

POUDRE SCHOOL DISTRICT DUNN ELEMENTARY SCHOOL

FACILITY CONDITION ASSESSMENT

FORT COLLINS, CO

OCTOBER 2023



Together, Building a Thriving Planet



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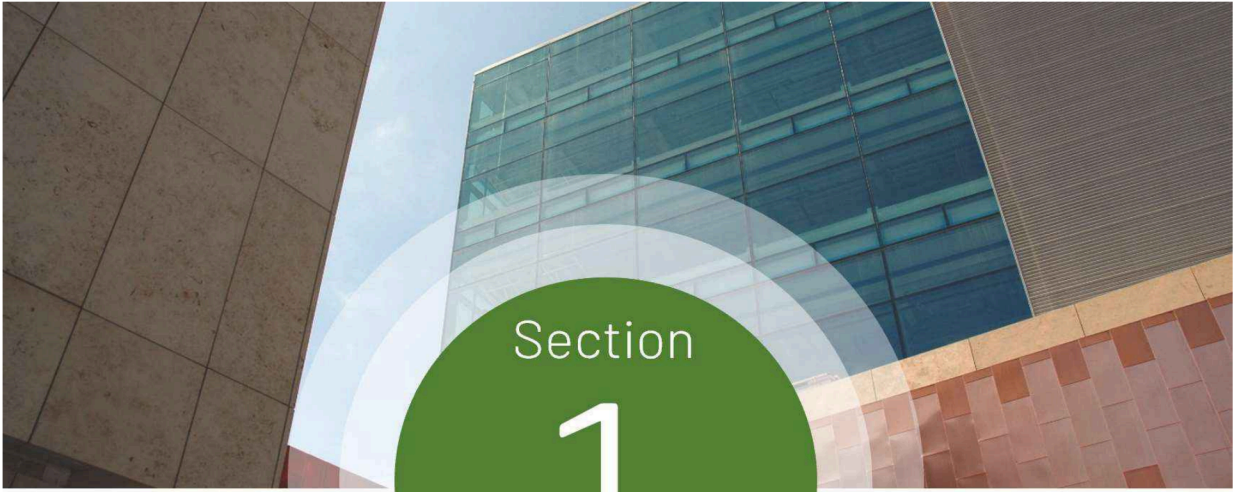
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Section

1

Executive Summary

Executive Summary

Project Goals

The contents of this report present the results of the Facility Condition Assessment (FCA) performed at Dunn ES within the Poudre School District (PSD) on July 19, 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

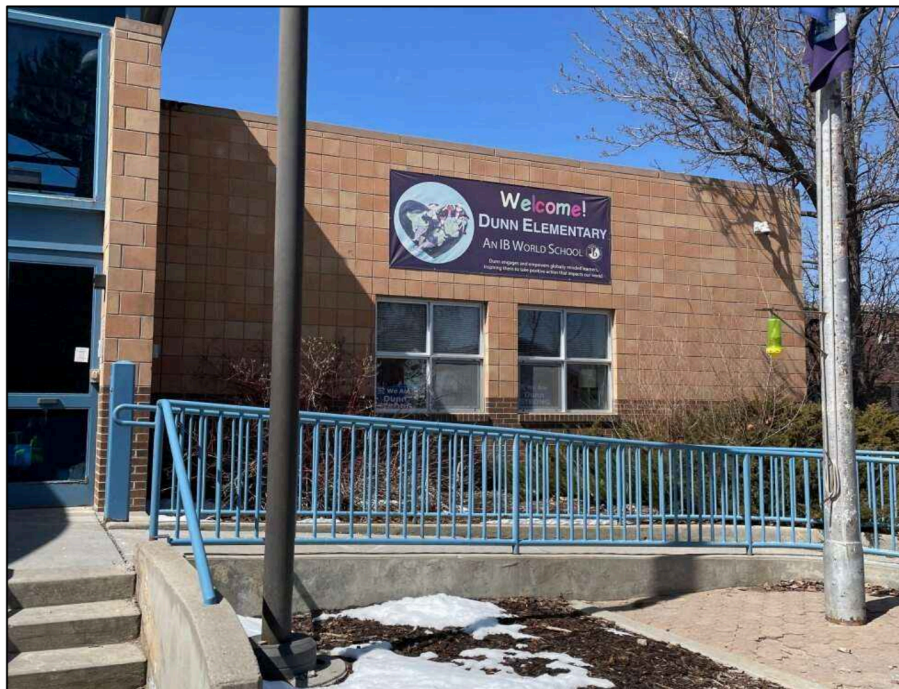
The scope of the FCA project included the assessment of the following campus.

FACILITY NAME	AREA (SF)	YEAR(S) BUILT
DUNN ES	45,957	1949
TOTAL	45,957	

Facility Summary

Dunn ES

Dunn ES is located at 501 S. Washington Ave., Fort Collins, CO 80521. This 45,957 SF facility consists of one level and was initially constructed in 1949. The equity index for this school is 0.79.



Dunn ES

Executive Summary

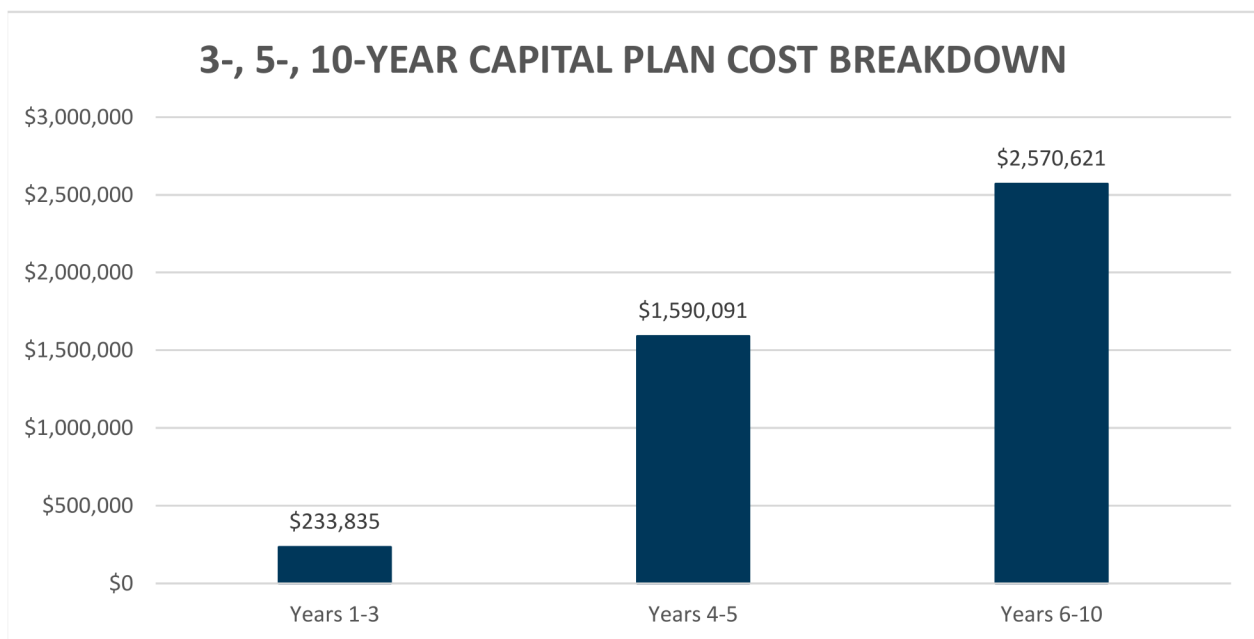
Assessment Summary

This section summarizes the building systems at the facility and describes the general condition observed based on the assessment performed on July 19, 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.



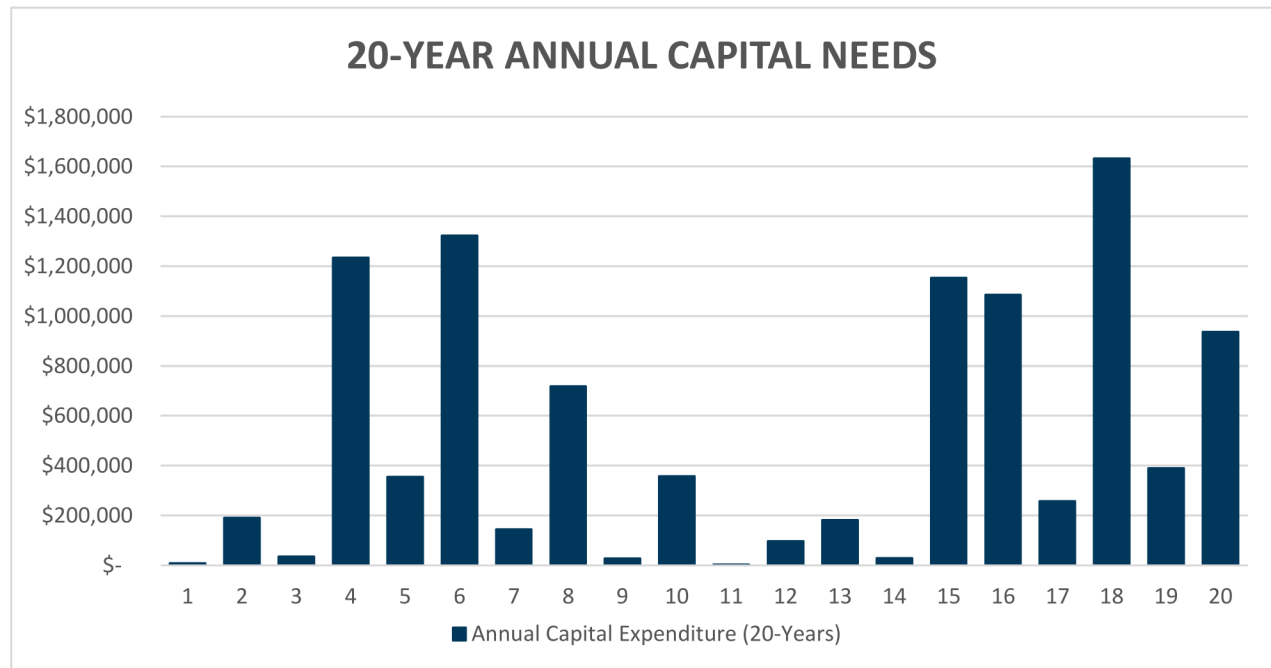
3-, 5-, 10-Year Capital Plan Cost Breakdown

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	\$236,491	\$192,480	\$829,327	\$0
B30 - Roofing	\$27,583	\$115,657	\$0	\$910,192
C10 - Int. Construction	\$15,735	\$281,387	\$375,816	\$367,640
C20 - Stairs	\$0	\$0	\$8,568	\$0
C30 - Interior Finishes	\$12,322	\$1,019,416	\$92,153	\$827,579
D10 - Conveying	\$0	\$0	\$0	\$0
D20 - Plumbing	\$37,355	\$0	\$38,347	\$3,129
D30 - HVAC	\$503,358	\$294,754	\$117,489	\$1,896,258
D40 - Fire Suppression	\$0	\$0	\$0	\$0
D50 - Electrical	\$991,082	\$661,538	\$4,802	\$295,323
E10 - Equipment	\$0	\$0	\$0	\$0
Total:	\$1,531,795	\$956,292	\$160,638	\$2,194,711

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 Unifomat 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		

*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 Dunn ES is 0.79.

Sample Calculation:

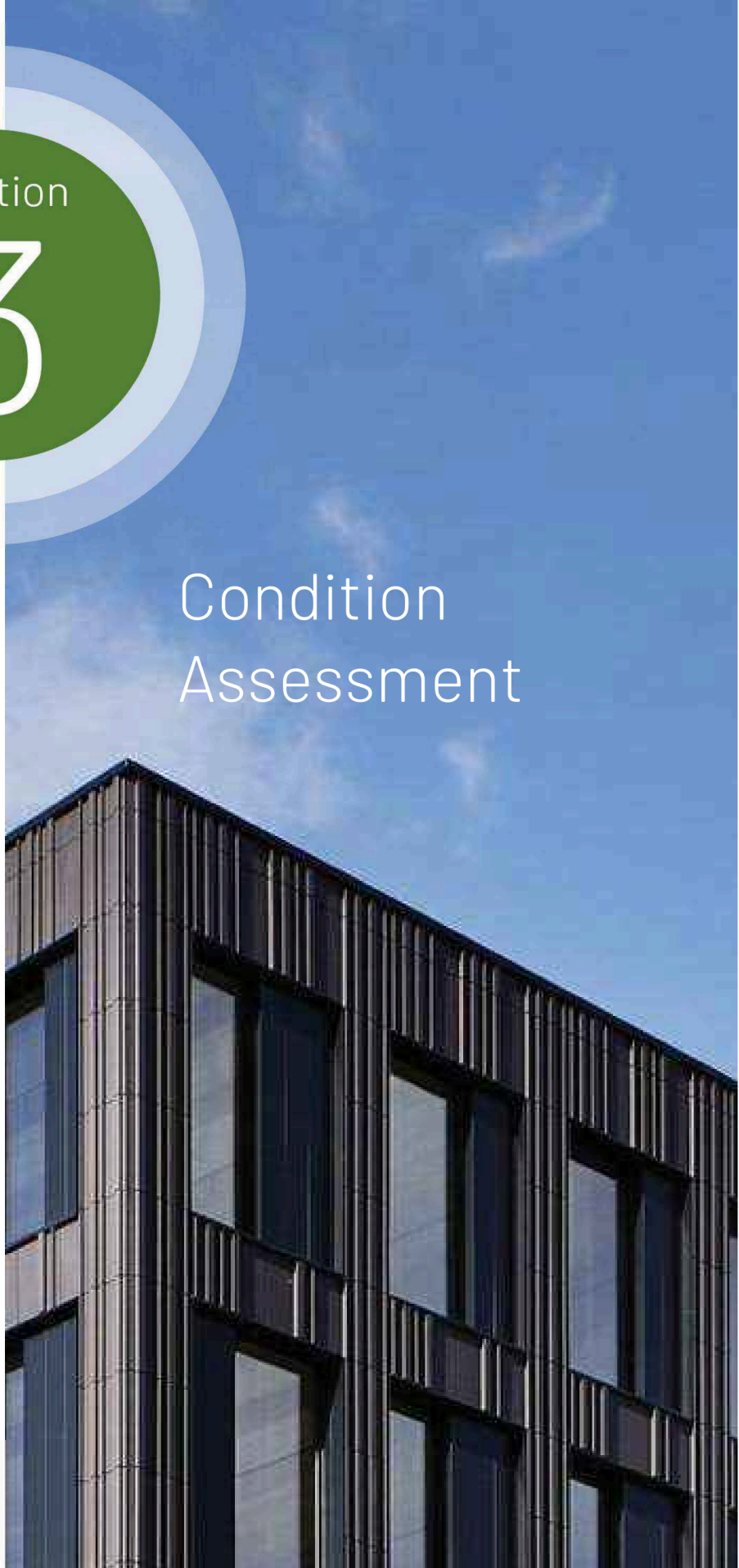
School Name	School Population K-12 Total	F/R	ELL	SPED	McKinney-Vento	Total of Previous Columns	Equity Index Number = school average / district average
Sample	381	15.20%	0.00%	8.40%	0.00%	0.24	0.24/0.48 = 0.49
Grand PSD Total - Oct 2022 Count	26,163	29.5%	5.8%	9.5%	3.4%	0.48	

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 Dunn ES and describes the general condition observed based on the assessment. Specific findings and recommendations are detailed later in this report.

Exterior Enclosure

The exterior façade of this building is primarily masonry (brick and CMU). There are several periods of construction (1948, 1987, 1992, 2006) with most of the masonry matching in color, size, and texture. The 2006 addition has a different color masonry. There are four different canopy assemblies on the exterior of the building. Glazing is primarily aluminum framed, although the glazing is from different periods of construction.

Roofing

The roof over the original footprint is a ballasted roof. Newer portions of the building have rolled asphalt roofs. [REDACTED]. At the main entry (1992 addition) there is an area of metal roofing.

Interior Construction and Finishes

Interior partitions are primarily masonry of the period of construction of that area. There are some drywall partitions in the building as well. Note that the original area of the classrooms (1948) have original wall and ceiling materials. The ceiling has evidence of repaired damage. Additionally there are glass block windows on the corridor walls. Newer portions of the building have modern masonry and more modern glazing assemblies. Newer portions of the building have ACT ceilings and carpet for flooring.

Conveyance

N/A

Electrical and Lighting

The building's electrical distribution equipment consists of 120/208 panels and switchgear. [REDACTED] the emergency generator and automatic transfer switch which have surpassed their life expectancies and should be replaced within the next 3-4 years. The fire alarm system dates to 2014. Interior lighting consists of fluorescent fixtures. Exterior lighting is made up of incandescent lighting fixtures [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, three rooftop units, radiant heaters, hot water coils, and VUVs. The building automation system is made up of Schneider Electric controls. Additional HVAC equipment includes a makeup air unit, fan coil units, exhaust fans, unit heaters, and cabinet unit heaters. Two of the rooftop units, several radiant heaters, exhaust fans, hot water coils, and unit heaters have surpassed their life expectancies and should be replaced within the next 2-6 years. In addition, the boilers are nearing the end of their life expectancies and are anticipated to need replacement within the next four years.

Plumbing

Domestic hot water is provided by two (2) natural gas fired water heater installed in 1999 and 2008, which have surpassed its life expectancy and are anticipated to need replacement within the next 3-5 years. Additional plumbing equipment includes backflow preventers, expansion tanks, storage tank, and pumps. [REDACTED]

Fire Suppression

N/A

Equipment

N/A

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.

Dunn ES

Replace Wood Soffit

The wood soffit [REDACTED] should be replaced within the next year.

The following assets are included within this measure:

FCAID-170006



Priority Level:	2
Estimated Cost:	\$5,120
Remaining Life:	1 year

Condition Assessment

Replace RTU-1 and RTU-2

RTU-1 and RTU-2, which serve various classrooms and the administration area, have surpassed their life expectancies by over 15 years and [REDACTED] should be replaced within the next two years.

The following assets are included within this measure:

FCAID-170122, FCAID-170123



Priority Level: 2
Estimated Cost: \$158,380
Remaining Life: 2 years

Replace Boilers

The two boilers in serving the hot water system at Dunn Elementary School, are nearing the end of their life expectancy and are anticipated to need replacement within the next four years.

The following assets are included within this measure:

FCAID-170110, FCAID-170111



Priority Level: 2
Estimated Cost: \$231,160
Remaining Life: 4 years

Condition Assessment

Replace Emergency Generator

The emergency generator has surpassed its industry life expectancy and [REDACTED] [REDACTED] is recommended the the generator be replaced within the next three years.



The following assets are included within this measure:

FCAID-170143

Priority Level: 2
Estimated Cost: \$22,400
Remaining Life: 3 years

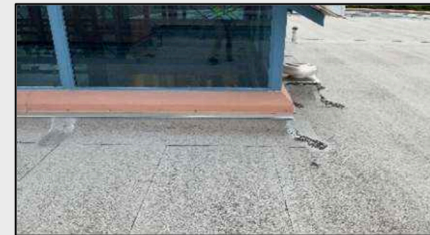
Replace 2006 Asphalt Roofing

The area of roof with rolled asphalt installed in 2006 is [REDACTED] nearing the end of its life expectancy. This roofing is anticipated to need replacement within the next two years.



The following assets are included within this measure:

FCAID-170029



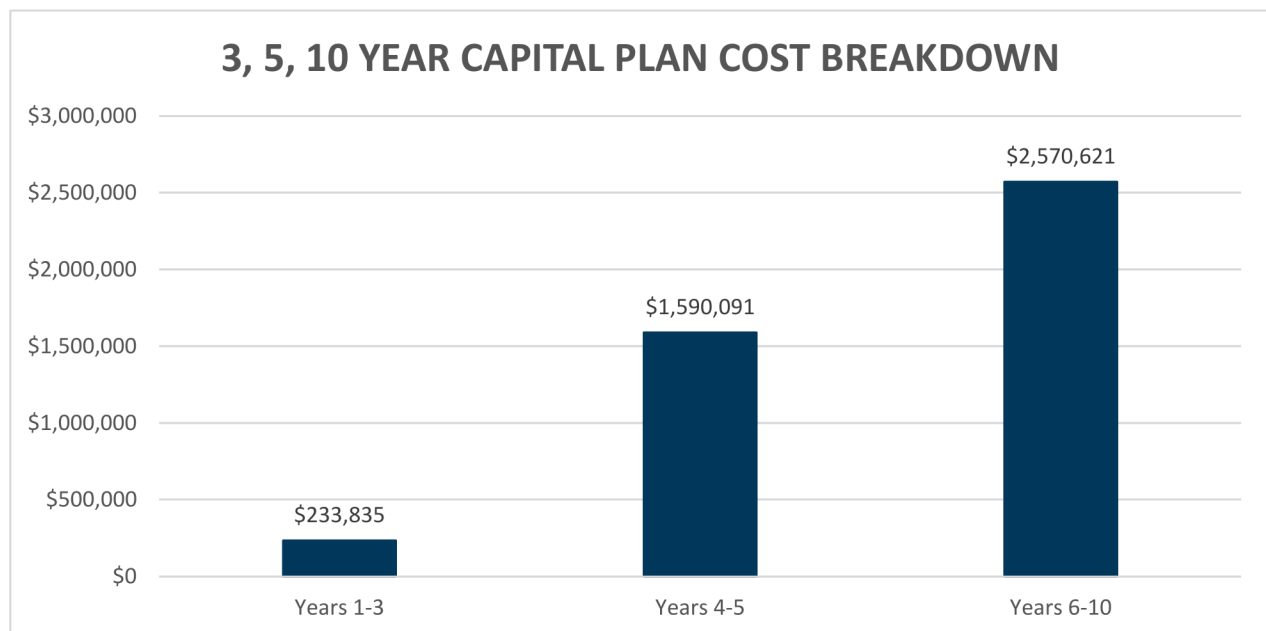
Priority Level: 2
Estimated Cost: \$26,780
Remaining Life: 2 years

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.

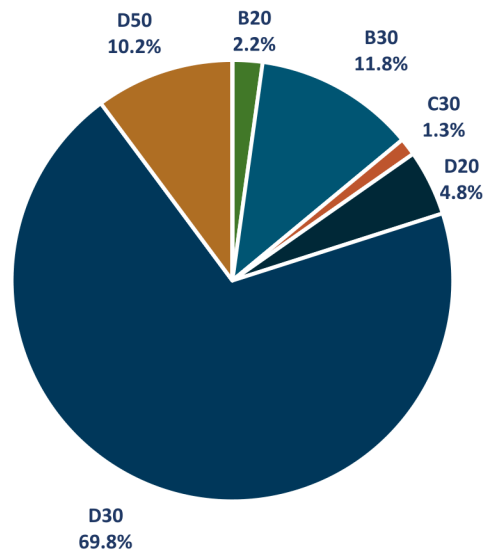
REPLACEMENT PERIOD	ASSET QUANTITY	CUMULATIVE REPLACEMENT COST
3-Year Plan	7	\$233,835
5-Year Plan	34	\$1,590,091
10-Year Plan	50	\$2,570,621
Total	91	\$4,394,547

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 \$233,835. The specific assets that will reach end of life in this period are listed in Appendix A.

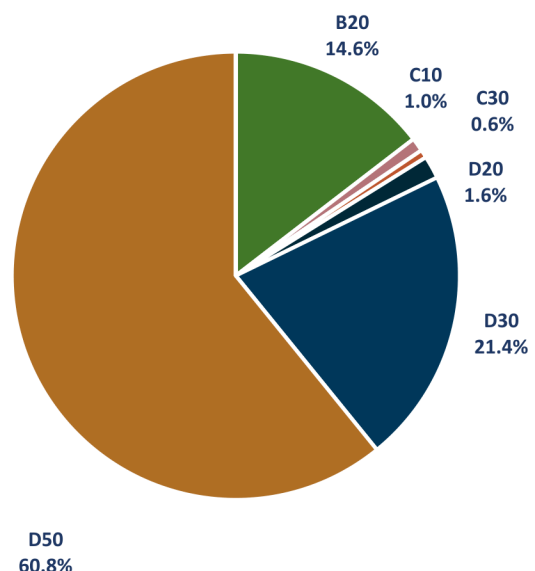
SUBSYSTEM	Years 1-3	Percent
A10 - Foundations	\$0	0%
B10 - Superstructure	\$0	0%
B20 - Exterior Enclosure	\$5,120	2%
B30 - Roofing	\$27,583	12%
C10 - Int. Construction	\$0	0%
C20 - Stairs	\$0	0%
C30 - Interior Finishes	\$2,980	1%
D10 - Conveying	\$0	0%
D20 - Plumbing	\$11,256	5%
D30 - HVAC	\$163,131	70%
D40 - Fire Protection	\$0	0%
D50 - Electrical	\$23,764	10%
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 \$1,590,091. 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	\$231,371	15%
B30 - Roofing	\$0	0%
C10 - Int. Construction	\$15,735	1%
C20 - Stairs	\$0	0%
C30 - Interior Finishes	\$9,342	1%
D10 - Conveying	\$0	0%
D20 - Plumbing	\$26,099	2%
D30 - HVAC	\$340,227	21%
D40 - Fire Protection	\$0	0%
D50 - Electrical	\$967,318	61%
E10 - Equipment	\$0	0%
G20 - Site Improvements	\$0	0%
G40 - Site Electrical	\$0	0%

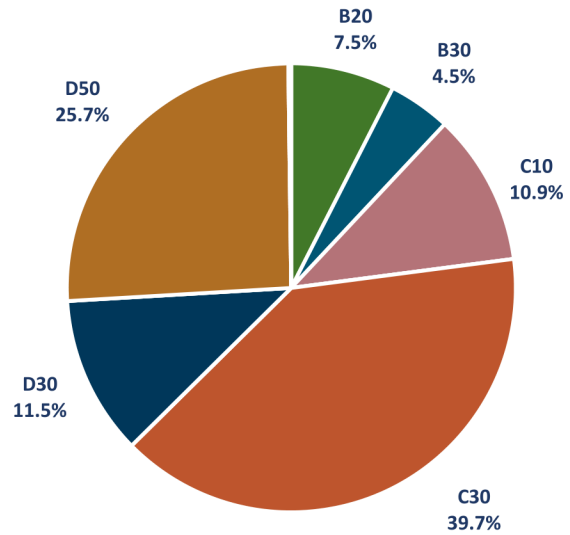


Condition Assessment

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 \$2,570,621. 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	\$192,480	7%
B30 - Roofing	\$115,657	4%
C10 - Int. Construction	\$281,387	11%
C20 - Stairs	\$0	0%
C30 - Interior Finishes	\$1,019,416	40%
D10 - Conveying	\$0	0%
D20 - Plumbing	\$0	0%
D30 - HVAC	\$294,754	11%
D40 - Fire Protection	\$0	0%
D50 - Electrical	\$661,538	26%
E10 - Equipment	\$0	0%
G20 - Site Improvements	\$5,389	<1%
G40 - Site Electrical	\$0	0%



Condition Assessment

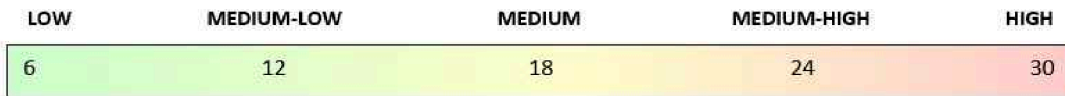
PRIORITY SUMMARY

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.



Condition Assessment

PRIORITY SCORE SUMMARY - DUNN ES

	DUNN ES
	BUILDING TYPE: Elementary School
	YEAR BUILT: 1949
	GROSS AREA (SF): 45,957
	DATE ASSESSED: July 19, 2023
PRIORITY SCORE: 15.7	

SUBSYSTEM:	DESCRIPTION	PRIORITY SCORE
B20 - Ext. Enclosure	The exterior façade of this building is primarily masonry (brick and CMU). There are several periods of construction (1948, 1987, 1992, 2006) with most of the masonry matching in color, size, and texture. The 2006 addition has a different color masonry. There are four different canopy assemblies on the exterior of the building. Glazing is primarily aluminum framed, although the glazing is from different periods of construction.	12.1
B30 - Roofing	The roof over the original footprint is a ballasted roof. Newer portions of the building have rolled asphalt roofs. [REDACTED] At the main entry (1992 addition) there is an area of metal roofing.	14.6
C10 - Int. Construction	Interior partitions are primarily masonry of the period of construction of that area. There are some drywall partitions in the building as well. Note that the original area of the classrooms (1948) have original wall and ceiling materials. The ceiling has evidence of repaired damage.	12.2
C20 - Interior Stairs	Additionally there are glass block windows on the corridor walls. Newer portions of the building have modern masonry and more modern glazing assemblies. Newer portions of the building have ACT ceilings and carpet for flooring.	12.0
C30 - Interior Finishes		14.8
D20 - Plumbing	Domestic hot water is provided by two (2) natural gas fired water heater installed in 1999 and 2008, which have surpassed its life expectancy and are anticipated to need replacement within the next 3-5 years. Additional plumbing equipment includes backflow preventers, expansion tanks, storage tank, and pumps. [REDACTED]	12.8
D30 - HVAC	The building's heating, ventilation, and air conditioning (HVAC) system consists of a hot water system, an air handling unit, three rooftop units, radiant heaters, hot water coils, and VUVs. The building automation system is made up of Schneider Electric controls. Additional HVAC equipment includes a makeup air unit, fan coil units, exhaust fans, unit heaters, and cabinet unit heaters. Two of the rooftop units, several radiant heaters, exhaust fans, hot water coils, and unit heaters have surpassed their life expectancies and should be replaced within the next 2-6 years. In addition, the boilers are nearing the end of their life expectancies and are anticipated to need replacement within the next four years.	15.8
D40 - Fire Suppression	N/A	N/A
D50 - Electrical	The building's electrical distribution equipment consists of 120/208 panels and switchgear. [REDACTED] the emergency generator and automatic transfer switch which have surpassed their life expectancies and should be replaced within the next 3-4 years. The fire alarm system dates to 2014. Interior lighting consists of fluorescent fixtures. Exterior lighting is made up of incandescent lighting fixtures and is, generally, in poor condition. Consider upgrading the interior and exterior lighting to light emitting diode (LED) fixtures to reduce energy costs and maintenance needs.	22.1
E10 - Equipment	N/A	N/A

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.

DUNN ES

ASSET ID	DESCRIPTION	SUBSYSTEM	OBSERVED REMAINING	REPLACEMENT COST	PRIORITY SCORE
FCAID-170122	RTU-1	D30 - HVAC	2	\$123,000	22
FCAID-170123	RTU-2	D30 - HVAC	2	\$35,380	20
FCAID-170143	Generator	D50 - Electrical	3	\$22,400	18
FCAID-170029	Roofing: Rolled Asphalt	B30 - Roofing	2	\$26,780	17
FCAID-170054	Interior Floor Finishes: Carpet (Older)	C30 - Int. Finishes	1	\$2,980	16
FCAID-170006	Exterior: Old Wood Canopy	B20 - Ext. Enclosure	1	\$5,120	15
FCAID-170072	Water Heater-2	D20 - Plumbing	3	\$10,610	15

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.

DUNN ES

ASSET ID	DESCRIPTION	SUBSYSTEM	OBSERVED REMAINING LIFE	REPLACEMENT COST	PRIORITY SCORE
FCAID-170148	Interior Lighting - Fluorescent	D50 - Electrical	4	\$690,370	26
FCAID-170147	Emergency Lighting	D50 - Electrical	4	\$175,100	25
FCAID-170111	B-2	D30 - HVAC	4	\$115,580	24
FCAID-170110	B-1	D30 - HVAC	4	\$115,580	24
FCAID-170109	FC-1	D30 - HVAC	4	\$11,440	16
FCAID-170069	CP-3	D20 - Plumbing	4	\$4,630	15
FCAID-170144	Exterior Lighting: HID Wall Pack	D50 - Electrical	4	\$3,640	15
FCAID-170097	EF-10	D30 - HVAC	4	\$1,260	15
FCAID-170149	Panel 1A	D50 - Electrical	4	\$3,270	15
FCAID-170150	Panel 2A	D50 - Electrical	4	\$3,270	15
FCAID-170019	Exterior Windows: old Aluminum	B20 - Ext. Enclosure	5	\$77,660	14
FCAID-170099	EF-2	D30 - HVAC	5	\$5,550	13
FCAID-170098	EF-11	D30 - HVAC	5	\$1,260	13
FCAID-170071	Water Heater-1	D20 - Plumbing	5	\$10,610	13
FCAID-170101	EF-5	D30 - HVAC	5	\$9,590	13
FCAID-170152	Panel CR	D50 - Electrical	5	\$3,270	13
FCAID-170142	ATS-1	D50 - Electrical	4	\$4,340	13
FCAID-170105	EF-9	D30 - HVAC	5	\$1,260	13
FCAID-170145	Exterior Lighting: HID Wall Pack	D50 - Electrical	5	\$1,820	13
FCAID-170106	Exhaust Fan	D30 - HVAC	5	\$5,550	13
FCAID-170001	Exterior Windows: Glass Block	B20 - Ext. Enclosure	5	\$127,910	13
FCAID-170095	EF-1	D30 - HVAC	5	\$9,590	13
FCAID-170096	EF-1	D30 - HVAC	5	\$5,550	13
FCAID-170102	EF-6	D30 - HVAC	5	\$9,590	13
FCAID-170104	EF-8	D30 - HVAC	5	\$1,260	13

FCAID-170100	EF-3	D30 - HVAC	5	\$9,590	13
FCAID-170126	UH-2	D30 - HVAC	5	\$6,740	12
FCAID-170066	BFP-2	D20 - Plumbing	4	\$1,600	12
FCAID-170070	Storage Tank	D20 - Plumbing	5	\$6,530	11
FCAID-170061	Interior Floor Finishes: Sheet Vinyl	C30 - Int. Finishes	5	\$2,770	11
FCAID-170048	Interior Windows: Wood Framed	C10 - Int. Construct.	5	\$6,210	11
FCAID-170060	Interior Floor Finishes: LVT	C30 - Int. Finishes	5	\$2,210	11
FCAID-170062	Interior Floor Finishes: VCT	C30 - Int. Finishes	5	\$3,320	11
FCAID-170046	Interior Windows: Glass Block	C10 - Int. Construct.	5	\$7,770	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.

DUNN ES

ASSET ID	DESCRIPTION	SUBSYSTEM	OBSERVED REMAINING LIFE	REPLACEMENT COST	PRIORITY SCORE
FCAID-170146	Fire Alarm System	D50 - Electrical	8	\$358,010	20
FCAID-170162	Security System	D50 - Electrical	6	\$175,100	19
FCAID-170073	AHU-1	D30 - HVAC	8	\$63,990	18
FCAID-170053	Interior Floor Finishes: Carpet	C30 - Int. Finishes	6	\$521,850	16
FCAID-170124	RTU-3	D30 - HVAC	8	\$60,120	16
FCAID-170018	Exterior Windows: new Aluminum	B20 - Ext. Enclosure	7	\$116,490	15
FCAID-170052	Interior Ceiling Finishes: ACT	C30 - Int. Finishes	6	\$238,840	15
FCAID-170090	HWC-1-7	D30 - HVAC	6	\$8,280	14
FCAID-170088	HWC-1-5	D30 - HVAC	6	\$4,140	14
FCAID-170087	HWC-1-4	D30 - HVAC	6	\$3,500	14
FCAID-170081	HWC-1-10	D30 - HVAC	6	\$1,930	14
FCAID-170089	HWC-1-6	D30 - HVAC	6	\$4,140	14
FCAID-170091	HWC-1-8	D30 - HVAC	6	\$2,300	14
FCAID-170082	HWC-1-11	D30 - HVAC	6	\$1,930	14
FCAID-170092	HWC-1-9	D30 - HVAC	6	\$2,300	14
FCAID-170080	HWC-1-1	D30 - HVAC	6	\$2,300	14
FCAID-170086	HWC-1-3	D30 - HVAC	6	\$1,930	14
FCAID-170084	HWC-1-13	D30 - HVAC	6	\$1,930	14
FCAID-170085	HWC-1-2	D30 - HVAC	6	\$2,300	14
FCAID-170083	HWC-1-12	D30 - HVAC	6	\$2,300	14
FCAID-170118	BB-22A-1	D30 - HVAC	6	\$2,860	13
FCAID-170076	CUH-2	D30 - HVAC	6	\$6,610	13
FCAID-170120	BB-24-1	D30 - HVAC	6	\$5,720	13
FCAID-170028	Roofing: Pre-Cast Coping	B30 - Roofing	8	\$37,790	13
FCAID-170078	CUH-4	D30 - HVAC	6	\$6,610	13

FCAID-170024	Roofing: Skylight	B30 - Roofing	8	\$29,640	13
FCAID-170119	BB-23-1	D30 - HVAC	6	\$4,770	13
FCAID-170058	Interior Floor Finishes: Tile	C30 - Int. Finishes	6	\$71,900	13
FCAID-170121	BB-25-1	D30 - HVAC	6	\$2,860	13
FCAID-170027	Roofing: Metal Flashing	B30 - Roofing	8	\$20,570	13
FCAID-170077	CUH-3	D30 - HVAC	6	\$6,610	13
FCAID-170075	CUH-1	D30 - HVAC	6	\$6,610	13
FCAID-170094	EF-1	D30 - HVAC	6	\$5,550	13
FCAID-170159	Panel M	D50 - Electrical	9	\$3,600	12
FCAID-170154	Panel E	D50 - Electrical	9	\$3,600	12
FCAID-170153	Panel D	D50 - Electrical	9	\$3,600	12
FCAID-170032	Interior Ceiling Finishes: 48 Drywall	C10 - Int. Construct.	10	\$156,840	12
FCAID-170156	Panel F	D50 - Electrical	9	\$3,600	12
FCAID-170005	Exterior: Old Metal Canopy	B20 - Ext. Enclosure	6	\$46,050	12
FCAID-170030	Roofing: Roof Ladder	B30 - Roofing	8	\$2,920	12
FCAID-170079	CU-1	D30 - HVAC	10	\$7,540	12
FCAID-170055	Interior Floor Finishes: Concrete	C30 - Int. Finishes	10	\$33,960	11
FCAID-170125	UH-1	D30 - HVAC	7	\$4,520	11
FCAID-170059	Interior Floor Finishes: Tile	C30 - Int. Finishes	9	\$7,820	11
FCAID-170103	EF-7	D30 - HVAC	10	\$6,210	11
FCAID-170093	EF	D30 - HVAC	10	\$6,210	11
FCAID-170167	Interior Wall Construction: Chain Link	G20 - Site Imprvmnts	10	\$4,130	10
FCAID-170034	Interior Wall Construction: Drywall (1947)	C10 - Int. Construct.	10	\$58,820	10
FCAID-170023	Roofing: Roof Hatch	B30 - Roofing	8	\$3,120	9
FCAID-170074	AS-1	D30 - HVAC	8	\$7,530	8