

POUDRE SCHOOL DISTRICT O'DEA ELEMENTARY SCHOOL

FACILITY CONDITION ASSESSMENT

FORT COLLINS, CO

OCTOBER 2023



Together, Building a Thriving Planet

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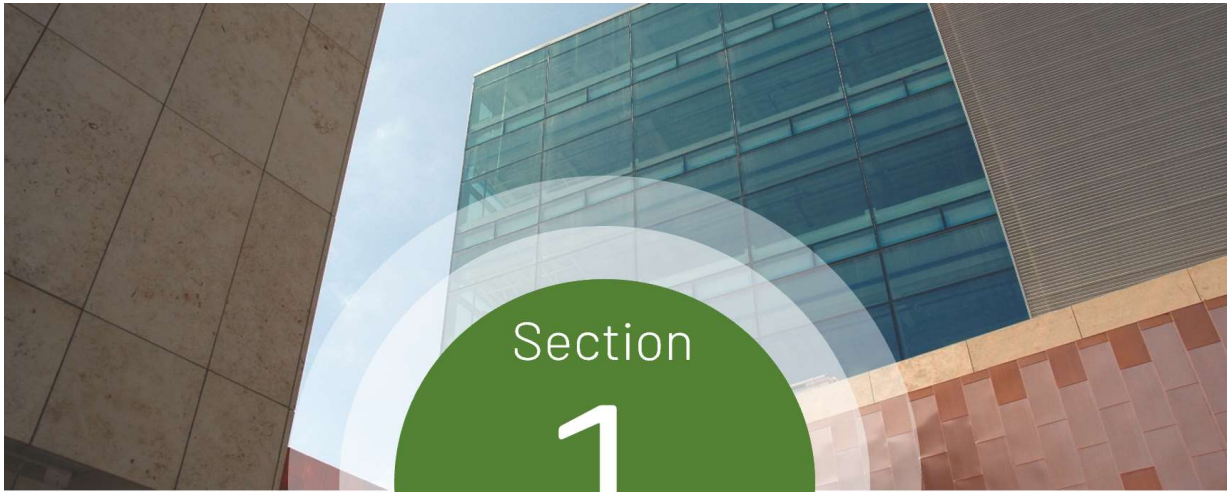
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Section

1

Executive Summary

Executive Summary

Project Goals

The contents of this report present the results of the Facility Condition Assessment (FCA) performed at O'Dea Core Knowledge ES within the Poudre School District (PSD) on May 10, 2023. PSD intends to utilize the findings of this report to inform both capital and operating budgets, prioritize maintenance efforts, and optimize planning processes as replacements and upgrades of assets and facility systems become necessary in the future.

Facility List

The scope of the FCA project included the assessment of the following campus.

FACILITY NAME	AREA (SF)	YEAR(S) BUILT
O'DEA CORE KNOWLEDGE ES	48,018	1964
TOTAL	48,018	

Facility Summary

O'Dea Core Knowledge ES

O'Dea Core Knowledge ES is located at 312 Princeton Rd., Fort Collins, CO 80525. This 48,018 SF facility consists of one level and was initially constructed in 1964. The equity index for this school is 1.2.



O'Dea Core Knowledge ES

Executive Summary

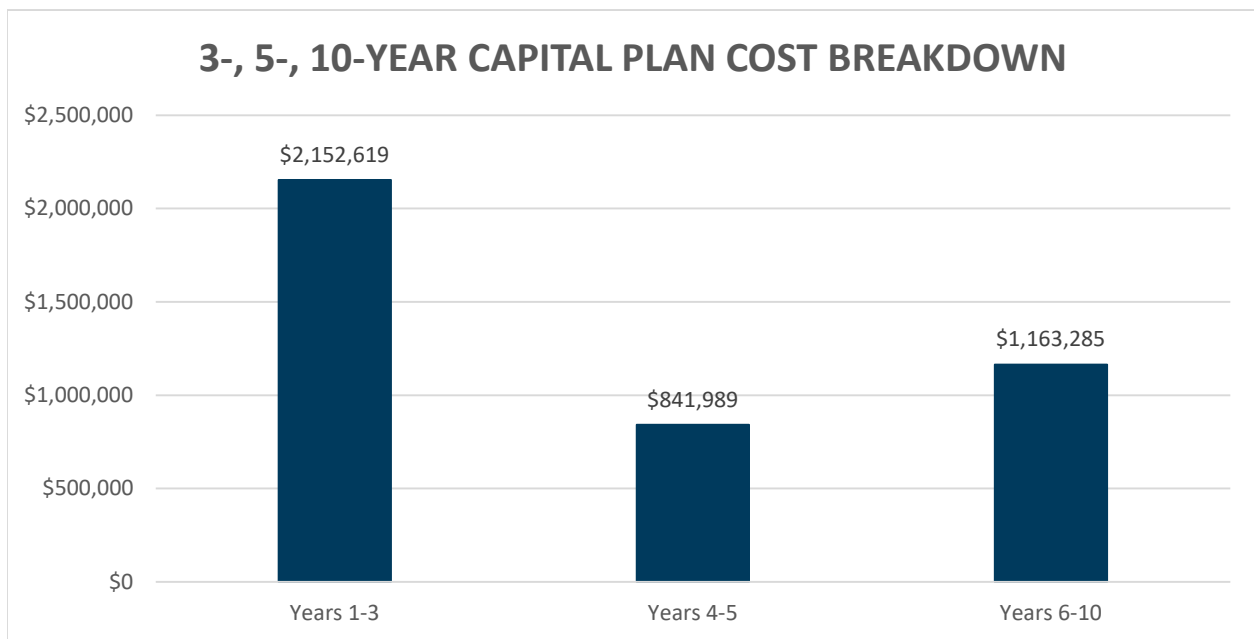
Assessment Summary

This section summarizes the building systems at the facility and describes the general condition observed based on the assessment performed on May 10, 2023. Additional details, findings and recommendations are presented in Section 3 of this report.

Capital Plan Summary

The estimated replacement costs for equipment expected to fail within the next ten years are shown below, divided into three separate plans. These plans are the 3-Year Plan, 5-Year Plan, and the 10-Year Plan. Each plan includes the cost for replacement of equipment expected to fail during these periods, based on the observed condition of the equipment at the time of the assessment.

Replacement costs include 3% inflation year over year.



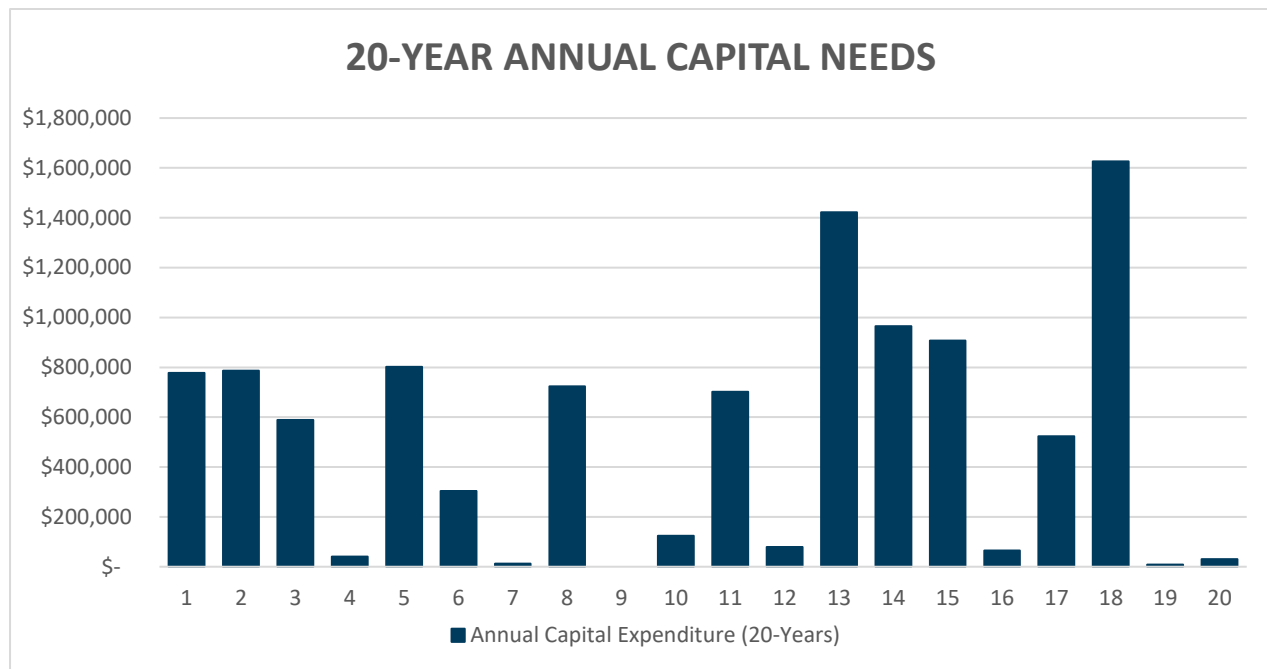
3-, 5-, 10-Year Capital Plan Cost Breakdown

Executive Summary

Annual Capital Expenditure (20 Years)

20-Year Annual Capital Needs and 20-Year Annual Capital Expenditure by Subsystem below indicate the estimated replacement costs for equipment expected to fail within the next twenty years, and are displayed both by year and by subsystem.

Replacement costs include 3% inflation year over year.



Annual Capital Expenditure by Year

Replacement costs associated with the Annual Capital Expenditure graph and table include values that are adjusted for inflation.

20-Year Annual Capital Expenditure by Subsystem

Subsystem	Years 1-5	Years 6-10	Years 11-15	Years 15-20
B20 - Enclosure	\$429,580	\$0	\$524,987	\$100,725
B30 - Roofing	\$351,623	\$303,985	\$3,745	\$8,889
C10 - Int. Construction	\$144,674	\$0	\$810,432	\$92,693
C20 - Stairs	\$0	\$0	\$0	\$0
C30 - Interior Finishes	\$744,107	\$51,643	\$921,265	\$523,568
D10 - Conveying	\$0	\$0	\$0	\$0
D20 - Plumbing	\$34,460	\$0	\$44,895	\$0
D30 - HVAC	\$1,021,960	\$98,992	\$189,110	\$1,525,099
D40 - Fire Suppression	\$0	\$0	\$0	\$0
D50 - Electrical	\$268,203	\$708,666	\$1,543,630	\$0
E10 - Equipment	\$0	\$0	\$36,484	\$0
Total:	\$2,994,608	\$1,163,285	\$4,074,548	\$2,250,973

Section

2

Approach and Methodology

Scope and Approach

Scope and Approach

SCOPE OF WORK

The scope of this facility condition assessment includes all major mechanical, electrical, and plumbing equipment, and commercial refrigeration equipment. In addition, the building enclosure, roofing, interior construction and finishes, and fire suppression systems are included within the assessment. Turf, site assets, kitchen assets besides walk-in freezers, exhaust fans and kitchen make up air units are not included in scope.

The following table lists the general asset types included within the scope of this assessment. Also shown is the corresponding Uniformat code, which has been used to catalog equipment based on type and intended use.

UniFormat Classification of Building Systems

UNIFORMAT CODE	CATEGORY DESCRIPTION
B20	Exterior Enclosure (i.e. windows, walls, doors)
B30	Roofing (i.e. roofing covering, skylights, etc.)
C10	Interior Construction (i.e. doors, walls)
C20	Interior Stairs (i.e. stair construction)
C30	Interior Finishes (i.e. flooring, ceiling finishes, etc.)
D10	Conveying (i.e., elevators)
D20	Plumbing (i.e., water heating, pumps, compressors)
D30	Heating, Ventilation, and Air Conditioning
D40	Fire Suppression Systems
D50	Electrical (panelboards, transformers, switchgear)
E10	Equipment, Kitchen Hoods, Walk-in Units, etc.

Scope and Approach

RATINGS, METHODS AND SCORING

To allow Poudre School District more flexibility in prioritizing capital planning efforts, McKinstry has developed the following metrics which assign various scores to each asset.

Asset Condition

Condition ratings are presented for each asset as a score of 1 – 5. Scores are based upon a visual inspection during the building evaluation period. A score of 1 signifies that the asset is in great, “like new” condition. A score of 2 indicates that the asset is in good condition. A score of 3 signifies that the asset is in expected “average” condition based on function and the age of the asset. A score of 4 signifies that the asset is in poor condition, in need of repair, and will require replacement in the near future. A score of 5 signifies that the asset is in very poor or failed condition and in need of imminent replacement.

SCORE	CONDITION ASSESSMENT
1	Asset is in great condition, no action required.
2	Asset is in good condition, regular maintenance expected.
3	Asset is in expected condition, regular replacement/maintenance expected.
4	Asset is in poor condition, maintenance/replacement recommended soon.
5	Asset is in very poor condition, urgent replacement needed.

Student/Teacher Impact

Student/Teacher Impact scores are presented for each asset on a scale of 1 – 5 (low to high impact). This metric considers educational (student and/or teacher) impact caused if the equipment were to fail. Assets serving classrooms and other educational spaces are assigned scores of 2-5 depending on the impact the failure of an asset would have and if backups are available. A student/teacher impact score of 1 indicates that there is little to no impact to educational activities.

SCORE	STUDENT/TEACHER IMPACT
1	Failure poses no significant educational impact.
2	Failure poses low educational impact.
3	Failure poses moderate impact. Asset serves teaching area, but has backup.
4	Failure poses high educational impact.
5	Failure poses severe impact. Asset serves teaching area and has no backup.

Energy Cost Impact

The Energy Impact score is presented for each asset on a scale of 1-5 (low to high impact). Each of the asset types within the scope of this assessment were evaluated based on their impact to energy cost and consumption (including electrical, natural gas, and liquid fuels). Assets with a higher Energy Cost Impact score indicate that the asset has a large contribution to the overall energy costs of the facility. A sample of Energy impact scores is shown below:

Scope and Approach

ASSET TYPE	ASSET SIZE	ENERGY COST IMPACT (1-5)
Air Handling Unit	less than 10,000 CFM	3
	between 10,000 CFM – 50,000 CFM	4
	greater than 50,000 CFM	5
Chiller	less than 200 tons	3
	between 200 – 500 tons	4
	greater than 500 tons	5
Computer Room AC Condensing Unit Heat Pump	less than 10 tons	2
	greater than 10 tons	3
Cooling Tower	less than 200 tons of rejection	2
	greater than 200 tons of rejection	3
Dust Collector	less than 5 HP	2
	between 5 HP and 25 HP	3
	greater than 25 HP	4
Exhaust Fan	less than 5000 CFM	2
	greater than 5000 CFM	3
Fan Coil Unit	greater than 3000 CFM	2
Fuel Fired Boiler	less than 200 MBH	2
	between 200 – 1000 MBH	3
	between 1000 – 2000 MBH	4
	greater than 2000 MBH	5
Furnace	less than 100 MBH	2
	between 100 and 500 MBH	3
	greater than 500 MBH	4
Generator	less than 500 KW	2
	greater than 500 KW	3
Lighting, Exterior	LED	2
	Fluorescent	3
	HID/Incandescent	4
Lighting, Interior	LED	2
	Fluorescent	4
	HID/Incandescent	5
Make-Up Air Unit	less than 5,000 CFM	3
	between 5,000 and 25,000 CFM	4
	greater than 25,000 CFM	5
Pumps	less than 25 HP	2
	between 25 -150 HP*	3
	greater than 150 HP*	4
Return Fan Supply Fan	less than 20 HP	2
	greater than 20 HP*	3

Scope and Approach

ASSET TYPE	ASSET SIZE	ENERGY COST IMPACT (1-5)
Rooftop Unit	less than 5 ton	2
	between 5 and 20 tons	3
	between 20 and 50 tons	4
	greater than 50 tons	5
Transformer	greater than 200 kVA	2
VFD	greater than 50 HP	2
Air Compressor	All sizes	2
Air Curtain		
Air Dryer		
Cabinet Unit Heater		
Dehumidifier		
Electric Duct Heater		
Humidifier		
Unit Heater		
Unit Ventilator		
Walk-In Condenser		
Walk-In Unit		
All Other	All sizes	1

*Add 1 for direct drive motors

Operational Impact

Operational Impact scores are presented for each asset on a scale of 1 – 5 (low to high impact). This metric considers the operational impact caused if the equipment were to fail. Assets serving critical administrative and district operational spaces are assigned scores of 2-5 depending on the impact the failure of an asset would have and if backups are available. An operational impact score of 1 indicates that there is little to no impact to administrative or operational activities.

SCORE	OPERATIONAL COST IMPACT SCORE
1	Asset has little to no operational impact.
2	Asset has a low level of operational impact.
3	Asset has a moderate operational impact.
4	Asset has a high level of operational impact.
5	Asset has severe operational impact.

Industry Life Expectancy

The designed life expectancy for a given asset is determined using a combination of widely accepted industry standards including ASHRAE and BOMA, as well as a manufacturers' database of equipment life expectancies. This value is expressed in number of years.

Scope and Approach

Observed Remaining Life

The Observed Remaining Life is also expressed in number of years and takes into consideration the function and operating environment of the asset, as well as a determination based upon a visual inspection of the asset. The Observed Remaining Life value may vary from the Design Life value. For example, a secondary heat exchanger that has been well maintained may have an Observed Remaining Life that is greater than the expected Design Life. Likewise, a primary chilled water pump that has not been well maintained, and shows visual signs of premature wear and tear, may have an Observed Remaining Life that is less than the expected Design Life.

Cost Estimating

Based on the constraints of the scope outlined in the contract we have based our asset pricing upon industry standards, RSMeans, and pricing data sourced through McKinstry's construction division. This information is intended to assist in the prioritization and resource allocation associated with maintenance and capital replacement projects. Cost estimates are determined using specific characteristics of each asset (tonnage, motor size, capacity, etc.) along with one of several cost information data sets. Standard equipment warranties are included.

To clarify, all Estimated Replacement Costs include averages of the material cost of the asset, the demolition and installation of that asset type and are expressed in 2023 dollars. Additionally, site specific construction and equipment invoices have been utilized as available.

Costs associated with project design, contractor competence, commissioning, test and balance services and are excluded from the estimate and are the responsibility of the Client. McKinstry assumed a 3% inflation, applied year over year. All work is during normal business hours. For mechanical equipment any duct work, piping, existing appurtenances are to be reused; costs to repair or replace any lines going to or coming from the units is excluded. Existing isolation valves to be used; repair or replacement of isolation valves is excluded.

Costs typically associated with project-specific parameters are excluded and should be added at the discretion of the Client. Such exclusions include risks or contingencies such as asbestos abatement, other hazardous waste abatement, scope changes, design changes, taxes, special wage requirements such as Prevailing Wage rates, warranty management and unknown site conditions. Overtime and after-hours work is excluded. Any necessary structural or electrical upgrades to replace equipment is excluded. Incidental code violations resulting from project scope or execution are excluded. Correction of any existing code violations are excluded. Temporary heating, cooling, ventilation, and power during construction and the warranty period are excluded. Moving of heavy equipment or furniture to complete the work is excluded. Running and terminating new IP drops for equipment is excluded. Any changes to fire and life safety systems for mechanical equipment upgrades is excluded.

Data-Driven Maintenance Approach

Included with the submission of this report is the FCA Data Collection Workbook, which includes all data collected for each asset. The Workbook can be used to quickly sort through equipment and prioritize maintenance and replacement efforts. Additional observations and equipment details are provided within the workbook for each asset.

Scope and Approach

Each asset is classified according to building system, size, capacity, and other standards, as well as ratings of current condition and impact of failure. Such organization and classification facilitate searching and sorting the data for maintenance and replacement priorities. As mentioned, the impact ratings help to compare one asset to another. Based on observed condition and impact scores, the future maintenance priorities for each building are described further in later sections.

As each of the components identified in the workbook is repaired or replaced, the information can be revised to reflect the new conditions. Remaining useful life values can also be manually iterated one year from the assessment date to reflect fewer remaining years of life. Assets no longer in service can be removed from the list. Similarly, assets that have been newly installed can be added to the list. Following the impact guidelines, relative priority can be calculated for these assets.

Equity Index

As an additional metric to the six existing areas of the Facilities Condition Assessment, Poudre School District has created an Equity Index to assist in prioritizing facilities improvement projects. This number takes into account student poverty, students qualifying for ELA services, students qualifying for Special Education services, and students who are homeless. The calculated score for each school is based on these factors and where it falls in relation to the district average. The formula would be:

$$\frac{\text{School Percentage in these areas added together as decimals}}{\text{District Percentages in these areas added together as decimals}}$$

In this formula, a school with student needs equal to the district average would have an equity index of 1.0. Schools with student needs higher than the district average would have an Equity Index greater than 1.0. Schools with student needs less than the district average would have an Equity Index less than 1.0.

Category	Equity Index
Low	0.29
High	3.20
Average	1.11
Median	0.95

The equity index for O'Dea Core Knowledge ES is 1.2.

Sample Calculation:

School Name	School Population K-12 Total	F/R	ELL	SPED	McKinney-Vento	Total of Previous Columns	Equity Index Number = school average / district average
Sample	381	15.20%	0.00%	8.40%	0.00%	0.24	0.24/0.48 = 0.49
Grand PSD Total - Oct 2022 Count	26,163	29.5%	5.8%	9.5%	3.4%	0.48	

F/R - Free or Reduced-Price Lunch; ELL- English Language Learners; SPED - Special Ed.; McKinney-Vento - Homeless Assistance

Section

3

Condition Assessment

Condition Assessment

SYSTEMS DESCRIPTION

This section summarizes the building systems at O'Dea Core Knowledge ES and describes the general condition observed based on the assessment. Specific findings and recommendations are detailed later in this report.

Exterior Enclosure

Exterior walls consist of brick masonry walls and fiberglass panels. The building has many aluminum-framed windows. Exterior doors consist of a combination of metal and glass storefront doors. [REDACTED]

Roofing

The building's roofing consists of EPDM, rolled asphalt, ballasted roofing, and metal flashing which were all estimated to be installed circa 2004. The roofing [REDACTED] a leak was observed during the assessment along with standing water. In addition, the building has skylights, some of which were installed in 1986 and others of which were installed in 2004. [REDACTED]

Interior Construction and Finishes

The interior construction consists of CMU block wall, brick wall, some of which was original exterior wall, drywall, wood doors, metal doors, acoustic tile ceiling, carpet, ceramic tile flooring, VCT flooring, athletic flooring, and exposed concrete flooring. Age of the interior construction elements vary between original construction and upgrades as recent as 2020. Generally, the interior construction is in expected condition based on industry life expectancies.

Conveyance

N/A

Electrical and Lighting

The building's electrical distribution equipment consists of 120/208 panels, transformers, and switchgear. Generally, these assets are in good condition. The fire alarm system dates to 2016. Interior lighting consists of fluorescent fixtures. Exterior lighting is made up of a mixture of fluorescent, incandescent, and LED lights [REDACTED] Consider upgrading the interior and exterior lighting to light emitting diode (LED) fixtures to reduce energy costs and maintenance needs.

HVAC Systems

The building's heating, ventilation, and air conditioning (HVAC) system consists of a hot water system, an air handling unit, five rooftop units, and VUVs. The building automation system is made up of Honeywell controls. Additional HVAC equipment includes makeup air units, fan coil units, exhaust fans, unit heaters, and cabinet unit heaters. One of the boilers, the air handling unit, and some of the rooftop units [REDACTED] have surpassed their life expectancies and should be replaced within the next 1-3 years. In addition, several cabinet unit heater appear to be abandoned in place.

Plumbing

Domestic hot water is provided by two (2) natural gas fired water heater installed in 2010 and 2016 and an electric water heater installed in 2016. The water heater installed in 2010 has surpassed its life expectancy and is anticipated to need replacement soon. Additional plumbing equipment includes backflow preventers, expansion tanks, and pumps. Overall, the plumbing system is in fair to average condition.

Fire Suppression

N/A

Equipment

There is one (1) walk-in cooler and one (1) walk-in freezer in the school's kitchen. These units generally appear to be in good condition.

Condition Assessment

PRIORITIES

SPECIFIC PRIORITIES

The top capital measures (up to five max) have been detailed in the following tables. Each measure receives a priority level of 1, 2, or 3. A priority level of 1 indicates that the measure is considered an immediate concern or a potential hazard and should be addressed as soon as possible. A priority level of 2 indicates that the measure is considered urgent, but not a potential hazard or there is a less severe impact to occupants. A priority level of 3 indicates that the assets associated with the measure are nearing end of life, but have not yet failed or have a mild to moderate impact on occupant safety and comfort.

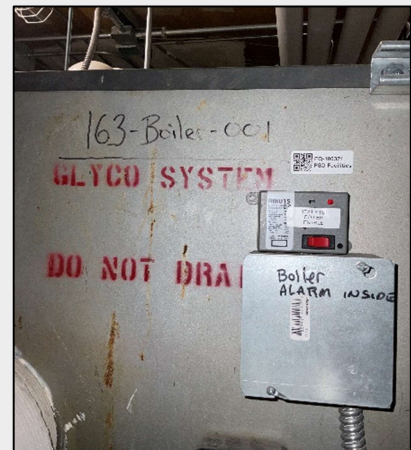
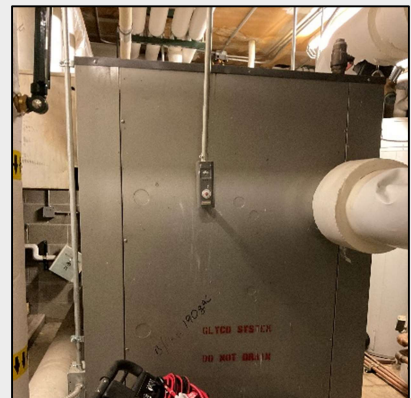
O'Dea Core Knowledge ES

1. Replace Boiler 1

The boiler B-1 was installed in 1962, [REDACTED], and has surpassed the end of its life expectancy by nearly 30 years. This boiler should be replaced within the next year.

The following assets are included within this measure:

FCAID-390135



Priority Level:	2
Estimated Cost:	\$127,750
Remaining Life:	1 Year

Condition Assessment

2. Replace Rolled Asphalt Roofing

The rolled asphalt roofing is in poor condition and is nearing the end of its industry life expectancy. A roof leak was observed in the Annex section during inspection along with lots of standing water, bubbled up areas, and visible cracks. Rolled asphalt roofing should be replaced within the next two years.

The following assets are included within this measure:

FCAID-390031



Priority Level: 2
Estimated Cost: \$292,390
Remaining Life: 2 Years

3. Replace AHU-1

AHU-1 was installed in 1966, [REDACTED], and has surpassed the end of its life expectancy by over 30 years. This air handling unit should be replaced within the next year.

The following assets are included within this measure:

FCAID-390078



Priority Level: 2
Estimated Cost: \$117,170
Remaining Life: 1 Year

Condition Assessment

4. Replace Rooftop Units

The rooftop units RTU-1, RTU-3, and RTU-4, were installed in 1994, [REDACTED] and have surpassed the end of their life expectancies. These rooftop units should be replaced within the next year.

The following assets are included within this measure:

FCAID-390151, FCAID-390152, FCAID-390153



Priority Level: 2
Estimated Cost: \$351,510
Remaining Life: 1 Year

5. Replace Emergency Generator

The emergency is estimated to have been installed in 1994, [REDACTED] It should be replaced within the next year.

The following assets are included within this measure:

FCAID-390080



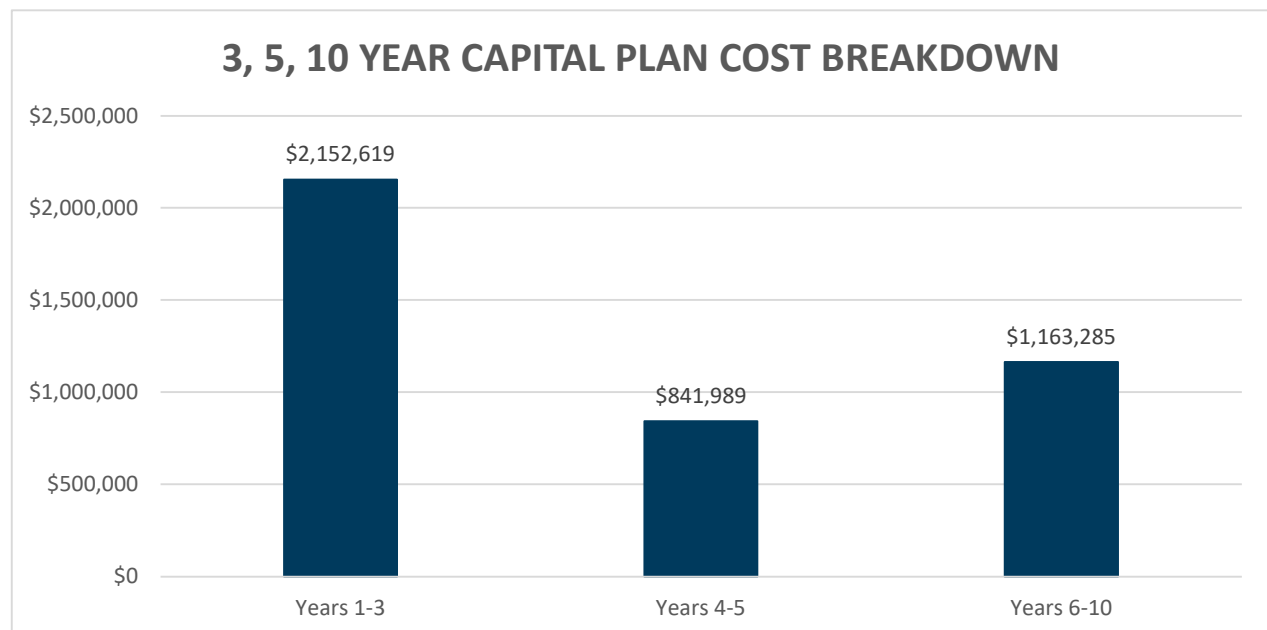
Priority Level: 2
Estimated Cost: \$28,150
Remaining Life: 1 Year

Condition Assessment

3-, 5-, 10-YEAR PLANS

The following sections present the expected equipment replacement costs over the next ten years, broken into three separate plans. These plans are the 3-Year Plan, 5-Year Plan, and the 10-Year Plan. Each plan includes the equipment expected to fail during these periods, based on the observed condition of the equipment at the time of the assessment. Note, the 3-Year Plan includes assets failing within the next three years, the 5-Year Plan includes assets failing between four and five years, and the 10-Year Plan includes assets failing between in the next six to ten years from the assessment date.

The chart below presents the total expected replacement costs for each plan. Note that these figures include 3% inflation YOY.



Future Capital Plan

The table below displays replacement costs for the campus, and the number of associated assets expected to fail within the next ten years. Assets requiring replacement or extensive maintenance in this plan are presented in Appendices A, B, and C.

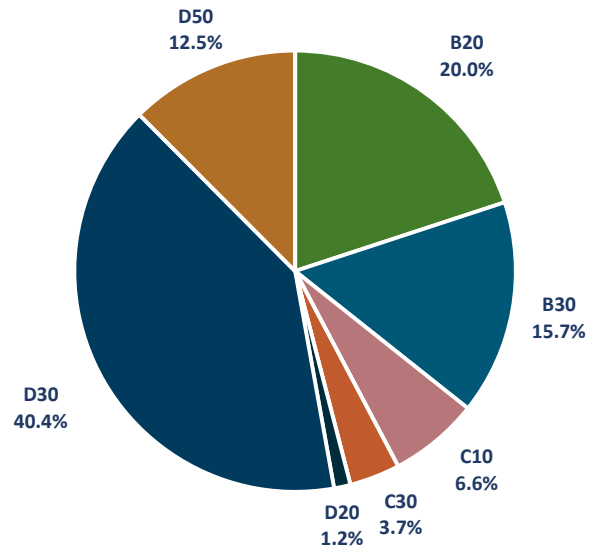
REPLACEMENT PERIOD	ASSET QUANTITY	CUMULATIVE REPLACEMENT COST
3-Year Plan	76	\$2,152,619
5-Year Plan	18	\$841,989
10-Year Plan	16	\$1,163,285
Total	110	\$4,157,893

Condition Assessment

3-YEAR PLAN BREAKDOWN

The three-year plan includes the estimated capital expenditure needed to replace assets reaching end of life in years 1-3, or between 2024 and 2026. The sum of the anticipated capital needs is \$2,152,619. The specific assets that will reach end of life in this period are listed in Appendix A.

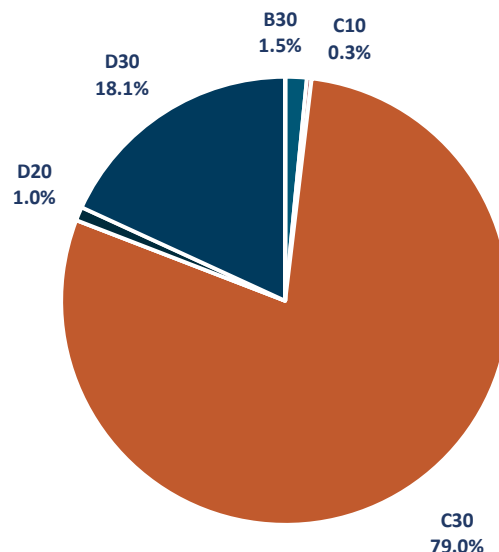
SUBSYSTEM	Years 1-3	Percent
A10 - Foundations	\$0	0%
B10 - Superstructure	\$0	0%
B20 - Exterior Enclosure	\$429,580	20%
B30 - Roofing	\$338,674	16%
C10 - Int. Construction	\$141,748	7%
C20 - Stairs	\$0	0%
C30 - Interior Finishes	\$79,155	4%
D10 - Conveying	\$0	0%
D20 - Plumbing	\$26,109	1%
D30 - HVAC	\$869,150	40%
D40 - Fire Protection	\$0	0%
D50 - Electrical	\$268,203	12%
E10 - Equipment	\$0	0%
G20 - Site Improvements	\$0	0%
G40 - Site Electrical	\$0	0%



5-YEAR PLAN BREAKDOWN

The five-year plan includes the estimated capital expenditure needed to replace assets reaching end of life in years 4-5, or between 2027 and 2028. The sum of the anticipated capital needs is \$841,989. The specific assets that will reach end of life in this period are listed in Appendix A.

SUBSYSTEM	Years 4-5	Percent
A10 - Foundations	\$0	0%
B10 - Superstructure	\$0	0%
B20 - Exterior Enclosure	\$0	0%
B30 - Roofing	\$12,949	2%
C10 - Int. Construction	\$2,926	<1%
C20 - Stairs	\$0	0%
C30 - Interior Finishes	\$664,952	79%
D10 - Conveying	\$0	0%
D20 - Plumbing	\$8,351	1%
D30 - HVAC	\$152,810	18%
D40 - Fire Protection	\$0	0%
D50 - Electrical	\$0	0%
E10 - Equipment	\$0	0%
G20 - Site Improvements	\$0	0%
G40 - Site Electrical	\$0	0%

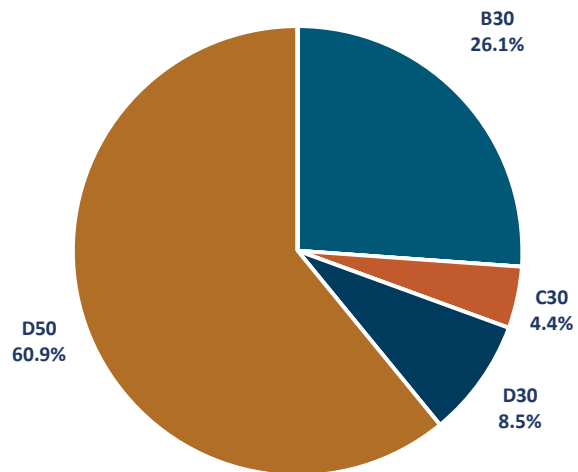


Condition Assessment

10-YEAR PLAN BREAKDOWN

The ten-year plan includes the estimated capital expenditure needed to replace assets reaching end of life in years 6-10, or between 2029 and 2033. The sum of the anticipated capital needs is \$1,163,285. The specific assets that will reach end of life in this period are listed in Appendix A.

SUBSYSTEM	Years 6-10	Percent
A10 - Foundations	\$0	0%
B10 - Superstructure	\$0	0%
B20 - Exterior Enclosure	\$0	0%
B30 - Roofing	\$303,985	26%
C10 - Int. Construction	\$0	0%
C20 - Stairs	\$0	0%
C30 - Interior Finishes	\$51,643	4%
D10 - Conveying	\$0	0%
D20 - Plumbing	\$0	0%
D30 - HVAC	\$98,992	9%
D40 - Fire Protection	\$0	0%
D50 - Electrical	\$708,666	61%
E10 - Equipment	\$0	0%
G20 - Site Improvements	\$0	0%
G40 - Site Electrical	\$0	0%



Condition Assessment

PRIORITY SUMMARY

The summary below assigns a composite Overall Priority Score to the campus as of the assessment date. Priority Scores range from 6 (low priority) to 30 (high priority), and are based on asset condition, operating impact, student impact, energy impact, estimated replacement cost, and observed remaining life.

In addition to the Overall Priority Score, each Subsystem category within the site is assigned a Priority Score. This score can differentiate systems that may need more attention than others, due to condition or impact on occupants or operations. Each Subsystem category includes a general narrative section under the Description column.

Future Capital Plan

The Subsystem scores are color coded to reflect the level of priority: ≤ 12 = Green, 12.1-23.9 = Yellow, ≥ 24 = Red. Higher priority scores indicate that a system should be considered for maintenance or capital improvements before other systems with lower scores. The rating scale for Priority Score is visualized below.

LOW	MEDIUM-LOW	MEDIUM	MEDIUM-HIGH	HIGH
6	12	18	24	30

Condition Assessment

PRIORITY SCORE SUMMARY - O'DEA CORE KNOWLEDGE ES

		O'DEA CORE KNOWLEDGE ES BUILDING TYPE: Elementary School YEAR BUILT: 1964 GROSS AREA (SF): 48,018 DATE ASSESSED: May 10, 2023 PRIORITY SCORE: 15.9	
SUBSYSTEM:	DESCRIPTION	PRIORITY SCORE	
B20 - Ext. Enclosure	Exterior walls consist of brick masonry walls and fiberglass panels. The building has many aluminum-framed windows. Exterior doors consist of a combination of metal and glass storefront doors. [REDACTED]	13.5	
B30 - Roofing	The building's roofing consists of EPDM, rolled asphalt, ballasted roofing, and metal flashing which were all estimated to be installed circa 2004. The roofing [REDACTED], a leak was observed during the assessment along with standing water. In addition, the building has skylights, some of which were installed in 1986 and others of which were installed in 2004. [REDACTED]	18.3	
C10 - Int. Construction	The interior construction consists of CMU block wall, brick wall, some of which was original exterior wall, drywall, wood doors, metal doors, acoustic tile ceiling, carpet, ceramic tile flooring, VCT flooring, athletic flooring, and exposed concrete flooring. Age of the interior construction elements vary between original construction and upgrades as recent as 2020. Generally, the interior construction is in expected condition based on industry life expectancies.	12.8	
C30 - Interior Finishes		14.3	
D20 - Plumbing	Domestic hot water is provided by two (2) natural gas fired water heater installed in 2010 and 2016 and an electric water heater installed in 2016. The water heater installed in 2010 has surpassed its life expectancy and is anticipated to need replacement soon. Additional plumbing equipment includes backflow preventers, expansion tanks, and pumps. [REDACTED]	13.0	
D30 - HVAC	The building's heating, ventilation, and air conditioning (HVAC) system consists of a hot water system, an air handling unit, five rooftop units, and VUVs. The building automation system is made up of Honeywell controls. Additional HVAC equipment includes makeup air units, fan coil units, exhaust fans, unit heaters, and cabinet unit heaters. One of the boilers, the air handling unit, and some of the rooftop units [REDACTED] have surpassed their life expectancies and should be replaced within the next 1-3 years. In addition, several cabinet unit heater appear to be abandoned in place.	16.8	
D40 - Fire Suppression	N/A	N/A	
D50 - Electrical	The building's electrical distribution equipment consists of 120/208 panels, transformers, and switchgear. Generally, these assets are in good condition. The fire alarm system dates to 2016. Interior lighting consists of fluorescent fixtures. Exterior lighting is made up of a mixture of fluorescent, incandescent, and LED lights [REDACTED]. Consider upgrading the interior and exterior lighting to light emitting diode (LED) fixtures to reduce energy costs and maintenance needs.	19.2	
E10 - Equipment	There is one (1) walk-in cooler and one (1) walk-in freezer in the school's kitchen. These units generally appear to be in good condition.	13.0	

System priority scored from 6 (lowest priority) to 30 (highest priority) based on condition, operating impact, student/teacher impact, energy impact, estimated replacement cost, and observed remaining life. [≤12 = green, 12-24 = yellow, ≥24 = red]

Appendices

A. 3-YEAR PLAN ASSETS LIST

B. 5-YEAR PLAN ASSETS LIST

C.10-YEAR PLAN ASSETS LIST

Appendix A

APPENDIX A: 3-YEAR PLAN ASSETS LIST

The individual assets associated with the 3-Year Plan are shown below, sorted from highest to lowest priority score. The priority score key is shown below for convenience.

Note that these values represent current replacement costs expressed in 2023 dollar amounts and are not adjusted for inflation.

LOW	MEDIUM-LOW	MEDIUM	MEDIUM-HIGH	HIGH
6	12	18	24	30

The asset ID listed for each entry has been assigned during this assessment and reflects the corresponding asset in the FCA workbook.

O'DEA CORE KNOWLEDGE ES

ASSET ID	DESCRIPTION	SUBSYSTEM	OBSERVED REMAINING	REPLACEMENT COST	PRIORITY SCORE
FCAID-390135	B-1	D30 - HVAC	1	\$127,750	25
FCAID-390078	AHU-1	D30 - HVAC	1	\$117,170	24
FCAID-390152	RTU-3	D30 - HVAC	1	\$117,170	22
FCAID-390151	RTU-1	D30 - HVAC	1	\$117,170	22
FCAID-390153	RTU-4	D30 - HVAC	1	\$117,170	22
FCAID-390177	Emergency Back-Up Lighting - LED	D50 - Electrical	3	\$182,950	22
FCAID-390017	Exterior Windows: Aluminum Framed (196	B20 - Ext. Enclosure	2	\$267,150	20
FCAID-390031	Roofing: Rolled Asphalt	B30 - Roofing	2	\$292,390	20
FCAID-390080	Emergency Generator	D50 - Electrical	1	\$28,150	20
FCAID-390027	Roofing: Ceramic Coping (1962)	B30 - Roofing	1	\$24,380	18
FCAID-390154	RTU-5	D30 - HVAC	3	\$31,160	18
FCAID-390191	Distribution Panel PBB	D50 - Electrical	1	\$32,270	18
FCAID-390140	BCP-2	D30 - HVAC	2	\$6,690	17
FCAID-390087	CUH-3	D30 - HVAC	1	\$8,750	17
FCAID-390086	CUH-2	D30 - HVAC	1	\$8,750	17
FCAID-390088	CUH-4	D30 - HVAC	1	\$8,750	17
FCAID-390028	Roofing: Ceramic Coping (1966)	B30 - Roofing	1	\$2,060	17
FCAID-390061	Interior Ceiling Finishes: Ceiling Tile	C30 - Int. Finishes	1	\$67,750	16
FCAID-390025	Roofing: Skylight (1986)	B30 - Roofing	2	\$1,480	16
FCAID-390182	Panel LPA	D50 - Electrical	2	\$3,270	16
FCAID-390022	Roofing: Ballasted Roofing	B30 - Roofing	2	\$6,350	16
FCAID-390032	Roofing: Roof Ladder	B30 - Roofing	2	\$2,920	16
FCAID-390189	Panel MR	D50 - Electrical	2	\$3,270	16
FCAID-390146	RHC-Zone-03	D30 - HVAC	2	\$600	15
FCAID-390175	Exterior Lighting: Soffit Light, Fluorescent	D50 - Electrical	2	\$1,820	15
FCAID-390150	RHC-Zone-07	D30 - HVAC	2	\$1,500	15

FCAID-390005	Exterior Windows: Glass Block (1962)	B20 - Ext. Enclosure	2	\$27,960	15
FCAID-390144	RHC-Zone-01	D30 - HVAC	2	\$2,000	15
FCAID-390040	Interior Door: Metal, Double	C10 - Int. Construct.	3	\$9,920	15
FCAID-390148	RHC-Zone-05	D30 - HVAC	2	\$3,500	15
FCAID-390051	Interior Construction: 62 Metal Windows	C10 - Int. Construct.	2	\$37,440	15
FCAID-390013	Exterior: 66 Steel Doors - Single	B20 - Ext. Enclosure	2	\$14,880	15
FCAID-390052	Interior Construction: 66 Metal Windows	C10 - Int. Construct.	2	\$37,440	15
FCAID-390018	Exterior Windows: Aluminum Framed (199	B20 - Ext. Enclosure	3	\$32,370	15
FCAID-390128	FCU-1	D30 - HVAC	3	\$6,610	15
FCAID-390145	RHC-Zone-02	D30 - HVAC	2	\$1,200	15
FCAID-390130	FCU-3	D30 - HVAC	3	\$6,610	15
FCAID-390147	RHC-Zone-04	D30 - HVAC	2	\$750	15
FCAID-390131	FCU-4	D30 - HVAC	3	\$6,610	15
FCAID-390149	RHC-Zone-06	D30 - HVAC	2	\$1,200	15
FCAID-390132	FCU-5	D30 - HVAC	3	\$6,610	15
FCAID-390019	Exterior: 94 Metal Windows	B20 - Ext. Enclosure	3	\$35,100	15
FCAID-390133	FCU-6	D30 - HVAC	3	\$6,610	15
FCAID-390174	Exterior Lighting: 94 Wall Pack, Incandesce	D50 - Electrical	2	\$2,430	15
FCAID-390134	FCU-7	D30 - HVAC	3	\$6,610	15
FCAID-390054	Interior Construction: Wood Windows	C10 - Int. Construct.	2	\$25,350	15
FCAID-390129	FCU-2	D30 - HVAC	3	\$6,610	15
FCAID-390103	EF-11	D30 - HVAC	3	\$12,990	14
FCAID-390076	GWH-1	D20 - Plumbing	3	\$9,650	14
FCAID-390125	EF-9	D30 - HVAC	3	\$6,710	14
FCAID-390089	CUH-5	D30 - HVAC	3	\$8,750	14
FCAID-390084	CUH-10	D30 - HVAC	3	\$8,750	14
FCAID-390111	EF-19	D30 - HVAC	3	\$6,710	14
FCAID-390083	CUH-1	D30 - HVAC	3	\$8,750	14
FCAID-390116	EF-23	D30 - HVAC	3	\$6,210	14
FCAID-390090	CUH-6	D30 - HVAC	3	\$8,750	14
FCAID-390117	EF-24	D30 - HVAC	3	\$6,210	14
FCAID-390077	GWH-2	D20 - Plumbing	3	\$10,610	14
FCAID-390118	EF-25	D30 - HVAC	3	\$6,710	14
FCAID-390102	EF-10	D30 - HVAC	3	\$6,710	14
FCAID-390119	EF-3	D30 - HVAC	3	\$6,710	14
FCAID-390106	EF-14	D30 - HVAC	3	\$6,710	14
FCAID-390120	EF-4	D30 - HVAC	3	\$6,710	14
FCAID-390050	Interior Construction: 62 Metal Windows	C10 - Int. Construct.	2	\$2,730	14
FCAID-390122	EF-6	D30 - HVAC	3	\$6,710	14
FCAID-390004	Exterior Walls: Tile (1962)	B20 - Ext. Enclosure	2	\$12,040	14
FCAID-390110	EF-18	D30 - HVAC	3	\$6,710	14
FCAID-390109	EF-17	D30 - HVAC	3	\$6,710	14
FCAID-390127	ET-2	D30 - HVAC	2	\$7,230	13
FCAID-390063	Interior Ceiling Finishes: Drywall	C10 - Int. Construct.	3	\$23,730	13
FCAID-390012	Exterior: 94 Steel Doors - Double	B20 - Ext. Enclosure	3	\$19,840	13
FCAID-390171	Exterior Lighting: 04 Wall Pack, Fluorescent	D50 - Electrical	3	\$2,430	13
FCAID-390064	Interior Flooring Finishes: Concrete	C30 - Int. Finishes	3	\$10,750	13

FCAID-390015	Exterior: 94 Steel Doors - Single	B20 - Ext. Enclosure	3	\$4,960	13
FCAID-390073	Thermostatic Mixing Valve-1	D20 - Plumbing	3	\$4,350	11
FCAID-390137	Gas Meter	D30 - HVAC	3	\$3,430	11

Appendix B

APPENDIX B: 5-YEAR PLAN ASSETS LIST

The individual assets associated with the 5-Year Plan are shown below, sorted from highest to lowest priority score. The priority score key is shown below for convenience.

Note that these values represent current replacement costs expressed in 2023 dollar amounts and are not adjusted for inflation.

LOW	MEDIUM-LOW	MEDIUM	MEDIUM-HIGH	HIGH
6	12	18	24	30

The asset ID listed for each entry has been assigned during this assessment and reflects the corresponding asset in the FCA workbook.

O'DEA CORE KNOWLEDGE ES

ASSET ID	DESCRIPTION	SUBSYSTEM	OBSERVED REMAINING LIFE	REPLACEMENT COST	PRIORITY SCORE
FCAID-390136	B-2	D30 - HVAC	5	\$78,630	18
FCAID-390062	Interior Flooring Finishes: Carpet	C30 - Int. Finishes	5	\$566,520	16
FCAID-390067	Interior Flooring Finishes: 94 Tile Floor	C30 - Int. Finishes	4	\$25,010	14
FCAID-390024	Roofing: 04 Skylight Window (2004)	B30 - Roofing	4	\$1,480	14
FCAID-390026	Roofing: Skylight (2004)	B30 - Roofing	4	\$10,370	14
FCAID-390093	CUH-9	D30 - HVAC	5	\$8,750	13
FCAID-390113	EF-20	D30 - HVAC	5	\$6,210	13
FCAID-390108	EF-16	D30 - HVAC	5	\$6,200	13
FCAID-390091	CUH-7	D30 - HVAC	5	\$8,750	13
FCAID-390092	CUH-8	D30 - HVAC	5	\$8,750	13
FCAID-390115	EF-22	D30 - HVAC	5	\$6,210	13
FCAID-390085	CUH-11	D30 - HVAC	5	\$8,750	13
FCAID-390075	EWB-1	D20 - Plumbing	5	\$6,220	13
FCAID-390155	UH-1	D30 - HVAC	5	\$3,520	12
FCAID-390070	BFP-1	D20 - Plumbing	5	\$400	11
FCAID-390036	Interior Walls: 62 Drywall (1962)	C10 - Int. Construct.	5	\$2,600	11
FCAID-390071	BFP-2	D20 - Plumbing	5	\$400	11
FCAID-390072	BFP-3	D20 - Plumbing	5	\$400	11

Appendix C

APPENDIX C: 10-YEAR PLAN ASSETS LIST

The individual assets associated with the 10-Year Plan are shown below, sorted from highest to lowest priority score. The priority score key is shown below for convenience.

Note that these values represent current replacement costs expressed in 2023 dollar amounts and are not adjusted for inflation.

LOW	MEDIUM-LOW	MEDIUM	MEDIUM-HIGH	HIGH
6	12	18	24	30

The asset ID listed for each entry has been assigned during this assessment and reflects the corresponding asset in the FCA workbook.

O'DEA CORE KNOWLEDGE ES

ASSET ID	DESCRIPTION	SUBSYSTEM	OBSERVED REMAINING LIFE	REPLACEMENT COST	PRIORITY SCORE
FCAID-390176	Fire Alarm System	D50 - Electrical	8	\$384,140	21
FCAID-390192	Security System	D50 - Electrical	8	\$192,070	18
FCAID-390023	Roofing: EPDM	B30 - Roofing	6	\$254,790	17
FCAID-390096	CU-2	D30 - HVAC	7	\$10,050	15
FCAID-390101	CU-6	D30 - HVAC	10	\$7,540	13
FCAID-390099	CU-4	D30 - HVAC	10	\$10,050	13
FCAID-390097	CU-2-Walk-In Cooler	D30 - HVAC	10	\$5,030	13
FCAID-390094	CU-1	D30 - HVAC	10	\$7,540	13
FCAID-390100	CU-5	D30 - HVAC	10	\$7,540	13
FCAID-390095	CU-1-Walk-In Freezer	D30 - HVAC	10	\$10,460	13
FCAID-390033	Roofing: Solar Tunnels	B30 - Roofing	6	\$1,480	13
FCAID-390029	Roofing: Metal Flashing	B30 - Roofing	6	\$5,950	13
FCAID-390098	CU-3	D30 - HVAC	10	\$7,540	13
FCAID-390069	Interior Flooring Finishes: LVT	C30 - Int. Finishes	10	\$39,580	10
FCAID-390138	GF-1	D30 - HVAC	8	\$1,780	9
FCAID-390079	AS-1	D30 - HVAC	8	\$9,860	9