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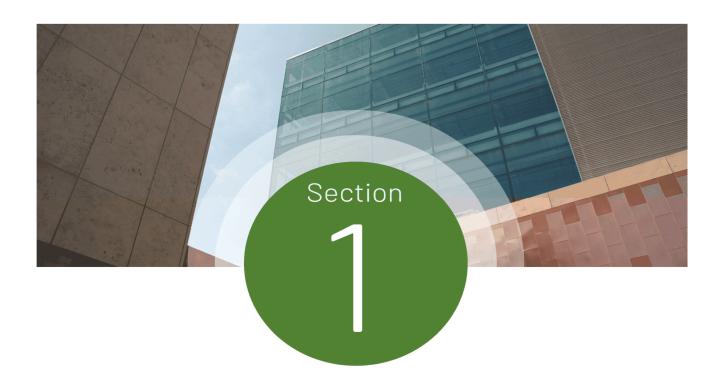
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#### **Project Goals**

The contents of this report present the results of the Facility Condition Assessment (FCA) performed at Centennial HS within the Poudre School District (PSD) on July 6, 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 |
|---------------|-----------|---------------|
| CENTENNIAL HS | 39,967    | 1955          |
| TOTAL         | 39,967    |               |

#### **Facility Summary**

#### **Centennial HS**

Centennial HS is located at 330 E. Laurel St., Fort Collins, CO 80524. This 39,967 SF facility consists of three levels and was initially constructed in 1955. The equity index for this school is 1.75.



**Centennial HS** 

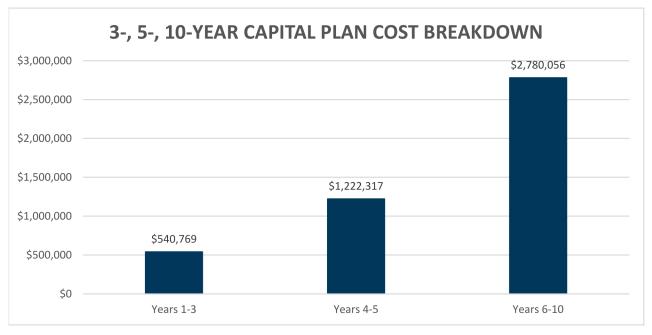
#### **Assessment Summary**

This section summarizes the building systems at the facility and describes the general condition observed based on the assessment performed on July 6, 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.

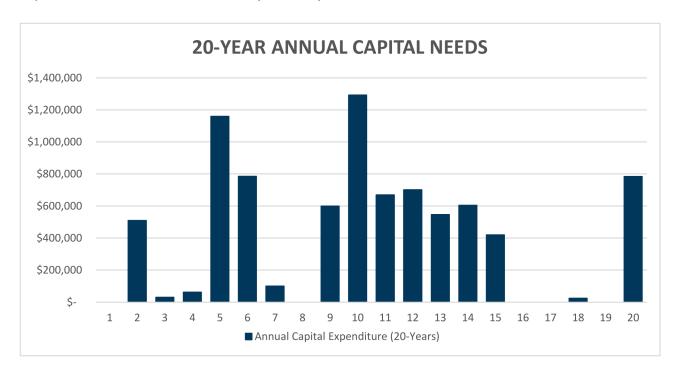


3-, 5-, 10-Year Capital Plan Cost Breakdown

#### **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

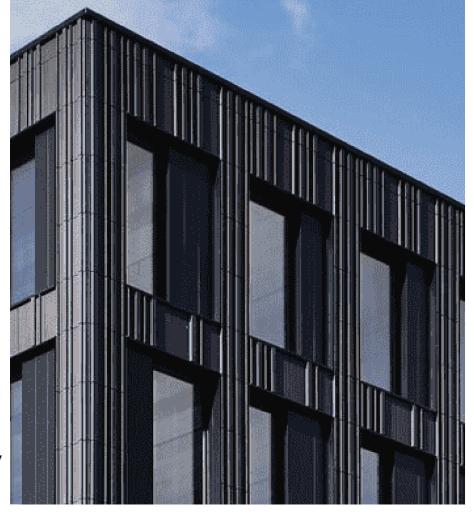
Replacement costs associated with the Annual Capital Expenditure graph and table include values that are adjusted for inflation.

| 20-Year Annual   | Canital | Evnenditure  | hy Subsystem   |
|------------------|---------|--------------|----------------|
| ZU-TEUI AIIIIUUI | Cubitai | Expellultule | DV SUDSVSLEIII |

| Subsystem Years 1-5        |             | Years 6-10            | Years 11-15   | Years 15-20 |
|----------------------------|-------------|-----------------------|---------------|-------------|
| B20 - Enclosure            | \$0         | \$832,080             | \$647,391     | \$0         |
| B30 - Roofing              | \$30,535    | \$331,479             | \$0           | \$0         |
| C10 - Int. Construction    | \$0         | \$357,534             | \$0           | \$0         |
| C20 - Stairs               | \$0         | \$37,669              | \$0           | \$0         |
| C30 - Interior Finishes    | \$592,208   | \$104,656             | \$474,695     | \$76,681    |
| D10 - Conveying            | \$0         | \$0                   | \$0 \$182,479 |             |
| D20 - Plumbing             | \$43,453    | \$0                   | \$80,723      | \$0         |
| D30 - HVAC                 | \$940,052   | \$402,800             | \$237,870     | \$707,592   |
| D40 - Fire Suppression \$0 |             | \$0                   | \$0           | \$0         |
| D50 - Electrical \$156,838 |             | \$713,838 \$1,317,800 |               | \$25,057    |
| E10 - Equipment \$0        |             | \$0                   | \$0           | \$0         |
| Total:                     | \$1,140,342 | \$1,116,638           | \$1,818,872   | \$732,649   |

Section

# Approach and Methodology





#### 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.             |  |  |

#### 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     | ailure 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:

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

| ASSET TYPE           | ASSET SIZE             | ENERGY<br>COST IMPACT<br>(1-5) |
|----------------------|------------------------|--------------------------------|
|                      | less than 5 ton        | 2                              |
| Rooftop Unit         | between 5 and 20 tons  | 3                              |
| Roortop Offic        | 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       |                        |                                |
| Air Curtain          |                        |                                |
| Air Dryer            |                        |                                |
| Cabinet Unit Heater  |                        |                                |
| Dehumidifier         |                        |                                |
| Electric Duct Heater | All sizes              | 2                              |
| 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.

#### **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.

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:

School Percentage in these areas added together as decimals

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 Centennial HS is 1.75.

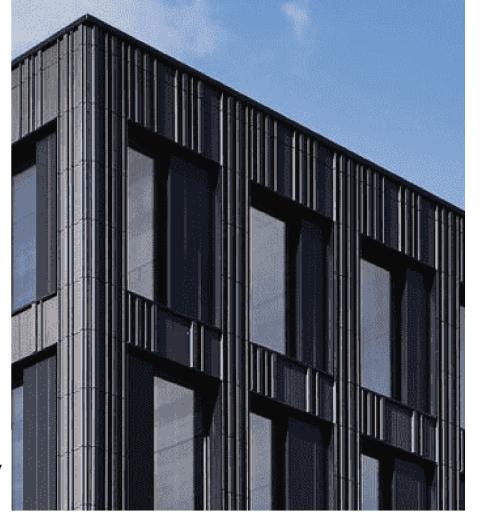
#### Sample Calculation:

| School<br>Name                   | School<br>Population<br>K-12 Total | F/R    | ELL   | SPED  | McKinney-<br>Vento | Total of<br>Previous<br>Columns | Equity Index Number =<br>school average / district<br>average |
|----------------------------------|------------------------------------|--------|-------|-------|--------------------|---------------------------------|---|
| Sample                           | 381                                | 15.20% | 0.00% | 8.40% | 0.00%              | 0.24                            | 0.24/0.48 = 0.49  |
| Grand PSD<br>Total - Oct<br>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.; McKinnney-Vento - Homeless Assistance

Section 3

## Condition Assessment





#### **SYSTEMS DESCRIPTION**

This section summarizes the building systems at Centennial HS and describes the general condition observed based on the assessment. Specific findings and recommendations are detailed later in this report.

#### **Exterior Enclosure**

| Exterior Eliciosure  |
|--|
| This facility consists of two (2) construction styles. The first is the original building (dated 1906) which is a load bearing masonry structure that uses brick and stone elements.  The second construction type is newer (1999) and consists of masonry cavity walls (brick and CMU) with some pre-cast concrete feature elements. Exterior glazing is primarily metal clad wood windows with some metal framed windows at entry elements.  |
| Roofing  |
| Both buildings have asphalt shingles and ballasted roofing. The original building has a built in "hidden" gutter system that requires extensive maintenance to avoid leaks. The new sloped roofing with asphalt shingles drains to a typ. gutter and downspout system. The flat roofing portions with ballasted roofing have internal drains with exterior overflow scuppers.  |
|  |
| Interior Construction and Finishes   |
| Interior Finishes in the Eastern newer construction are primarily drywall walls with ACT ceilings and carpeted flooring. The Western building has CMU walls with open ceilings (or decorative features) and concrete/tile/athletic flooring. The original building's interior finishes are plaster walls, drywall/ACT ceilings and carpeted flooring. There are locations where the original hardwood flooring is exposed. The connection between the original building and the new addition has exposed brickwork and wood trim. The Eastern building (new and original) has extensive exposed interior staircases with wooden handrails and wood wainscotting.   |
| Conveyance The school has an elevator that serves three floors   |
| Electrical and Lighting  |
| The building's electrical distribution equipment consists of 480/277 panels, transformers, and switchgear.  The emergency generator and a couple of pump VFDs are nearing their the end of their industry life expectancy and are anticipated to need replacement soon. The fire alarm system dates to 2017. Interior lighting consists mostly of fluorescent fixtures. Exterior lighting is made up of a mixture of fluorescent, incandescent, and LED lights  There exists only one incandescent light fixture that requires upgrade to LED.   |
| HVAC Systems   |
| The building's heating, ventilation, and air conditioning (HVAC) system consists of a hot water system, five rooftop units, and baseboard radiant heaters. Additional HVAC equipment includes exhaust fans and cabinet unit heaters. Several pieces of HVAC equipment including unit heaters, exhaust fans and hoods, hot water pumps, and the five rooftop units have either reached or surpassed their life expectancies and should be replaced within the next 1-5 years. The four VFDs will require replacement in 6-14 years. Heating Water System Pumps 1-4 date to 2003 and are expected to require replacement within 4-5 years. The two boilers are not expected to require replace for 15 years.  Plumbing |
| Domestic hot water is provided by four (4) natural gas fired water heater, three of which were installed in 2003 and the fourth installed in 2017. The water heaters installed in 2003 have surpassed their life expectancy, and are anticipated to need replacement soon. Additional plumbing equipment includes backflow preventers, expansion tanks, and pumps.   |

#### **Fire Suppression**

Fire protection consists of a wet type fire sprinkler system estimated to have been installed in 2017.

#### **Equipment**

N/A

#### **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.

#### Centennial HS

#### **Asphalt Shingle Replacement**

Both the East and West buildings have sloped roofs with Asphalt Shingles. These shingles are reaching the end of their designed lifespans and replacement should be considered in the near future.

The following assets are included within this measure:

FCAID - 150023, FCA - 150024





Priority Level: 3
Estimated Cost: \$127,090
Remaining Life: 1 Year

#### **Internal Gutter on Original Sloped Roof**

As part of the original roof design, an internal gutter was installed. It is presumed that as part of the latest re-roofing (with asphalt shingles) the flashing of this internal gutter was reviewed, repaired, and updated. As part of the re-roofing of the asphalt shingles (due to their lifespan) the internal gutter should once again be reviewed and repaired as needed. (similar to the adjacent Asphalt Shingles)

The following assets are included within this measure:

FCAID - 150020





Priority Level: 3
Estimated Cost: TBD
Remaining Life: 1 Year

#### **Upgrade Interior and Exterior Lighting**

Interior lighting mostly consists of fluorescent lighting retrofitted in 2012. Exterior lighting is made up, in part, of incandescent or fluorescent fixtures t

. Consider upgrading the interior and

exterior lighting to LED fixtures to reduce energy costs and maintenance needs.

The following assets are included within this measure:

FCAID-150144, FCAID-150179





Priority Level: 2
Estimated Cost: \$393,630
Remaining Life: 10 Years

#### **Replace Rooftop Units**

The five rooftop units were installed in 2003, have surpassed their life expectancies, and should be replaced within the next five years.



The following assets are included within this measure:

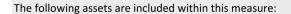
FCAID-150133, FCAID-150134, FCAID-150135, FCAID-150136, FCAID-150137



Priority Level: 2
Estimated Cost: \$385,620
Remaining Life: 5 Years

#### **Replace Hot Water Pumps**

The hot water pumps have reached the end of their life expectancy and are anticipated to need to be replaced within the next four years.



FCAID-150099, FCAID-150100, FCAID-150101, FCAID-150102





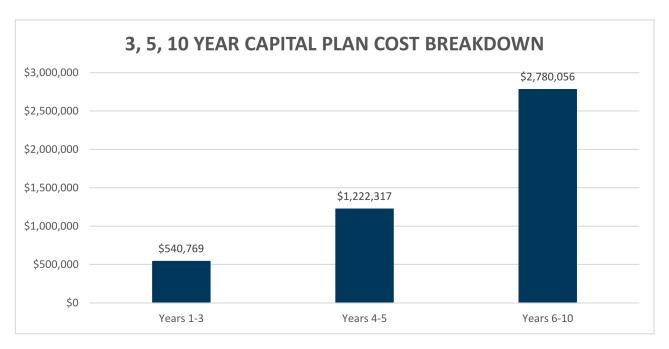
Priority Level: 2
Estimated Cost: \$47,600

Remaining Life: 4 Years

#### **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**

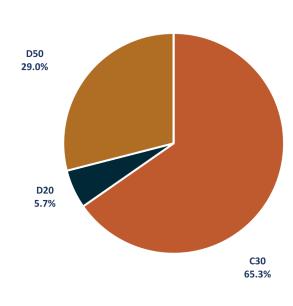
The table below displays replacement costs for the campus, and the number of associated assets expected to fail within the next ten years. Assets requiring replacement or extensive maintenance in this plan are presented in Appendices A, B, and C.

| REPLACEMENT PERIOD | ASSET QUANTITY | CUMULATIVE<br>REPLACEMENT COST |  |
|--------------------|----------------|--------------------------------|--|
| 3-Year Plan        | 5              | \$540,769                      |  |
| 5-Year Plan        | 75             | \$1,222,317                    |  |
| 10-Year Plan       | 34             | \$2,780,056                    |  |
| Total              | 114            | \$4,543,142                    |  |

#### **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 \$540,769. The specific assets that will reach end of life in this period are listed in Appendix A.

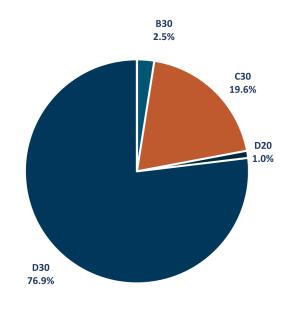
| SUBSYSTEM                | Years 1-3 | Percent |
|--------------------------|-----------|---------|
| A10 - Foundations        | \$0       | 0%      |
| B10 - Superstructure     | \$0       | 0%      |
| B20 - Exterior Enclosure | \$0       | 0%      |
| B30 - Roofing            | \$0       | 0%      |
| C10 - Int. Construction  | \$0       | 0%      |
| C20 - Stairs             | \$0       | 0%      |
| C30 - Interior Finishes  | \$353,218 | 65%     |
| D10 - Conveying          | \$0       | 0%      |
| D20 - Plumbing           | \$30,713  | 6%      |
| D30 - HVAC               | \$0       | 0%      |
| D40 - Fire Protection    | \$0       | 0%      |
| D50 - Electrical         | \$156,838 | 29%     |
| 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 \$1,222,317. The specific assets that will reach end of life in this period are listed in Appendix A.

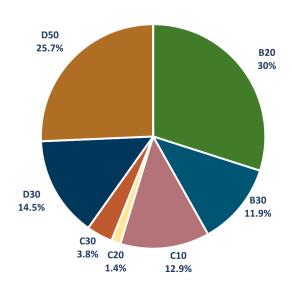
| SUBSYSTEM                | Years 4-5 | Percent |
|--------------------------|-----------|---------|
| A10 - Foundations        | \$0       | 0%      |
| B10 - Superstructure     | \$0       | 0%      |
| B20 - Exterior Enclosure | \$0       | 0%      |
| B30 - Roofing            | \$30,535  | 2%      |
| C10 - Int. Construction  | \$0       | 0%      |
| C20 - Stairs             | \$0       | 0%      |
| C30 - Interior Finishes  | \$238,991 | 20%     |
| D10 - Conveying          | \$0       | 0%      |
| D20 - Plumbing           | \$12,740  | 1%      |
| D30 - HVAC               | \$940,052 | 77%     |
| D40 - Fire Protection    | \$0       | 0%      |
| D50 - Electrical         | \$0       | 0%      |
| E10 - Equipment          | \$0       | 0%      |
| G20 - Site Improvements  | \$0       | 0%      |
| G40 - Site Electrical    | \$0       | 0%      |



#### **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 \$2,780,056. 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 | \$832,080  | 30%     |
| B30 - Roofing            | \$331,479  | 12%     |
| C10 - Int. Construction  | \$357,534  | 13%     |
| C20 - Stairs             | \$37,669   | 1%      |
| C30 - Interior Finishes  | \$104,656  | 4%      |
| D10 - Conveying          | \$0        | 0%      |
| D20 - Plumbing           | \$0        | 0%      |
| D30 - HVAC               | \$402,800  | 14%     |
| D40 - Fire Protection    | \$0        | 0%      |
| D50 - Electrical         | \$713,838  | 26%     |
| E10 - Equipment          | \$0        | 0%      |
| G20 - Site Improvements  | \$0        | 0%      |
| G40 - Site Electrical    | \$0        | 0%      |



#### **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   |

#### **PRIORITY SCORE SUMMARY - CENTENNIAL HS**

|                         | CENTENNIAL HS  |                   |  |  |  |
|-------------------------|--|-------------------|--|--|--|
|                         | BUILDING TYPE: Hig   | h School          |  |  |  |
|                         | YEAR BUILT:  | 1955              |  |  |  |
|                         |  | 39,967            |  |  |  |
|                         |  | , 6, 2023         |  |  |  |
|                         | PRIORITY SCORE:  | 15.9              |  |  |  |
| SUBSYSTEM:              | DESCRIPTION  | PRIORITY<br>SCORE |  |  |  |
|                         | This facility consists of two (2) construction styles. The first is the original building (dated 1906) which is a load bearing masonry structure that uses brick and stone elements.  The second   |                   |  |  |  |
| B20 - Ext. Enclosure    | construction type is newer (1999) and consists of masonry cavity walls (brick and CMU) with some pre-cast concrete feature elements. Exterior glazing is primarily metal clad wood windows with some metal framed windows at entry elements.   | 12.9              |  |  |  |
| B30 - Roofing           | Both buildings have asphalt shingles and ballasted roofing. The original building has a built in "hidden" gutter system that requires extensive maintenance to avoid leaks. The new sloped roofing with asphalt shingles drains to a typ. gutter and downspout system. The flat roofing portions with ballasted roofing have internal drains with exterior overflow scuppers.  | 14.0              |  |  |  |
|                         |  |                   |  |  |  |
| C10 - Int. Construction | Interior Finishes in the Eastern newer construction are primarily drywall walls with ACT ceilings and carpeted flooring. The Western building has CMU walls with open ceilings (or decorative features) and concrete/tile/athletic flooring. The original building's interior finishes are plaster   | 12.2              |  |  |  |
| C30 - Interior Finishes | walls, drywall/ACT ceilings and carpeted flooring. There are locations where the original hardwood flooring is exposed. The connection between the original building and the new addition has exposed brickwork and wood trim. The Eastern building (new and original) has extensive exposed interior staircases with wooden handrails and wood wainscotting.  |                   |  |  |  |
| D20 - Plumbing          | Domestic hot water is provided by four (4) natural gas fired water heater, three of which were installed in 2003 and the fourth installed in 2017. The water heaters installed in 2003 have surpassed their life expectancy, and are anticipated to need replacement soon. Additional plumbing equipment includes backflow preventers, expansion tanks, and pumps.   | 12.7              |  |  |  |
|                         | The building 5 heating, ventilation, and all conditioning (TVAC) system consists of a not water  |                   |  |  |  |
| D30 - HVAC              | system, five rooftop units, and baseboard radiant heaters. Additional HVAC equipment includes exhaust fans and cabinet unit heaters. Several pieces of HVAC equipment including unit heaters, exhaust fans and hoods, hot water pumps, and the five rooftop units have either reached or surpassed their life expectancies and should be replaced within the next 1-5 years. The four VFDs will require replacement in 6-14 years. Heating Water System Pumps 1-4 date to 2003 and are expected to require replacement within 4-5 years. The two boilers are not expected to require replace for 15 years. | 16.2              |  |  |  |
| D40 - Fire Suppression  | Fire protection consists of a wet type fire sprinkler system estimated to have been installed in 2017.   | 20.0              |  |  |  |
| D50 - Electrical        | The building's electrical distribution equipment consists of 480/277 panels, transformers, and switchgear.  The emergency generator and a couple of pump VFDs are nearing their the end of their industry life expectancy and are anticipated to need replacement soon. The fire alarm system dates to 2017. Interior lighting consists mostly of fluorescent fixtures. Exterior lighting is made up of a mixture of fluorescent, incandescent, and LED lights  There exists only one incandescent light fixture that requires upgrade to LED.   | 20.3              |  |  |  |
| 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. [ $\le$ 12 = green, 12-24 = yellow,  $\ge$ 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.

#### **CENTENNIAL HS**

| ASSET ID     | DESCRIPTION                     | SUBSYSTEM           | OBSERVED<br>Remaining<br>Life | REPLACEMENT<br>Cost | PRIORITY<br>Score |
|--------------|---------------------------------|---------------------|-------------------------------|---------------------|-------------------|
| FCAID-150147 | Emergency Back-up Lighting      | D50 - Electrical    | 2                             | \$152,270           | 26                |
| FCAID-150048 | Interior Floor Finishes: Carpet | C30 - Int. Finishes | 2                             | \$342,930           | 19                |
| FCAID-150067 | WH-3                            | D20 - Plumbing      | 3                             | \$9,650             | 14                |
| FCAID-150068 | WH-4                            | D20 - Plumbing      | 3                             | \$9,650             | 14                |
| FCAID-150065 | WH-1                            | D20 - Plumbing      | 3                             | \$9,650             | 14                |

## 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.

#### **CENTENNIAL HS**

| ASSET ID     | DESCRIPTION                    | SUBSYSTEM           | OBSERVED<br>Remaining<br>Life | REPLACEMENT<br>Cost | PRIORITY<br>Score |
|--------------|--------------------------------|---------------------|-------------------------------|---------------------|-------------------|
| FCAID-150133 | RTU-1                          | D30 - HVAC          | 5                             | \$160,160           | 20                |
| FCAID-150137 | RTU-5                          | D30 - HVAC          | 5                             | \$47,000            | 18                |
| FCAID-150134 | RTU-2                          | D30 - HVAC          | 5                             | \$72,910            | 18                |
| FCAID-150135 | RTU-3                          | D30 - HVAC          | 5                             | \$60,130            | 18                |
| FCAID-150136 | RTU-4                          | D30 - HVAC          | 5                             | \$45,420            | 18                |
| FCAID-150100 | P-2                            | D30 - HVAC          | 4                             | \$11,900            | 15                |
| FCAID-150099 | P-1                            | D30 - HVAC          | 4                             | \$11,900            | 15                |
| FCAID-150101 | P-3                            | D30 - HVAC          | 4                             | \$11,900            | 15                |
| FCAID-150102 | P-4                            | D30 - HVAC          | 4                             | \$11,900            | 15                |
| FCAID-150066 | WH-2                           | D20 - Plumbing      | 4                             | \$9,650             | 14                |
| FCAID-150046 | Interior Ceiling Finishes: ACT | C30 - Int. Finishes | 5                             | \$168,610           | 14                |
| FCAID-150093 | RH-7                           | D30 - HVAC          | 5                             | \$11,810            | 13                |
| FCAID-150129 | FTR-302                        | D30 - HVAC          | 5                             | \$7,150             | 13                |
| FCAID-150082 | EF-8                           | D30 - HVAC          | 5                             | \$8,190             | 13                |
| FCAID-150103 | DHC-03-01                      | D30 - HVAC          | 5                             | \$3,500             | 13                |
| FCAID-150116 | FTR-R107                       | D30 - HVAC          | 5                             | \$7,150             | 13                |
| FCAID-150104 | DHC-03-02                      | D30 - HVAC          | 5                             | \$3,500             | 13                |
| FCAID-150090 | RH-4                           | D30 - HVAC          | 5                             | \$9,590             | 13                |
| FCAID-150105 | DHC-03-03                      | D30 - HVAC          | 5                             | \$2,000             | 13                |
| FCAID-150086 | IH-3                           | D30 - HVAC          | 5                             | \$6,210             | 13                |
| FCAID-150106 | DHC-04-04                      | D30 - HVAC          | 5                             | \$1,750             | 13                |
| FCAID-150131 | FTR-304                        | D30 - HVAC          | 5                             | \$7,150             | 13                |
| FCAID-150107 | DHC-04-05                      | D30 - HVAC          | 5                             | \$1,750             | 13                |
| FCAID-150122 | FTR-S213                       | D30 - HVAC          | 5                             | \$7,150             | 13                |

| FCAID-150108     | DHC-04-06                            | D30 - HVAC          | 5 | \$1,750  | 13 |
|------------------|--------------------------------------|---------------------|---|----------|----|
| FCAID-150088     | RH-2                                 | D30 - HVAC          | 5 | \$11,810 | 13 |
| FCAID-150109     | DHC-05-07                            | D30 - HVAC          | 5 | \$1,750  | 13 |
| FCAID-150080     | EF-6                                 | D30 - HVAC          | 5 | \$6,710  | 13 |
| FCAID-150110     | DHC-05-08                            | D30 - HVAC          | 5 | \$1,750  | 13 |
| FCAID-150084     | IH-1                                 | D30 - HVAC          | 5 | \$6,210  | 13 |
| FCAID-150111     | DHC-05-09                            | D30 - HVAC          | 5 | \$1,750  | 13 |
| FCAID-150128     | FTR-301                              | D30 - HVAC          | 5 | \$7,150  | 13 |
| FCAID-150112     | FTR-100                              | D30 - HVAC          | 5 | \$11,920 | 13 |
| FCAID-150087     | RH-1                                 | D30 - HVAC          | 5 | \$9,590  | 13 |
| FCAID-150113     | FTR-101                              | D30 - HVAC          | 5 | \$7,150  | 13 |
| FCAID-150115     | FTR-R103                             | D30 - HVAC          | 5 | \$7,150  | 13 |
| FCAID-150017     | Solar Tunnel                         | B30 - Roofing       | 5 | \$17,780 | 13 |
| FCAID-150117     | FTR-S211                             | D30 - HVAC          | 5 | \$7,150  | 13 |
| FCAID-150092     | RH-6                                 | D30 - HVAC          | 5 | \$11,810 | 13 |
| FCAID-150132     | FTR-S309                             | D30 - HVAC          | 5 | \$7,150  | 13 |
| FCAID-150071     | CUH-2                                | D30 - HVAC          | 5 | \$6,610  | 13 |
| FCAID-150094     | RH-8                                 | D30 - HVAC          | 5 | \$9,590  | 13 |
| FCAID-150073     | CUH-4                                | D30 - HVAC          | 5 | \$6,610  | 13 |
| FCAID-150089     | RH-3                                 | D30 - HVAC          | 5 | \$9,590  | 13 |
| FCAID-150076     | EF-2                                 | D30 - HVAC          | 5 | \$6,710  | 13 |
| FCAID-150091     | RH-5                                 | D30 - HVAC          | 5 | \$11,810 | 13 |
| FCAID-150078     | EF-4                                 | D30 - HVAC          | 5 | \$6,210  | 13 |
| FCAID-150114     | FTR-102                              | D30 - HVAC          | 5 | \$7,150  | 13 |
| FCAID-150074     | CUH-1                                | D30 - HVAC          | 5 | \$6,610  | 13 |
| FCAID-150118     | FTR-212                              | D30 - HVAC          | 5 | \$7,150  | 13 |
| FCAID-150072     | CUH-3                                | D30 - HVAC          | 5 | \$6,610  | 13 |
| FCAID-150119     | FTR-213                              | D30 - HVAC          | 5 | \$7,150  | 13 |
| FCAID-150075     | EF-1                                 | D30 - HVAC          | 5 | \$6,710  | 13 |
| FCAID-150120     | FTR-213B                             | D30 - HVAC          | 5 | \$7,150  | 13 |
|                  | EF-3                                 | D30 - HVAC          | 5 | \$6,210  | 13 |
| FCAID-150121     | FTR-213C                             | D30 - HVAC          | 5 | \$7,150  | 13 |
| FCAID-150079     | EF-5                                 | D30 - HVAC          | 5 | \$6,210  | 13 |
| FCAID-150123     | FTR-214                              | D30 - HVAC          | 5 | \$7,150  | 13 |
| FCAID-150081     | EF-7                                 | D30 - HVAC          | 5 | \$5,550  | 13 |
| FCAID-150124     | FTR-214B                             | D30 - HVAC          | 5 | \$7,150  | 13 |
| FCAID-150083     | EF-9                                 | D30 - HVAC          | 5 | \$6,210  | 13 |
| FCAID-150125     | FTR-214C                             | D30 - HVAC          | 5 | \$7,150  | 13 |
| FCAID-150085     | IH-2                                 | D30 - HVAC          | 5 | \$6,210  | 13 |
| FCAID-150126     | FTR-215                              | D30 - HVAC          | 5 | \$7,150  | 13 |
| FCAID-150127     | FTR-300                              | D30 - HVAC          | 5 | \$7,150  | 13 |
| FCAID-150130     | FTR-303                              | D30 - HVAC          | 5 | \$7,150  | 13 |
| FCAID-150053     | Interior Floor Finishes: Sheet Vinyl | C30 - Int. Finishes | 5 | \$42,070 | 12 |
| FCAID-150139     | UH-2                                 | D30 - HVAC          | 5 | \$3,520  | 12 |
| FCAID-150140     | UH-3                                 | D30 - HVAC          | 5 | \$4,520  | 12 |
| FCAID-150054     | Interior Floor Finishes: VCT         | C30 - Int. Finishes | 5 | \$1,660  | 11 |
| FCAID-150095     | ET-1                                 | D30 - HVAC          | 5 | \$18,250 | 10 |
| 1. 5, 115 130033 | -· -                                 | DOD TIVAC           | , | 710,230  | 10 |

| FCAID-150069 | AS-1           | D30 - HVAC     | 5 | \$9,870 | 10 |
|--------------|----------------|----------------|---|---------|----|
| FCAID-150059 | ET-1           | D20 - Plumbing | 5 | \$1,950 | 10 |
| FCAID-150015 | Roofing: Hatch | B30 - Roofing  | 5 | \$9,350 | 10 |
| FCAID-150098 | Gas Meter      | D30 - HVAC     | 5 | \$3,430 | 10 |

## 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.

#### **CENTENNIAL HS**

| ASSET ID     | DESCRIPTION                                   | SUBSYSTEM             | OBSERVED<br>Remaining<br>Life | REPLACEMENT<br>Cost | PRIORITY<br>Score |
|--------------|---|-----------------------|-------------------------------|---------------------|-------------------|
| FCAID-150146 | Fire Alarm System                             | D50 - Electrical      | 9                             | \$311,480           | 21                |
| FCAID-150165 | Security System                               | D50 - Electrical      | 9                             | \$152,270           | 18                |
| FCAID-150070 | Building Automation System                    | D30 - HVAC            | 6                             | \$342,520           | 17                |
| FCAID-150143 | Emergency Generator                           | D50 - Electrical      | 7                             | \$84,540            | 16                |
| FCAID-150018 | Roofing: Ballasted Rolled Asphalt             | B30 - Roofing         | 6                             | \$116,620           | 15                |
| FCAID-150023 | Roofing: Asphalt Shingle (1906 Building)      | B30 - Roofing         | 6                             | \$73 <i>,</i> 780   | 14                |
| FCAID-150038 | Interior doors: Wood, Single (1906)           | C10 - Int. Construct. | 10                            | \$120,160           | 14                |
| FCAID-150024 | Roofing: Asphalt Shingle (2004 Building)      | B30 - Roofing         | 6                             | \$53,310            | 14                |
| FCAID-150052 | Interior Floor Finishes: Tile                 | C30 - Int. Finishes   | 6                             | \$50,020            | 13                |
| FCAID-150003 | Exterior Walls : Stone                        | B20 - Ext. Enclosure  | 10                            | \$241,300           | 13                |
| FCAID-150007 | Exterior Walls: Brick (1906)                  | B20 - Ext. Enclosure  | 10                            | \$339,760           | 13                |
| FCAID-150044 | Stairs (1906)                                 | C20 - Stairs          | 10                            | \$28,870            | 13                |
| FCAID-150019 | Roofing: Gutter                               | B30 - Roofing         | 6                             | \$5,200             | 13                |
| FCAID-150022 | Roofing: Roof Ladder                          | B30 - Roofing         | 6                             | \$5,830             | 13                |
| FCAID-150021 | Roofing: Metal Flashing                       | B30 - Roofing         | 6                             | \$13,020            | 13                |
| FCAID-150142 | ATS-1   | D50 - Electrical      | 6                             | \$4,300             | 12                |
| FCAID-150138 | UH-1  | D30 - HVAC            | 9                             | \$4,520             | 11                |
| FCAID-150176 | VFD P-3                                       | D50 - Electrical      | 6                             | \$5,480             | 11                |
| FCAID-150028 | Interior Wall: Plaster (1906)                 | C10 - Int. Construct. | 10                            | \$111,100           | 11                |
| FCAID-150020 | Roofing: Gutter (1906 Building)               | B30 - Roofing         | 10                            | \$5,380             | 11                |
| FCAID-150050 | Interior Ceiling Finishes: Open Ceiling (Pair | C30 - Int. Finishes   | 6                             | \$2,440             | 11                |
| FCAID-150014 | Exterior Windows: Wood                        | B20 - Ext. Enclosure  | 10                            | \$9,320             | 11                |
| FCAID-150016 | Skylight - Small                              | B30 - Roofing         | 10                            | \$10,770            | 11                |
| FCAID-150174 | VFD P-1                                       | D50 - Electrical      | 6                             | \$5,480             | 11                |

| FCAID-150144 | Exterior Lighting: Suspended (1906)      | D50 - Electrical      | 10 | \$610    | 10 |
|--------------|--|-----------------------|----|----------|----|
| FCAID-150177 | VFD P-4                                  | D50 - Electrical      | 9  | \$5,480  | 10 |
| FCAID-150002 | Exterior Walls : Cornice                 | B20 - Ext. Enclosure  | 10 | \$38,610 | 10 |
| FCAID-150055 | Interior Floor Finishes: Hardwood (1906) | C30 - Int. Finishes   | 10 | \$16,540 | 10 |
| FCAID-150032 | Interior Wall: Brick (1906)              | C10 - Int. Construct. | 10 | \$35,070 | 10 |
| FCAID-150013 | Exterior Walls : Wood (1906)             | B20 - Ext. Enclosure  | 10 | \$4,350  | 9  |
| FCAID-150042 | Interior Wall Finishes: Wood (1906)      | C10 - Int. Construct. | 10 | \$5,230  | 9  |
| FCAID-150047 | Interior Ceiling Finishes: Tile          | C30 - Int. Finishes   | 10 | \$17,060 | 9  |
| FCAID-150004 | Exterior Windows: Stucco (1906)          | B20 - Ext. Enclosure  | 10 | \$4,380  | 9  |
| FCAID-150034 | Interior Wall: Guardrail (1906)          | C10 - Int. Construct. | 10 | \$2,460  | 9  |