FACILITY CONDITION ASSESSMENT



prepared for

Richmond Public Schools 301 North Ninth Street Richmond, VA 23219



PREPARED BY: Bureau Veritas 6021 University Boulevard, Suite 200 Ellicott City, MD 21043 800.733.0660 www.us.bureauveritas.com

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BV PROJECT #: 165364.23R000-013.468

DATE OF REPORT: June 11, 2024

ON SITE DATE: *April 1-2, 2024*

Cardinal Elementary School 1745 Catalina Drive Richmond, VA 23224

Bureau Veritas

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1. Executive Summary

Campus Overview and Assessment Details

General Information	
Property Type	Elementary School
Number of Buildings	1
Main Address	1745 Catalina Drive, Richmond, VA 23224
Site Developed	2020
Outside Occupants / Leased Spaces	None
Date(s) of Visit	April 1-2, 2024
Management Point of Contact	Daniel Alu Project Engineer 800 Yard Street, Suite 115 Columbus, Ohio 43212 Mobile: 614.949.1355 <u>daniel.alu@gofmx.com</u>
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: <u>Rhathawa@rvaschools.net</u>
Assessment & Report Prepared By	Soulihe Nida
Reviewed By	Daniel White Technical Report Reviewer for Bill Champion Program Manager <u>Bill.Champion@bureauveritas.com</u> 800. 733.0660 x7296234
AssetCalc Link	Full dataset for this assessment can be found at: <u>https://www.assetcalc.net/</u>



Significant/Systemic Findings and Deficiencies

Historical Summary

Cardinal Elementary School was constructed in 2020. The building is new and has no significant historical background.

Architectural

The school's architecture and façade are from original construction and consists of brick, CMU and curtain wall systems. The structure shows limited evidence of excessive settlement. The windows are aluminum, and the exterior doors consist of aluminum and steel. The roofing consists of a sloped metal finish and single-ply TPO membrane. Evidence of roof leaks was not reported or observed during the on-site visit. The interior finishes are all original and maintained in good condition. Typical lifecycle based interior and exterior finish replacements are anticipated and budgeted for the reserve term.

Mechanical, Electrical, Plumbing and Fire (MEPF)

The HVAC system consists of a central system of boilers and chillers system feeding air handlers and terminal units throughout the building. The roof top packaged units serve select spaces. All HVAC components are original and operate as part of building automation system. According to property management there were two recent failures with heat exchangers. One heat exchanger replacement is in progress and the other is pending. Electrical system consists of a switchboard, transformers, and distribution panels with a backup generator for emergency power. There is one hydraulic passenger elevator that serves both floors. Typical commercial plumbing fixtures are utilized in the restrooms. Electric water heaters with storage tanks supply the domestic hot water. Plumbing leaks and water pressure problems were not observed or reported. Fire suppression consists of a sprinkler system that serves the entire building. The fire alarm control panel along with exit lights, emergency lighting, alarms, and fire extinguishers protect the entirety of the facility.

Site

Overall, the site is well maintained with moderate landscaping features and irrigation is not present. There are building mounted and pole mounted lighting that appears to be adequate. Asphalt parking lot serves the facility found to be in good condition. The play areas have a several play structures, asphalt sports surfaces and open playfields.

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 Cardinal Elementary School / Main Building(2020)						
Replacement Value \$ 46,598,800	Total SF 116,497	Cost/SF \$ 400				
	E	st Reserve Cost	FCI			
Current		\$ 40,000	0.1 %			
3-Year		\$ 40,000	0.1 %			
5-Year		\$ 40,000	0.1 %			
10-Year		\$ 619,300	1.3 %			



Immediate Needs

Facility/Building	Total Items	Total Cost
Cardinal Elementary School / Main Building	2	\$40,000
Total	2	\$40,000

Main Building

<u>ID</u>	Location	<u>Location</u> <u>Description</u>	<u>UF</u> <u>Code</u>	<u>Description</u>	<u>Condition</u>	<u>Plan Type</u>	<u>Cost</u>
7662388	Cardinal Elementary School / Main Building	Boiler Room	D3020	Heat Exchanger, HVAC, Boiler #2, Replace	Failed	Performance/Integrity	\$20,000
7662387	Cardinal Elementary School / Main Building	Boiler Room	D3020	Heat Exchanger, HVAC, Boiler #1, Replace	Failed	Performance/Integrity	\$20,000
Total (2 items	;)						\$40,000



Key Findings

FCI Analysis Cardinal Elementary School / Main Building(2020)						
Replacement Value \$ 46,598,800	Total SF 116,497	Cost/SF \$ 400				
	Est	Reserve Cost	FCI			
Current		\$ 40,000	0.1 %			
3-Year		\$ 40,000	0.1 %			
5-Year		\$ 40,000	0.1 %			
10-Year		\$ 619,300	1.3 %			



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)

	5.8%	•	Performance/Integrity \$40,000 Lifecycle/Renewal \$644,600
94.2%	0		

10-YEAR TOTAL: \$684,600



2. Main Building





Main Building: Systems	s Summary	
Address	1745 Catalina Drive; Richmond, VA 23224	
Constructed/Renovated	2020	
Building Area	116,497 SF	
Number of Stories	2 above grade	
System	Description	Condition
Structure	Steel frame and masonry bearing walls with concrete-topped metal decks over concrete slab foundation	Good
Façade	Primary Wall Finish: Brick Secondary Wall Finish: Curtain wall Windows: Aluminum	Good
Roof	Primary: Hip construction with asphalt shingles and Metal finish Secondary: Flat construction with TPO membrane	Good
Interiors	Walls: Painted gypsum board & CMU Floors: Carpet, VCT, ceramic tile, quarry tile, wood strip Ceilings: Painted gypsum board, ACT	Good
Elevators	Passenger: One hydraulic car serving all floors	Good
Plumbing	Distribution: Copper supply and PVC waste & venting Hot Water: Electric domestic boilers with storage tanks Fixtures: Toilets, urinals, and sinks in restrooms	Good



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

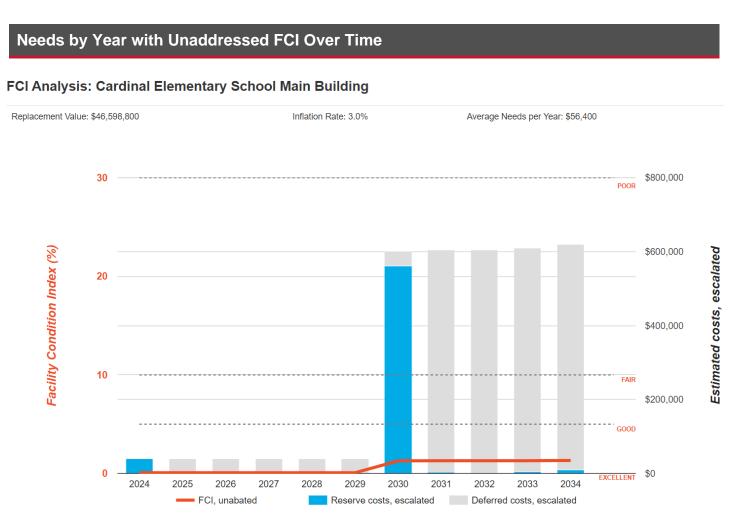


The table below shows the anticipated costs by trade or building system over the next 20 years.

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	-	-	-	-	-	-
Roofing	-	-	-	-	\$400,100	\$400,100
Interiors	-	-	-	\$482,700	\$1,309,000	\$1,791,700
Conveying	-	-	-	-	\$20,500	\$20,500
Plumbing	-	-	-	-	\$323,700	\$323,700
HVAC	\$40,000	-	-	-	\$770,600	\$810,600
Fire Protection	-	-	-	-	\$247,600	\$247,600
Electrical	-	-	-	-	\$897,400	\$897,400
Fire Alarm & Electronic Systems	-	-	-	-	\$2,005,200	\$2,005,200
Equipment & Furnishings	-	-	-	\$96,600	\$670,100	\$766,700
Site Utilities	-	-	-	-	\$1,000	\$1,000
TOTALS (3% inflation)	\$40,000	-	-	\$579,300	\$6,645,100	\$7,264,400



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.





Cardinal Elementary School: Photographic Overview



1 - FRONT ELEVATION



2 - LEFT ELEVATION



3 - REAR ELEVATION



4 - RIGHT ELEVATION



5 - ROOFS OVERVIEW



6 - BUILDING FACADE





7 - MAIN ENTRANCE



8 - CORRIDORS



9 - TYPICAL CLASSROOM



10 - OPEN CLASSROOM



11 - LIBRARY



12 - GYMNASIUM

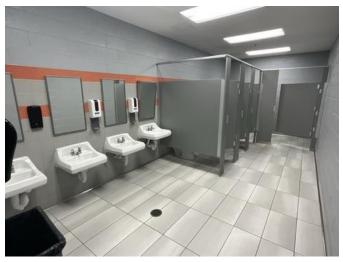




13 - CAFETARIA



14 - KICTHEN



15 - DOMESTIC HOT WATER SUPPLY



16 - HOT WATER SUPPLY



17 - BOILERS



18 - CHILLERS





19 - ROOF TOP UNITS



20 - ELEVATOR



21 - FIRE SUPPRESSION SYSTEM



22 - MAIN ELECTRICAL SWITCHBOARD



23 - EMERGENCY GENERATOR



24 - FIRE ALARM PANEL



3. Site Summary





Site Information		
Site Area	14.2 acres (estimated)	
Parking Spaces	163 total spaces all in open lots; 10 of which are accessible	
System	Description	Condition
Pavement/Flatwork	Asphalt lots with limited areas of concrete aprons and pavement and adjacent concrete sidewalks and curbs	Excellent
Site Development	Property entrance signage; chain link and wood board fencing Brick and CMU dumpster enclosures Sports fields and courts with fencing and site lights	Good
Landscaping and Topography	Significant landscaping features including lawns, trees, bushes, and planters Irrigation not present Low to moderate site slopes throughout	Good
Utilities	Municipal water and sewer Local utility-provided electric and natural gas	Good
Site Lighting	Pole-mounted: LED	Excellent
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 Development	-	-	-	-	\$73,200	\$73,200			
Site Pavement	-	-	\$30,200	\$35,100	\$87,700	\$153,000			
Site Utilities	-	-	-	-	\$188,100	\$188,100			
TOTALS (3% inflation)	-	-	\$30,200	\$35,100	\$349,100	\$414,400			



Site: Photographic Overview



1 - SITE OVERVIEW



2 - SITE PARKING OVERVIEW



3 - SITE WALKWAYS



4 - SITE PLAY AREA



5 - SITE LIGHTING



6 - PROPERTY 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



The following table summarizes the accessibility conditions of the general site and each significant building included in this report:

Accessibility Summary			
Facility	Year Built/ Renovated	Prior Study Provided?	Major/Moderate Issues Observed?
General Site	2020	No	No
Building 1	2020	No	No

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 Cardinal Elementary School, 1745 Catalina Drive, Richmond, VA 23224, 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: Site Plan(s)
- Appendix B: Pre-Survey Questionnaire(s)
- Appendix C: Accessibility Review and Photos
- Appendix D: Component Condition Report
- Appendix E: Replacement Reserves
- Appendix F: Equipment Inventory List







Site Plan



AUVE	Project Number	Project Name	
	166385.24R000-013.468	Cardinal Elementary School	
1828	Source	On-Site Date	
BUREAU VERITAS	Google	April 1-2, 2024	

Appendix B: Pre-Survey Questionnaire(s)



Bureau Veritas Facility Condition Assessment Pre-Survey Questionnaire

Building / Facility Name:	Cardinal
Name of person completing form:	Ronald Hathaway
Title / Association with property:	Director of Facilities
Length of time associated w/ property:	4
Date Completed:	April 20, 2024
Phone Number:	804-325-0740
Method of Completion:	Electronic

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 / renovated	2020						
2	Building size in SF	116497						
			Year	Additional Detail				
		Façade		Brick				
		Roof		TPO/Metal/ Shingle				
		Interiors		Sheetrock				
3	Major Renovation/Rehabilitation	HVAC		Hot water, chilled water, VAVA boxes and some air handlers on the roof				
		Electrical						
		Site Pavement		Asphalt				
		Accessibility	2007	Satisfied the 2007 lawsuit requirement				
	Question			Response				
4	List other significant capital improvements (focus on recent years; provide approximate date).	None						
5	List any major capital expenditures planned/requested for the next few years. Have they been budgeted?	Noone						
6	Describe any on-going extremely problematic, historically chronic, or immediate facility needs.	Boilers unreliable						

	documentation for any		ponses.	(NA inc		ovide additional details in the Comments column, or backup "Not Applicable", Unk indicates "Unknown")
	Question		Resp	oonse		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			
9	Has any part of the facility ever contained visible suspect mold growth, or have there been any indoor air quality or mold related complaints from occupants?		X			
10	Are your elevators unreliable, with frequent service calls?		X			
11	Are there any plumbing leaks, water pressure, or clogging/back- up problems?		Х			
12	Have there been any leaks or pressure problems with natural gas, HVAC supply/return lines, or steam service?	Х				Heat exchangers failed in 2 boilers
13	Are any areas of the facility inadequately heated, cooled or ventilated? Any poorly insulated areas?		Х			
14	Is the electrical service outdated, undersized, or otherwise problematic?		Х			
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 performed at the site? If so, indicate when.	Х				
19	ADA: If a study has occurred, have the associated recommendations been addressed? In full or in part?	Х				Satisfied the 2007 lawsuit requirement
20	ADA: Have there been regular complaints about accessibility issues, or associated previous or pending litigation?		X			

Appendix C: Accessibility Review and Photos



Visual Checklist - 2010 ADA Standards for Accessible Design

Property Name: Cardinal Elementary School

BV Project Number:

166385.24R000-013.468

	Abbreviated Accessibility Checklist						
	Facility History & Interview						
	Question	Yes	No	Unk	Comments		
1	Has an accessibility study been previously performed? If so, when?			×	2020 construction		
2	Have any ADA improvements been made to the property since original construction? Describe.		×		2020 construction		
3	Has building management reported any accessibility-based complaints or litigation?		×				

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



2ND PATHWAY

	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 ?	
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?	×

Building Entrances



MAIN ENTRANCE

AUTOMATIC DOOR OPENER

	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 ?	×		
8	Do thresholds at accessible entrances appear to have a compliant height ?	×		

Interior Accessible Route



ACCESSIBLE INTERIOR PATH



DOOR HARDWARE

	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 ?	×
8	Do public transaction areas have an accessible, lowered service counter section ?	×
9	Do public telephones appear mounted with an accessible height and location ?	×
10	Do doors at interior accessible routes appear to have compliant maneuvering clearance area on each side ?	×
11	Do doors at interior accessible routes appear to have compliant hardware ?	×
12	Do non-fire hinged, sliding, or folding doors on interior accessible routes appear to have compliant opening force ?	×
13	Do doors on interior accessible routes appear to have a compliant clear opening width ?	×

Elevators



LOBBY LOOKING AT CAB



EMERGENCY CALL PANEL

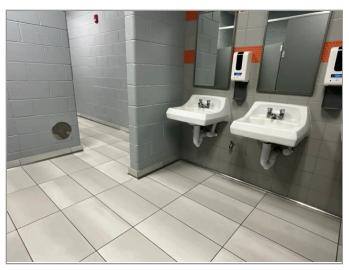
	Question		No	NA	Comments
1	Are hallway call buttons configured with the "UP" button above the "DOWN" button?	×			
2	Is accessible floor identification signage present on the hoistway sidewalls on each level ?	×			
3	Do the elevators have audible and visual arrival indicators at the lobby and hallway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

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 ?	×		

Public Restrooms



TOILET STALL OVERVIEW



SINK, FAUCET HANDLES AND ACCESSORIES

	Question		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 ?	×		
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 ?	×		

Kitchens/Kitchenettes



BREAKROOM OVERVIEW

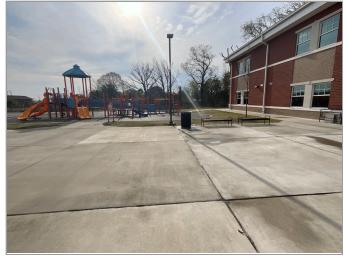


SINK CLEARANCE

	Question		No	NA	Comments
1	Do kitchens/kitchenettes appear to have a minimum compliant path of travel or area of maneuverability ?	×			
2	Are the appliances centered for a parallel or forward approach with adequate clear floor space ?	×			
3	Is there an accessible countertop/preparation space of proper width and height ?	×			
4	Is there an accessible sink space of proper width and height ?	×			
5	Does the sink faucet have compliant handles ?	×			
6	Is the plumbing piping under the sink configured to protect against contact ?	×			

7	Are the cooktop/range controls front-mounted (or in a location that does not require reaching across the burners) ?			×	
---	---	--	--	---	--

Playgrounds & Swimming Pools



ACCESSIBLE ROUTE TO PLAYGROUND



OVERVIEW OF PLAYGROUND

	Question		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 D: Component Condition Report



UF L3 Code Location Condition Asset/Component/Repair Structure A1010 Throughout building Good Foundation System, Concrete or CMU Walls w/ Continuous Footings, 1-2 Story Buil B1080 Good Throughout building Stairs, Metal or Pan-Filled, Interior Facade B2010 Curtain Wall, Aluminum-Framed System **Building Exterior** Good B2010 Exterior Walls, Brick **Building Exterior** Good B2020 Window, Aluminum Double-Glazed, 16-25 SF **Building Exterior** Good **Building Exterior** B2050 Good Exterior Door, Steel, Standard B2050 **Building Exterior** Exterior Door, Steel, Standard Good B2050 **Building Exterior** Good Exterior Door, Aluminum-Framed & Glazed, Standard Swing Roofing B3010 Roof Good Roofing, Asphalt Shingle, 30-Year Premium B3010 Roof Roofing, Single-Ply Membrane, TPO/PVC Good Roofing, Metal B3010 Roof Good Roof Appurtenances, Gutters & Downspouts, Aluminum w/ Fittings B3020 Roof Good B3060 Roof Good Roof Hatch, Metal Interiors Throughout building C1030 Good Interior Door, Wood, Solid-Core C1030 Throughout building Good Door Hardware, School, per Door C1070 Throughout building Good Suspended Ceilings, Acoustical Tile (ACT) Good Toilet Partitions, Plastic/Laminate C1090 Restrooms C2010 Wall Finishes, any surface, Prep & Paint Throughout building Fair C2030 Good Flooring, Ceramic Tile Restrooms C2030 Kitchen Good Flooring, Quarry Tile

	Quantity		RUL	ID
ilding	1,828	LF	71	7491165
	820	SF	46	7491169
	1,300	SF	46	7491167
	39,560	SF	46	7491166
	138		26	7491168
	13		36	7491171
	4		36	7529180
	16		26	7491170
	67,050	SF	26	7491172
	13,700	SF	16	7529145
	1,530	SF	36	7529147
	1,828	LF	16	7529156
	2		26	7491173
	134		36	7491174
	134		27	7491175
	106,500	SF	21	7491182
	23		16	7491179
	224,000	SF	6	7491181
	3,700	SF	36	7491177
	1,900	SF	46	7491176

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
C2030	Throughout building	Good	Flooring, Vinyl Tile (VCT)	91,400 SF	11	7491178
C2030	Classrooms	Fair	Flooring, Carpet, Commercial Standard	9,100 SF	6	7491183
C2050	Corridor	Good	Ceiling Finishes, Gypsum Board/Plaster	4,700 SF	46	7529162
C2050	Corridor	Good	Ceiling Finishes, Wood Paneling	3,100 SF	26	7529177
Conveying						
D1010	Elevator Machine Room	Good	Passenger Elevator, Hydraulic, 2 Floors, 3000 to 4000 LB, Renovate [Car 1]	1	26	7491186
D1010	Elevator	Good	Elevator Cab Finishes, Standard	1	11	7491185
D1010	Elevator Equipment E109	Good	Passenger Elevator, Hydraulic, 2 Floors, 1500 to 2500 LB, Renovate	1	26	7494827
D1010	HC Lift	Good	Vertical Lift, Wheelchair, 5' Rise, Renovate	1	21	7529187
D1010	Elevator Equipment E109	Good	Elevator Controls, Automatic, 1 Car	1	16	7494813
Plumbing						
D2010	Restrooms	Good	Sink/Lavatory, Wall-Hung, Vitreous China	42	26	7491195
D2010	Boiler room	Good	Water Heater, Electric, Commercial (120 kW), 131 to 250 GAL [WH3]	1	16	7491188
D2010	Mechanical room	Good	Pump, Circulation/Booster, Domestic Water, 10 HP [DWBP-1]	1	21	7529184
D2010	Kitchen	Good	Sink/Lavatory, Commercial Kitchen, 3-Bowl	1	26	7491191
D2010	Throughout building	Good	Drinking Fountain, Wall-Mounted, Bi-Level	4	11	7491190
D2010	Mechanical room	Good	Storage Tank, Domestic Water, 251 to 500 GAL	1	26	7491187
D2010	Throughout building	Good	Plumbing System, Supply & Sanitary, Medium Density (excludes fixtures)	116,497 SF	36	7491254
D2010	Restrooms	Good	Toilet, Commercial Water Closet	38	26	7491197
D2010	Mechanical G204	Good	Water Heater, Electric, Commercial (12 kW), 30 to 80 GAL	1	16	7494821
D2010	Kitchen	Fair	Sink/Lavatory, Commercial Kitchen, 2-Bowl	1	26	7491196
D2010	Utility closet	Fair	Sink/Lavatory, Service Sink, Floor	4	31	7491192
D2010	Restrooms	Good	Urinal, Standard	14	26	7491193
D2010	Mechanical room	Good	Storage Tank, Domestic Water, 251 to 500 GAL	1	26	7529181
D2010	Mechanical room	Good	Water Heater, Electric, Commercial (120 kW) [WH2]	1	16	7529198

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
D2010	Kitchen	Good	Sink/Lavatory, Drop-In Style, Stainless Steel	4	26	7529169
D2010	Custodian H202	Good	Water Heater, Indirect, 80 to 120 GAL [WH4]	1	11	7529193
D2010	Utility closet	Good	Backflow Preventer, Domestic Water, 2 IN	1	26	7491189
D2010	Mechanical room	Good	Water Heater, Electric, Commercial (120 kW), 131 to 250 GAL [WH1]	1	16	7529176
HVAC						
D3020	Mechanical room	Good	Boiler, Gas High-Efficiency Condensing Style, HVAC, 751 to 2000 MBH [B-2]	1	11	7529178
D3020	Boiler Room	Failed	Heat Exchanger, HVAC, Boiler #2	1	0	7662388
D3020	Building entrances	Good	Unit Heater, Electric, 6 to 10 KW	6	16	7529158
D3020	Boiler Room	Failed	Heat Exchanger, HVAC, Boiler #1	1	0	7662387
D3020	Mechanical room	Good	Boiler, Gas High-Efficiency Condensing Style, HVAC, 751 to 2000 MBH [B-3]	1	11	7529155
D3020	Boiler room	Good	Boiler, Gas High-Efficiency Condensing Style, HVAC, 751 to 2000 MBH [B-1]	1	11	7491202
D3030	Chiller Yard	Good	Chiller, Air-Cooled	1	21	7494823
D3030	Building entrances	Good	Split System Ductless, Single Zone, 1.5 to 2 TON	1	11	7529188
D3030	Chiller Yard	Good	Chiller, Air-Cooled	1	21	7494822
D3030	Roof	Good	Split System Ductless, Single Zone, 1.5 to 2 TON	1	11	7491206
D3030	Building entrances	Good	Split System Ductless, Single Zone, 1.5 to 2 TON	1	11	7529150
D3050	Building entrances	Good	Pump, Distribution, HVAC Chilled or Condenser Water, 26 to 50 HP [P-1]	1	21	7529191
D3050	Building entrances	Good	Pump, Distribution, HVAC Heating Water, 8 to 10 HP	1	15	7491207
D3050	Roof	Good	Packaged Unit, RTU, Pad or Roof-Mounted, 8 to 10 TON	1	16	7491209
D3050	Throughout building	Good	Variable Air Volume Unit, VAV Box, 100 to 400 CFM	28	20	7641502
D3050	Roof	Good	Make-Up Air Unit, MUA or MAU, 2000 to 6000 CFM	1	16	7529179
D3050	Building entrances	Good	Pump, Distribution, HVAC Chilled or Condenser Water, 26 to 50 HP [P-2]	1	21	7529173
D3050	Mechanical G204	Good	Air Handler, Interior AHU, Easy/Moderate Access, 2401 to 4000 CFM [AHU 1]	1	21	7494817
D3050	Building entrances	Good	Pump, Distribution, HVAC Heating Water, 8 to 10 HP [P-3]	1	15	7529190
D3060	Roof	Good	Exhaust Fan, Roof or Wall-Mounted, 42" Damper, 15001 to 20000 CFM [KEF-1]	1	15	7491215

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
D3060	Roof	Good	Exhaust Fan, Roof or Wall-Mounted, 16" Damper, 1001 to 2000 CFM [EF-39]	1	16	7529189
D3060	Roof	Good	Exhaust Fan, Roof or Wall-Mounted, 16" Damper, 1001 to 2000 CFM [EF-37]	1	16	7491214
D3060	Roof	Good	Exhaust Fan, Roof or Wall-Mounted, 16" Damper, 1001 to 2000 CFM [EF-6]	1	16	7529167
Fire Protection	n					
D4010	Fire Pump Room	Good	Pump, Fire Suppression, 10 HP	1	21	7494815
D4010	Fire Pump Room	Good	Supplemental Components, Fire Jockey Pump, 0.5 HP	1	16	7494830
D4010	Fire Pump Room	Good	Supplemental Components, Fire Pump Controller	1	15	7494811
D4010	Throughout building	Good	Fire Suppression System, Existing Sprinkler Heads, by SF	116,497 SF	19	7491258
Electrical						
D5010	Chiller Yard	Good	Generator, Diesel, 130 to 300 KW	1	21	7491217
D5010	B104 Electrical	Good	Automatic Transfer Switch, ATS, 225 AMP [ATS-1]	1	21	7494829
D5010	B104 Electrical	Good	Automatic Transfer Switch, ATS, 600 AMP [ATS-2]	1	21	7494819
D5020	Electrical room E110	Fair	Secondary Transformer, Dry, Stepdown, 45 KVA [TC]	1	26	7494836
D5020	B104 Electrical	Good	Secondary Transformer, Dry, Stepdown, 75 KVA [TBS]	1	26	7494834
D5020	Mechanical G204	Good	Distribution Panel, 277/480 V, 400 AMP [HG]	1	26	7494812
D5020	B104 Electrical	Good	Switchboard, 277/480 V, 3000 AMP	1	36	7494826
D5020	B104 Electrical	Good	Distribution Panel, 120/208 V, 600 AMP [ELA]	1	26	7494810
D5020	B104 Electrical	Good	Secondary Transformer, Dry, Stepdown, 45 KVA [ETA]	1	26	7494835
D5020	Mechanical G204	Good	Secondary Transformer, Dry, Stepdown, 45 KVA	1	26	7494824
D5020	Electrical room E110	Good	Secondary Transformer, Dry, Stepdown, 45 KVA [TD1]	1	26	7494816
D5020	B104 Electrical	Good	Distribution Panel, 277/480 V, 400 AMP [HBS]	1	26	7494818
D5020	Electrical room E110	Good	Distribution Panel, 277/480 V, 1200 AMP [DPC]	1	26	7494833
D5020	B104 Electrical	Good	Switchboard, 277/480 V, 1000 AMP [HSS]	1	36	7494814
D5020	B104 Electrical	Good	Distribution Panel, 120/208 V, 400 AMP [EHA]	1	26	7494831
D5020	Electrical room E110	Good	Secondary Transformer, Dry, Stepdown, 45 KVA [TE]	1	26	7494832

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RL	IL ID
D5020	Electrical room E110	Good	Distribution Panel, 120/208 V, 400 AMP [LC1]	1	20	6 7494820
D5020	B104 Electrical	Good	Secondary Transformer, Dry, Stepdown, 112.5 KVA [TKS]	1	2	749482
D5030	Mechanical room	Good	Variable Frequency Drive, VFD, by HP of Motor, 100 HP, Replace/Install	1	10	5 752917
D5030	Throughout building	Good	Electrical System, Wiring & Switches, Average or Low Density/Complexity	116,497 S	F 30	6 749126
D5040	Throughout building	Good	Interior Lighting System, Full Upgrade, Medium Density & Standard Fixtures	116,497 S	F 10	6 7491256
Fire Alarm & E	lectronic Systems					
D6020	Throughout building	Excellent	Low Voltage System, Facility-Wide, Phone & Data Lines	116,497 S	F 19	749125
D6060	Throughout building	Excellent	Intercom/PA System, Public Address Upgrade, Facility-Wide	116,497 S	F 19	749125
D7030	Throughout building	Good	Security/Surveillance System, Full System Upgrade, Average Density	116,497 S	F 14	7491252
D7050	Main Office	Good	Fire Alarm Panel, Fully Addressable	1	1 [,]	7491220
D7050	Throughout building	Good	Fire Alarm System, Full System Upgrade, Standard Addressable, Upgrade/Install	116,497 S	F 10	6 749125
D8010	Boiler room	Good	BAS/HVAC Controls, Basic System or Legacy Upgrades, Upgrade/Install	116,497 S	F 1	3 749126
Equipment & F	Furnishings					
E1030	Kitchen	Good	Foodservice Equipment, Steamer, Tabletop	1	6	7529164
E1030	Kitchen	Good	Foodservice Equipment, Walk-In, Freezer	1	10	6 752915
E1030	Kitchen	Good	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich	1	1 [,]	752917
E1030	Kitchen	Good	Foodservice Equipment, Icemaker, Freestanding	1	1 [.]	7529170
E1030	Kitchen	Good	Foodservice Equipment, Convection Oven, Single [G]	1	6	7529160
E1030	Kitchen	Good	Foodservice Equipment, Dairy Cooler/Wells [8]	1	1 [.]	7491222
E1030	Kitchen	Good	Foodservice Equipment, Steam Kettle	1	10	6 7491230
E1030	Kitchen	Good	Foodservice Equipment, Convection Oven, Single [F]	1	6	752918
E1030	Kitchen	Good	Foodservice Equipment, Convection Oven, Single [A]	1	6	752918
E1030	Kitchen	Good	Foodservice Equipment, Exhaust Hood, 8 to 10 LF	2	1 [,]	7529174
E1030	Kitchen	Good	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich	1	1 [.]	752916
E1030	Kitchen	Good	Foodservice Equipment, Dairy Cooler/Wells [4]	1	1 [,]	7529168

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
E1030	Kitchen	Good	Foodservice Equipment, Garbage Disposal, 1 to 3 HP	1	9	7529194
E1030	Kitchen	Good	Foodservice Equipment, Convection Oven, Single [B]	1	6	7529149
E1030	Kitchen	Good	Foodservice Equipment, Convection Oven, Single [D]	1	6	7491227
E1030	Kitchen	Good	Foodservice Equipment, Exhaust Hood, 8 to 10 LF	2	13	7491229
E1030	Kitchen	Good	Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels [J]	1	11	7491233
E1030	Kitchen	Good	Foodservice Equipment, Walk-In, Refrigerator	1	16	7529172
E1030	Kitchen	Good	Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels [L]	1	11	7529197
E1030	Kitchen	Good	Foodservice Equipment, Dairy Cooler/Wells [6]	1	11	7529148
E1030	Kitchen	Good	Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels [K]	1	11	7529192
E1030	Kitchen	Good	Foodservice Equipment, Steamer, Tabletop [8]	1	6	7491224
E1030	Kitchen	Good	Foodservice Equipment, Steamer, Tabletop	1	6	7529152
E1030	Kitchen	Good	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich	1	11	7491232
E1030	Kitchen	Good	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich	1	11	7529166
E1030	Kitchen	Good	Foodservice Equipment, Freezer, 1-Door Reach-In [3]	1	12	7529195
E1030	Kitchen	Good	Foodservice Equipment, Freezer, 1-Door Reach-In [5]	1	11	7529196
E1030	Kitchen	Good	Foodservice Equipment, Convection Oven, Single [E]	1	6	7529154
E1030	Kitchen	Good	Foodservice Equipment, Deep Fryer	1	10	7529165
E1030	Kitchen	Good	Foodservice Equipment, Mixer, Freestanding	1	18	7491231
E1030	Kitchen	Good	Foodservice Equipment, Freezer, 1-Door Reach-In [7]	1	11	7529163
E1030	Kitchen	Good	Foodservice Equipment, Convection Oven, Single [H]	1	6	7529146
E1030	Kitchen	Good	Foodservice Equipment, Convection Oven, Single [I]	1	6	7529182
E1030	Kitchen	Good	Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels [A]	1	11	7491228
E1040	Art Room	Good	Ceramics Equipment, Kiln	1	18	7491234
E1040	Throughout building	Good	Healthcare Equipment, Defibrillator (AED), Cabinet-Mounted	2	7	7491235
E1060	Kitchen	Good	Residential Appliances, Washer	1	11	7529186

UF L3 Code	Location	Condition	Asset/Component/Repair
E1060	Kitchen	Good	Residential Appliances, Washer
E2010	Throughout building	Good	Casework, Countertop, Plastic Laminate
E2010	Throughout building	Good	Casework, Cabinetry, Economy
Sitework			
G4050	Building exterior	Good	Exterior Fixture w/ Lamp, any type, w/ LED Replacement, 250 W

UF L3 Code	Location	C	ondition	Asset/Component/Repair	Quantity	RUL	ID
				· · ·	4		
E1060	Kitchen		Good	Residential Appliances, Washer	I	11	7529159
E2010	Throughout buildin	ng G	Good	Casework, Countertop, Plastic Laminate	880 LF	12	7491236
E2010	Throughout buildin	ng G	Good	Casework, Cabinetry, Economy	880 LF	17	7491237
Sitework							
G4050	Building exterior	G	bood	Exterior Fixture w/ Lamp, any type, w/ LED Replacement, 250 W	1	16	7529151
Component	Condition Report	Cardinal	Elementa	ry School / Site			
UF L3 Code	Location	Conditio	n Asset/	/Component/Repair	Quantity	RUL	ID
Pedestrian Pla	azas & Walkways						
G2020	Site	Good	Parking	g Lots, Pavement, Asphalt, Mill & Overlay	59,700 SF	23	7491241
G2020	Site	Good	Parking	g Lots, Pavement, Asphalt, Seal & Stripe	59,700 SF	4	7491240
G2030	Site	Good	Sidewa	Ik, Concrete, Large Areas	1,020 SF	46	7491239
Athletic, Recre	eational & Playfield	Areas					
G2050	Site	Good	Play St	ructure, Multipurpose, Large	1	16	7491246
G2050	Site	Good	Playfiel	d Surfaces, Chips Rubber, 3" Depth	2,440 SF	11	7491247
Sitework							
G2060	Site	Good	Signage	e, Property, Monument, Replace/Install	1	19	7491248
G2060	Site	Good	Dumps	ter Enclosure, Masonry (CMU) Walls, 8' High (per LF), Replace/Install	66 LF	36	7491251
G2060	Site	Good	Fences	& Gates, Fence, Chain Link 6'	1,160 LF	36	7529153
G4050	Building Exterior	Good	Exterio	r Fixture w/ Lamp, any type, w/ LED Replacement, 250 W	22	16	7491250
G4050	Site	Good	Pole Li	ght Fixture w/ Lamps, any type 20' High, w/ LED Replacement, 400 W, Replace/Install	26	16	7491249

Appendix E: Replacement Reserves



6/11/2024

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
Cardinal Elementary School	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Cardinal Elementary School / Main Building	\$40,000	\$0	\$0	\$0	\$0	\$0	\$561,264	\$3,690	\$0	\$4,958	\$9,407	\$1,147,530	\$67,153	\$440,916	\$352,424	\$66,058	\$3,192,691	\$259,497	\$29,282	\$862,054	\$227,570	\$7,264,495
Cardinal Elementary School / Site	\$0	\$0	\$0	\$0	\$30,237	\$0	\$0	\$0	\$0	\$35,053	\$0	\$11,821	\$0	\$0	\$40,636	\$0	\$244,236	\$0	\$0	\$52,368	\$0	\$414,351
Grand Total	\$40,000	\$0	\$0	\$0	\$30,237	\$0	\$561,264	\$3,690	\$0	\$40,011	\$9,407	\$1,159,351	\$67,153	\$440,916	\$393,060	\$66,058	\$3,436,927	\$259,497	\$29,282	\$914,422	\$227,570	\$7,678,846

Cardinal Elementary School

Cardinal Elementary School / Main Building

Uniformat Code	Location Description	ID Cost Description	Lifespan (EUL)	EAge	RUL	Quantity	Unit	Unit Cost * Subtotal 2024 202	25 2026 202	27 2028 2029	2030) 2031 2032	2033 203	34 2035	2036	2037 2038	3 2039 2040	2041 2042 2043	2044	Deficiency Repair Estimate
B3010	Roof	7529145 Roofing, Single-Ply Membrane, TPO/PVC, Replace	20	4	16	13700	SF	\$17.00 \$232,900									\$232,900			\$232,900
B3020	Roof	7529156 Roof Appurtenances, Gutters & Downspouts, Aluminum w/ Fittings, Replace	20	4	16	1828	LF	\$9.00 \$16,452									\$16,452			\$16,452
C1090	Restrooms	7491179 Toilet Partitions, Plastic/Laminate, Replace	20	4	16	23	EA	\$750.00 \$17,250									\$17,250			\$17,250
C2010	Throughout building	7491181 Wall Finishes, any surface, Prep & Paint	10	4	6	224000	SF	\$1.50 \$336,000			\$336,000						\$336,000			\$672,000
C2030	Throughout building	7491178 Flooring, Vinyl Tile (VCT), Replace	15	4	11	91400	SF	\$5.00 \$457,000						\$457,000						\$457,000
C2030	Classrooms	7491183 Flooring, Carpet, Commercial Standard, Replace	10	4	6	9100	SF	\$7.50 \$68,250			\$68,250						\$68,250			\$136,500
D1010	Elevator	7491185 Elevator Cab Finishes, Standard, Replace	15	4	11	1	EA	\$9,000.00 \$9,000						\$9,000						\$9,000
D1010	Elevator Equipment E10	9 7494813 Elevator Controls, Automatic, 1 Car, Replace	20	4	16	1	EA	\$5,000.00 \$5,000									\$5,000			\$5,000
D2010	Custodian H202	7529193 Water Heater, Indirect, 80 to 120 GAL, Replace	15	4	11	1	EA	\$4,800.00 \$4,800						\$4,800						\$4,800
D2010	Boiler room	7491188 Water Heater, Electric, Commercial (120 kW), 131 to 250 GAL, Replace	20	4	16	1	EA	\$60,000.00 \$60,000									\$60,000			\$60,000
D2010	Mechanical G204	7494821 Water Heater, Electric, Commercial (12 kW), 30 to 80 GAL, Replace	20	4	16	1	EA	\$12,400.00 \$12,400									\$12,400			\$12,400
D2010	Mechanical room	7529198 Water Heater, Electric, Commercial (120 kW), Replace	20	4	16	1	EA	\$60,000.00 \$60,000									\$60,000			\$60,000
D2010	Mechanical room	7529176 Water Heater, Electric, Commercial (120 kW), 131 to 250 GAL, Replace	20	4	16	1	EA	\$60,000.00 \$60,000									\$60,000			\$60,000
D2010	Throughout building	7491190 Drinking Fountain, Wall-Mounted, Bi-Level, Replace	15	4	11	4	EA	\$1,500.00 \$6,000						\$6,000						\$6,000
D3020	Boiler Room	7662388 Heat Exchanger, HVAC, Boiler #2, Replace	35	35	0	1	EA	\$20,000.00 \$20,000 \$20,000												\$20,000
D3020	Boiler Room	7662387 Heat Exchanger, HVAC, Boiler #1, Replace	35	35	0	1	EA	\$20,000.00 \$20,000 \$20,000												\$20,000
D3020	Mechanical room	7529178 Boiler, Gas High-Efficiency Condensing Style, HVAC, 751 to 2000 MBH, Replace	15	4	11	1	EA	\$87,600.00 \$87,600						\$87,600						\$87,600
D3020	Mechanical room	7529155 Boiler, Gas High-Efficiency Condensing Style, HVAC, 751 to 2000 MBH, Replace	15	4	11	1	EA	\$87,600.00 \$87,600						\$87,600						\$87,600
D3020	Boiler room	7491202 Boiler, Gas High-Efficiency Condensing Style, HVAC, 751 to 2000 MBH, Replace	15	4	11	1	EA	\$87,600.00 \$87,600						\$87,600						\$87,600
D3020	Building entrances	7529158 Unit Heater, Electric, 6 to 10 KW, Replace	20	4	16	6	EA	\$2,200.00 \$13,200									\$13,200			\$13,200
D3030	Building entrances	7529188 Split System Ductless, Single Zone, 1.5 to 2 TON, Replace	15	4	11	1	EA	\$4,800.00 \$4,800						\$4,800						\$4,800
D3030	Roof	7491206 Split System Ductless, Single Zone, 1.5 to 2 TON, Replace	15	4	11	1	EA	\$4,800.00 \$4,800						\$4,800						\$4,800
D3030	Building entrances	7529150 Split System Ductless, Single Zone, 1.5 to 2 TON, Replace	15	4	11	1	EA	\$4,800.00 \$4,800						\$4,800						\$4,800
D3050	Building entrances	7491207 Pump, Distribution, HVAC Heating Water, 8 to 10 HP, Replace	25	10	15	1	EA	\$6,800.00 \$6,800									\$6,800			\$6,800
D3050	Building entrances	7529190 Pump, Distribution, HVAC Heating Water, 8 to 10 HP, Replace	25	10	15	1	EA	\$6,800.00 \$6,800									\$6,800			\$6,800
D3050	Roof	7529179 Make-Up Air Unit, MUA or MAU, 2000 to 6000 CFM, Replace	20	4	16	1	EA	\$35,000.00 \$35,000									\$35,000			\$35,000
D3050	Roof	7491209 Packaged Unit, RTU, Pad or Roof-Mounted, 8 to 10 TON, Replace	20	4	16	1	EA	\$20,000.00 \$20,000									\$20,000			\$20,000
D3050	Throughout building	7641502 Variable Air Volume Unit, VAV Box, 100 to 400 CFM, Replace	25	5	20	28	EA	\$4,500.00 \$126,000											\$126,000	\$126,000
D3060	Roof	7491215 Exhaust Fan, Roof or Wall-Mounted, 42" Damper, 15001 to 20000 CFM, Replace	20	5	15	1	EA	\$11,000.00 \$11,000									\$11,000			\$11,000
D3060	Roof	7529189 Exhaust Fan, Roof or Wall-Mounted, 16" Damper, 1001 to 2000 CFM, Replace	20	4	16	1	EA	\$2,400.00 \$2,400									\$2,400			\$2,400
D3060	Roof	7491214 Exhaust Fan, Roof or Wall-Mounted, 16" Damper, 1001 to 2000 CFM, Replace	20	4	16	1	EA	\$2,400.00 \$2,400									\$2,400			\$2,400
D3060	Roof	7529167 Exhaust Fan, Roof or Wall-Mounted, 16" Damper, 1001 to 2000 CFM, Replace	20	4	16	1	EA	\$2,400.00 \$2,400									\$2,400			\$2,400
D4010	Fire Pump Room	7494811 Supplemental Components, Fire Pump Controller, Replace	20	5	15	1	EA	\$17,800.00 \$17,800									\$17,800			\$17,800
D4010	Fire Pump Room	7494830 Supplemental Components, Fire Jockey Pump, 0.5 HP, Replace	20	4	16	1	EA	\$800.00 \$800									\$800			\$800
D4010	Throughout building	7491258 Fire Suppression System, Existing Sprinkler Heads, by SF, Replace	25	6	19	116497	SF	\$1.07 \$124,652										\$124,652		\$124,652
D5030	Mechanical room	7529171 Variable Frequency Drive, VFD, by HP of Motor, 100 HP, Replace/Install	20	4	16	1	EA	\$35,000.00 \$35,000									\$35,000			\$35,000
D5040	Throughout building	7491256 Interior Lighting System, Full Upgrade, Medium Density & Standard Fixtures, Replace		4	16	116497		\$4.50 \$524,237									\$524,237			\$524,237
D6020	Throughout building	7491257 Low Voltage System, Facility-Wide, Phone & Data Lines, Replace	20	1	19	116497		\$1.50 \$174,746										\$174,746		\$174,746
D6060	Throughout building	7491255 Intercom/PA System, Public Address Upgrade, Facility-Wide, Replace	20	1	19	116497		\$1.65 \$192,220										\$192,220		\$192,220
D7030	Throughout building	7491252 Security/Surveillance System, Full System Upgrade, Average Density, Replace	15	1	14	116497		\$2.00 \$232,994								\$232,994				\$232,994
D7050	Main Office	7491220 Fire Alarm Panel, Fully Addressable, Replace	15	4	11	1		\$15,000.00 \$15,000						\$15,000		,				\$15,000
D7050	Throughout building	7491259 Fire Alarm System, Full System Upgrade, Standard Addressable, Upgrade/Install	20	4	16	116497		\$3.00 \$349,491						,			\$349,491			\$349,491



6/11/2024

Uniformat Code	Location Description	ID Cost Description	Lifespan (EUL)	EAge	RUL	Quantity	Unit	Unit Cost * :	Subtotal 2024	2025 2	2026 2027	2028	2029 2030 203	1 2032 20	33 2034	2035 2036	2037 2038 203	9 2040) 2041 204	2043 2044	Deficiency Repai Estimat
D8010	Boiler room	7491261 BAS/HVAC Controls, Basic System or Legacy Upgrades, Upgrade/Install	15	2	13	116497	SF	\$2.50	\$291,243								\$291,243				\$291,243
E1030	Kitchen	7491227 Foodservice Equipment, Convection Oven, Single, Replace	10	4	6	1	EA	\$5,600.00	\$5,600				\$5,600					\$5,600			\$11,200
E1030	Kitchen	7529164 Foodservice Equipment, Steamer, Tabletop, Replace	10	4	6	1	EA	\$7,000.00	\$7,000				\$7,000					\$7,000			\$14,000
E1030	Kitchen	7529160 Foodservice Equipment, Convection Oven, Single, Replace	10	4	6	1	EA	\$5,600.00	\$5,600				\$5,600					\$5,600			\$11,200
E1030	Kitchen	7529183 Foodservice Equipment, Convection Oven, Single, Replace	10	4	6	1	EA	\$5,600.00	\$5,600				\$5,600					\$5,600			\$11,20
E1030	Kitchen	7529185 Foodservice Equipment, Convection Oven, Single, Replace	10	4	6	1	EA	\$5,600.00	\$5,600				\$5,600					\$5,600			\$11,20
E1030	Kitchen	7529149 Foodservice Equipment, Convection Oven, Single, Replace	10	4	6	1	EA	\$5,600.00	\$5,600				\$5,600					\$5,600			\$11,200
E1030	Kitchen	7491224 Foodservice Equipment, Steamer, Tabletop, Replace	10	4	6	1	EA	\$7,000.00	\$7,000				\$7,000					\$7,000			\$14,000
E1030	Kitchen	7529152 Foodservice Equipment, Steamer, Tabletop, Replace	10	4	6	1	EA	\$7,000.00	\$7,000				\$7,000					\$7,000			\$14,000
E1030	Kitchen	7529154 Foodservice Equipment, Convection Oven, Single, Replace	10	4	6	1	EA	\$5,600.00	\$5,600				\$5,600					\$5,600			\$11,200
E1030	Kitchen	7529146 Foodservice Equipment, Convection Oven, Single, Replace	10	4	6	1	EA	\$5,600.00	\$5,600				\$5,600					\$5,600			\$11,200
E1030	Kitchen	7529182 Foodservice Equipment, Convection Oven, Single, Replace	10	4	6	1	EA	\$5,600.00	\$5,600				\$5,600					\$5,600			\$11,200
E1030	Kitchen	7529194 Foodservice Equipment, Garbage Disposal, 1 to 3 HP, Replace	15	6	9	1	EA	\$3,800.00	\$3,800					\$3,80	00						\$3,800
E1030	Kitchen	7529165 Foodservice Equipment, Deep Fryer, Replace	15	5	10	1	EA	\$7,000.00	\$7,000						\$7,000						\$7,000
E1030	Kitchen	7491233 Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels, Replace	15	4	11	1	EA	\$1,700.00	\$1,700							\$1,700					\$1,700
E1030	Kitchen	7529197 Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels, Replace	15	4	11	1	EA	\$1,700.00	\$1,700							\$1,700					\$1,700
E1030	Kitchen	7529175 Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich, Replace	15	4	11	1	EA	\$4,700.00	\$4,700							\$4,700					\$4,700
E1030	Kitchen	7529170 Foodservice Equipment, Icemaker, Freestanding, Replace	15	4	11	1	EA	\$6,700.00	\$6,700							\$6,700					\$6,700
E1030	Kitchen	7491222 Foodservice Equipment, Dairy Cooler/Wells, Replace	15	4	11	1	EA	\$3,600.00	\$3,600							\$3,600					\$3,600
E1030	Kitchen	7529174 Foodservice Equipment, Exhaust Hood, 8 to 10 LF, Replace	15	4	11	2	EA	\$4,500.00	\$9,000							\$9,000					\$9,000
E1030	Kitchen	7529161 Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich, Replace	15	4	11	1	EA	\$4,700.00	\$4,700							\$4,700					\$4,700
E1030	Kitchen	7529168 Foodservice Equipment, Dairy Cooler/Wells, Replace	15	4	11	1	EA	\$3,600.00	\$3,600							\$3,600					\$3,600
E1030	Kitchen	7529148 Foodservice Equipment, Dairy Cooler/Wells, Replace	15	4	11	1	EA	\$3,600.00	\$3,600							\$3,600					\$3,600
E1030	Kitchen	7529192 Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels, Replace	15	4	11	1	EA	\$1,700.00	\$1,700							\$1,700					\$1,700
E1030	Kitchen	7491232 Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich, Replace	15	4	11	1	EA	\$4,700.00	\$4,700							\$4,700					\$4,700
E1030	Kitchen	7529166 Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich, Replace	15	4	11	1	EA	\$4,700.00	\$4,700							\$4,700					\$4,700
E1030	Kitchen	7529196 Foodservice Equipment, Freezer, 1-Door Reach-In, Replace	15	4	11	1	EA	\$3,100.00	\$3,100							\$3,100					\$3,100
E1030	Kitchen	7529163 Foodservice Equipment, Freezer, 1-Door Reach-In, Replace	15	4	11	1	EA	\$3,100.00	\$3,100							\$3,100					\$3,100
E1030	Kitchen	7491228 Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels, Replace	15	4	11	1	EA	\$1,700.00	\$1,700							\$1,700					\$1,700
E1030	Kitchen	7529195 Foodservice Equipment, Freezer, 1-Door Reach-In, Replace	15	3	12	1	EA	\$3,100.00	\$3,100							\$3,100					\$3,100
E1030	Kitchen	7491229 Foodservice Equipment, Exhaust Hood, 8 to 10 LF, Replace	15	2	13	2	EA	\$4,500.00	\$9,000								\$9,000				\$9,000
E1030	Kitchen	7529172 Foodservice Equipment, Walk-In, Refrigerator, Replace	20	4	16	1	EA	\$15,000.00	\$15,000									\$15,000			\$15,000
E1030	Kitchen	7529157 Foodservice Equipment, Walk-In, Freezer, Replace	20	4	16	1	EA	\$25,000.00	\$25,000									\$25,000			\$25,000
E1030	Kitchen	7491230 Foodservice Equipment, Steam Kettle, Replace	20	4	16	1	EA	\$30,000.00	\$30,000									\$30,000			\$30,000
E1030	Kitchen	7491231 Foodservice Equipment, Mixer, Freestanding, Replace	25	7	18	1	EA	\$14,000.00	\$14,000										\$14,00	0	\$14,000
E1040	Art Room	7491234 Ceramics Equipment, Kiln, Replace	20	2	18	1	EA	\$3,200.00	\$3,200										\$3,20	0	\$3,200
E1040	Throughout building	7491235 Healthcare Equipment, Defibrillator (AED), Cabinet-Mounted, Replace	10	3	7	2	EA	\$1,500.00	\$3,000				\$3,000)					\$3,000		\$6,000
E1060	Kitchen	7529186 Residential Appliances, Washer, Replace	15	4	11	1	EA	\$850.00	\$850							\$850					\$850
E1060	Kitchen	7529159 Residential Appliances, Washer, Replace	15	4	11	1	EA	\$850.00	\$850							\$850					\$850
E2010	Throughout building	7491236 Casework, Countertop, Plastic Laminate, Replace	15	3	12	880	LF	\$50.00	\$44,000							\$44,000					\$44,000
E2010	Throughout building	7491237 Casework, Cabinetry, Economy, Replace	20	3	17	880	LF	\$175.00	\$154,000										\$154,000		\$154,000
G4050	Building exterior	7529151 Exterior Fixture w/ Lamp, any type, w/ LED Replacement, 250 W, Replace	20	4	16	1	EA	\$600.00	\$600									\$600			\$600
Totals, Une	scalated								\$40,000	\$0	\$0 \$0	\$0	\$0 \$470,050 \$3,000	\$0 \$3,80	00 \$7,000	\$829,000 \$47,100	\$300,243 \$232,994 \$42,40	\$1,989,580	\$157,000 \$17,20	0 \$491,617 \$126,000	\$4,756,983
Totals Esca	lated (3.0% inflation, com	npounded annually)							\$40,000	\$0	\$0 \$0	\$0	\$0 \$561,264 \$3,690	\$0 \$4.95	58 \$9.407	\$1,147,530 \$67,153	\$440,916 \$352,424 \$66,05	3 \$3,192,691	\$259,497 \$29,28	2 \$862,054 \$227,570	\$7,264,49

Cardinal Elen	nentary School / Site																									
Uniformat Co	deLocation Descriptio	nID Cost Description	Lifespan (EUL)EAge	RUL	Quantity	yUnit	Unit Cost	t * Sub	total 202	1 20	25 2026 20	27 2028	8 2029 2030	0 2031	2032	2033	2034 2035	2036	2037	2038	2039 2040	2041	2042	2 2043	2044Deficiency Repair Estimate
G2020	Site	7491240 Parking Lots, Pavement, Asphalt, Seal & Stripe	5	1	4	59700	SF	\$0.4	45 \$2	6,865			\$26,865	5		\$2	26,865			\$	26,865				\$26,865	\$107,460
G2050	Site	7491247 Playfield Surfaces, Chips Rubber, 3" Depth, Replace	15	4	11	2440	SF	\$3.5	50 \$	8,540								\$8,540								\$8,540
G2050	Site	7491246 Play Structure, Multipurpose, Large, Replace	20	4	16	1	EA	\$35,000.0	00 \$3	5,000												\$35,000				\$35,000
G2060	Site	7491248 Signage, Property, Monument, Replace/Install	20	1	19	1	EA	\$3,000.0	00 \$	3,000															\$3,000	\$3,000
G4050	Site	7491249 Pole Light Fixture w/ Lamps, any type 20' High, w/ LED Replacement, 400 W, Replace/Insta	II 20	4	16	26	EA	\$4,000.0	00 \$10	4,000												\$104,000				\$104,000



Replacement Report Informat Code Cost Description Cost D

ncy Repair Estimate	2044Deficie	2043	2042	2041	2040	2039	2038	2037	2036
\$13,200					\$13,200				
\$271,200	\$0	\$29,865	\$0	\$0	\$152,200	\$0	\$26,865	\$0	\$0
\$414,351	\$0	\$52,368	\$0	\$0	\$244,236	\$0	\$40,636	\$0	\$0

BUREAU VERITAS

Appendix F: Equipment Inventory List



ndex	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Y	r Barcode	Qty
	7494813	D1010	Elevator Controls	Automatic, 1 Car		Cardinal Elementary School / Main Building	Elevator Equipment E109				2020		
2	7494827	D1010	Passenger Elevator	Hydraulic, 2 Floors, 1500 to 2500 LB	2500 LB	Cardinal Elementary School / Main Building	Elevator Equipment E109				2020		
3	7491186	D1010	Passenger Elevator [Car 1]	Hydraulic, 2 Floors, 3000 to 4000 LB	3000 - 4000 LB	Cardinal Elementary School / Main Building	Elevator Machine Room	Schindler Elevator Corporation	6-370407-40	No dataplate	2020	7436	
4	7529187	D1010	Vertical Lift	Wheelchair, 5' Rise		Cardinal Elementary School / Main Building	HC Lift	Graventa Gensis	82648	NA	2020	7491	
D20 Plu	mbing												
ndex	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Y	r Barcode	Qt
1	7491187	D2010	Storage Tank	Domestic Water, 251 to 500 GAL	251 - 500 GAL	Cardinal Elementary School / Main Building	Mechanical room	Bell & Gossett	424482	No dataplate	2020	7492	
2	7529181	D2010	Storage Tank	Domestic Water, 251 to 500 GAL	500 GAL	Cardinal Elementary School / Main Building	Mechanical room	Bell & Gossett	425935	425935	2020	7497	
3	7529184	D2010	Pump [DWBP-1]	Circulation/Booster, Domestic Water, 10 HP	10 HP	Cardinal Elementary School / Main Building	Mechanical room	QuantumFlo	GR3-AL-TF-184JM-2-B-D-5	1905140056	2020	7645	
4	7494821	D2010	Water Heater	Electric, Commercial (12 kW), 30 to 80 GAL	40 GAL	Cardinal Elementary School / Main Building	Mechanical G204	A.O. Smith	DSE-40A-200	19461170163	2020	5685	
5	7529176	D2010	Water Heater [WH1]	Electric, Commercial (120 kW), 131 to 250 GAL	150 - 250 GAL	Cardinal Elementary School / Main Building	Mechanical room	A. O. Smith	BTH-199A 300	1937116278694	2020	7496	

6	7529198	D2010	Water Heater [WH2]	Electric, Commercial (120 kW)	200 GAL	Cardinal Elementary School / Main Building	Mechanical room	A. O. Smith	BTH-199A 300	183411645538	2020	7495	
7	7491188	D2010	Water Heater [WH3]	Electric, Commercial (120 kW), 131 to 250 GAL	150 - 250 GAL	Cardinal Elementary School / Main Building	Boiler room	A. O. Smith	DSE 80A 200	1946171062254	2020	7489	
8	7529193	D2010	Water Heater [WH4]	Indirect, 80 to 120 GAL	80 - 120 GAL	Cardinal Elementary School / Main Building	Custodian H202	A. O. Smith	DSE 80A 200	1946117106255	2020	7490	
9	7491189	D2010	Backflow Preventer	Domestic Water, 2 IN	2 IN	Cardinal Elementary School / Main Building	Utility closet				2020		
D30 HV/	AC												
Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Yr	Barcode	Qty
1	7491202	D3020	Boiler [B-1]	Gas High-Efficiency Condensing Style, HVAC, 751 to 2000 MBH	2000 MBH	Cardinal Elementary School / Main Building	Boiler room	RBI	CK2000	121984572	2020	7500	
2	7529178	D3020	Boiler [B-2]	Gas High-Efficiency Condensing Style, HVAC, 751 to 2000 MBH	2000 MBH	Cardinal Elementary School / Main Building	Mechanical room	RBI	CK2000	121984543	2020	7498	
3	7529155	D3020	Boiler [B-3]	Gas High-Efficiency Condensing Style, HVAC, 751 to 2000 MBH	2000 MBH	Cardinal Elementary School / Main Building	Mechanical room	RBI	CK2000	121984544	2020	7499	
4	7662387	D3020	Heat Exchanger	HVAC, Boiler #1	Inaccessible	Cardinal Elementary School / Main Building	Boiler Room						
5	7662388	D3020	Heat Exchanger	HVAC, Boiler #2	Inaccessible	Cardinal Elementary School / Main Building	Boiler Room						
6	7529158	D3020	Unit Heater	Electric, 6 to 10 KW	6 - 10 KW	Cardinal Elementary School / Main Building	Building entrances	Trane	Inaccessible	Inaccessible	2020		6
7	7494823	D3030	Chiller	Air-Cooled	165 TON	Cardinal Elementary School / Main	Chiller Yard	Trane	ACRA 165F UAAZ AATF P1X3 ASAD 9DB9 2020 944T	UTSM0547	2020	5676	

8	7494822	D3030	Chiller	Air-Cooled	165 TON	Cardinal Elementary School / Main Building	Chiller Yard	Trane	ACRA 165F UAA AA1F AA1F P1X3 A5A0 0DB0 XC20 AAA1	Illegible	2020	5677
9	7529188	D3030	Split System Ductless	Single Zone, 1.5 to 2 TON	1.5 TON	Cardinal Elementary School / Main Building	Building entrances	Mitsubishi Electric	PUZ-A18NKA7	99U14475D	2020	7276
10	7491206	D3030	Split System Ductless	Single Zone, 1.5 to 2 TON	1.5 TON	Cardinal Elementary School / Main Building	Roof	Mitsubishi Electric	PUZ-A18NKA7	99U14442D	2020	7275
11	7529150	D3030	Split System Ductless	Single Zone, 1.5 to 2 TON	1.5 TON	Cardinal Elementary School / Main Building	Building entrances	Mitsubishi Electric	PUZ-A18NKA7	9XU15084A	2020	7621
12	7491207	D3050	Pump	Distribution, HVAC Heating Water, 8 to 10 HP	10 HP	Cardinal Elementary School / Main Building	Building entrances	WEG	010180T3E215T-SG	1050179390	2020	7644
13	7529191	D3050	Pump [P-1]	Distribution, HVAC Chilled or Condenser Water, 26 to 50 HP	26 - 50 HP	Cardinal Elementary School / Main Building	Building entrances	WEG	RPM 1775	16APR2019 1048597065	2020	7641
14	7529173	D3050	Pump [P-2]	Distribution, HVAC Chilled or Condenser Water, 26 to 50 HP	26 - 50 HP	Cardinal Elementary School / Main Building	Building entrances	WEG	RPM 1775	17 APR 2019- 1048597066	2020	7642
15	7529190	D3050	Pump [P-3]	Distribution, HVAC Heating Water, 8 to 10 HP	10 HP	Cardinal Elementary School / Main Building	Building entrances	WEG	010180T3E215T-S	1051087651	2020	7643
16	7494817	D3050	Air Handler [AHU 1]	Interior AHU, Easy/Moderate Access, 2401 to 4000 CFM		Cardinal Elementary School / Main Building	Mechanical G204	Trane	CSAA030UAL00	K19K84867	2020	5682
17	7529179	D3050	Make-Up Air Unit	MUA or MAU, 2000 to 6000 CFM	2000 - 6000 CFM	Cardinal Elementary School / Main Building	Roof	CaptiveAire Systems	A2-D.500-20D	DTP0054	2020	7651
18	7491209	D3050	Packaged Unit	RTU, Pad or Roof- Mounted, 8 to 10 TON	10 TON	Cardinal Elementary School / Main Building	Roof	Trane	YHC120F4RXA PK6C1C1B6000EB000E0000000000	200912312L	2020	7649

19	7641502	D3050	Variable Air Volume Unit	VAV Box, 100 to 400 CFM		Cardinal Elementary School / Main Building	Throughout building	Inaccessible	Inaccessible	Inaccessible	2020	inaccessible	28
20	7491214	D3060	Exhaust Fan [EF- 37]	Roof or Wall-Mounted, 16" Damper, 1001 to 2000 CFM		Cardinal Elementary School / Main Building	Roof	Cook	90 ACEH 90C15DH	065S147546- 00/0008401	2020	7646	
21	7529189	D3060	Exhaust Fan [EF- 39]	Roof or Wall-Mounted, 16" Damper, 1001 to 2000 CFM		Cardinal Elementary School / Main Building	Roof	Cook	90 ACEH 90C15DH	065S1,47546- 00/0009901	2020	7654	
22	7529167	D3060	Exhaust Fan [EF- 6]	Roof or Wall-Mounted, 16" Damper, 1001 to 2000 CFM	1001 - 2000 CFM	Cardinal Elementary School / Main Building	Roof	Cook	90 ACEH 90C15DH	065S147546- 00/0003701	2020	7647	
23	7491215	D3060	Exhaust Fan [KEF-1]	Roof or Wall-Mounted, 42" Damper, 15001 to 20000 CFM		Cardinal Elementary School / Main Building	Roof	CaptiveAire Systems	DU240HFA	DTP0056	2020	7551	
D40 Fire	Protection												
Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Y	r Barcode	Qty
1	7494815	D4010	Pump	Fire Suppression, 10 HP		Cardinal Elementary School / Main Building	Fire Pump Room	Patterson Pump	5X3 VIP	FP-C184483-01	2020	5679	
2	7494830	D4010	Supplemental Components	Fire Jockey Pump, 0.5 HP	.5 HP	Cardinal Elementary School / Main Building	Fire Pump Room	NEMA Premium	P63AT-1126	1627-328-00	2020	5680	
3	7494811	D4010	Supplemental Components	Fire Pump Controller		Cardinal Elementary School / Main Building	Fire Pump Room	NA	FTA1930-AM30B	1992779-01RE	2020	5681	
D50 Ele	ctrical												
Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Y	r Barcode	Qty
1	7491217	D5010	Generator	Diesel, 130 to 300 KW	230 KW	Cardinal Elementary School / Main Building	Chiller Yard	Generac	SD0230KG178	3005133514	2020	7368	
						Cardinal							

3	7494819	D5010	Automatic Transfer Switch [ATS-2]	ATS, 600 AMP		Cardinal Elementary School / Main Building	B104 Electrica	I Eaton	KJAA04146	ATV3LDA40400XSU	2020	5691
4	7494824	D5020	Secondary Transformer	Dry, Stepdown, 45 KVA		Cardinal Elementary School / Main Building	Mechanical G204	Square D			2020	5683
5	7494835	D5020	Secondary Transformer [ETA]	Dry, Stepdown, 45 KVA		Cardinal Elementary School / Main Building	B104 Electrica	I Square D			2020	5693
6	7494834	D5020	Secondary Transformer [TBS]	Dry, Stepdown, 75 KVA		Cardinal Elementary School / Main Building	B104 Electrica	I Square D			2020	5690
7	7494836	D5020	Secondary Transformer [TC]	Dry, Stepdown, 45 KVA	45 KVA	Cardinal Elementary School / Main Building	Electrical room E110	^າ Square D	EXN75TH3	2081919077A	2019	5673
8	7494816	D5020	Secondary Transformer [TD1]	Dry, Stepdown, 45 KVA	45 KVA	Cardinal Elementary School / Main Building	Electrical room E110	^າ Square D	EXN45TH3NLP	1071919020	2020	5672
9	7494832	D5020	Secondary Transformer [TE]	Dry, Stepdown, 45 KVA	45 KVA	Cardinal Elementary School / Main Building	Electrical room E110	ı	EXN45T3HNLP	1071719104	2020	5671
10	7494825	D5020	Secondary Transformer [TKS]	Dry, Stepdown, 112.5 KVA		Cardinal Elementary School / Main Building	B104 Electrica	I Square D	EXN112T3HNLP	2091319083A	2019	5688
11	7494826	D5020	Switchboard	277/480 V, 3000 AMP		Cardinal Elementary School / Main Building	B104 Electrica	I Square D	42250702-001	No dataplate	2020	5686
12	7494814	D5020	Switchboard [HSS]	277/480 V, 1000 AMP		Cardinal Elementary School / Main Building	B104 Electrica	Il Square D	444225070200500001	No dataplate	2020	5695
13	7494833	D5020	Distribution Panel [DPC]	277/480 V, 1200 AMP	1000	Cardinal Elementary School / Main Building	Electrical room E110	^າ Square D	44422507020020001	No dataplate	2020	5670

14	7494831	D5020	Distribution Panel [EHA]	120/208 V, 400 AMP		Cardinal Elementary School / Main Building	B104 Electrical	Square D	124225070202700001	No dataplate	2020	5692	
15	7494810	D5020	Distribution Panel [ELA]	120/208 V, 600 AMP		Cardinal Elementary School / Main Building	B104 Electrical	Square D	44422507020010001	No dataplate	2020	5694	
16	7494818	D5020	Distribution Panel [HBS]	277/480 V, 400 AMP		Cardinal Elementary School / Main Building	B104 Electrical	Square D	29422507020090001	No dataplate	2020	5687	
17	7494812	D5020	Distribution Panel [HG]	277/480 V, 400 AMP		Cardinal Elementary School / Main Building	Mechanical G204	Square D	29422507020018001	No dataplate	2020	5684	
18	7494820	D5020	Distribution Panel [LC1]	120/208 V, 400 AMP	400 AMP	Cardinal Elementary School / Main Building	Electrical room E110		29422507020430001		2020	5669	
19	7529171	D5030	Variable Frequency Drive	VFD, by HP of Motor, 100 HP	100 HP	Cardinal Elementary School / Main Building	Mechanical room	Danfoss	174L1093	097204Y479	2020		
D70 Ele	ectronic Safet	ty & Security	/										
Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Y	r Barcode	Qty
1	7491220	D7050	Fire Alarm Panel	Fully Addressable		Cardinal Elementary School / Main Building	Main Office	FCI	No dataplate	No dataplate	2020	7597	
E10 Eq	uipment												
Index	10												
maox	D	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Y	r Barcode	Qty
1	ID 7529165	UFCode E1030	-	Attributes Deep Fryer	Capacity	Building Cardinal Elementary School / Main Building	Location Detail	Manufacturer Garland	Model	Serial	Dataplate Yi 2020	r Barcode 7294	Qty
1			Description Foodservice			Cardinal Elementary School / Main							Qty 2

4	7529194	E1030	Foodservice Equipment	Garbage Disposal, 1 to 3 HP	Cardinal Elementary School / Main Building	InsinkErator	CC202D-7	19068722565	2020	7297
5	7529170	E1030	Foodservice Equipment	lcemaker, Freestanding	Cardinal Elementary School / Main Building	Manitowoc	IYT0450A161	1120490248	2020	7458
6	7491231	E1030	Foodservice Equipment	Mixer, Freestanding	Cardinal Elementary School / Main Building	Hobart	HL200	311 603770	2020	7485
7	7529175	E1030	Foodservice Equipment	Prep Table Refrigerated, Salad/Sandwich	Cardinal Elementary School / Main Building	Delfield	SCSC-50BP	2003150002083	2020	7462
8	7529161	E1030	Foodservice Equipment	Prep Table Refrigerated, Salad/Sandwich	Cardinal Elementary School / Main Building	Delfield	MARK7SC 50 NU	2003150002085	2020	7464
9	7491232	E1030	Foodservice Equipment	Prep Table Refrigerated, Salad/Sandwich	Cardinal Elementary School / Main Building	Delfield	SCSC-50BP	2003150002080	2020	7459
10	7529166	E1030	Foodservice Equipment	Prep Table Refrigerated, Salad/Sandwich	Cardinal Elementary School / Main Building	Delfield	MARK7SC 50 NU	2003150002084	2020	7463
11	7491230	E1030	Foodservice Equipment	Steam Kettle	Cardinal Elementary School / Main Building	Cleveland	KET6TP	200123058	2020	7486
12	7529164	E1030	Foodservice Equipment	Steamer, Tabletop	Cardinal Elementary School / Main Building	Delfield	SH-4-NU-ESP	2003150002086	2020	7465
13	7529152	E1030	Foodservice Equipment	Steamer, Tabletop	Cardinal Elementary School / Main Building	Delfield	SH-4-NU-ESP	2003150002082	2020	7461
14	7529157	E1030	Foodservice Equipment	Walk-In, Freezer	Cardinal Elementary School / Main Building	Thermkool	Inaccessible	Inaccessible	2020	7481

15	7529172	E1030	Foodservice Equipment	Walk-In, Refrigerator	Cardinal Elementary School / Main Building	Kitchen	Thermkool	Inaccessible	Inaccessible	2020	7482
16	7529195	E1030	Foodservice Equipment [3]	Freezer, 1-Door Reach-In	Cardinal Elementary School / Main Building	Kitchen	Delfield	GARPT1P-S-18	2003152001037	2020	7467
17	7529168	E1030	Foodservice Equipment [4]	Dairy Cooler/Wells	Cardinal Elementary School / Main Building	Kitchen	Beverage-Air Corporation	SMF34Y-1-S	13006130	2020	7474
18	7529196	E1030	Foodservice Equipment [5]	Freezer, 1-Door Reach-In	Cardinal Elementary School / Main Building	Kitchen	Delfield	GARPT1P-S-18	2003152001038	2020	7468
19	7529148	E1030	Foodservice Equipment [6]	Dairy Cooler/Wells	Cardinal Elementary School / Main Building	Kitchen	Beverage-Air Corporation	SMF34Y-1-S	13006133	2020	7473
20	7529163	E1030	Foodservice Equipment [7]	Freezer, 1-Door Reach-In	Cardinal Elementary School / Main Building	Kitchen	Delfield	GARPT1P-S-I14	2003152002001	2020	7471
21	7491222	E1030	Foodservice Equipment [8]	Dairy Cooler/Wells	Cardinal Elementary School / Main Building	Kitchen	Beverage-Air Corporation	SMF34Y-1-S	13006132	2020	7472
22	7491224	E1030	Foodservice Equipment [8]	Steamer, Tabletop	Cardinal Elementary School / Main Building	Kitchen	Delfield	SH-4-NU-ESP	2003150002081	2020	7460
23	7529185	E1030	Foodservice Equipment [A]	Convection Oven, Single	Cardinal Elementary School / Main Building	Kitchen	Convotherm	C4et	WB219114815	2020	7483
24	7491228	E1030	Foodservice Equipment [A]	Food Warmer, Proofing Cabinet on Wheels	Cardinal Elementary School / Main Building	Kitchen	Metro	H0V514UVE	20200324-0102	2020	7487
25	7529149	E1030	Foodservice Equipment [B]	Convection Oven, Single	Cardinal Elementary School / Main Building	Kitchen	Convotherm	C4et	WB219114812	2020	7484

26	7491227	E1030	Foodservice Equipment [D]	Convection Oven, Single	Cardinal Elementary School / Main Building	Kitchen	Garland	MC0-GD-10	2002100102458	2020	7475	
27	7529154	E1030	Foodservice Equipment [E]	Convection Oven, Single	Cardinal Elementary School / Main Building	Kitchen	Garland	MC0-GD-10	2002100102328	2020	7476	
28	7529183	E1030	Foodservice Equipment [F]	Convection Oven, Single	Cardinal Elementary School / Main Building	Kitchen	Garland	MC0-GD-10	2002100183986	2020	7477	
29	7529160	E1030	Foodservice Equipment [G]	Convection Oven, Single	Cardinal Elementary School / Main Building	Kitchen	Garland	MC0-GD-10	200210012330	2020	7478	
30	7529146	E1030	Foodservice Equipment [H]	Convection Oven, Single	Cardinal Elementary School / Main Building	Kitchen	Garland	MC0-GD-10	200210012329	2020	7479	
31	7529182	E1030	Foodservice Equipment [l]	Convection Oven, Single	Cardinal Elementary School / Main Building	Kitchen	Garland	MC0-GD-10	200210012331	2020	7480	
32	7491233	E1030	Foodservice Equipment [J]	Food Warmer, Proofing Cabinet on Wheels	Cardinal Elementary School / Main Building	Kitchen	Delfield	No dataplate	No dataplate	2020	7466	
33	7529192	E1030	Foodservice Equipment [K]	Food Warmer, Proofing Cabinet on Wheels	Cardinal Elementary School / Main Building	Kitchen	Delfield	No dataplate	No dataplate	2020	7469	
34	7529197	E1030	Foodservice Equipment [L]	Food Warmer, Proofing Cabinet on Wheels	Cardinal Elementary School / Main Building	Kitchen	Delfield	No dataplate	No dataplate	2020	7470	
35	7491234	E1040	Ceramics Equipment	Kiln	Cardinal Elementary School / Main Building	Art Room	Skutt	KM 1027-3	22809378	2020		
36	7491235	E1040	Healthcare Equipment	Defibrillator (AED), Cabinet-Mounted	Cardinal Elementary School / Main Building	Throughout building				2020		2