

FACILITY CONDITION ASSESSMENT

prepared for

Shelby County Board of Education
160 South Hollywood Street
Memphis, Tennessee 38112-4892
Michelle Stuart



Robert R. Church Elementary
4100 Millbranch Road
Memphis, Tennessee 38116

PREPARED BY:

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BV PROJECT #:

163745.23R000-166.354

DATE OF REPORT:

September 30, 2024

ON SITE DATE:

July 30, 2024

Bureau Veritas

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TABLE OF CONTENTS

1. Executive Summary	1
Property Overview and Assessment Details	1
Significant/Systemic Findings and Deficiencies	2
Facility Condition Index (FCI)	3
Immediate Needs.....	5
Key Findings	6
Plan Types.....	7
2. Building and Site Information	8
3. Property Space Use and Observed Areas	11
4. ADA Accessibility	12
5. Purpose and Scope	13
6. Opinions of Probable Costs	15
Methodology	15
Definitions	15
7. Certification.....	17
8. Appendices	18



1. Executive Summary

Property Overview and Assessment Details

General Information	
Property Type	Elementary School
Main Address	4100 Millbranch Road, Memphis, Tennessee 38116
Site Developed	2001
Site Area	17.85 acres (estimated)
Parking Spaces	89 total spaces all in open lots; 4 of which are accessible
Building Area	81,500 SF
Number of Stories	1 above grade
Outside Occupants / Leased Spaces	None
Date(s) of Visit	July 30, 2024
Management Point of Contact	Ms. Mary Taylor, Shelby County Board of Education (901) 416-5376 taylorm15@scsk12.org
On-site Point of Contact (POC)	Same as above
Assessment and Report Prepared By	Dalton W Bryan
Reviewed By	AI Diefert Technical Report Reviewer For Andy Hupp Program Manager Andy.Hupp@bureauveritas.com 800.733.0660 x7296632
AssetCalc Link	Full dataset for this assessment can be found at: https://www.assetcalc.net/

Significant/Systemic Findings and Deficiencies

Historical Summary

This site was developed in 2001 as an Elementary School and has remained as such since that time.

Architectural

The structure is comprised of CMU and steel with a brick veneer and flat roofs. The interiors are typical for a school building with VCT flooring, ACT suspended ceilings, and painted walls. No critical defects were observed during the assessment except for the ACT ceilings, which are badly damaged from condensation and other water intrusion issues. During the assessment the roof was nearing the end of a new EPDM roof installation.

Mechanical, Electrical, Plumbing and Fire (MEPF)

Most of the fire suppression/ protection, electrical and plumbing systems are contemporary with the construction of the building. Upgrades to the heating and cooling systems, such as a chiller and split systems, have been made in recent years.

Site

Much of the site is primarily open grassy fields with asphalt parking lots surrounding the building. The parking lots are worn with significant loss to striping and topcoat with webbing and damage to the asphalt. The grounds are illuminated via pole and building mounted lighting.

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 each building's Facility Condition Index (FCI), which provides a theoretical objective indication of a building's overall condition. By definition, the FCI is defined as the ratio of the cost of current needs divided by current replacement value (CRV) of the 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 deficiencies.
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 relatively compare facilities across a portfolio instead of being over-analyzed and scrutinized as stand-alone values. The table below summarizes the individual findings for this FCA:

FCI Analysis Robert R. Church Elementary(2001)			
Replacement Value \$ 32,600,000	Total SF 81,500	Cost/SF \$ 400	FCI
Current	\$ 0		0.0 %
3-Year	\$ 1,519,500		4.7 %
5-Year	\$ 1,668,700		5.1 %
10-Year	\$ 4,237,600		13.0 %

The vertical bars below represent the year-by-year needs identified for the site. The orange line in the graph below 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 (blue bars) are associated with the values along the right Y axis.

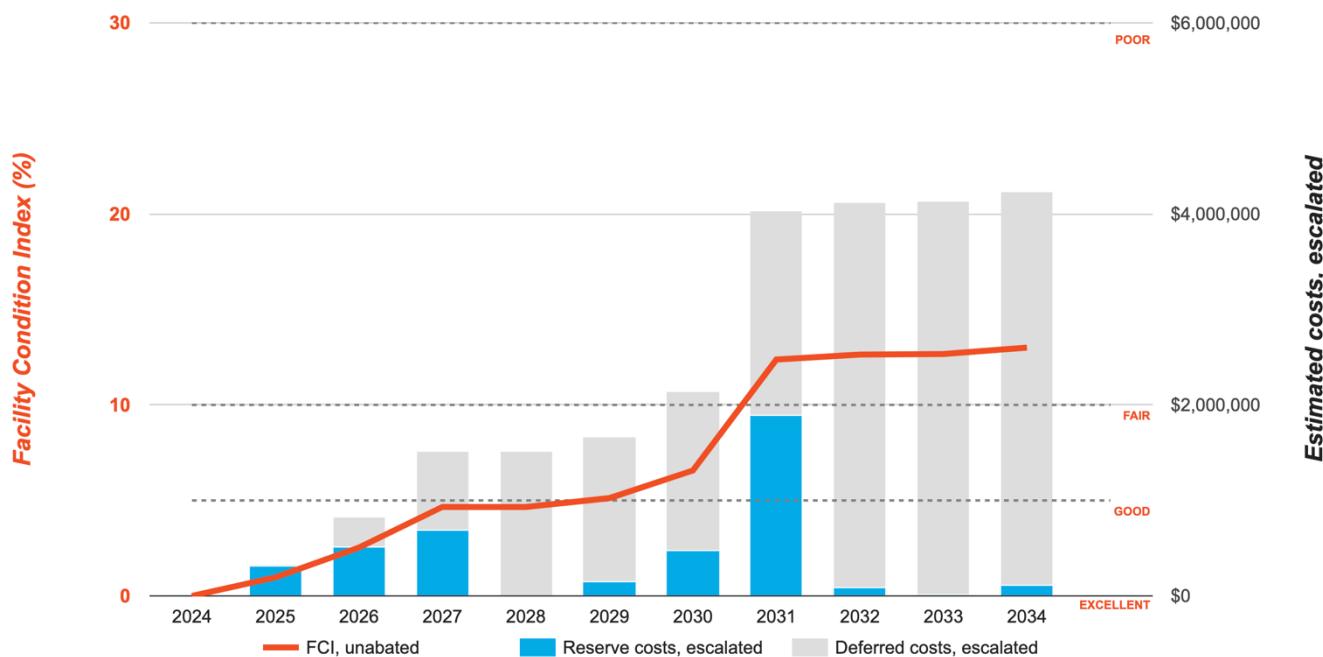
Needs by Year with Unaddressed FCI Over Time

FCI Analysis: Robert R. Church Elementary

Replacement Value: \$32,600,000

Inflation Rate: 3.0%

Average Needs per Year: \$385,300



Immediate Needs

There are no immediate needs to report.

Key Findings



Parking Lots in Poor condition.

Pavement, Asphalt
Robert R. Church Elementary Site

Uniformat Code: G2020
Recommendation: **Seal and Stripe in 2025**

Priority Score: **84.8**

Plan Type:
Performance/Integrity

Cost Estimate: \$36,000

\$\$\$\$

Faded - AssetCALC ID: 7956425



Suspended Ceilings in Poor condition.

Acoustical Tile (ACT)
Robert R. Church Elementary Throughout Building

Uniformat Code: C1070
Recommendation: **Replace in 2025**

Priority Score: **81.8**

Plan Type:
Performance/Integrity

Cost Estimate: \$271,300

\$\$\$\$

Stained - AssetCALC ID: 7956427

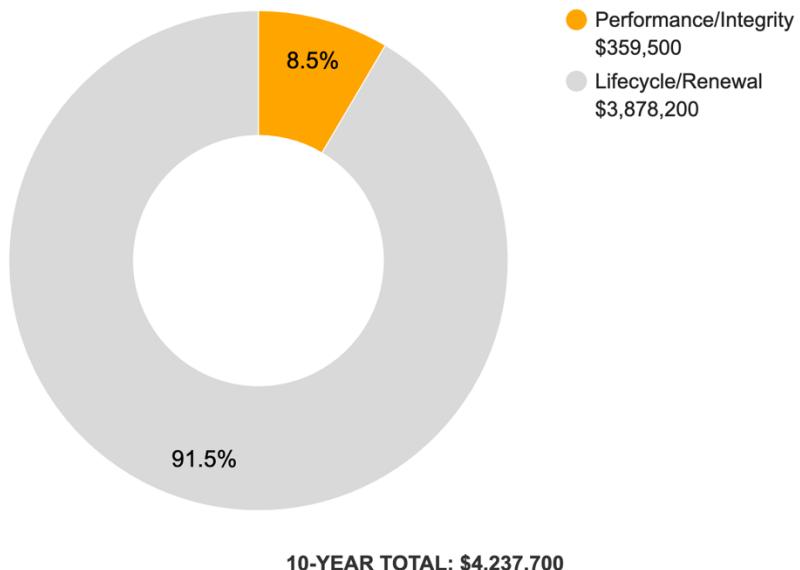
Plan Types

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.

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 order to meet current standards, facility usage, or client/occupant needs.
Lifecycle/Renewal	■ Any component or system that is not currently deficient or problematic but for which future replacement or repair is anticipated and budgeted.

Plan Type Distribution (by Cost)



2. Building and Site Information



Systems Summary

System	Description	Condition
Structure	Masonry bearing walls with metal roof deck supported by open-web steel joists and concrete foundation system	Good
Façade	Primary Wall Finish: Brick Windows: Aluminum	Fair
Roof	Flat construction with EPDM finish	Fair
Interiors	Walls: Painted gypsum board, CMU Floors: VCT, tile, Carpet Ceilings: ACT, Unfinished/exposed	Fair
Elevators	None	--
Plumbing	Distribution: Copper supply and cast iron, PVC waste and venting Hot Water: Gas water heaters with integral tanks Fixtures: Toilets, urinals, and sinks in all restrooms	Fair
HVAC	Central System: Boilers, chillers, air handlers feeding VAV and fan coil units Non-Central System: Packaged units, Split-system heat pumps Supplemental components: Make-up air unit	Fair
Fire Suppression	Wet-pipe sprinkler system and fire extinguishers, and kitchen hood system, dedicated computer/server room chemical system	Fair
Electrical	Source and Distribution: Main switchboard with copper wiring Interior Lighting: Linear fluorescent	Fair
Fire Alarm	Alarm panel with smoke detectors, heat detectors, alarms, strobes, pull stations, back-up emergency lights, and exit signs	Good

Systems Summary

Equipment/Special	Commercial kitchen equipment, Commercial laundry equipment	Fair
Site Pavement	Asphalt lots with limited areas of concrete aprons and pavement and adjacent concrete sidewalks, curbs, ramps, and stairs	Poor
Site Development	Property entrance signage Playgrounds Limited areas with park benches, picnic tables, trash receptacles	Fair
Landscaping and Topography	Limited landscaping features including lawns, trees, bushes, and planters Irrigation: Present Low site slopes throughout	Fair
Utilities	Municipal water and sewer Local utility-provided electric and natural gas	Good
Site Lighting	Pole-mounted: HPS Building-mounted: HPS	Fair
Ancillary Structures	None	--
Accessibility	Presently it does not appear an accessibility study is needed for this property. See Appendix D.	
Key Issues and Findings	Stained ceiling tiles, parking lot striping faded	

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
Facade	-	-	\$2,800	\$432,200	\$19,800	\$454,800
Roofing	-	-	-	-	\$1,621,300	\$1,621,300
Interiors	-	\$315,200	\$401,000	\$377,200	\$1,285,300	\$2,378,800
Plumbing	-	-	-	\$214,500	\$1,891,600	\$2,106,100
HVAC	-	\$57,000	\$274,600	\$1,031,200	\$1,340,700	\$2,703,500
Fire Protection	-	\$92,500	-	\$5,300	\$7,200	\$105,000
Electrical	-	-	\$41,500	\$111,000	\$687,600	\$840,100
Fire Alarm & Electronic Systems	-	-	-	\$218,400	-	\$218,400
Equipment & Furnishings	-	\$26,500	\$116,900	\$6,100	\$8,100	\$157,700
Site Utilities	-	-	\$6,600	\$79,800	-	\$86,400
Site Pavement	-	\$334,100	-	\$43,000	\$107,600	\$484,700
Site Development	-	-	-	\$50,100	-	\$50,100
TOTALS (3% inflation)	-	\$825,300	\$843,400	\$2,568,900	\$6,969,300	\$11,206,900

3. Property Space Use and Observed Areas

Areas Observed

The interior spaces were observed in order to gain a clear understanding of the property's overall condition. Other areas accessed included the site within the property boundaries, the exterior of the property, and the roofs.

Key Spaces Not Observed

All key areas of the property were accessible and observed.

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 checklists that are 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 particular assessment. A full measured ADA survey would be required to identify any and all 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 not included in the dataset
- For any “none” boxes checked or reference to “no issues” identified, that alone does not guarantee full compliance

The facility was originally constructed in 2001. The facility has not since been substantially renovated.

No information about complaints or pending litigation associated with potential accessibility issues was provided during the interview process.

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 the 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's or component's respective 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.

Exceedingly Aged

A fairly common scenario encountered during the assessment process, and a frequent source of debate, occurs when classifying and describing "very old" systems or components that are still functioning adequately and do not appear nor were reported to be in any way deficient. To help provide some additional intelligence on these items, such components will be tagged in the database as Exceedingly Aged. This designation will be reserved for mechanical or electrical systems or components that have aged well beyond their industry standard lifecycles, typically at least 15 years beyond and/or twice their Estimated Useful Life (EUL). In tandem with this designation, these items will be assigned a Remaining Useful Life (RUL) not less than two years but not greater than 1/3 of their standard EUL. As such the recommended replacement time for these components will reside outside the typical Short Term window but will not be pushed 'irresponsibly' (too far) into the future.

7. Certification

Shelby County Board of Education (the Client) retained Bureau Veritas to perform this Facility Condition Assessment in connection with its continued operation of Robert R. Church Elementary, 4100 Millbranch Road, Memphis, Tennessee 38116, 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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8. Appendices

Appendix A: Photographic Record

Appendix B: Site Plan

Appendix C: Pre-Survey Questionnaire

Appendix D: Accessibility Review and Photos

Appendix E: Component Condition Report

Appendix F: Replacement Reserves

Appendix G: Equipment Inventory List

Appendix A: *Photographic Record*

Photographic Overview



1 - FRONT ELEVATION



2 - LEFT ELEVATION



3 - REAR ELEVATION



4 - RIGHT ELEVATION



5 - ROOFING



6 - CEILING FINISHES



Photographic Overview



7 - INTERIOR DOOR



8 - INTERIOR FINISHES



9 - PLUMBING SYSTEM



10 - WATER HEATER



11 - BOILER



12 - CHILLER

Photographic Overview



13 - HVAC SYSTEM



14 - AIR HANDLER



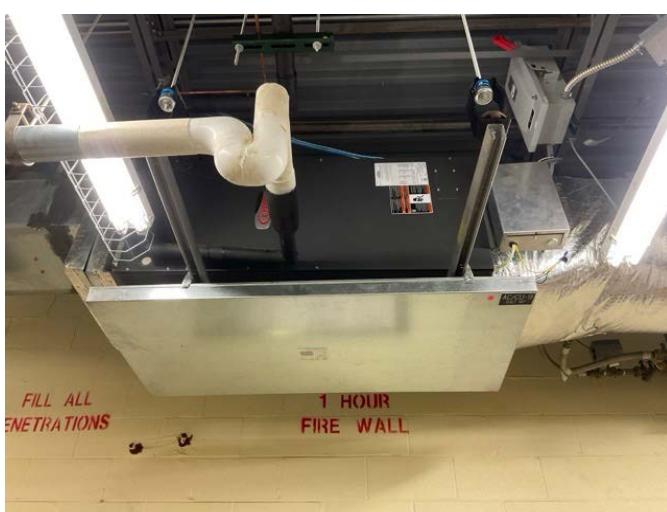
15 - PACKAGED UNIT



16 - MAKE-UP AIR UNIT



17 - FAN COIL UNIT



18 - TERMINAL UNITS - VAV/FCU

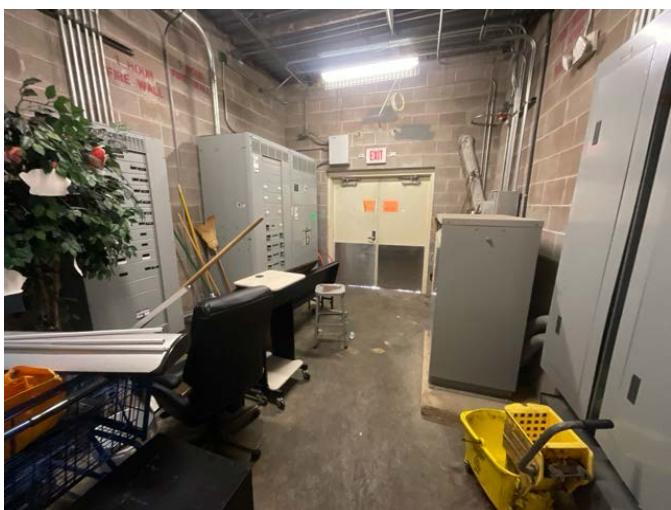
Photographic Overview



19 - FIRE SUPPRESSION SYSTEM



20 - FIRE ALARM PANEL



21 - ELECTRICAL SYSTEM



22 - PLAY STRUCTURE



23 - PARKING LOTS



24 - PARKING LOTS

Appendix B: Site Plan

Site Plan



Project Number	Project Name
163745.23R000-166.354	Robert R. Church Elementary
Source	On-Site Date
Google	July 30, 2024



**BUREAU
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Appendix C: Pre-Survey Questionnaire

BV FACILITY CONDITION ASSESSMENT: PRE-SURVEY QUESTIONNAIRE

Building / Facility Name: Robert R. Church Elementary

Name of person completing form: _____

Title / Association w/ property: _____

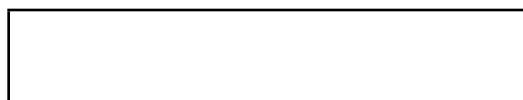
Length of time associated w/ property: _____

Date Completed: _____

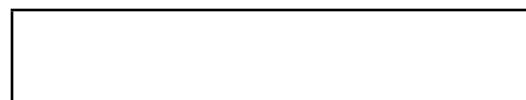
Phone Number: _____

Method of Completion: INCOMPLETE - client/POC unwilling or unable to complete

The Pre-Survey Questionnaire was not filled out either prior to or during the assessment.



Signature of Assessor



Signature of POC

Appendix D: *Accessibility Review and Photos*

Visual Checklist - 2010 ADA Standards for Accessible Design

Property Name: Robert R. Church Elementary

BV Project Number: 163745.23R000-166.354

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	

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 ?	✗			
2	Does the required number of van-accessible designated spaces appear to be provided ?	✗			
3	Are accessible spaces on the shortest accessible route to an accessible building entrance ?	✗			
4	Does parking signage include the International Symbol of Accessibility ?	✗			
5	Does each accessible space have an adjacent access aisle ?	✗			
6	Do parking spaces and access aisles appear to be relatively level and without obstruction ?	✗			

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 ?	✗			
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 ?	✗			
3	Are curb ramps present at transitions through raised curbs on all accessible routes?	✗			
4	Do curb ramps appear to have compliant slopes for all components ?	✗			
5	Do ramp runs on an accessible route appear to have compliant slopes ?	✗			
6	Do ramp runs on an accessible route appear to have a compliant rise and width ?	✗			

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

Abbreviated Accessibility Checklist

Building Entrances



MAIN ENTRANCE



DOOR HARDWARE

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

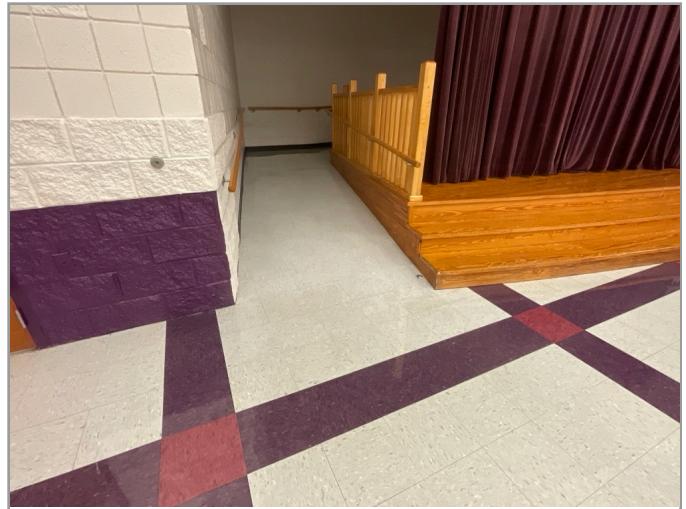
7	Do pairs of accessible entrance doors in series appear to have the minimum clear space between them ?	X			
8	Do thresholds at accessible entrances appear to have a compliant height ?	X			

Abbreviated Accessibility Checklist

Interior Accessible Route



ACCESSIBLE INTERIOR PATH



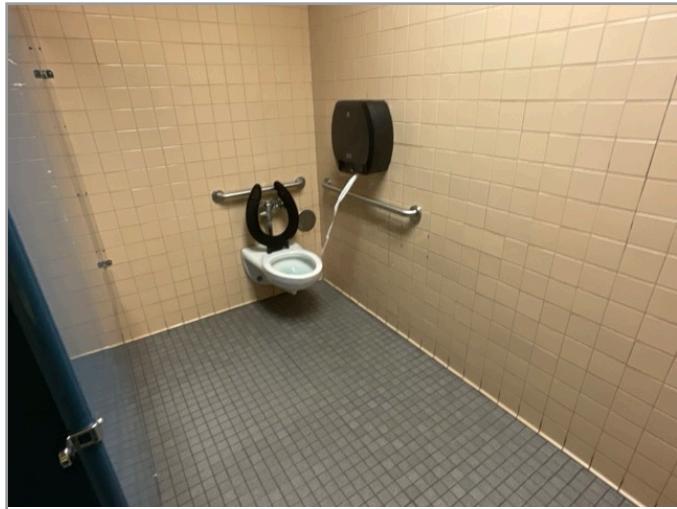
ACCESSIBLE INTERIOR RAMP

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

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			
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

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 ?	✗			
2	Does the lavatory appear to be mounted at a compliant height and with compliant knee area ?	✗			
3	Does the lavatory faucet have compliant handles ?	✗			
4	Is the plumbing piping under lavatories configured to protect against contact ?	✗			
5	Are grab bars provided at compliant locations around the toilet ?	✗			
6	Do toilet stall doors appear to provide the minimum compliant clear width ?	✗			

7	Do toilet stalls appear to provide the minimum compliant clear floor area ?	X			
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 ?	X			
9	Do accessories and mirrors appear to be mounted at a compliant height ?	X			

Abbreviated Accessibility Checklist

Playgrounds & Swimming Pools



ACCESSIBLE ROUTE TO PLAYGROUND



OVERVIEW OF PLAYGROUND

Question		Yes	No	NA	Comments
1	Is there an accessible route to the play area / s?	✗			
2	Has the play area been reviewed for accessibility ?	✗			
3	Are publicly accessible swimming pools equipped with an entrance lift ?	✗			

Appendix E: **Component Condition Report**

Component Condition Report | Robert R. Church Elementary

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
Facade						
B2010	Building Exterior	Fair	Exterior Walls, Brick Veneer	55,400	SF	27
B2020	Building Exterior	Fair	Glazing, any type, by SF	6,200	SF	7
B2020	Cafeteria	Fair	Screens & Shutters, Rolling Security Shutter, 10 to 50 SF	2	5	7956481
B2050	Courtyard	Fair	Exterior Door, Aluminum-Framed & Glazed, Standard Swing	8	7	7956477
B2050	Building Exterior	Fair	Exterior Door, Steel, Standard	20	17	7956446
Roofing						
B3010	Roof	Excellent	Roofing, Single-Ply Membrane, EPDM	80,169	SF	20
B3010	Roof	Fair	Roofing, Metal	1,331	SF	17
Interiors						
C1010	Cafeteria	Fair	Movable Partition, Movable Partitions, Fabric 6' Height	600	SF	2
C1030	Entrances	Fair	Interior Door, Steel, Standard	27	17	7956431
C1030	Throughout Building	Fair	Interior Door, Wood, Solid-Core	86	17	7956436
C1070	Throughout Building	Poor	Suspended Ceilings, Acoustical Tile (ACT)	77,500	SF	1
C2010	Throughout Building	Fair	Wall Finishes, any surface, Prep & Paint	203,750	SF	6
C2030	Commercial Kitchen	Fair	Flooring, Quarry Tile	4,000	SF	27
C2030	Throughout Building	Fair	Flooring, Vinyl Tile (VCT)	73,400	SF	3
C2030	Library	Fair	Flooring, Carpet, Commercial Standard	4,100	SF	2
C2050	Commercial Kitchen	Fair	Ceiling Finishes, Vinyl	4,000	SF	7
Plumbing						
D2010	Boiler Room	Fair	Backflow Preventer, Domestic Water	1	7	7956488
D2010	Boiler Room	Fair	Water Heater, Gas, Commercial (600 MBH)	1	6	7956490
D2010	Main Office	Fair	Shower, Valve & Showerhead	1	7	7956463
D2010	Main Office	Fair	Sink/Lavatory, Wall-Hung, Vitreous China	15	7	7956497

Component Condition Report | Robert R. Church Elementary

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
D2010	Restrooms	Fair	Urinal, Standard	10	7	7956407
D2010	Throughout Building	Fair	Plumbing System, Supply & Sanitary, High Density (excludes fixtures)	81,500 SF	17	7956442
D2010	Throughout Building	Good	Drinking Fountain, Wall-Mounted, Single-Level	14	10	7956428
D2010	Restrooms	Fair	Sink/Lavatory, Vanity Top, Solid Surface or Vitreous China	18	7	7956448
D2010	Utility Rooms/Areas	Fair	Sink/Lavatory, Service Sink, Floor	5	12	7956409
D2010	Faculty Break Rooms	Fair	Sink/Lavatory, Vanity Top, Stainless Steel	6	7	7956438
D2010	Boiler Room	Fair	Backflow Preventer, Domestic Water	1	7	7956412
D2010	Throughout Building	Fair	Toilet, Commercial Water Closet	41	7	7956501
HVAC						
D3020	Boiler Room	Fair	Boiler, Gas, HVAC	1	7	7956496
D3020	Boiler Room	Fair	Unit Heater, Hydronic	1	5	7956426
D3030	Building Exterior	Good	Chiller, Air-Cooled	1	20	7956422
D3030	Roof	Good	Split System, Condensing Unit/Heat Pump	1	10	7956441
D3030	Roof	Good	Split System, Condensing Unit/Heat Pump	1	10	7956458
D3030	Roof	Fair	Split System, Condensing Unit/Heat Pump	1	7	7956502
D3030	Roof	Good	Split System, Condensing Unit/Heat Pump	1	10	7956418
D3030	Roof	Good	Split System, Condensing Unit/Heat Pump	1	10	7956453
D3030	Roof	Fair	Split System, Condensing Unit/Heat Pump	1	7	7956455
D3030	Roof	Good	Split System, Condensing Unit/Heat Pump	1	10	7956472
D3030	Roof	Good	Split System, Condensing Unit/Heat Pump	1	10	7956433
D3030	Roof	Good	Split System, Condensing Unit/Heat Pump	1	10	7956447
D3030	Roof	Fair	Split System, Condensing Unit/Heat Pump	1	9	7956499
D3030	Roof	Good	Split System, Condensing Unit/Heat Pump	1	10	7956492
D3030	Roof	Good	Split System, Condensing Unit/Heat Pump	1	10	7956494
D3030	Roof	Good	Split System, Condensing Unit/Heat Pump	1	10	7956469

Component Condition Report | Robert R. Church Elementary

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
D3030	Roof	Fair	Split System, Condensing Unit/Heat Pump	1	7	7956430
D3050	Roof	Fair	Air Handler, Exterior AHU	1	3	7956486
D3050	Roof	Good	Packaged Unit, RTU, Pad or Roof-Mounted	1	19	7956462
D3050	Roof	Fair	Air Handler, Exterior AHU	1	3	7956489
D3050	Throughout Building	Fair	HVAC System, Ductwork w/ VAV/FCU, High Density	81,500 SF	7	7956500
D3050	Boiler Room	Fair	Pump, Distribution, HVAC Chilled or Condenser Water	1	2	7956410
D3050	Throughout Building	Fair	HVAC System, Hydronic Piping, 2-Pipe	81,500 SF	17	7956452
D3050	Roof	Fair	Air Handler, Exterior AHU	1	3	7956471
D3050	Roof	Fair	Air Handler, Exterior AHU	1	3	7956475
D3050	Roof	Fair	Make-Up Air Unit, MUA or MAU	1	5	7956437
D3050	Boiler Room	Fair	Pump, Distribution, HVAC Heating Water	1	2	7956439
D3050	Boiler Room	Fair	Pump, Distribution, HVAC Heating Water	1	2	7956480
D3050	Restrooms	Fair	Fan Coil Unit, Hydronic Terminal	14	3	7956482
D3050	Boiler Room	Fair	Pump, Distribution, HVAC Chilled or Condenser Water	1	2	7956421
D3050	Roof	Fair	Air Handler, Interior AHU, Easy/Moderate Access	1	2	7956465
D3050	Boiler Room	Fair	Pump, Distribution, HVAC Chilled or Condenser Water	1	2	7956443
D3060	Kitchen	Fair	Supplemental Components, Air Curtain, 5' Wide Non-Heated	1	3	7956460
D3060	Kitchen	Fair	Supplemental Components, Air Curtain, 5' Wide Non-Heated	1	3	7956484
Fire Protection						
D4010	Throughout Building	Fair	Fire Suppression System, Existing Sprinkler Heads, by SF	81,500 SF	2	7956479
D4030	Throughout Building	Good	Fire Extinguisher, Type ABC, up to 20 LB	28	8	7956468
Electrical						
D5020	N/A	Fair	Secondary Transformer, Dry, Stepdown	1	7	7956491
D5020	B116M	Fair	Secondary Transformer, Dry, Stepdown	1	7	7956473
D5020	Electrical Room	Fair	Secondary Transformer, Dry, Stepdown	1	7	7956408

Component Condition Report | Robert R. Church Elementary

Component Condition Report | Robert R. Church Elementary

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
G2020	Site	Fair	Parking Lots, Pavement, Asphalt, Mill & Overlay	80,000	SF	2 7956461
G2020	Site	Poor	Parking Lots, Pavement, Asphalt, Seal & Stripe	80,000	SF	1 7956425
Athletic, Recreational & Playfield Areas						
G2050	Site	Fair	Play Structure, Multipurpose, Large	1	10	7956451
Sitework						
G2060	Site	Fair	Flagpole, Metal	1	7	7956470
G4050	Site	Fair	Pole Light Fixture w/ Lamps, any type 30' High, w/ LED Replacement, Replace/Install	9	8	7956420
G4050	Site	Fair	Site Walkway Fixture, Bollard Style, Concrete-Based, Replace/Install	4	3	7956464

Appendix F: **Replacement Reserves**

Replacement Reserves Report

Robert R. Church Elementary

9/30/2024

Location	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Robert R. Church Elementary	\$0	\$316,468	\$508,866	\$694,231	\$0	\$149,199	\$472,636	\$1,893,022	\$85,127	\$9,264	\$108,857	\$49,832	\$49,545	\$0	\$0	\$0	\$548,208
Grand Total	\$0	\$316,468	\$508,866	\$694,231	\$0	\$149,199	\$472,636	\$1,893,022	\$85,127	\$9,264	\$108,857	\$49,832	\$49,545	\$0	\$0	\$0	\$548,208

Replacement Reserves Report

Robert R. Church Elementary

9/30/2024

Uniform Code	Location	Description	Cost	Lifespan (EUL)		EAge	RUL	Quantity	Unit	Unit Cost *	Subtotal	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	
D3030	Roof	7956502 Split System, Condensing Unit/Heat Pump, Replace		15	8	7	1	EA	\$4,000.00	\$4,000									\$4,000					
D3030	Roof	7956455 Split System, Condensing Unit/Heat Pump, Replace		15	8	7	1	EA	\$4,000.00	\$4,000									\$4,000					
D3030	Roof	7956499 Split System, Condensing Unit/Heat Pump, Replace		15	6	9	1	EA	\$7,100.00	\$7,100										\$7,100				
D3030	Roof	7956433 Split System, Condensing Unit/Heat Pump, Replace		15	5	10	1	EA	\$2,300.00	\$2,300										\$2,300				
D3030	Roof	7956447 Split System, Condensing Unit/Heat Pump, Replace		15	5	10	1	EA	\$4,000.00	\$4,000										\$4,000				
D3030	Roof	7956492 Split System, Condensing Unit/Heat Pump, Replace		15	5	10	1	EA	\$2,300.00	\$2,300										\$2,300				
D3030	Roof	7956494 Split System, Condensing Unit/Heat Pump, Replace		15	5	10	1	EA	\$2,300.00	\$2,300										\$2,300				
D3030	Roof	7956469 Split System, Condensing Unit/Heat Pump, Replace		15	5	10	1	EA	\$4,000.00	\$4,000										\$4,000				
D3030	Roof	7956441 Split System, Condensing Unit/Heat Pump, Replace		15	5	10	1	EA	\$2,300.00	\$2,300										\$2,300				
D3030	Roof	7956458 Split System, Condensing Unit/Heat Pump, Replace		15	5	10	1	EA	\$2,300.00	\$2,300										\$2,300				
D3030	Roof	7956453 Split System, Condensing Unit/Heat Pump, Replace		15	5	10	1	EA	\$3,400.00	\$3,400										\$3,400				
D3030	Roof	7956472 Split System, Condensing Unit/Heat Pump, Replace		15	5	10	1	EA	\$2,300.00	\$2,300										\$2,300				
D3030	Roof	7956418 Split System, Condensing Unit/Heat Pump, Replace		15	5	10	1	EA	\$4,000.00	\$4,000										\$4,000				
D3050	Boiler Room	7956443 Pump, Distribution, HVAC Chilled or Condenser Water, Replace		25	23	2	1	EA	\$6,100.00	\$6,100										\$6,100				
D3050	Boiler Room	7956410 Pump, Distribution, HVAC Chilled or Condenser Water, Replace		25	23	2	1	EA	\$6,500.00	\$6,500										\$6,500				
D3050	Boiler Room	7956439 Pump, Distribution, HVAC Heating Water, Replace		25	23	2	1	EA	\$6,500.00	\$6,500										\$6,500				
D3050	Boiler Room	7956480 Pump, Distribution, HVAC Heating Water, Replace		25	23	2	1	EA	\$6,500.00	\$6,500										\$6,500				
D3050	Boiler Room	7956421 Pump, Distribution, HVAC Chilled or Condenser Water, Replace		25	23	2	1	EA	\$6,100.00	\$6,100										\$6,100				
D3050	Throughout Building	7956452 HVAC System, Hydronic Piping, 2-Pipe, Replace		40	23	17	81500	SF	\$5.00	\$407,500														
D3050	Roof	7956465 Air Handler, Interior AHU, Easy/Moderate Access, Replace		25	23	2	1	EA	\$22,000.00	\$22,000										\$22,000				
D3050	Roof	7956489 Air Handler, Exterior AHU, Replace		20	17	3	1	EA	\$48,000.00	\$48,000										\$48,000				
D3050	Roof	7956471 Air Handler, Exterior AHU, Replace		20	17	3	1	EA	\$37,200.00	\$37,200										\$37,200				
D3050	Roof	7956475 Air Handler, Exterior AHU, Replace		20	17	3	1	EA	\$26,400.00	\$26,400										\$26,400				
D3050	Roof	7956486 Air Handler, Exterior AHU, Replace		20	17	3	1	EA	\$26,400.00	\$26,400										\$26,400				
D3050	Restrooms	7956482 Fan Coil Unit, Hydronic Terminal, Replace		20	17	3	14	EA	\$4,880.00	\$68,320										\$68,320				
D3050	Roof	7956437 Make-Up Air Unit, MUA or MAU, Replace		20	15	5	1	EA	\$35,000.00	\$35,000										\$35,000				
D3050	Throughout Building	7956500 HVAC System, Ductwork w/ VAV/FCU, High Density, Replace		30	23	7	81500	SF	\$8.00	\$652,000											\$652,000			
D3050	Roof	7956462 Packaged Unit, RTU, Pad or Roof-Mounted, Replace		20	1	19	1	EA	\$20,000.00	\$20,000														
D3060	Kitchen	7956460 Supplemental Components, Air Curtain, 5' Wide Non-Heated, Replace		20	17	3	1	EA	\$1,500.00	\$1,500										\$1,500				
D3060	Kitchen	7956484 Supplemental Components, Air Curtain, 5' Wide Non-Heated, Replace		20	17	3	1	EA	\$1,500.00	\$1,500										\$1,500				
D4010	Throughout Building	7956479 Fire Suppression System, Existing Sprinkler Heads, by SF, Replace		25	23	2	81500	SF	\$1.07	\$87,205										\$87,205				
D4030	Throughout Building	7956468 Fire Extinguisher, Type ABC, up to 20 LB, Replace		10	2	8	28	EA	\$150.00	\$4,200											\$4,200			
D5020	N/A	7956491 Secondary Transformer, Dry, Stepdown, Replace		30	23	7	1	EA	\$10,000.00	\$10,000											\$10,000			
D5020	B118M	7956498 Secondary Transformer, Dry, Stepdown, Replace		30	23	7	1	EA	\$10,000.00	\$10,000											\$10,000			
D5020	B116M	7956473 Secondary Transformer, Dry, Stepdown, Replace		30	23	7	1	EA	\$10,000.00	\$10,000											\$10,000			

Replacement Reserves Report

Robert R. Church Elementary

9/30/2024

Uniform Code	Location	Description	Cost	Lifespan (EUL)		EAge	RUL	Quantity	Unit	Unit Cost *	Subtotal	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
D5020	Electrical Room	7956408 Secondary Transformer, Dry, Stepdown, Replace		30	23	7	1	EA	\$16,000.00	\$16,000									\$16,000				
D5020	142M	7956487 Secondary Transformer, Dry, Stepdown, Replace		30	23	7	1	EA	\$10,000.00	\$10,000									\$10,000				
D5020	142M	7956495 Secondary Transformer, Dry, Stepdown, Replace		30	23	7	1	EA	\$10,000.00	\$10,000									\$10,000				
D5020	Electrical Room	7956424 Switchboard, 277/480 V, Replace		40	23	17	1	EA	\$90,000.00	\$90,000													
D5020	Electrical Room	7956432 Distribution Panel, 277/480 V, Replace		30	23	7	1	EA	\$5,300.00	\$5,300									\$5,300				
D5020	Electrical Room	7956456 Distribution Panel, 120/208 V, Replace		30	23	7	2	EA	\$6,000.00	\$12,000									\$12,000				
D5030	Throughout Building	7956417 Electrical System, Wiring & Switches, High Density/Complexity, Replace		40	23	17	81500	SF	\$4.00	\$326,000													
D5030	Boiler Room	7956467 Variable Frequency Drive, VFD, by HP of Motor, Replace/Install		20	17	3	1	EA	\$6,200.00	\$6,200						\$6,200							
D5030	Boiler Room	7956413 Variable Frequency Drive, VFD, by HP of Motor, Replace/Install		20	17	3	1	EA	\$6,200.00	\$6,200					\$6,200								
D5030	Boiler Room	7956459 Variable Frequency Drive, VFD, by HP of Motor, Replace/Install		20	17	3	1	EA	\$6,200.00	\$6,200					\$6,200								
D5030	Boiler Room	7956414 Variable Frequency Drive, VFD, by HP of Motor, Replace/Install		20	17	3	1	EA	\$6,200.00	\$6,200					\$6,200								
D5040	Building Exterior	7956485 Exterior Fixture w/ Lamp, any type, w/ LED Replacement, Replace		20	17	3	22	EA	\$600.00	\$13,200					\$13,200								
D5040	Building Exterior	7956416 Exterior Fixture w/ Lamp, any type, w/ LED Replacement, Replace		20	14	6	12	EA	\$600.00	\$7,200									\$7,200				
D7030	Throughout Building	7956429 Security/Surveillance System, Full System Upgrade, Average Density, Replace		15	8	7	81500	SF	\$2.00	\$163,000										\$163,000			
D7050	Main Office	7956483 Fire Alarm Panel, Fully Addressable, Replace		15	9	6	1	EA	\$15,000.00	\$15,000									\$15,000				
E1030	Kitchen	7956457 Foodservice Equipment, Walk-In, Freezer, Replace		20	18	2	1	EA	\$25,000.00	\$25,000				\$25,000									
E1030	Kitchen	7956454 Foodservice Equipment, Walk-In, Refrigerator, Replace		20	17	3	1	EA	\$15,000.00	\$15,000				\$15,000									
E1030	Kitchen	7956415 Foodservice Equipment, Exhaust Hood, 8 to 10 LF, Replace		15	10	5	1	EA	\$4,500.00	\$4,500									\$4,500				
E1030	Kitchen	7956419 Commercial Kitchen Line, Dishwashing Equipment, Replace		20	15	5	15	LF	\$3,000.00	\$45,000									\$45,000				
E1030	Kitchen	7956449 Commercial Kitchen Line, Cooking Equipment, Replace		20	15	5	15	LF	\$2,000.00	\$30,000									\$30,000				
E1030	Kitchen	7956445 Commercial Kitchen Line, Preparation Tables/Areas, Replace		20	15	5	24	LF	\$300.00	\$7,200									\$7,200				
E1030	Kitchen	7956440 Sink/Lavatory, Commercial Kitchen, 3-Bowl, Replace		30	23	7	2	EA	\$2,500.00	\$5,000										\$5,000			
G2020	Site	7956425 Parking Lots, Pavement, Asphalt, Seal & Stripe		5	4	1	80000	SF	\$0.45	\$36,000			\$36,000						\$36,000			\$36,000	
G2020	Site	7956461 Parking Lots, Pavement, Asphalt, Mill & Overlay		25	23	2	80000	SF	\$3.50	\$280,000			\$280,000										
G2050	Site	7956451 Play Structure, Multipurpose, Large, Replace		20	10	10	1	EA	\$35,000.00	\$35,000													\$35,000
G2060	Site	7956470 Flagpole, Metal, Replace		30	23	7	1	EA	\$2,500.00	\$2,500									\$2,500				
G4050	Site	7956464 Site Walkway Fixture, Bollard Style, Concrete-Based, Replace/Install		20	17	3	4	EA	\$1,500.00	\$6,000				\$6,000									
G4050	Site	7956420 Pole Light Fixture w/ Lamps, any type 30' High, w/ LED Replacement, Replace/Install		20	12	8	9	EA	\$7,000.00	\$63,000									\$63,000				
Totals, Unescalated												\$0	\$307,250	\$479,655	\$635,320	\$0	\$128,700	\$395,825	\$1,539,200	\$67,200	\$7,100	\$81,000	\$36,000
Totals, Escalated (3.0% inflation, compounded annually)												\$0	\$316,468	\$508,866	\$694,231	\$0	\$149,199	\$472,636	\$1,893,022	\$85,127	\$9,264	\$108,857	\$49,832

Appendix G: **Equipment Inventory List**

D20 Plumbing

Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Yr	Barcode	Qty
1	7956490	D2010	Water Heater	Gas, Commercial (600 MBH)	250 GAL	Robert R. Church Elementary	Boiler Room	Ventura	72 V 250	0800101940	2001		
2	7956488	D2010	Backflow Preventer	Domestic Water	3 IN	Robert R. Church Elementary	Boiler Room	Watts	909	161816	2001		
3	7956412	D2010	Backflow Preventer	Domestic Water	3 IN	Robert R. Church Elementary	Boiler Room	Watts	909	161819	2001		

D30 HVAC

Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Yr	Barcode	Qty
1	7956496	D3020	Boiler	Gas, HVAC	3000 MBH	Robert R. Church Elementary	Boiler Room	Bryan Boilers	RV300-W-FDG	85907	2001		
2	7956426	D3020	Unit Heater	Hydronic	245 MBH	Robert R. Church Elementary	Boiler Room	AIRTHERM	VR-245	9244106	2001		
3	7956422	D3030	Chiller	Air-Cooled	208 TON	Robert R. Church Elementary	Building Exterior	Daikin Industries	AGZ226ETSEMNN00	STNU190700046	2019		
4	7956441	D3030	Split System	Condensing Unit/Heat Pump	1.5 TON	Robert R. Church Elementary	Roof	Lennox	EL16XC1-018-230A01	5819F06712	2019		
5	7956458	D3030	Split System	Condensing Unit/Heat Pump	1.5 TON	Robert R. Church Elementary	Roof	Lennox	EL16XC1-018-230A01	5819F06714	2019		
6	7956502	D3030	Split System	Condensing Unit/Heat Pump	3 TON	Robert R. Church Elementary	Roof	Lennox	SSB036H4S44Y	5816E13839	2016		
7	7956418	D3030	Split System	Condensing Unit/Heat Pump	3 TON	Robert R. Church Elementary	Roof	Lennox	EL16XC1SO36230B03	5819D10339	2019		
8	7956453	D3030	Split System	Condensing Unit/Heat Pump	2 TON	Robert R. Church Elementary	Roof	Lennox	EL16XC1-024-230A01	15819E23393	2019		
9	7956455	D3030	Split System	Condensing Unit/Heat Pump	3 TON	Robert R. Church Elementary	Roof	Lennox	SSB036H4S44Y	5816E13850	2016		
10	7956472	D3030	Split System	Condensing Unit/Heat Pump	1.5 TON	Robert R. Church Elementary	Roof	Lennox	EL16XC1-018-230A01	5819F06709	2019		
11	7956433	D3030	Split System	Condensing Unit/Heat Pump	1.5 TON	Robert R. Church Elementary	Roof	Lennox	EL16XC1-018-230A01	5819F06717	2019		
12	7956447	D3030	Split System	Condensing Unit/Heat Pump	3 TON	Robert R. Church Elementary	Roof	Lennox	EL16XC1S036-230B03	5819D10537	2019		
13	7956499	D3030	Split System	Condensing Unit/Heat Pump	3 TON	Robert R. Church Elementary	Roof	Lennox	SSB060H4S44Y	5818J07007	2018		
14	7956492	D3030	Split System	Condensing Unit/Heat Pump	1.5 TON	Robert R. Church Elementary	Roof	Lennox	EL16XC1-018-230A01	5819F06716	2019		
15	7956494	D3030	Split System	Condensing Unit/Heat Pump	1.5 TON	Robert R. Church Elementary	Roof	Lennox	EL16XC1-018-230A01	5819F06719	2019		
16	7956469	D3030	Split System	Condensing Unit/Heat Pump	3 TON	Robert R. Church Elementary	Roof	Lennox	EL16XC1S036-230B03	5819D10536	2019		
17	7956430	D3030	Split System	Condensing Unit/Heat Pump	3 TON	Robert R. Church Elementary	Roof	Lennox	SSB036H4S44Y	5816E13840	2016		

18	7956410	D3050	Pump	Distribution, HVAC Chilled or Condenser Water	7.5 HP	Robert R. Church Elementary	Boiler Room	Bell & Gossett	1510	2229656	2001
19	7956421	D3050	Pump	Distribution, HVAC Chilled or Condenser Water	5 HP	Robert R. Church Elementary	Boiler Room	Bell & Gossett	AD77A	No dataplate	2001
20	7956443	D3050	Pump	Distribution, HVAC Chilled or Condenser Water	5 HP	Robert R. Church Elementary	Boiler Room	Bell & Gossett	1510	2227150	2001
21	7956439	D3050	Pump	Distribution, HVAC Heating Water	7.5 HP	Robert R. Church Elementary	Boiler Room	Bell & Gossett	1510	2229655	2001
22	7956480	D3050	Pump	Distribution, HVAC Heating Water	7.5 HP	Robert R. Church Elementary	Boiler Room	Bell & Gossett	AD79A	2227	2001
23	7956486	D3050	Air Handler	Exterior AHU	4000 CFM	Robert R. Church Elementary	Roof	York	CP 24 FC 7.5.0 460	ALJM 008756	2001
24	7956489	D3050	Air Handler	Exterior AHU	8000 CFM	Robert R. Church Elementary	Roof	York	CP 44 FC 7.5.0 460	ALJM 008760	2001
25	7956471	D3050	Air Handler	Exterior AHU	6000 CFM	Robert R. Church Elementary	Roof	York	CP 43 FC 5.0 460	ALJM 008759	2001
26	7956475	D3050	Air Handler	Exterior AHU	4000 CFM	Robert R. Church Elementary	Roof	York	CP 24 DWDI AF 3.0 460	ALJM 008757 2	2001
27	7956465	D3050	Air Handler	Interior AHU, Easy/Moderate Access	4000 CFM	Robert R. Church Elementary	Roof	York	CP 24 FC 5.0 460	ALJM 008758	2001
28	7956482	D3050	Fan Coil Unit	Hydronic Terminal	2400 CFM	Robert R. Church Elementary	Restrooms	Inaccessible	Inaccessible	Inaccessible	2001
29	7956437	D3050	Make-Up Air Unit	MUA or MAU	2000 CFM	Robert R. Church Elementary	Roof	CaptiveAire Systems CNU165RG		128844-1	2001
30	7956462	D3050	Packaged Unit	RTU, Pad or Roof-Mounted	10 TON	Robert R. Church Elementary	Roof	York	ZJ120N18R4A1AAA1A3	N2M3979987	2023
31	7956460	D3060	Supplemental Components	Air Curtain, 5' Wide Non-Heated		Robert R. Church Elementary	Kitchen	Mars Air Systems	36CH-0	0105PF36CH-L (F3)	2001
32	7956484	D3060	Supplemental Components	Air Curtain, 5' Wide Non-Heated		Robert R. Church Elementary	Kitchen	Mars Air Systems	36CH-0	0010PF36CH-L (F3)	2001

D40 Fire Protection													
Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Datplate Yr	Barcode	Qty
1	7956468	D4030	Fire Extinguisher	Type ABC, up to 20 LB		Robert R. Church Elementary	Throughout Building						28

D50 Electrical													
Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Datplate Yr	Barcode	Qty
1	7956491	D5020	Secondary Transformer	Dry, Stepdown	75 KVA	Robert R. Church Elementary	N/A	Siemens	3F3Y075K13B				2001
2	7956473	D5020	Secondary Transformer	Dry, Stepdown	75 KVA	Robert R. Church Elementary	B116M	Siemens	3F3Y075K13B	No dataplate			2001
3	7956408	D5020	Secondary Transformer	Dry, Stepdown	112.5 KVA	Robert R. Church Elementary	Electrical Room	Siemens	3F3Y112K13B	No dataplate			2001

4	7956487	D5020	Secondary Transformer	Dry, Stepdown	75 KVA	Robert R. Church Elementary	142M	Siemens	3F3Y075K13B	No dataplate	2001
5	7956495	D5020	Secondary Transformer	Dry, Stepdown	75 KVA	Robert R. Church Elementary	142M	Siemens	3F3Y075K13B	No dataplate	2001
6	7956498	D5020	Secondary Transformer	Dry, Stepdown	75 KVA	Robert R. Church Elementary	B118M	Siemens	3F3Y075K13B	No dataplate	2001
7	7956424	D5020	Switchboard	277/480 V	2000 AMP	Robert R. Church Elementary	Electrical Room	Siemens	SB3	17-49924-G00010	2001
8	7956456	D5020	Distribution Panel	120/208 V	400 AMP	Robert R. Church Elementary	Electrical Room	Siemens	S3C42JX400ABS	79-49924-D00	2001
9	7956432	D5020	Distribution Panel	277/480 V	400 AMP	Robert R. Church Elementary	Electrical Room	Siemens	SAF75ML400FBS	17-49924-A00	2001
10	7956459	D5030	Variable Frequency Drive	VFD, by HP of Motor	7.5 HP	Robert R. Church Elementary	Boiler Room	RAM	Illegible	Illegible	2001
11	7956414	D5030	Variable Frequency Drive	VFD, by HP of Motor	7.5 HP	Robert R. Church Elementary	Boiler Room	RAM	Illegible	Illegible	2001
12	7956467	D5030	Variable Frequency Drive	VFD, by HP of Motor	7.5 HP	Robert R. Church Elementary	Boiler Room	RAM	Illegible	Illegible	2001
13	7956413	D5030	Variable Frequency Drive	VFD, by HP of Motor	7.5 HP	Robert R. Church Elementary	Boiler Room	RAM	Illegible	KTR 139	2001

D70 Electronic Safety & Security

Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Datplate Yr	Barcode	Qty
1	7956483	D7050	Fire Alarm Panel	Fully Addressable		Robert R. Church Elementary	Main Office	Edwards Systems Technology	EST2	No dataplate	2001		

E10 Equipment

Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Datplate Yr	Barcode	Qty
1	7956415	E1030	Foodservice Equipment	Exhaust Hood, 8 to 10 LF		Robert R. Church Elementary	Kitchen				2001		
2	7956457	E1030	Foodservice Equipment	Walk-In, Freezer		Robert R. Church Elementary	Kitchen				2001		
3	7956454	E1030	Foodservice Equipment	Walk-In, Refrigerator		Robert R. Church Elementary	Kitchen				2001		
4	7956440	E1030	Sink/Lavatory	Commercial Kitchen, 3-Bowl		Robert R. Church Elementary	Kitchen				2001		2