF-4]	In-Line, 10 HP Motor	40000 CFM	Thomas C. Boushall Middle School / Main Building	AHU 13 Penthouse	Barry Blower	270TUB	854268		5550	
46	7500397	D3060	**Axial Flow Fan** [RAF-6]	In-Line, 10 HP Motor	40000 CFM	Thomas C. Boushall Middle School / Main Building	AHU 7 Penthouse	Barry Blower	270TUB	854270		5509	
47	7500326	D3060	**Exhaust Fan**	Roof or Wall-Mounted, 16" Damper	2000 CFM	Thomas C. Boushall Middle School / Main Building	Roof					5532	
48	7500344	D3060	**Exhaust Fan**	Roof or Wall-Mounted, 28" Damper	8500 CFM	Thomas C. Boushall Middle School / Main Building	Roof	CentriMaster	PUB365M-2SU	WJF755907		5511	
49	7500405	D3060	**Exhaust Fan** [EAF-4]	Centrifugal, 16" Damper	1001 - 2000 CFM	Thomas C. Boushall Middle School / Main Building	Gymnasium Storage Room					5514	
50	7500440	D3060	**Exhaust Fan** [EAF-6]	Centrifugal, 16" Damper	2000 CFM	Thomas C. Boushall Middle School / Main Building	Gymnasium Storage Room					5517	
51	7500417	D3060	**Exhaust Fan** [EF-20]	Roof or Wall-Mounted, 16" Damper	1485 CFM	Thomas C. Boushall Middle School / Main Building	Roof	Loren Cook Company	120ACE	065SJ34153-01/000070	2021	5538	
52	7500391	D3060	**Exhaust Fan** [EF-21]	Roof or Wall-Mounted, 16" Damper	1510 CFM	Thomas C. Boushall Middle School / Main Building	Roof	Loren Cook Company	120ACE	065SJ34153-01/0004001	2021	5531	
53	7500343	D3060	**Exhaust Fan** [EF-22]	Roof or Wall-Mounted, 16" Damper	1510 CFM	Thomas C. Boushall Middle School / Main Building	Roof	Loren Cook Company	120ACE	065SJ34153-01/0004002	2021	5530	
54	7500331	D3060	**Exhaust Fan** [EF-23]	Roof or Wall-Mounted, 24" Damper	2285 CFM	Thomas C. Boushall Middle School / Main Building	Roof	Loren Cook Company	180ACE	065SJ34153-01/000230	2021	5529	
55	7526119	D3060	**Supplemental Components**	Air Curtain, 5' Wide Non-Heated		Thomas C. Boushall Middle School / Main Building	Kitchen	Mars Air Systems	60C	859PE60C-L		5453	
56	7526083	D3060	**Supplemental Components**	Air Purifier, Electrostatic	2000 CFM	Thomas C. Boushall Middle School / Main Building	Throughout building	Carrier	FN1AAF006000				53

D40 Fire Protection

Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Yr	Barcode	Qty
1	7526147	D4010	**Fire Suppression System**	Commercial Kitchen, per LF of Hood		Thomas C. Boushall Middle School / Main Building	Kitchen	Ansul	R-102			5418	10

D50 Electrical

Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Yr	Barcode	Qty
1	7500323	D5010	**Generator**	Diesel	35 - 60 KW	Thomas C. Boushall Middle School / Main Building	Site	Kohler				5564	
2	7500433	D5010	**Automatic Transfer Switch**	ATS	40 AMP	Thomas C. Boushall Middle School / Main Building	Main electrical	Kohler				5563	
3	7500315	D5020	**Secondary Transformer**	Dry, Stepdown	150 KVA	Thomas C. Boushall Middle School / Main Building	Electrical closet main entrance 2	Power Smith	ESAVER-C3L-150-480-208	31641	2009	5566	
4	7500388	D5020	**Secondary Transformer**	Dry, Stepdown	30 KVA	Thomas C. Boushall Middle School / Main Building	Electrical closet main entrance 1	Power Smith	ESAVER-C3L-30-460-208	31644	2009	5565	
5	7500415	D5020	**Secondary Transformer**	Dry, Stepdown	150 KVA	Thomas C. Boushall Middle School / Main Building	Electrical closet by gymnasium	Power Smith	ESAVER-C3L-30-480-208-A		2009	5575	
6	7500376	D5020	**Secondary Transformer** [2A]	Dry, Stepdown	30 KVA	Thomas C. Boushall Middle School / Main Building	Electrical closet by 281	Power Smith	ESAVER-C3L-30-480-208-A	31637	2009	5578	
7	7500365	D5020	**Secondary Transformer** [2B]	Dry, Stepdown	30 KVA	Thomas C. Boushall Middle School / Main Building	Electrical closet by 250	Power Smith	ESAVER-C3L-30-480-208-A		2009	5579	
8	7500409	D5020	**Secondary Transformer** [2C]	Dry, Stepdown	75 KVA	Thomas C. Boushall Middle School / Main Building	Electrical closet by 226	Power Smith			2009	5580	
9	7500335	D5020	**Secondary Transformer** [LB]	Dry, Stepdown	75 KVA	Thomas C. Boushall Middle School / Main Building	Electrical closet by staff entrance	Power Smith	ESAVER-C3L-75-480-208-A	31642	2009	5570	
10	7500352	D5020	**Switchboard**	277/480 V	3000 AMP	Thomas C. Boushall Middle School / Main Building	Main electrical	ITE Electric	FCII				
11	7500368	D5020	**Switchboard** [2LC]	120/208 V	30 AMP	Thomas C. Boushall Middle School / Main Building	Electrical closet by 226	ITE Electric	CDP			5541	
12	7500424	D5020	**Distribution Panel**	120/208 V	500 AMP	Thomas C. Boushall Middle School / Main Building	Electrical closet main entrance 2	ITE Electric	CDP		1986	5568	
13	7500367	D5020	**Distribution Panel** [LLC]	120/208 V	400 AMP	Thomas C. Boushall Middle School / Main Building	Electrical closet main entrance 2	ITE Electric	CDP		1986	5569	
14	7500320	D5020	**Distribution Panel** [LRC]	120/208 V	500	Thomas C. Boushall Middle School / Main Building	Electrical closet main entrance 2	ITE Electric	CDP		1986	5567	
15	7500384	D5020	**Motor Control Center**	w/ Main Breaker	800 AMP	Thomas C. Boushall Middle School / Main Building	AHU 13 Penthouse	Siemens	Marq			5551	
16	7500435	D5020	**Motor Control Center**	w/ Main Breaker	800 AMP	Thomas C. Boushall Middle School / Main Building	AHU 7 Penthouse	Siemens	Marq			5500	
17	7500362	D5020	**Motor Control Center**	w/ Main Breaker	800 AMP	Thomas C. Boushall Middle School / Main Building	AHU 12 Penthouse	Siemens	Marq			5559	
18	7500336	D5020	**Motor Control Center**	w/ Main Breaker	800 AMP	Thomas C. Boushall Middle School / Main Building	Boiler room	Siemens	Marq				
19	7500366	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	5 HP	Thomas C. Boushall Middle School / Main Building	AHU 13 Penthouse	ABB	ACH550-VCR-03A0-4+F267	22121002704	2021	5549	
20	7500353	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	5 HP	Thomas C. Boushall Middle School / Main Building	AHU 13 Penthouse	ABB	ACH550-VCR-07A6-4+F267	2212102718	2021	5544	
21	7500348	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	5 HP	Thomas C. Boushall Middle School / Main Building	AHU 12 Penthouse	ABB	ACH550-VCR-012A-4+F267	2184402956	2018	5523	

22	7500422	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	5 HP	Thomas C. Boushall Middle School / Main Building	AHU 7 Penthouse	ABB	ACH550-VCR-06A9-6+F267	2221106627	2022	5504	
23	7500431	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	5 HP	Thomas C. Boushall Middle School / Main Building	AHU 13 Penthouse	ABB	ACH550-VCR-04A8-4+F267	2212000871	2021	5553	
24	7500369	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	5 HP	Thomas C. Boushall Middle School / Main Building	AHU 13 Penthouse	ABB	ACH550-VCR-03A0-4+F267	2212102692	2021	5545	
25	7500408	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	5 HP	Thomas C. Boushall Middle School / Main Building	AHU 13 Penthouse	ABB	ACH550-VCR-027A-4+F267	2212103904	2021	5556	
26	7500354	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	5 HP	Thomas C. Boushall Middle School / Main Building	AHU 13 Penthouse	ABB	ACH550-VCR-07A6-4+F267		2018	5555	
27	7500363	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	7.5 HP	Thomas C. Boushall Middle School / Main Building	Mechanical room above media center	ABB	ACH550-VCR-031A-4	2192705528	2019	5573	
28	7500392	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	5 HP	Thomas C. Boushall Middle School / Main Building	AHU 7 Penthouse	ABB	ACH550-VCR-08A8-4+F267	2184905655	2018	5502	
29	7500441	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	5 HP	Thomas C. Boushall Middle School / Main Building	AHU 12 Penthouse	ABB	ACH550-VCR-08A8-4+F267	2184905581	2018	5526	
30	7500438	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	5 HP	Thomas C. Boushall Middle School / Main Building	AHU 7 Penthouse	ABB	ACH550-VCR-06A9-4+F267	2183804604	2018	5505	
31	7500387	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	5 HP	Thomas C. Boushall Middle School / Main Building	AHU 12 Penthouse	ABB	ACH550-VCR-03A0-4+F267	2212102637	2021	5525	
32	7500372	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	5 HP	Thomas C. Boushall Middle School / Main Building	AHU 7 Penthouse	ABB	ACH550-VCR-03A0-4+F267	2212102612	2021	5501	
33	7500333	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	5 HP	Thomas C. Boushall Middle School / Main Building	AHU 7 Penthouse	ABB	Illegible	Illegible	2021	5510	
34	7500402	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	5 HP	Thomas C. Boushall Middle School / Main Building	AHU 13 Penthouse	ABB	ACH550-VCR-02A1-4+F267	22170028	2021	5554	
35	7500322	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	5 HP	Thomas C. Boushall Middle School / Main Building	AHU 7 Penthouse	ABB	ACH550-VCR-03A3-4+F267	2190102031	2019	5503	
36	7500350	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	5 HP	Thomas C. Boushall Middle School / Main Building	AHU 12 Penthouse	ABB	ACH550-VCR-031A-4+F267	2182503201	2018	5558	
37	7500371	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	5 HP	Thomas C. Boushall Middle School / Main Building	AHU 12 Penthouse	ABB	ACH550-VCR-03A0-4+F267	22121701067	2021	5524	
38	7500429	D5030	**Variable Frequency Drive** [AHU-1]	VFD, by HP of Motor	5 HP	Thomas C. Boushall Middle School / Main Building	AHU 12 Penthouse	ABB	ACH550-VCR-08A8-4+F267	2184905556	2018	5521	
39	7500327	D5030	**Variable Frequency Drive** [Ahu-4]	VFD, by HP of Motor	5 HP	Thomas C. Boushall Middle School / Main Building	AHU 13 Penthouse	ABB	ACH550-VCR-08A8-4+F267	2184305647	2018	5552	

D70 Electronic Safety & Security

Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Yr	Barcode	Qty
1	7500382	D7050	**Fire Alarm Panel**	Fully Addressable		Thomas C. Boushall Middle School / Main Building	Main Office	Simplex	2001			5571	

E10 Equipment

Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Yr	Barcode	Qty
1	7526093	E1030	**Foodservice Equipment**	Exhaust Hood, 8 to 10 LF		Thomas C. Boushall Middle School / Main Building	Kitchen					5444	
2	7526096	E1030	**Foodservice Equipment**	Food Warmer, Proofing Cabinet on Wheels		Thomas C. Boushall Middle School / Main Building	Kitchen	Metro		C5HME029563	2017	5419	

3	7526080	E1030	**Foodservice Equipment**	Food Warmer, Proofing Cabinet on Wheels	Thomas C. Boushall Middle School / Main Building	Kitchen	Metro		C5HME029560	2017	5432
4	7526097	E1030	**Foodservice Equipment**	Food Warmer, Proofing Cabinet on Wheels	Thomas C. Boushall Middle School / Main Building	Kitchen	Metro		C5HME034012	2019	5434
5	7526078	E1030	**Foodservice Equipment**	Mixer, Freestanding	Thomas C. Boushall Middle School / Main Building	Kitchen	Hobart	H600DT	11-376-196	2011	5450
6	7526138	E1030	**Foodservice Equipment**	Mixer, Freestanding	Thomas C. Boushall Middle School / Main Building	Kitchen	Hobart	H800DT	11-376-201	2011	5451
7	7526072	E1030	**Foodservice Equipment**	Prep Table Refrigerated, Salad/Sandwich	Thomas C. Boushall Middle School / Main Building	Kitchen	Delfield	SCFT-50-NUP-3A	1905150001539	2019	5422
8	7526136	E1030	**Foodservice Equipment**	Prep Table Refrigerated, Salad/Sandwich	Thomas C. Boushall Middle School / Main Building	Kitchen	Delfield	SCSC-36-BP	1905150001541	2019	5428
9	7526151	E1030	**Foodservice Equipment**	Prep Table Refrigerated, Salad/Sandwich	Thomas C. Boushall Middle School / Main Building	Kitchen	Delfield	SCSC-36-BP	1905150001542	2019	5421
10	7526089	E1030	**Foodservice Equipment**	Prep Table Refrigerated, Salad/Sandwich	Thomas C. Boushall Middle School / Main Building	Kitchen	Delfield	SCFT-50-NUP-3A	1905150001538	2019	5429
11	7526126	E1030	**Foodservice Equipment**	Refrigerator, 1-Door Reach-In	Thomas C. Boushall Middle School / Main Building	Kitchen	Beverage-Air Corporation	SM49			5435
12	7526149	E1030	**Foodservice Equipment**	Refrigerator, 2-Door Reach-In	Thomas C. Boushall Middle School / Main Building	Kitchen	Traulsen	G20010	T41060L06		5433
13	7526110	E1030	**Foodservice Equipment**	Refrigerator, 2-Door Reach-In	Thomas C. Boushall Middle School / Main Building	Kitchen	Hobart	02	32511165		5431
14	7526131	E1030	**Foodservice Equipment**	Refrigerator, 3-Door Reach-In	Thomas C. Boushall Middle School / Main Building	Kitchen	Hobart	03	32-508-762		5436
15	7526112	E1030	**Foodservice Equipment**	Refrigerator, 3-Door Reach-In	Thomas C. Boushall Middle School / Main Building	Kitchen	Manitowoc	GBF3-S	1120067179		5447
16	7526077	E1030	**Foodservice Equipment**	Steamer, Tabletop	Thomas C. Boushall Middle School / Main Building	Kitchen	Delfield	SH-4-NU	1905150001536	2019	5423
17	7526122	E1030	**Foodservice Equipment**	Steamer, Tabletop	Thomas C. Boushall Middle School / Main Building	Kitchen	Delfield	SH-4-NU	1905150001537	2019	5430
18	7526092	E1030	**Foodservice Equipment**	Tilting Skillet	Thomas C. Boushall Middle School / Main Building	Kitchen	Cleveland				5439
19	7526133	E1030	**Foodservice Equipment**	Walk-In, Evaporator for Refigerator/Freezer	Thomas C. Boushall Middle School / Main Building	Kitchen	Bally		56030-86		5441
20	7526075	E1030	**Foodservice Equipment**	Walk-In, Evaporator for Refigerator/Freezer	Thomas C. Boushall Middle School / Main Building	Kitchen	KeepRite				5443
21	7526094	E1030	**Foodservice Equipment**	Walk-In, Freezer	Thomas C. Boushall Middle School / Main Building	Kitchen	Bally				5442
22	7526098	E1030	**Foodservice Equipment**	Walk-In, Refrigerator	Thomas C. Boushall Middle School / Main Building	Kitchen	Bally	3478-2	DX8B031601		5440
23	7526114	E1030	**Foodservice Equipment** [1]	Convection Oven, Single	Thomas C. Boushall Middle School / Main Building	Kitchen	Convotherm		WS217032212	2017	5437
24	7526144	E1030	**Foodservice Equipment** [10 (surplus)]	Refrigerator, 1-Door Reach-In	Thomas C. Boushall Middle School / Main Building	Kitchen	Beverage-Air Corporation				5424
25	7526088	E1030	**Foodservice Equipment** [3]	Refrigerator, 3-Door Reach-In	Thomas C. Boushall Middle School / Main Building	Kitchen	Manitowoc	CBR2-S	1120098323		5449

26	7526115	E1030	**Foodservice Equipment** [4]	Convection Oven, Single	Thomas C. Boushall Middle School / Main Building	Kitchen	Convotherm		WS217032213	2017	5438
27	7526150	E1030	**Foodservice Equipment** [4]	Refrigerator, 3-Door Reach-In	Thomas C. Boushall Middle School / Main Building	Kitchen	Traulsen	G38010	T168395H11	2016	5448
28	7526090	E1030	**Foodservice Equipment** [6]	Refrigerator, 1-Door Reach-In	Thomas C. Boushall Middle School / Main Building	Kitchen	Beverage-Air Corporation	SMF34Y			5427
29	7526101	E1030	**Foodservice Equipment** [7]	Refrigerator, 1-Door Reach-In	Thomas C. Boushall Middle School / Main Building	Kitchen	Beverage-Air Corporation				5420
30	7526084	E1030	**Foodservice Equipment** [8]	Convection Oven, Single	Thomas C. Boushall Middle School / Main Building	Kitchen	Garland	SUMG-100	1905100100420	2019	5445
31	7526135	E1030	**Foodservice Equipment** [9]	Convection Oven, Single	Thomas C. Boushall Middle School / Main Building	Kitchen	Garland	SUMG-100	1905100100419	2019	5446
32	7526127	E1030	**Foodservice Equipment** [9]	Refrigerator, 1-Door Reach-In	Thomas C. Boushall Middle School / Main Building	Kitchen	Beverage-Air Corporation				5425
33	7526073	E1030	**Foodservice Equipment** [A]	Refrigerator, 1-Door Reach-In	Thomas C. Boushall Middle School / Main Building	Kitchen	Beverage-Air Corporation	SMF34Y-1-S			5426
34	7526142	E1040	**Healthcare Equipment**	Defibrillator (AED), Cabinet-Mounted	Thomas C. Boushall Middle School / Main Building	Main Entrance					