

PUBLIC LIBRARY

PIKES
PEAK
LIBRARY
DISTRICT
FACILITIES MASTER PLAN

FINAL SUBMITTAL | 10.2024

PIKES PEAK
LIBRARY DISTRICT
FACILITIES
MASTER
PLAN



SUBMITTAL

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DATE

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PREPARED FOR

Pikes Peak Library District

PREPARED BY

HB&A-ReThinking Libraries-Farnsworth Group

Table of Contents

EXECUTIVE SUMMARY

ES.1 Purpose	ES.1
ES.2 Main Priorities	ES.2
ES.3 Recommendations.....	ES.2

INTRODUCTION

1.1 Community Background.....	2
1.2 Purpose	3
1.3 Planning Process.....	3
1.4 Planning Priorities	4
1.5 PPLD Governance Structure.....	5

COMMUNITY INPUT

2.1 Community Survey.....	6
2.2 Community Sessions	12
2.3 Staff Sessions and Survey	13

SITE ASSESSMENTS

3.1 Branch, User, and Population Data	18
3.2 Demographic and Location Analysis.....	20
3.3 Outlet Utilization Analysis.....	29
3.4 Benchmark Analysis.....	31
3.5 Facility Condition Assessment.....	33

BRANCH ASSESSMENTS

4.1 Library Assessments Overview.....	48
4.2 Mobile Library Services.....	65
4.3 Alternative Delivery Models.....	66

RECOMMENDATIONS

5.1 Facility Guiding Principles.....	67
5.2 Facility Condition Assessment and Energy Recommendations	68
5.3 Program and System Recommendations.....	70

APPENDICES

Acronyms and Abbreviations.....	77
References and Acknowledgments	79
PPLD Staff and Community Surveys.....	81
PPLD FCA Prioritized Requirements (attached separately)	
Energy Assessment Findings (attached separately)	

FIGURES

Figure 1.1 PPLD FMP Timeline.....	4
Figure 2.1 PPLD's Most Frequently Branches	7
Figure 2.2 PPLD's Most Positive Impressions	8
Figure 2.3 PPLD's Least Positive Impressions	8
Figure 2.4 Top Reasons for Using the Library	9
Figure 2.5 Most Important Library Features.....	10
Figure 2.6 Least Important Library Features.....	10
Figure 2.7 Most Important Library Services.....	11
Figure 2.8 Least Important Library Services.....	11
Figure 2.9 Current Positive Library Impressions	15

Figure 2.10 Current Less Favorable Library Im- pressions.....	15
Figure 2.11 Most Important Library Facility Fea- tures.....	16
Figure 2.12 Least Important Library Facility Fea- tures	16
Figure 2.13 Most Important Library Services....	17
Figure 2.14 Least Important Library Services ...	17
Figure 3.1 All Users Population Density	21
Figure 3.2 Top 10% Users Population Density...22	
Figure 3.3 Virtual Users Population Density	22
Figure 3.4 Number of Libraries within 15-Minute Drive	24
Figure 3.5 5-Minute Drive Time to Library	23
Figure 3.6 10-Minute Drive Time to Library	23
Figure 3.7 15-Minute Drive to Library	24
Figure 3.8 20-Minute Drive Time to Library.....24	
Figure 3.9 0.25 and 0.50-mile Walk Radius at Library 21C and Old Colorady City Library	26
Figure 3.10 2020 Population per Acre	27
Figure 3.11 2045 Population per Acre.....	27
Figure 3.12 2020 Area Deprivation Index State Score	28
Figure 3.13 Facility Baseline - 20-Year Capital Renewal Forecast (FCI = 0).....	38
Figure 3.14 Total Deferred Maintenance Cost by Facility 10-year Projection	39
Figure 3.15 Total Deferred Maintenance Cost by System Group 10-Year Projection..	40
Figure 3.16 10-Yr Capital Budget Forecast	42
Figure 4.1 Pikes Peak Library Distric Current Facility Locations.....	43
Figure 5.1 Scenario 1.....	74
Figure 5.2 Scenarios 2 and 3	74

TABLES

Table 2.1 Community Intercept Voting Results	12
Table 3.1 PPLD Branch Overview.....	19
Table 3.2 Full Building Average Busy-ness Rank- ing	30
Table 3.3 Adjusted Building Average Busy-ness Ranking.....	30
Table 3.4 Benchmark Analysis.....	31
Table 3.5 Benchmark Analysis, continued	32
Table 3.6 FCI Scale.....	36
Table 3.7 5-Year Projection for FCI of 0.09.....	37
Table 3.8 Deferred Maintenance Forecast by Deficiency Category	41
Table 3.9 Budget Forecast by Facility.....	43
Table 3.10 Energy Assessment Findings	45
Table 3.11 Energy Assessment Categories	47
Table 5.1 Scenario 1 - Level Funding.....	71
Table 5.2 Scenario 2 - Some Level Funding	73
Table 5.3 Scenario 3 - No Reductions.....	75

EXECUTIVE SUMMARY

PIKES PEAK LIBRARY DISTRICT

The Pikes Peak Library District Facilities Master Plan aims to provide a comprehensive framework to enhance and adapt library services and facilities in response to the dynamic needs of El Paso County. This Executive Summary offers an overview of the plan's purpose, main priorities, and key recommendations.

ES.1 PURPOSE

The Pikes Peak Library District (PPLD), originally established as the Free Public Library of Colorado Springs in 1905, has a rich history of serving and evolving alongside the Pikes Peak community. Over the past 119 years, PPLD has expanded its facilities and services to meet the diverse needs of its patrons, adding numerous libraries throughout the 1960s, 1970s, and 1980s. Significant milestones, such as the introduction of the bookmobile in the 1950s and the early integration of computers and internet resources in 1990s, reflect the District's commitment to innovation.

Today, PPLD operates a mix of urban, suburban, and rural libraries, catering to affluent and low-income communities alike. This diverse array of facilities ranges from historic buildings that honor the District's legacy to modern spaces designed for contemporary needs, including maker spaces and recording studios. As the Pikes Peak community continues to grow and

diversify, the demand for library resources has increased, presenting PPLD with the challenge of meeting the evolving expectations of a dynamic demographic while maintaining high-quality facilities.

To address these challenges, the Facilities Master Plan aims to align with PPLD's strategic focus by developing a comprehensive investment strategy for its facilities. This plan builds upon the District's 2023-2025 Strategic Plan, which articulates core values and principles. Through thorough assessments, stakeholder engagement, and demographic analysis, the Facilities Master Plan offers actionable recommendations for enhancing existing facilities, strategically allocating resources for future libraries, and fostering sustainable service delivery models. Ultimately, this initiative seeks to ensure that PPLD remains a vital and accessible resource for all members of the community in the decades to come.

ES.2 MAIN PRIORITIES

In March 2024, PPLD leadership engaged in a workshop to define the guiding priorities for the Facilities Master Plan. The primary focus emerged on four key areas:

- First, maintaining the overall size of the PPLD system, avoiding drastic growth or reduction;
- Second, ensuring that current and future library locations align with anticipated population trends;
- Third, strategically improving facilities with an emphasis on enhancing programming, safety, and staff efficiency;
- And finally, transitioning towards greater ownership of library branches to reduce reliance on leased spaces.

These priorities, along with data collected from the Facilities Condition Assessment, online survey, in-person intercept activities, and a series of community and staff engagement sessions, collectively drive the recommendations outlined in the plan, positioning PPLD to effectively meet community needs while fostering sustainable growth.

ES.3 RECOMMENDATIONS

The 15-year recommendations outlined in this FMP aim to strategically guide the Pikes Peak Library District into the future, balancing practical constraints with the District's ambitious goals. Given the challenges of limited funding, the planning team recognizes that tough decisions regarding library shifts or closures may be necessary to ensure the sustainability and effectiveness of the system. Currently, PPLD faces underfunding and uneven distribution of resources across El Paso County, which necessitates structural changes unless funding increases to meet or exceed Colorado's average.

ES.3.1 Guiding Principles

To effectively navigate these challenges, the consultant team first recommends that PPLD establish a set of guiding principles, perhaps similar to those inspired by the Columbus Metropolitan Library. These principles should be tailored to the unique needs of PPLD's libraries and emphasize key areas such as sustainability, innovation, flexibility, support for diverse literacy development, customer experience, and accessibility. By focusing on these principles, PPLD can inform future building design and renovation efforts, ensuring that facilities meet the evolving needs of the community. PPLD leadership, with input from the board, should engage in a process of refining these principles to guide the overall approach of the final plan, fostering greater consistency across PPLD facilities while remaining responsive to the distinct characteristics of each library location.

In addition to these guiding principles, the consultant team developed three possible scenarios for program and system recommendations, as well as the Facility Condition Assessment (FCA) recommendations. These scenarios are designed to outline a strategic approach for capital investments over the next 10 to 15 years that go beyond maintaining the condition of the current PPLD facilities, but also enhance and expand their capabilities. Each scenario considers varying levels of investment and prioritization.

ES.3.2 Facilities Condition Assessment Recommendations

The Facility Condition Assessment (FCA) recommends that PPLD develop a comprehensive strategy for capital planning that encompasses both owned and leased facilities, aligned with the organization's strategic mission and integrated into the annual budget cycle. Key recommendations include addressing a projected \$20.7 million in deferred maintenance over the next ten years by budgeting approximately \$1.2 million annually to achieve a Facility Condition Index (FCI) of 0.10, effectively reducing deferred maintenance to \$10.7 million. The implementation plan outlines short-term actions to address immediate maintenance needs, mid-term evaluations of actual spending against projections that ultimately lead to an improved database, spending projections, and budget cycle that includes capital spending for maintaining the built infrastructure, and long-term tracking

of capital expenditures to continue database improvement and spending projections over time. The consultant team recommends regular reassessments every 5-7 years. This will ensure that the capital plan remains relevant and responsive to changing conditions and funding needs, thereby enhancing the overall infrastructure of PPLD facilities.

ES.3.3 Energy Recommendations

The energy assessment conducted by the consultant team yields several key recommendations for PPLD aimed at improving energy efficiency and reducing costs. First, it is recommended that PPLD evaluate and upgrade its existing fluorescent lighting systems in compliance with the Colorado Clean Lighting Act, which takes effect January 1, 2025. Additionally, the establishment of an energy master plan is advised to guide efforts in reducing utility consumption, costs, and regulatory compliance. Following the Energy Management Association (EMA) guidelines, the plan should include phases for assessment, exploration, investigation, analysis, implementation, acceptance, and ongoing management of energy-saving measures. Specifically, implementing Category 2 recommendations—such as retro-commissioning (RCx) and energy audits for key facilities—will likely yield the most significant energy savings. If these options prove cost-prohibitive, the team suggests prioritizing individual measures from Category 3 based on their capital costs and potential impacts. The consultant team recommends aligning energy measures with existing facility repair or replacement projects, PPLD can achieve cost efficiencies through bundled approaches, enhancing both operational performance and energy management across its facilities.

ES.3.4 Program and System Recommendations

The following section present three scenarios for capital investments in PPLD over the next 10-15 years.

Scenario 1

Scenario 1 assumes that PPLD will maintain its current level of per capita funding, necessitating difficult choices to ensure long-term sustainability and balance services across the community. Under this scenario, the District would close the Ruth Holley and Rockrimmon libraries, redirecting resources and staff to other branches, while potentially considering

the closure of Cheyenne Library as a last resort. A new library location is proposed in the Powers Boulevard Corridor, with a target size of 15,000 to 20,000 square feet, ideally in a lease-to-own arrangement. Other recommendations include enhancing collections at Library 21c and East Library, relocating Monument Library to a district-owned space, and expanding High Prairie Library. Additionally, the plan includes implementing unstaffed, controlled-access models at several libraries to optimize service hours, while also renovating East and Sand Creek Library for improved efficiency and user experience. Overall, this scenario aims to increase total library space from 354,000 to 367,000 square feet, all while reducing operational costs. However, without increased funding, PPLD risks falling behind in meeting community needs and may struggle to expand its services in the future.

Scenario 2

In Scenario 2, PPLD proposes a modest increase in tax rates to bridge the funding gap with the average for similar Colorado libraries by 50%. This funding boost, raising per capita funding from \$51 to \$61, would generate approximately \$6.9 million annually, allowing for better resource allocation to meet space and service needs while maintaining the current number of library outlets. Key recommendations include closing Ruth Holley Library, adding a new 20,000-square-foot outlet in the Powers Boulevard Corridor, and relocating Monument, Rockrimmon, and Cheyenne Mountain Libraries to owned facilities. The scenario also suggests expanding High Prairie Library and implementing controlled access models at several locations to optimize staffing and service hours. Overall, this approach would increase total library space from 354,000 to 391,000 square feet while keeping operational costs stable, positioning PPLD to better address community growth and service demands in the coming years. It is worth noting that PPLD will still be in a deficit in terms of space and service compared to the average of other libraries in Colorado, but it would be falling behind less over time compared to Scenario 1.

Scenario 3

In Scenario 3, PPLD aims for a significant increase in tax rates to achieve the average funding level for comparable Colorado libraries. This proposed funding boost, increasing from \$51 to \$74 per capita, would generate approximately \$15.9 million annually, facilitating the maintenance of existing outlets

and allowing for enhanced service and space. Key initiatives include adding a new 25,000-30,000 square-foot outlet in the Powers Boulevard Corridor, keeping and renovating the Ruth Holley Library, and relocating the Monument and Rockrimmon Libraries to owned facilities. This scenario also emphasizes expanding existing libraries, implementing unstaffed, controlled access without reducing staffed hours, and maximizing service hours across all locations. Overall, total library space would increase from 354,000 to 415,000 square feet, improving operational efficiency and positioning PPLD for further growth. This scenario fully closes the funding gap with average Colorado libraries, aims to prevent further decline in service levels, and maintains alignment with community educational values.

Other Considerations

In addition to the primary recommendations, several innovative ideas and long-term initiatives emerged during the planning process that could enhance PPLD's financial sustainability, programming, and facilities. One significant opportunity is the potential redevelopment of the Penrose Library into a mixed-use facility, which could serve as a community anchor while maximizing the use of valuable downtown real estate. This approach has proven successful in cities like Chicago and Milwaukee, where libraries have been integrated into larger residential and retail developments, creating vibrant community hubs.

Additionally, exploring land acquisition and dedication policies could allow PPLD to secure sites for future libraries in tandem with local development, ensuring community members have access to essential amenities. There is also the potential for system consolidation with the nearby Security Public Library District, which could streamline operations and improve service delivery by reducing redundancy. Each of these considerations offers pathways to strengthen PPLD's role in the community and address evolving needs effectively.

INTRODUCTION

BACKGROUND, PURPOSE, PROCESS, AND PRIORITIES

This chapter provides an overview of Pikes Peak Library District's (PPLD) significant milestones and initiatives and an explanation of the Facilities Master Plan (FMP). It outlines the plan's purpose and the planning process used to establish priorities, which serve as the framework for the District's future development.

1.1 COMMUNITY BACKGROUND

Pikes Peak Library District (known at the time as the Free Public Library of Colorado Springs) opened its first facility in 1905 on Kiowa Street. In the intervening 119 years, the District has grown and evolved with the Pikes Peak community, adding numerous libraries to the system, especially in the 1960s, 1970s, and 1980s. The types of services the District has provided also evolved, with the introduction of the bookmobile in the 1950s, the integration of computers in the 1980s, and early internet adoption in the 1990s. In the early 2000s, the District continued to innovate, integrating other internet resources, and building new types of maker spaces, recording studios, and other resources for the community.

Throughout its history serving the community, the District has relied upon its diverse facilities to connect to the populations it serves. Libraries are urban, suburban, and rural. Libraries are in affluent and low-income communities. Large libraries

consolidate a variety of services, and small libraries focus tightly on their neighborhood's needs. Some libraries are historic, evoking the proud heritage of the District, and some libraries are more modern, focusing on providing the latest tools, spaces, and resources to residents. In addition, while some of PPLD's facilities are owned, others are leased, reflecting the District's flexible approach to meeting the needs of its diverse communities.

As the Pikes Peak community continues to grow and diversify, the demand for library resources and services has also increased. The District now faces the challenge of meeting the needs and demands of a rapidly expanding and evolving demographic while also maintaining the quality of its facilities. This entails strategic planning, resource allocation, and community engagement efforts to ensure that PPLD remains a vital and accessible resource for all members of the community.

1.2 PURPOSE

The Facilities Master Plan is designed to align with PPLD's areas of focus (see inset) by developing a comprehensive investment strategy for its facilities. Building upon the District's 2023-2025 Strategic Plan, which articulates its core values, this facilities master plan endeavors to translate those principles into tangible initiatives for the District's facilities in the coming decades. Through meticulous assessments, active stakeholder engagement, and careful consideration of demographic trends, the plan offers recommendations to enhance current facilities, allocate current and future libraries across the service area, and foster sustainable service delivery models.

1.3 PLANNING PROCESS

The consultant team led a stakeholder engagement process designed to assess facilities and gather input on needs and desires. This inclusive approach ensured that community voices, as well as those of PPLD patrons and staff, were fully integrated into the planning process, reflecting the diverse spectrum of needs and preferences.

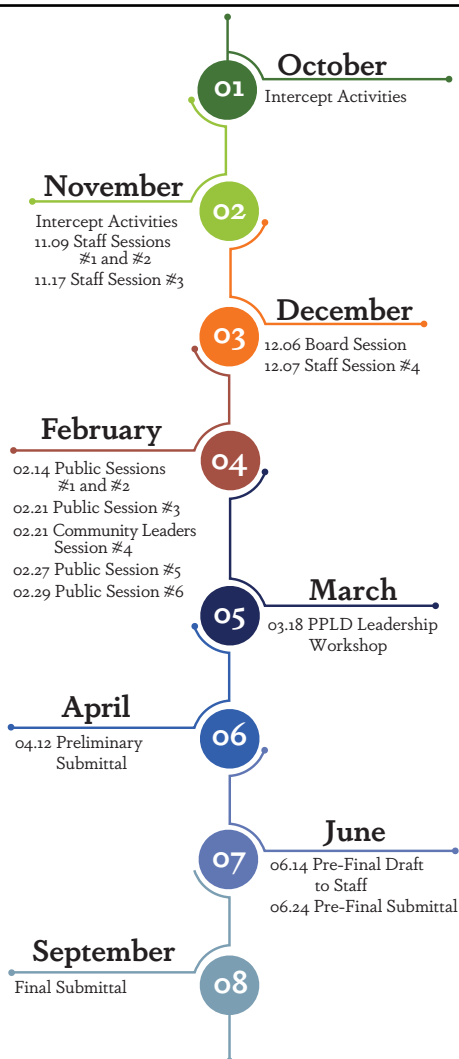
A site study for each location identified deficiencies or barriers to delivering existing library services, aligning with the District's 2023-2025 Strategic Plan objectives. This meticulous assessment included evaluating facility size, layout suitability for service delivery, compliance with codes and regulations, infrastructure integrity, storage capacity, and health and safety conditions, with a particular focus on the Americans with Disabilities Act (ADA) Title II compliance. In addition, potential enhancements to energy and resource conservation, along with overall sustainability, were identified, drawing insights from the Facility Condition Assessment (FCA) to inform actionable recommendations for improvement.

Furthermore, the planning process extensively analyzed demographic and population growth data from the city, county, and District, offering valuable insights and recommendations for optimal current and future library locations. Embracing innovative approaches, the plan also explored alternative delivery service models with the aim of providing services to patrons in a more sustainable and efficient manner for the Library District as a whole.

STRATEGIC PLAN: AREAS OF FOCUS

1. **Access:** PPLD is an access point for everyone to engage with resources, services, and spaces as they choose.
2. **Accountability:** PPLD is accountable to all stakeholders through fiscal responsibility, continuous evaluation, and by sharing findings with the public.
3. **Communications:** PPLD invests in and elevates community awareness of its resources, services, and spaces.
4. **Community Connections:** PPLD builds community through relationships and partnerships to connect people to relevant resources, services, and spaces.
5. **Physical and Virtual Spaces:** PPLD provides equitable access to physical and virtual spaces in safe and inclusive environments.
6. **Staff:** PPLD values, trusts, and invests in staff.

Figure 1.1 **Pikes Peak Library District Facilities Master Plan Timeline**



1.4 PLANNING PRIORITIES

In March 2024, the planning team facilitated a workshop with PPLD leadership to establish a sense of what this Facilities Master Plan should seek to optimize within the PPLD system. The group brainstormed possible factors that could drive the analysis and recommendations in this plan. The group then voted on which factors should be most highly prioritized. Those factors were summarized in the following guiding priorities for this plan:

- **Maintain Size** – PPLD is not looking to drastically grow or shrink the overall PPLD system.
- **Shift for the Future** – The locations of current and future PPLD libraries should suit future population patterns.
- **Improve Strategically** – Improvements should focus on programming, safety, and staff efficiency.
- **Own More Branches** – PPLD will look to shift more of its portfolio to owned rather than leased facilities.

Clockwise from top left: PPLD leadership engage in a prioritization analysis to pinpoint the District’s key driving forces.; Chief Librarian and CEO, Teona Shainidze-Krebs, participates in the PPLD leadership workshop.; Rob Cullin of ReThinking Libraries leads a staff engagement session to listen to the concerns and priorities of PPLD staff members, fostering open communication and collaborative problem-solving.



1.5 PPLD GOVERNANCE STRUCTURE

The District is considered a “Library District,” which is a separate legal entity, and was created through Colorado State Statute (C.R.S. 24-90-110). The District is not considered a component unit of any other government entity, including El Paso County, Colorado, and is financially, managerially, and operationally independent, and meets the guidelines outlined by the Governmental Accounting Standards Board.

Pikes Peak Library District has one component unit affiliation: Pikes Peak Library District Foundation, Inc. (a discretely presented component unit), which organized in 2003 to raise funds for the sole benefit of PPLD.

PPLD provides library services to all of El Paso County, excluding Security/Widefield School District #3, Security/Widefield and Manitou Springs did not join the Library District when it was formed in 1962. The city of Manitou Springs subsequently voted to join PPLD effective January 1, 2013.

There are 16 library facilities and three mobile libraries covering a service area of approximately 2,070 square miles. PPLD owns eight facilities: East Library, Calhan Library, Fountain Library, High Prairie Library, Library 21c, Old Colorado City Library, Penrose Library Campus, and Sand Creek Library. The District leases the other seven facilities: Cheyenne Mountain Library, Manitou Springs Library, Monument Library, Palmer Lake Library, Rockrimmon Library, Ruth Holley Library, and Ute Pass Library. Additionally, a mobile fleet delivers library services to remote sites and to special non-mobile populations.

PPLD’s 16 library facilities and mobile fleet are structured under the District’s Branch Administration team, which includes daily circulation, shelving, and security. The programming team is structured under a single Programming Administration umbrella and includes services previously identified as Adult Services, Family & Children’s Services, and Young Adult Services. The administrative offices and departments are comprised of the Chief Librarian and Chief Executive Officer (CEO), Communications (branding, marketing, video production, and community relations), Development, Security, Finance, and Support Services, as represented by Human Resources, Facilities, and Information Technology.

PPLD’s Board of Trustees consists of seven members from the community. The citizen volunteers are appointed jointly by the Colorado Springs City Council and El Paso County Commissioners for a maximum of two five-year terms. The Trustees convene at regular meetings, as well as at special meetings, when necessary, to conduct the business of PPLD. Trustees are prohibited by law from receiving compensation, and their duties and responsibilities are defined in law (C.R.S. 24-90-109).

The Pikes Peak Library District Board of Trustees are legally responsible for approving and adopting an annual budget by appropriating funds for district expenditures from the revenues and available fund balances of each fund to each fund by December 15 of each fiscal year. The annual budget is prepared by fund and department and serves as a foundation for PPLD’s financial planning and control. Management cannot overspend the originally ratified budget without the approval of the Board of Trustees. Additional spending, in excess of the original budget, is only permitted with the PPLD Board of Trustee’s approved revision(s) to the original budget.

Reference: Annual Comprehensive Financial Report, Pikes Peak Library District (2023)

COMMUNITY INPUT

EMPOWERING VOICES, BUILDING TOGETHER

A large component of the Facilities Master Plan was actively involving community members in discussions about their utilization, perceptions, and expectations of the District. To accomplish this, a multifaceted approach was adopted: an online survey, in-person intercept activities, and a series of community engagement sessions. Through these diverse channels, community members were provided with opportunities to share their experiences, preferences, and suggestions regarding Pikes Peak Library District.

2.1 COMMUNITY SURVEY

During the initial phase of data collection, community members were invited to participate in an online survey designed to address key aspects of their engagement with Pikes Peak Library District. The survey posed a series of questions aimed at gaining insights into library usage and preferences.

Participants were asked about the frequency of their interactions with PPLD, reasons for non-usage, and their preferences regarding library locations. In addition, respondents provided feedback on their most frequented library location, including their agreement with statements about its significance to the community. The survey also inquired into the motivations behind using PPLD services, the perceived importance of different library features and services, attendance at PPLD programs, channels through which participants learned about library programs and library card ownership. Demographic information was also col-

lected to ensure a comprehensive understanding of the survey respondents' backgrounds and contexts.

Methodology

- PPLD promoted the survey through a variety of channels including e-mails, social media, community events, outreach, and print marketing materials inside the libraries.
- Surveys were available in both print and digital formats and in English and Spanish.
- The response rate was excellent; 2,631 surveys were initiated, which was one of the higher responses the consultant team has seen for a community of PPLD's size.

Demographics

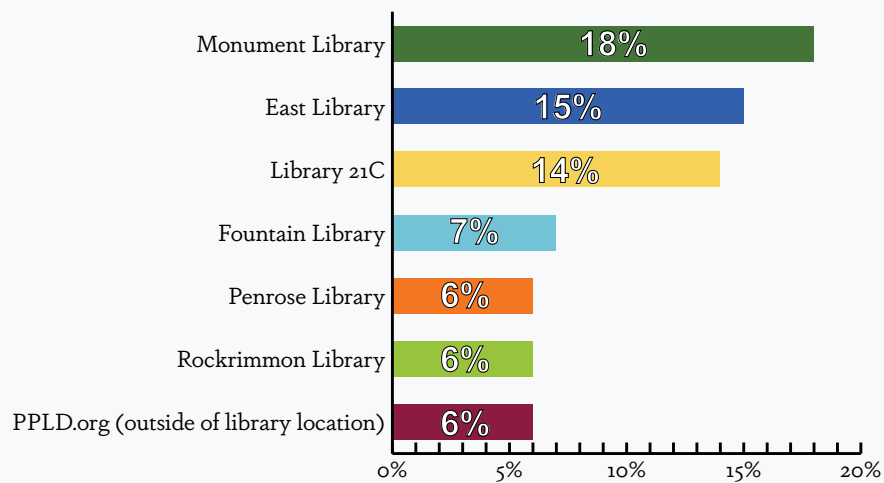
- More older members of the community responded (**28%** are 65 or older, which is double the community's demographics), but all ages were represented in the results.
- **Black** and **Hispanic** communities were significantly underrepresented in our responses versus the community demographics.
- Most respondents live in the District.
- **97%** of respondents have a library card.

Library Use

- Primarily library users (**3% non-users**).
- **66%** use a library weekly or more often.
- Many respondents utilize **multiple** library locations.
- See Figure 2.1, PPLD's Most Frequently Used Locations.

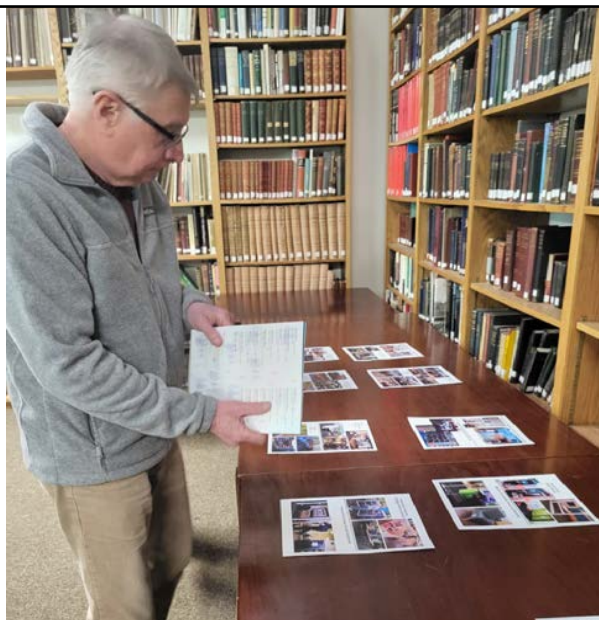
PPLD'S MOST FREQUENTLY USED LOCATIONS

FIGURE 2.1



From the graph, you can see that Monument Library, East Library, and Library 21C are the most utilized locations within the district. This may be because the libraries are centrally located, offer diverse services, and/or these locations host frequent programs and events that attract regular visitors.

ReThinking Libraries and HB&A facilitated public, in-person meetings as part of the process for developing the PPLD Facilities Master Plan. During these meetings, community members were encouraged to share their opinions on the current state of the District and to identify important services and features provided by their local libraries.



Community Library Opinions

Figures 2.2-2.8 illustrate the community’s opinions on the library’s most and least positive impressions, top reasons for using the library, the library’s most and least important features, and the library’s most and least important services.

Figures 2.2 and 2.3 illustrate the community’s opinions on positive and least positive impressions based on the branch they use most often. Participants were asked to rate specific statements on a scale from strongly agree to strongly disagree, with options for “don’t know”, “no opinion”, and “neither agree/disagree”.

PPLD’S MOST POSITIVE IMPRESSIONS

FIGURE 2.2

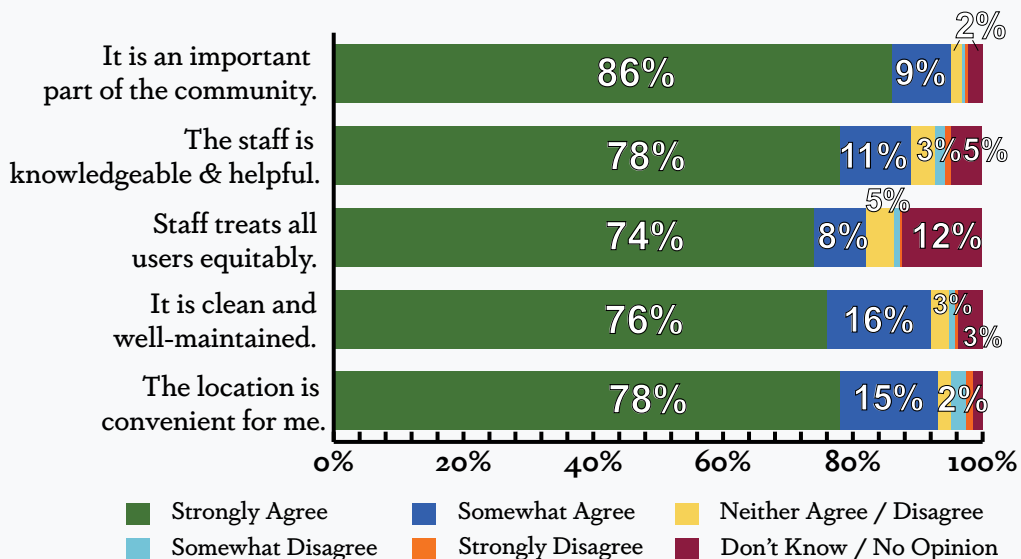


Figure 2.2 illustrates that a significant majority of community members perceive the Library as a vital component of the community. They also find the staff to be knowledgeable and helpful, treating users equitably. In addition, the facilities are noted to be clean, well-maintained, and conveniently located according to the perceptions of the majority of respondents.

PPLD’S LEAST POSITIVE IMPRESSIONS

FIGURE 2.3

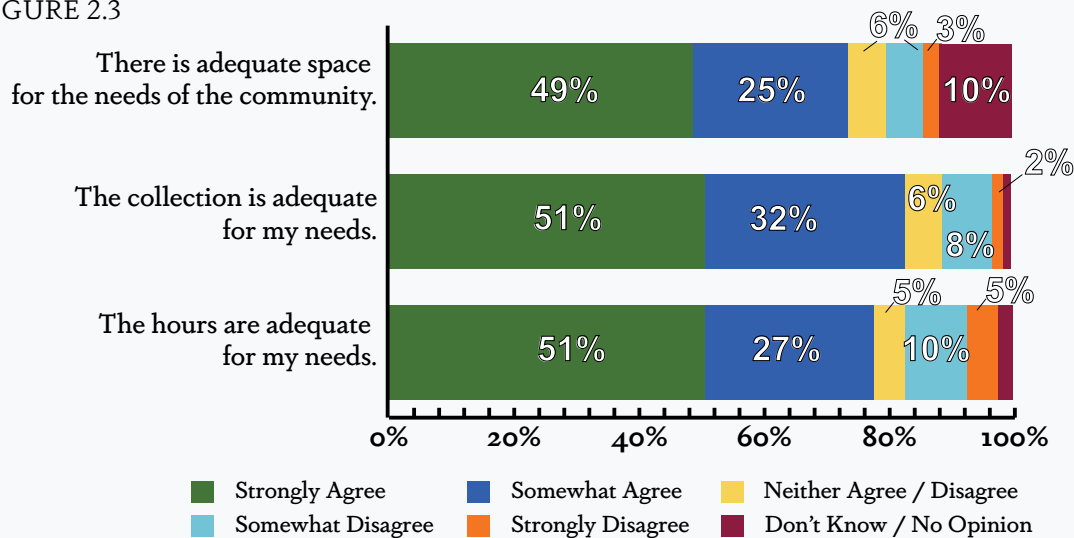


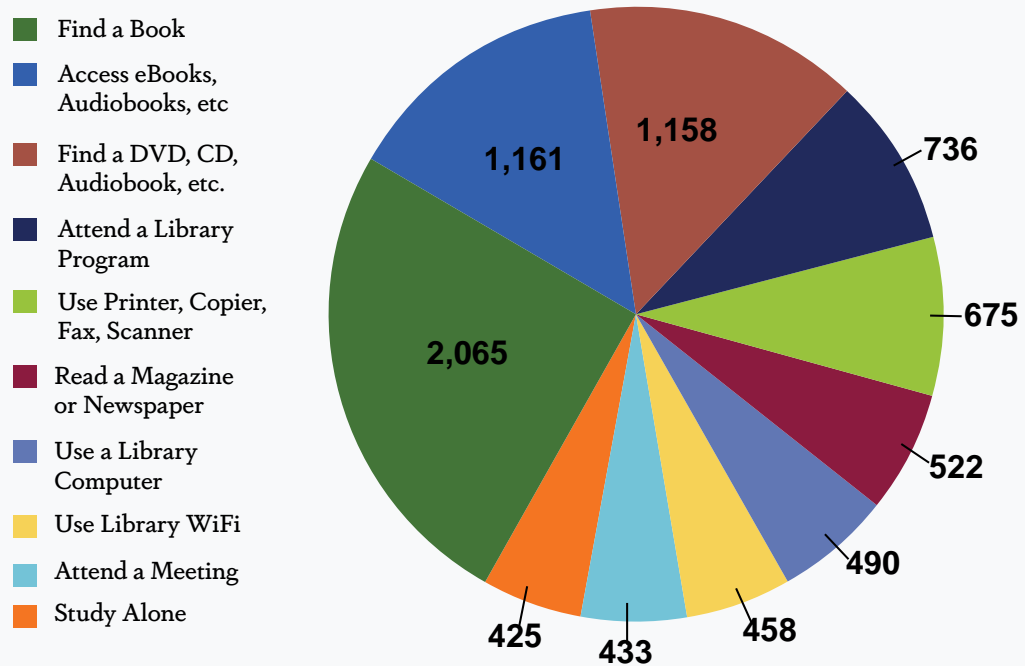
Figure 2.3 depicts a division among community perceptions regarding the adequacy of resources at PPLD facilities. Approximately half “strongly agree” but another 25-33% “agree”, so the total who feel that the library resources are adequate would be in the 75-82% range.

Top Reasons for Using the Library

Survey participants were asked to identify their primary reasons for utilizing the library, which ranged from traditional activities like finding a book to modern uses such as computer access and attending community meetings. The survey format allowed participants to check all applicable usages.

TOP REASONS FOR USING THE LIBRARY

FIGURE 2.4



The numbers on this chart represent the count of participants who chose each associated category. From the chart, it's evident that the majority of respondents primarily utilize the library to locate books, access eBooks or audiobooks, and find DVDs, CDs, or audiobooks. Activities such as using a library computer, accessing library Wi-Fi, attending meetings, and studying alone are comparatively less popular reasons for visiting the library.

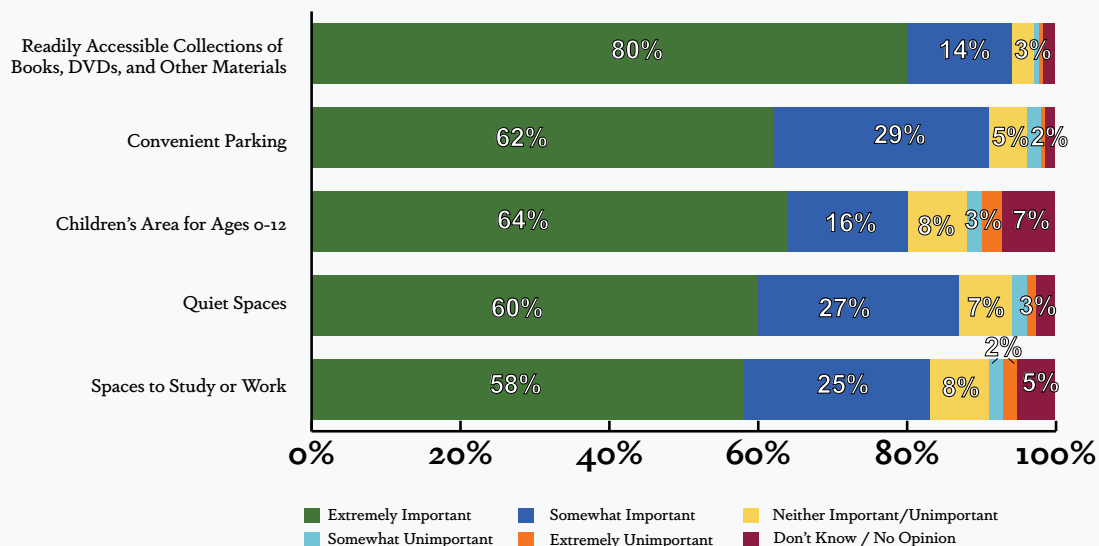
Library Features

Library features refer to the elements that enhance a library’s functionality and user experience. The survey primarily focused on amenities, technology, physical collections, and the types of spaces available to the community. Participants

were asked to rate various features on a scale from “extremely important” to “extremely unimportant,” with an additional space at the end for suggestions on what the consultant team may have overlooked or features they would like to see included. See Figures 2.5 and 2.6.

MOST IMPORTANT LIBRARY FEATURES

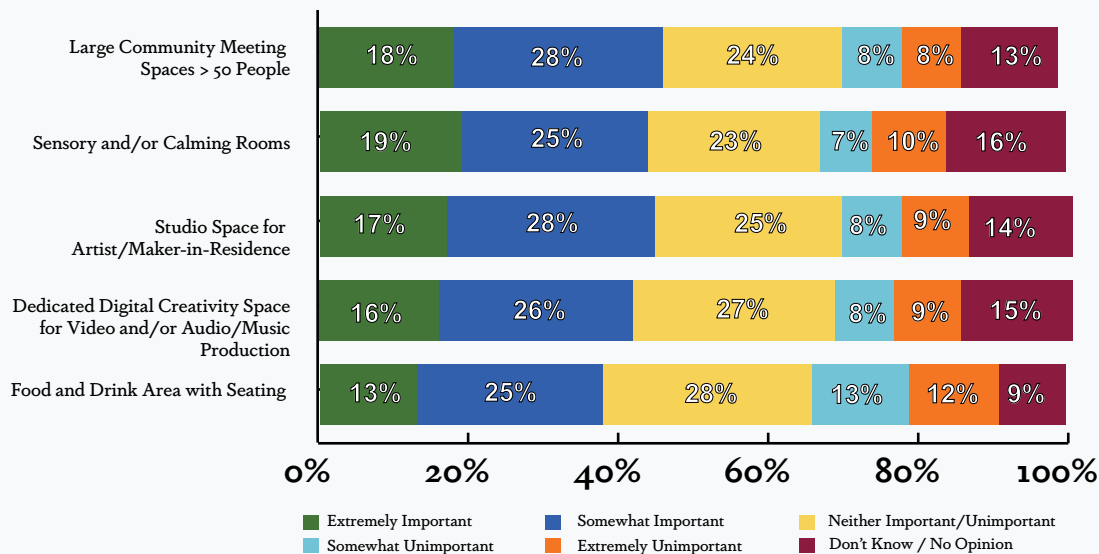
FIGURE 2.5



In Figure 2.5, the community’s perspectives on crucial library features in PPLD are depicted. The data reveals that a significant majority of respondents, at 80%, consider accessible collections to be extremely important. Similarly, convenient parking, children’s areas, quiet spaces, and areas designated for study or work are also deemed important, with 58-64% of participants rating these aspects as extremely important.

LEAST IMPORTANT LIBRARY FEATURES

FIGURE 2.6



In Figure 2.6, the community’s viewpoints on the least important library features in PPLD are presented. Generally, half of the respondent’s opinions ranged from “somewhat important” to “neither important nor unimportant” regarding topics such as large community meeting spaces, sensory and/or calming rooms, studio space for artists/makers, dedicated digital creativity spaces for video/audio/music production, and food and drink areas with seating.

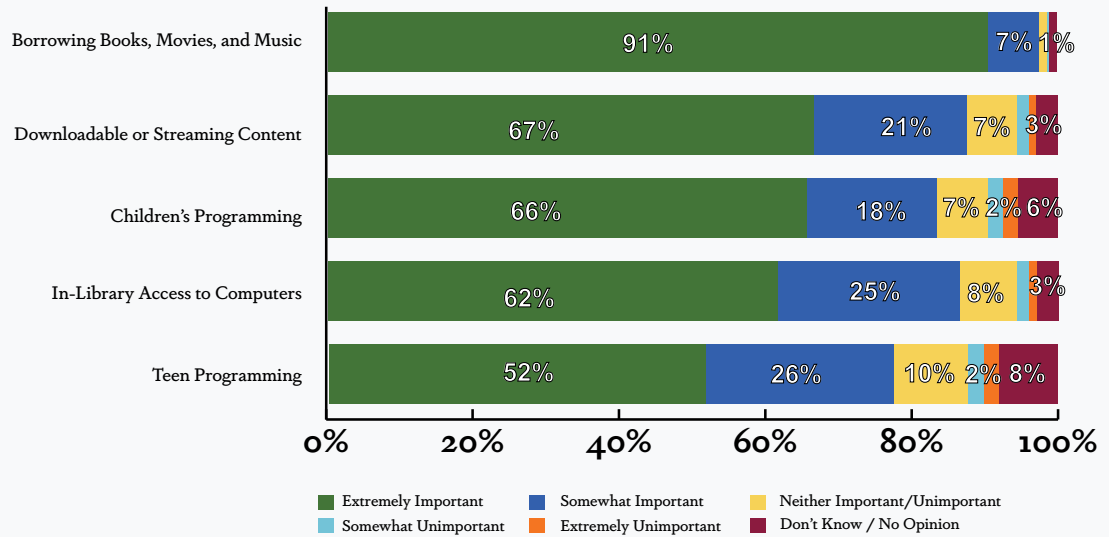
Library Services

Library services encompass the activities, resources, and support provided by staff to meet community needs. Participants rated various services on a scale from “extremely important” to “extremely unimportant,” with space at the end

for additional suggestions. The survey focused on the circulation of traditional and nontraditional materials, computer accessibility, programming, mobile services, and library hours. See Figures 2.7 and 2.8.

MOST IMPORTANT LIBRARY SERVICES

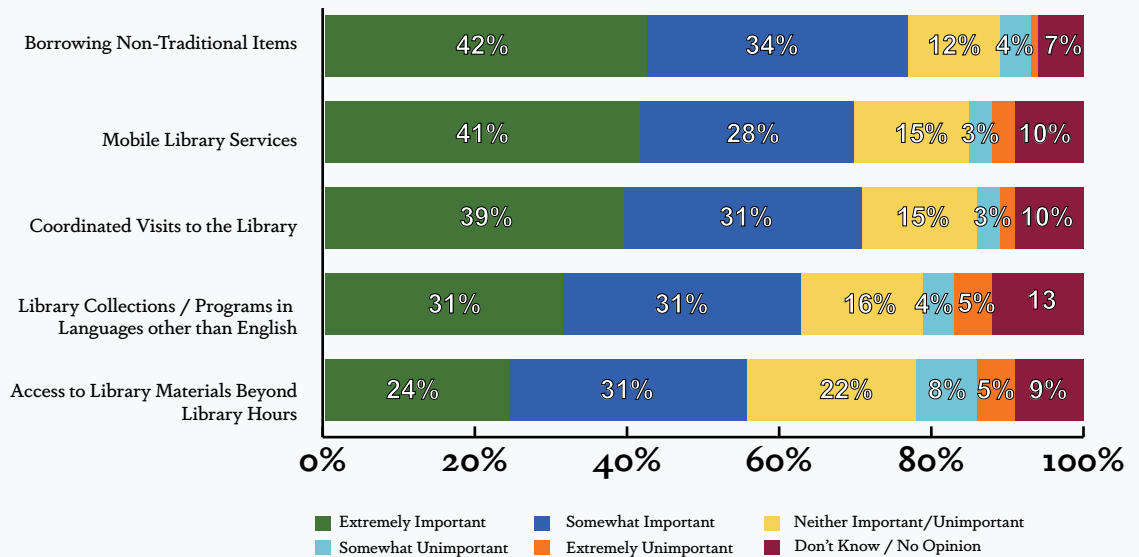
FIGURE 2.7



In Figure 2.7, 91% of respondents emphasized the extreme importance of borrowing books, movies, and music. Additionally, over half of survey participants expressed that downloadable or streaming content, children’s programming, and in-library access to computers are also extremely important. Roughly half indicated that teen programming holds extreme importance as well.

LEAST IMPORTANT LIBRARY SERVICES

FIGURE 2.8



In Figure 2.8, the community’s viewpoints on the least crucial library services in the district are showcased. The majority of respondents’ opinions fell within the range of “extremely important” to “somewhat important” regarding borrowing non-traditional items, mobile library services, coordinated visits to the library, library collections and programs in languages other than English, and access to library materials beyond library hours. Notably, the graph indicates that 12% to 22% of community members stated these services were “neither important nor unimportant” in each of these categories.

2.1.1 Intercept activities

In addition to the online survey, the Facilities Master Plan incorporated intercept activities as another form of community engagement. Intercept activities provided an opportunity for spontaneous interactions with patrons, offering deeper insights into their immediate thoughts and concerns regarding PPLD services and facilities.

2.1.2 Methodology

One such intercept activity was the “dot exercise,” where patrons were given a set number of dots to allocate across various categories, including services, programs, and types of spaces they currently enjoy or would like to see more of in PPLD facilities. This exercise enabled patrons to express their preferences and priorities, providing valuable input that influenced future planning decisions.

By engaging patrons in intercept activities like the dot exercise, the Facilities Master Plan team gained nuanced insights into community preferences and priorities, ensuring that plans for PPLD facilities align closely with the needs and desires of the patrons they serve.

2.1.3 What We Heard

In analyzing the results of the dot exercise, it became clear that community members have distinct priorities when it comes to PPLD facilities. The data indicates a strong preference for:

- Functional and flexible outdoor spaces, highlighting a desire for areas that can accommodate diverse programming and community gatherings.
- Creative and S.T.E.M.-related tools, resources, and supplies, reflecting a commitment to fostering innovation and artistic expression.
- Quiet spaces, underscoring the need for areas conducive to focused work.

Conversely, the results revealed that certain features, such as mobile and flexible furniture, smaller service points, remote drops, and active collaboration spaces, were less prioritized by the public. This feedback provides valuable insight for the Facilities Master Plan, ensuring that the development aligns with community aspirations while recognizing the aspects that are not currently seen as essential. Please see Table 2.9, Pikes Peak Library District Community Intercept Voting Results, for further information on results.

Table 2.1 PPLD Community Intercept Voting Results

TOPIC	TOTAL VOTES
Functional & Flexible (e.g., for programming) Outdoor Spaces	344
Creative & Arts Related Tools, Resources, & Supplies	329
S.T.E.M. Related Tools, Resources, & Supplies	305
Quiet Spaces	303
Small Group Study Rooms	248
Computer & Technology Resources, Support & Training	233
Updated & Comfortable Adult Spaces	217
Video or Audio Recording, Technology and Software	216
Expanded & Zoned Children's Space for Ages 0 - 7	205
Separate & Zoned Youth Space for Pre-Teens Ages 8 - 12	199
Gaming Equipment and/or E-Sports Equip. & Support	191
Improved Wayfinding & Signage	188
Readily Accessible Power & Charging	185
Dedicated Teen Spaces	171
Increased/Improved Patron Seating	167
Popular Library (New Materials) & Displays	161
Gallery, Resident, and/or Student Art Displays	148
Additional and/or Higher Capacity Program & Meeting Spaces	138
Improved Computer Configurations/ Laptops	108
Expanded 24/7 Materials Access (Lockers or Vending)	107
Active Collaboration Space(s)	95
Remote Book Drops Around Community	91
Smaller and More Inviting Service Points	74
Mobile & Flexible Furniture/Shelving	64
TOTAL VOTES CAST	4,487
Approx. No. of Voters	1,122

2.2 COMMUNITY SESSIONS

In February, the consultant team conducted a series of public sessions to gather insights from the community regarding the culture of PPLD and their desires for the District. The sessions were held on the following dates and locations:

- February 14, 2024: Western Museum of Mining and Industry - Public Session
- February 14, 2024: Library 21C - Community Leaders Session
- February 21, 2024: Care and Share - Public Session
- February 21, 2024: Library 21C - Community Leaders Session
- February 27, 2024: Ruth Holley Library - Public Session
- February 29, 2024: Virtual Public Session

These sessions provided valuable opportunities for community members to share their perspectives and preferences, contributing to the development of a comprehensive understanding of the community's needs and aspirations for PPLD.

2.2.1 What We Heard

After conducting the public sessions in February, a comprehensive list of common themes communicated by community members was created. This process involved synthesizing the insights and feedback gathered during the session to identify recurring topics and priorities expressed by participants. The resulting list serves as a foundation for informing the development strategies and initiatives aimed at addressing the community's needs and aspirations for Pikes Peak Library District.

Community Needs and Preferences

- Community members expressed enthusiasm for accessible/free activities such as yoga and tai chi, highlighting the importance of community well-being and engagement.
- A strong appreciation was noted for Pikes Peak Library District relative to other local institutions, indicating its valued role within the community.
- Concerns were raised about the size and condition of certain library branches, such as Monument Library being deemed too small and the need for renovations at East.
- There is a desire for the Library to provide a variety of spaces, including pre-teen and teen

areas, and spaces for quiet study and social gatherings.

- The community expressed a desire for sensory calming spaces within the Library, as well as a less intimidating connection to government services, promoting inclusivity and accessibility.
- Recognition of the Library's role in providing informational resources, education, and community partnerships.

Convenience, Ease of Use, and Accessibility

- Suggestions for improvements included enhancing the District's collection breadth and availability, as well as improving internet speed.
- Desire to improve poor wayfinding, displays, and parking lot lighting at certain library locations.
- Desire for private spaces with computers and curbside drop-off at more locations.

Services

- Need for more separation between loud and quiet spaces within the libraries.
- Requests for a broader selection of materials, including audiobooks, and more in-person classes and education opportunities.
- Desire for more meeting spaces to host formal and non-formal meetings as the library is a place of social connection for demographics such as mothers and teenagers.

These points highlight the community's diverse needs and preferences, ranging from physical improvements to the library infrastructure to the types of services and resources provided. The community sees PPLD as an asset and seeks to ensure libraries remain accessible, welcoming, and responsive to their needs.

2.2.2 Staff Sessions and Survey

During November and December, the consultant team actively engaged in staff sessions and conducted comprehensive site visits across various locations within Pikes Peak Library District. Key dates and locations included:

- November 17, 2023: Library 21C
- November 9, 2023: Penrose Library and Sand Creek Library
- December 6, 2023: Board Session at Library 21C
- December 7, 2023: Penrose Library

These sessions and visits were instrumental in gathering insights and data for informing the implementation plan. In addition, a survey was distributed to staff in January and February 2024 for input on the same items as the public survey and additional staff-specific questions.

2.2.3 What We Heard

Community Perception

- Community members tend to utilize the library closest to them, resulting in limited engagement with other locations.
- Parking accessibility varies across locations, with downtown libraries facing more challenges.
- Recognition of PPLD as a district is lacking in the community.

Staff Spaces

- There are challenges with the size and functionality of staff spaces, including breakrooms and workstations.
- There are issues with privacy, noise levels, and accessibility within staff areas.

- Limited storage space and overcrowding in backrooms impacts the organization and accessibility of materials.
- Better organization and management of overflow materials is needed, especially during peak periods or emergencies.
- More shelving and storage solutions are desired to accommodate the growing collection and diverse materials.

Accessibility Challenges

- Issues with parking and public transportation hinder accessibility.
- Improvements in ADA accessibility are noted but are still insufficient.

Meeting Space and Social Connection

- Demand for meeting spaces, particularly for social gatherings and community connections, is high.
- There is a desire for a diverse range of experiences, catering to social interaction (teen spaces) and quiet study.

Desire for Versatility

- Community members desire a library experience that balances social connections with quiet spaces, and modern technology with traditional resources.

Convenience and Quality of Experience

- Challenges with wayfinding, signage, and parking impact the ease of use for patrons.
- The aesthetic and functionality of library spaces, including lighting, signage, and furnishings, contribute to the overall experience.

Materials and Resources

- PPLD needs a broader selection of materials, including audiobooks and resources catering to diverse interests and age groups.
- There is a demand for sensory spaces, teen areas, and resources to support diverse community needs.

Community Engagement and Role of the Library

- Libraries serve as hubs for community engagement, providing essential resources and services, particularly for vulnerable populations.
- Partnerships and collaboration could provide opportunities to address community needs and enhance services.

Andrea Barker, an HB&A staff member, attends a community event for Pikes Peak Library District Facilities Master Plan. Throughout the process, the consulting team made sure that the community-wide meetings were scheduled at flexible times, allowing all patrons to attend after work hours.



Staff Library Opinions

In January and February, 128 staff members (30% of the total staff) completed the survey designed for them. This group included representatives from all library locations, as well as those involved with mobile and online services. For context, the

organization has a total of 441 staff members, with 369 working full-time equivalents. Staff members were first asked to describe the PPLD location where they work, as illustrated in Figures 2.9 and 2.10, to highlight current positive impressions and opportunities for improvements across branches.

CURRENT MOST POSITIVE LIBRARY IMPRESSIONS

FIGURE 2.9

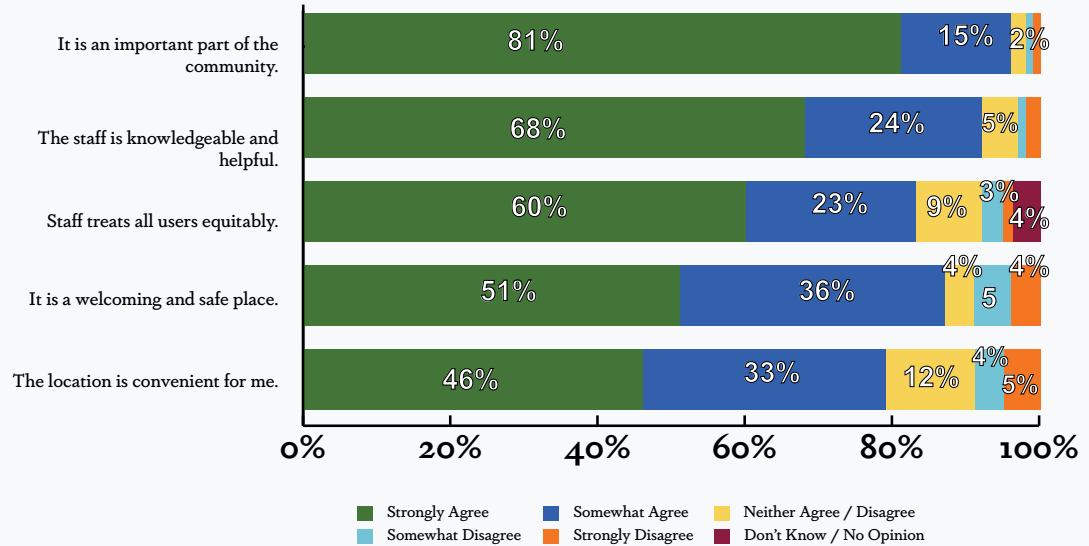
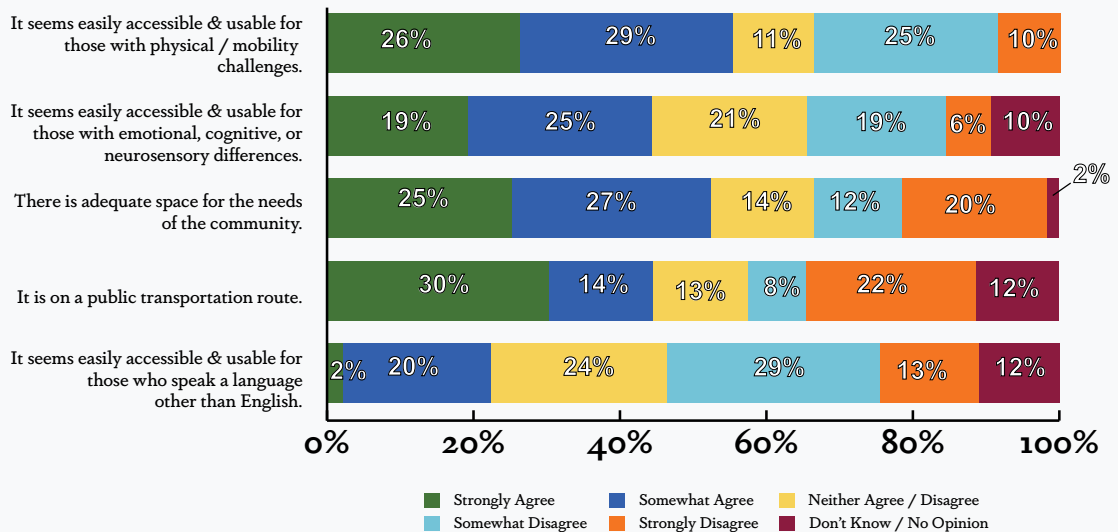


Figure 2.9 illustrates a majority of staff members surveyed perceive the library as a vital component of the community. They also find the staff to be knowledgeable and helpful, treating users equitably. Unlike the community members survey, fewer staff members strongly agreed that the library is a welcoming and safe place and is conveniently located.

CURRENT LESS FAVORABLE LIBRARY IMPRESSIONS

FIGURE 2.10



In Figure 2.10, it's notable that while nearly half of the staff members who responded to the survey either strongly or somewhat agree that the library is easily accessible and usable for individuals with physical or mobility challenges, as well as those with emotional, cognitive, or neurosensory differences, and English as a second language patrons, a significant portion of staff somewhat disagree with this perception of accessibility. Around half of the staff members agree that there is adequate space for the community, but a notable percentage strongly disagrees with this statement. There's an even distribution among staff in terms of agreement/disagreement regarding whether the facility is located on a public transit route.

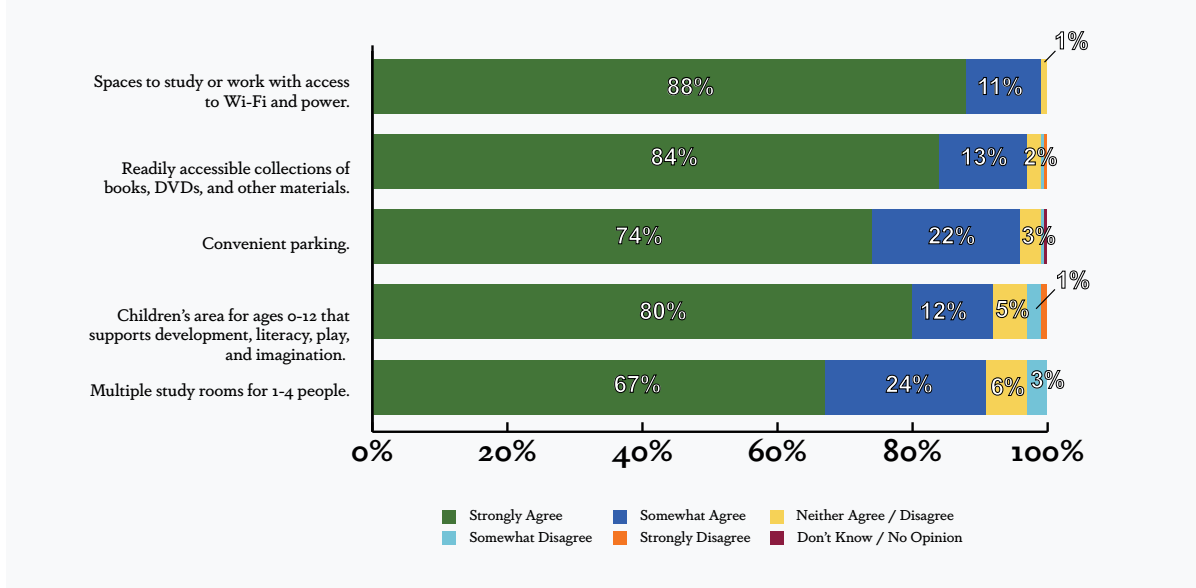
Library Features

The consultant team asked PPLD staff which library features should be maintained, added, or updated within their respective workplaces to better serve their evolving communities, as well as to identify which features might be considered least important (see Figures 2.11 and 2.12). Staff

members placed primary emphasis on Wi-Fi and power accessibility, material accessibility, convenient parking, children’s areas, and small meeting room spaces. Conversely, they considered maker spaces/studio spaces, food/drink areas, and dedicated digital creativity spaces as the least important facility features.

MOST IMPORTANT LIBRARY FACILITY FEATURES

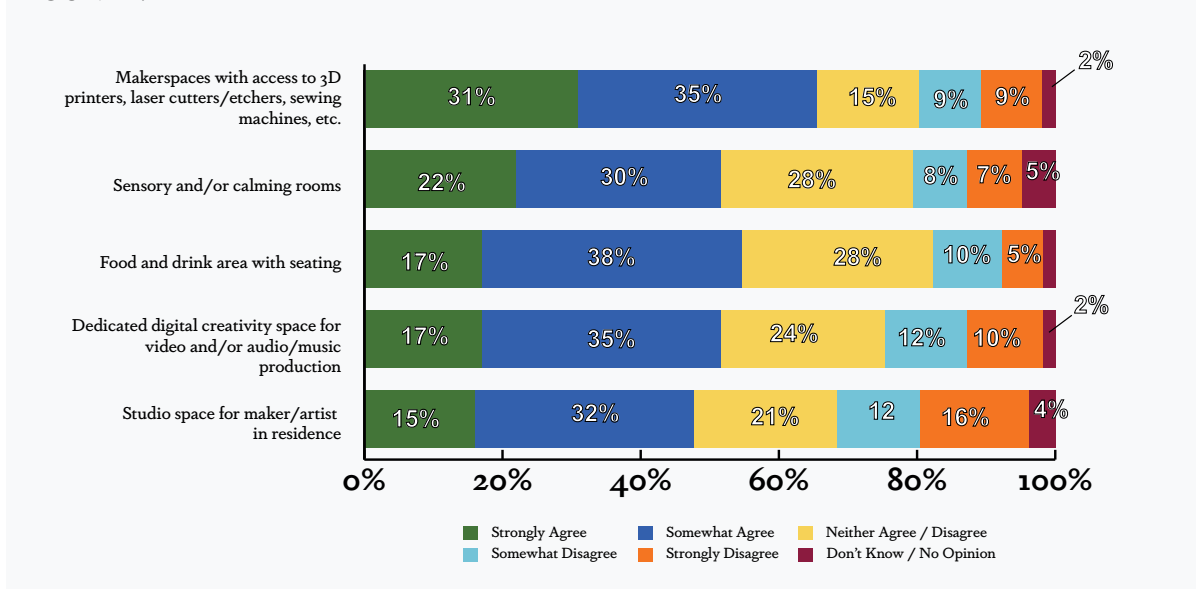
FIGURE 2.11



Compared to the community survey regarding library features, staff members prioritize Wi-Fi access, readily accessible collections, children’s areas designed with developmental considerations, and multiple study rooms for small groups. Similarly to the community survey, staff members also emphasize the importance of convenient parking.

LEAST IMPORTANT LIBRARY FACILITY FEATURES

FIGURE 2.12



In general, around half of the surveyed staff members expressed either strong agreement or some agreement that maker spaces and studio spaces, sensory or calming rooms, food and drink areas, and digital creativity spaces for video/audio/music production are of lesser importance. However, a notable percentage indicated they neither agreed nor disagreed with these features. Among these categories, the most prominent disagreement was observed regarding providing studio spaces for makers or artists in residence.

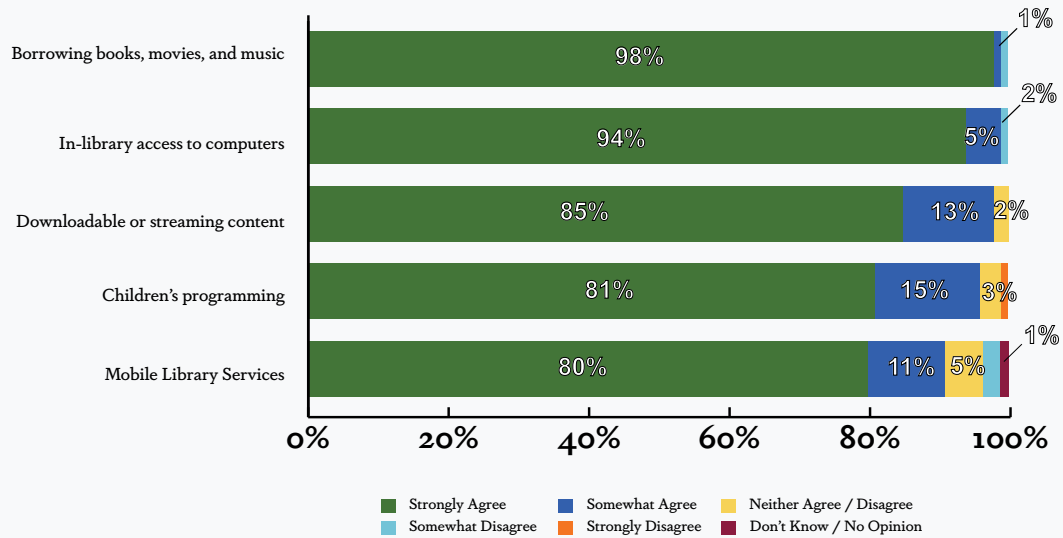
Library Services

Figures 2.13 and 2.14 illustrate which services were rated most to least important within the community. Staff members prioritize borrowing traditional library materials, computer access, and children’s programming, aligning with the preferences of community members. Staff members

underscore the importance of mobile library services. Among the identified least important library services, staff members highlighted local history collections, borrowing non-traditional items, non-English language collections and programs, coordinated visits to the library, and access to library materials beyond regular hours.

MOST IMPORTANT LIBRARY SERVICES

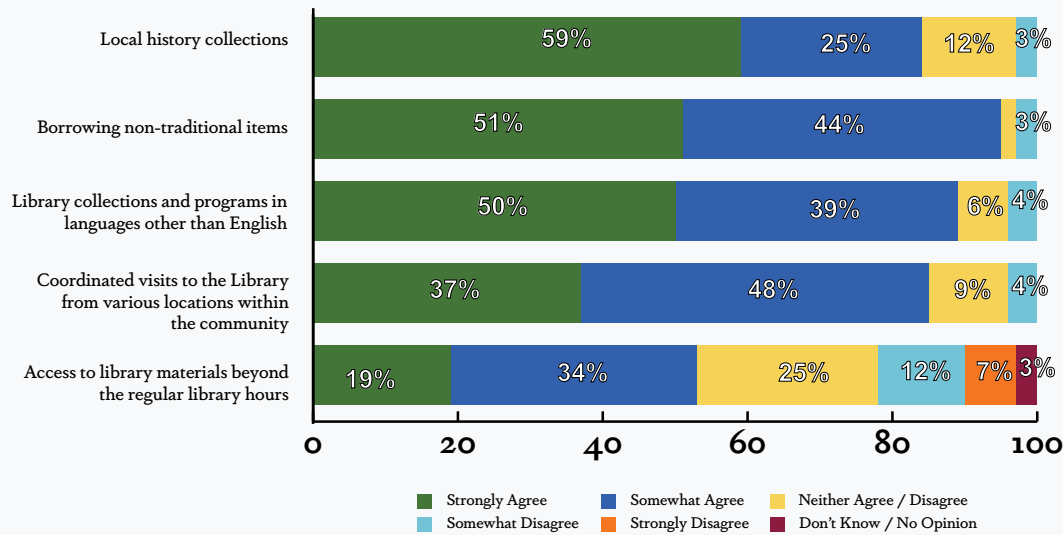
FIGURE 2.13



Compared to the community survey regarding the most important library services, both staff members and community members alike prioritize borrowing traditional library materials, computer access, downloadable and streaming content, and children’s programming as strongly important. Additionally, staff members emphasize the strong importance of mobile library services in serving the broader Pikes Peak Library District.

LEAST IMPORTANT LIBRARY SERVICES

FIGURE 2.14



Generally, around half of the staff members strongly agree that local history collections, borrowing non-traditional items, and non-English language library collections and programs are of least importance. Additionally, nearly half of the staff somewhat agree that coordinated visits to the library from various locations within the community are of least importance. Similarly, roughly half of the staff somewhat agree or neither agree/disagree or disagree that access to library material beyond regular hours are of least importance.

SITE ASSESSMENTS

SURVEYING THE LANDSCAPE: NAVIGATING FACILITY & PROGRAM ASSESSMENTS

This chapter offers a detailed examination of the District’s performance, including demographic and location analysis, outlet utilization, benchmark comparisons, and exploration of alternative delivery models, all aimed at gauging the effectiveness of service provision and community engagement across Pikes Peak Library District.

3.1 LIBRARY, USER, AND POPULATION DATA

Table 3.1, Library, User, and Population Data, provides a comprehensive overview of user engagement, facility utilization, and demographic statistics across all PPLD facilities. Drawing from cardholder information, facility records, and census data, this table offers insights into the dynamic patronage within the PPLD network. The census data utilized in this analysis reflects the demographic makeup as captured by the 2020 census, offering a snapshot of the population distribution in the vicinity of each library.

In early 2024, PPLD staff provided data from a cardholder database that offers a granular understanding of patron behavior and engagement levels. This dataset encompasses all patrons who actively utilized their library cards throughout the preceding year, constituting a sizable cohort of approximately 140,000 individuals.

While most of the table’s columns are easily understandable, a few merit an additional explanation:

- **Population (15 min)** – How many people live in census blocks within a 15-minute driving radius of the library location.
- **Patrons (15 min)** – How many individual cardholder addresses are located within a 15-minute driving radius of the library location.
- **Number of Cardholder Registrations** – How many library cards in the database were created at each library.
- **Number of Cardholder “Last Check Outs”** – How many patrons last used each library in person.

Table 3.1
Library, User, and
Population Data

Library	Ownership	Year Constructed	Size (SF)	Population (15 min)	Patrons (15 min)	No. of Cardholder Registrations	No. of Cardholder "Last Check-Outs"
Library 21C	Owned	1985	115,058	374,228	68,783	25,639	12,959
Penrose/Carnegie Library	Owned	1968/1905	78,831	424,208	67,734	19,505	3,843
East Library	Owned	1986	70,153	402,045	70,829	33,582	21,475
Sand Creek Library	Owned	1988	14,060	411,228	55,725	7,995	2,164
The Hall (Knights of Columbus [KoC])	Owned	1928	11,988	N/A	N/A	N/A	N/A
Ruth Holley Library	Leased	1978	10,469	446,225	58,691	7,360	2,553
Fountain Library	Owned	2006	9,582	128,684	9,225	6,462	2,684
Cheyenne Mountain Library	Leased	1985	8,900	293,987	44,485	9,683	6,500
Rockrimmon Library	Leased	1985	8,668	339,480	57,887	9,468	3,616
Monument Library	Leased	1995	7,536	96,360	17,744	10,804	4,760
High Prairie	Owned	2010	6,008	291,480	37,926	7,958	3,926
Old Colorado City	Owned	1904	4,909	307,192	47,484	4,886	1,982
Calhan Library	Owned	2006	2,400	8,266	539	427	389
Ute Pass Library	Leased	1935	2,123	47,362	8,778	663	241
Palmer Lake Library	Leased	1982	1,574	53,521	9,129	162	143
Antlers Garage Facade	Owned	1922 (converted to the structure it is today in the 1990s)	1,000	N/A	N/A	N/A	N/A
Manitou Springs Library	Leased	Not Available	Not Available	155,453	23,655	1,854	689

ReThinking Libraries and HB&A conducted a tour of High Prairie Library, during which they listened to current staff members' satisfaction levels and desires for their facility. Computer usage emerged as a high priority for community members, with some expressing a desire for more private computer spaces.



3.2 DEMOGRAPHIC AND LOCATION ANALYSIS

In this section, the demographic and location analysis compare the locations of PPLD libraries with the distribution of cardholders and population. The cardholder database encompasses patrons who interacted with the system in 2023, including those who checked out materials, used a computer or printing services in person, and accessed virtual databases and resources. Please note that the database excludes patrons who used a study room, meeting room, or attended a program.

Key conclusions drawn from these analyses include:

- The “center of mass” of the patron population is situated north and east of the “center of mass” of the library locations.
- “Power users” are more focused on the library locations.
- Patrons who use virtual resources exclusively are located further east and are more spread out.
- Almost all patrons are within reasonable driving distance of at least one library.
- Central Colorado Springs residents have access to a greater number of libraries within

reasonable driving distance compared to those residing on the fringes of the PPLD service area.

- Walking and transit accessibility is variable depending on the neighborhood context.
- Future development is likely to shift the overall population of the area further east.
- The populations of socioeconomically disadvantaged residents on the southeast and east sides of Colorado Springs are relatively underserved.

Palmer Lake Library is a quaint neighborhood library that the consulting team deemed would benefit from an unstaffed controlled access self-serve mode. This library is nestled alongside the community museum and cherished by locals.



3.2.1 Current User Density

Figure 3.1, All Users Population Density, shows the locations of all addresses in the current cardholder database (about 140,000 patrons that have used the system in the last year), including patrons who used the system in person and those who used virtual assets only.

- The resulting heat map shows a fairly broadly distributed pattern that mirrors overall population density in the area.
- Moderate concentrations exist throughout Colorado Springs with notable “hot spots” in the Rockrimmon and Briargate areas, around the East Library, and downtown.
- Populations of patrons are more diffuse in the Security, Widefield, and Fountain areas south of Colorado Springs, and in the Black Forest area northeast of Colorado Springs.
- Generally speaking, the distribution of patrons is shifted east and north of the distribution of libraries.

Another way to analyze the locations of libraries and patrons is to map the most active users in the system. Figure 3.2, Top 10% Users Population

Density, shows the locations of the top 10% of users, based on the total number of checkouts recorded in the database. Based on this analysis, the consultant team found:

- The **top 10%** of patrons account for approximately **72%** of the total checkouts.
- These active users tend to be concentrated in Colorado Springs, aligning with the locations of existing libraries.

The cardholder database also includes patrons who use the system solely through its virtual resources (see Figures 3.3, Virtual Users Population Density). When these “virtual users” are mapped, the consultant team finds:

- The distribution is similar to that of “power users” but with a slight eastward shift.
- Higher concentrations appear on the fringes of the network, likely reflecting those who are farther from physical libraries.
- This pattern suggests user demand in areas with fewer convenient library locations.

Figure 3.1 All Users Population Density

PPLD users are spread throughout the District, roughly consistent with the general population densities throughout the region. There is a notable density of users in the Wolf Ranch area, just north of Woodmen Road and Powers Boulevard.

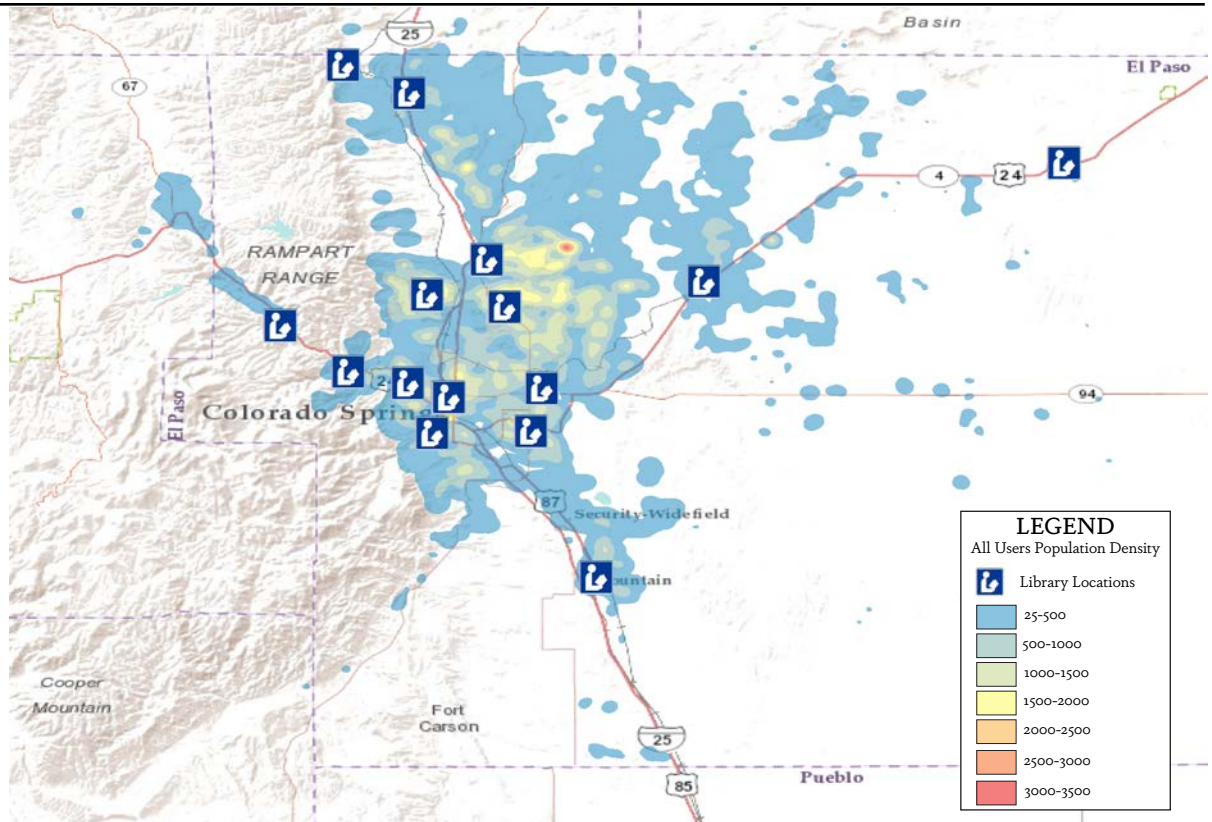


Figure 3.2 Top 10% Users Population Density

The distribution of "power users" is closely tied to developed areas and may have increased density around existing libraries.

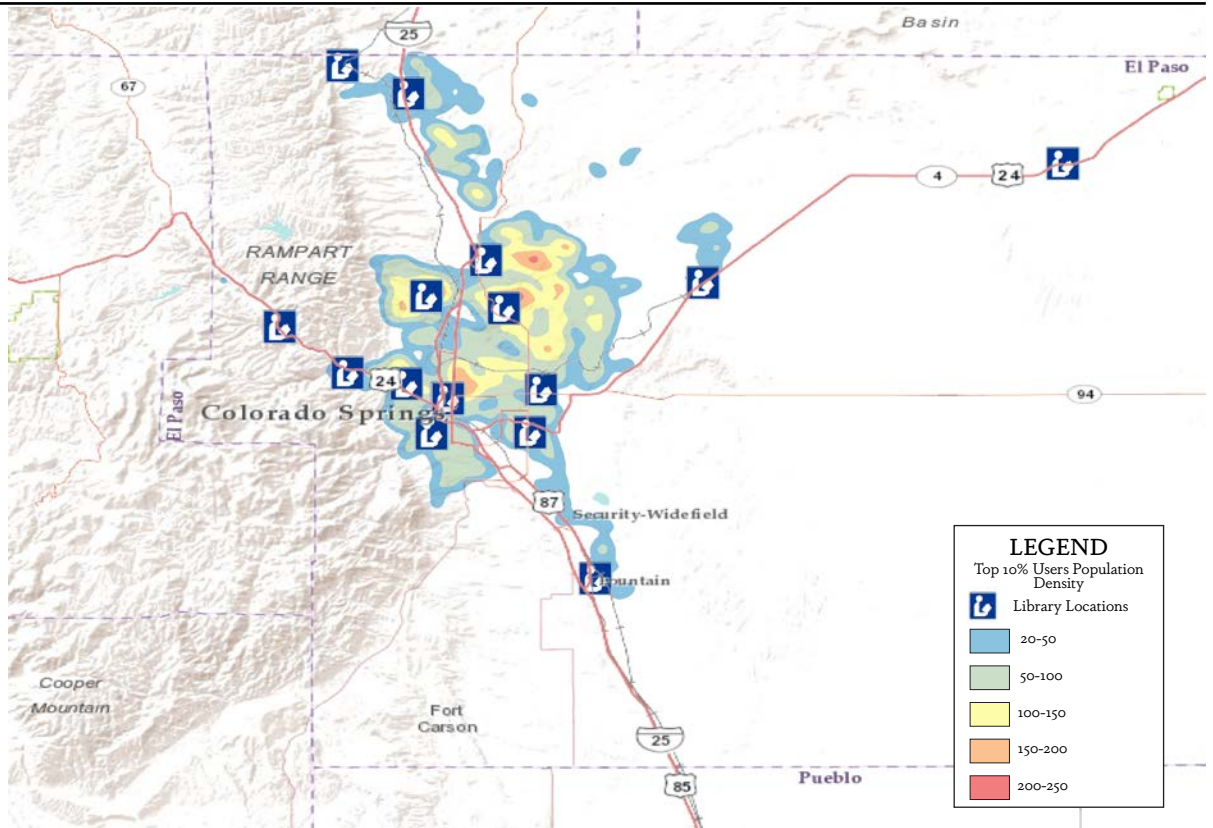
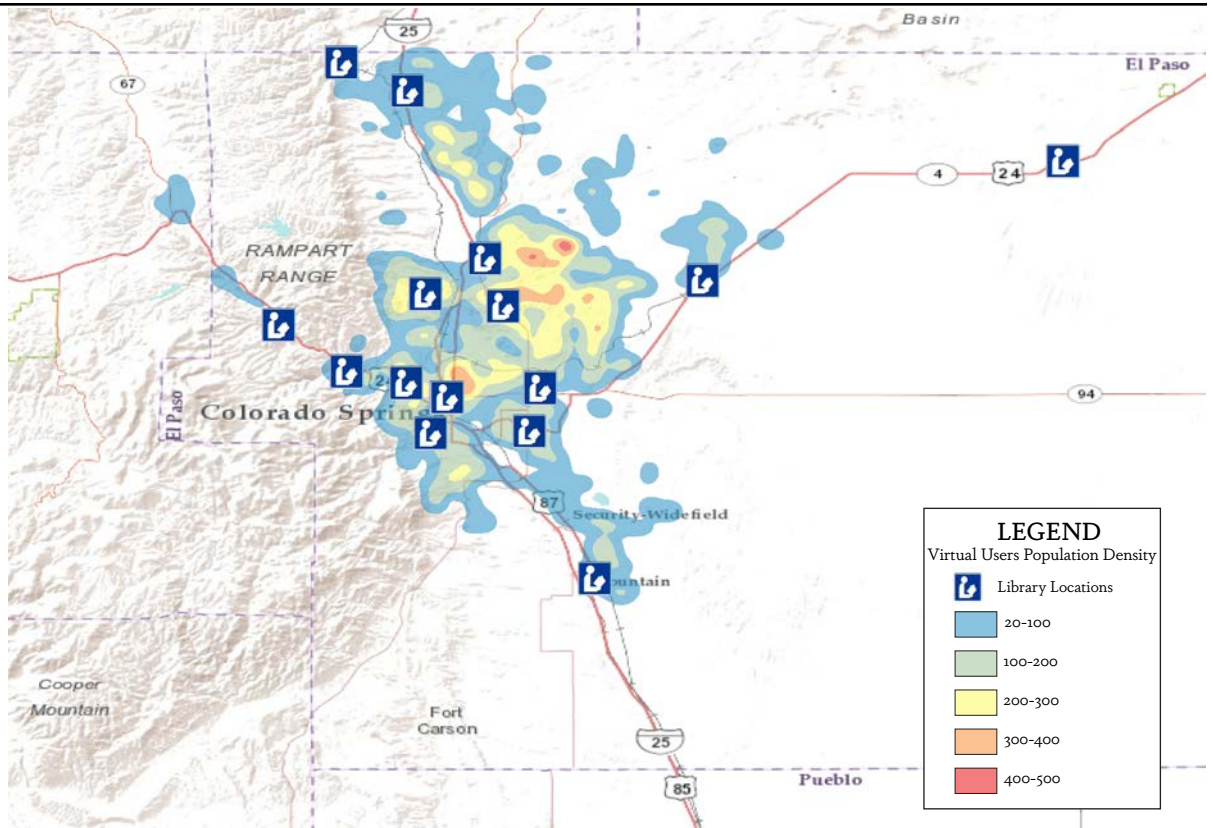


Figure 3.3 Virtual Users Population Density

The distribution of PPLD users who exclusively used the District's virtual resources is more evenly distributed across the area, with significant nodes of density in central and northeastern Colorado Springs.



3.2.2 Transportation Analysis

Drivable Library Accessibility in Different Areas

An alternative way to assess library drivability is by mapping how many facilities are accessible within a 15-minute drive from various locations in the service area (Figure 3.4). The analysis reveals several key points:

- Residents in the central core and inner west side of Colorado Springs can reach many locations within 15 minutes.
- Conversely, those on the city's fringes and in the county typically have convenient access to only one or two locations.
- PPLD features a range of library types, from small to large full-service locations, providing access to diverse resources for patrons.
- This analysis indicates that the central and historical areas of Colorado Springs are relatively overserved, while the eastern and northern areas are relatively underserved.

Library Accessibility and Drivable Distances

Figures 3.5-3.8 illustrate the drivable accessibility of libraries by mapping the areas within 5-, 10-, 15-, and 20-minute drives from any location. These maps are overlaid on the overall patron distribution map, providing insights into how easily patrons can access the library. Here are the key findings:

- The PPLD facilities are generally accessible to patrons who can drive to them.
- The vast majority of active patrons (about 95%) are within a 15-minute drive from a library.
- The main exceptions are some patrons in the Black Forest area and those in the rural southeastern part of the county, indicating areas with less convenient library access.

Figure 3.4 Number of Libraries within 15-Minute Drive

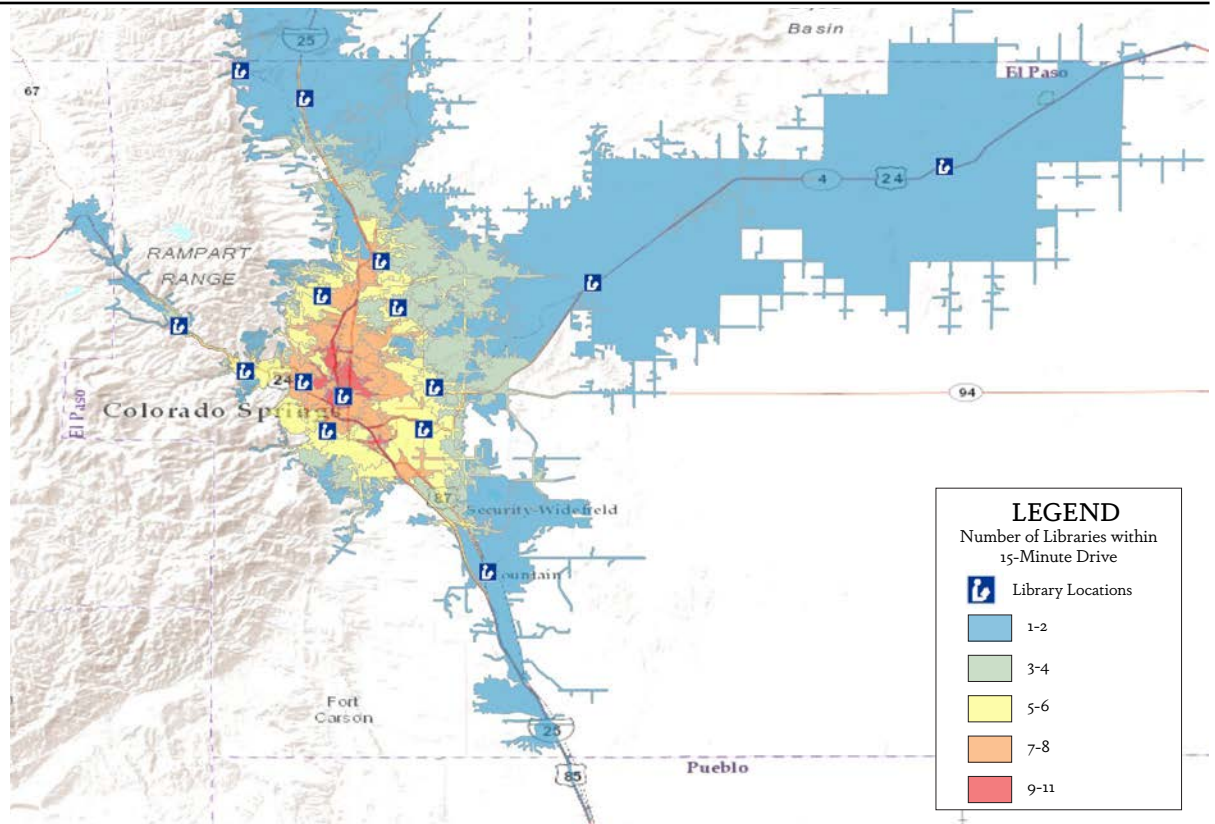


Figure 3.5 5-Minute Drive Time to Library Locations

Approximately 26% of the total user population is within a 5-minute drive of a library. Much of Colorado Springs, as well as areas in other cities, towns, and the county are outside of this drive shed.

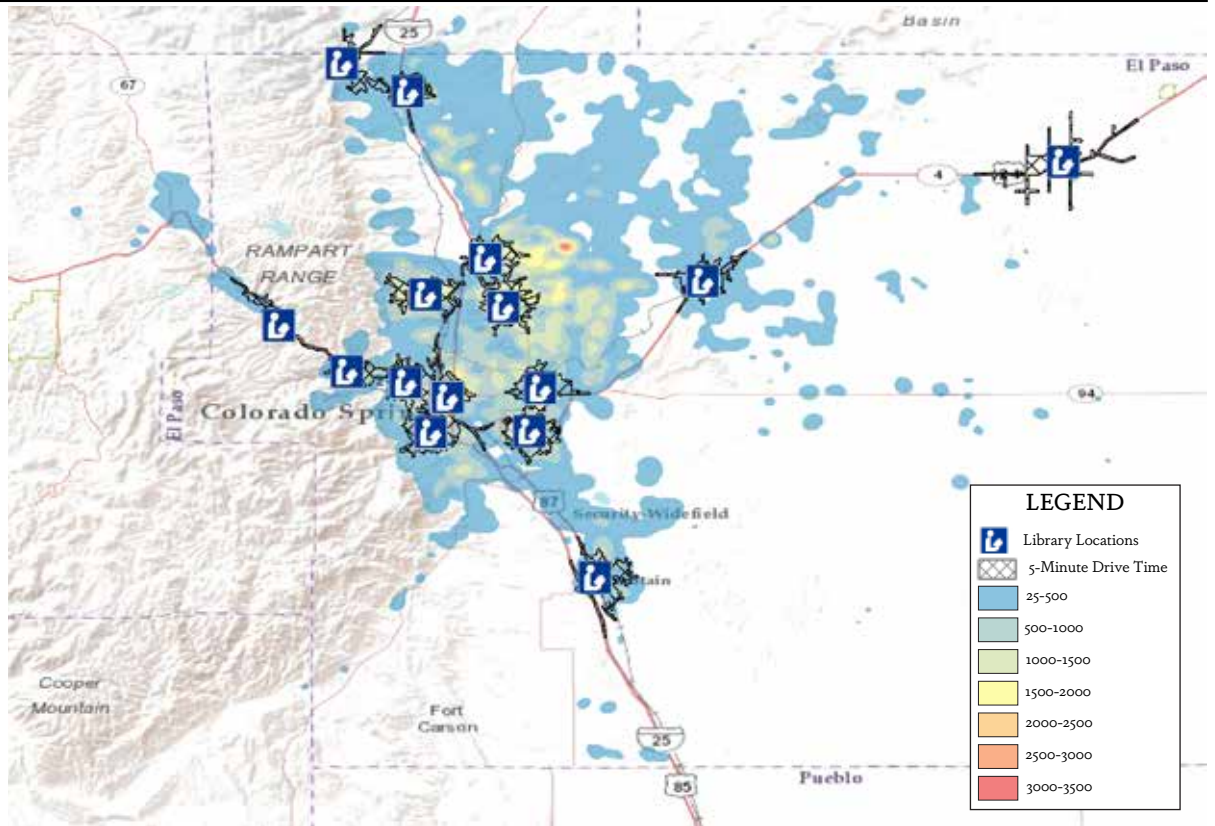


Figure 3.6 10-Minute Drive Time to Library Locations

Approximately 71% of the total user population is within a 10-minute drive of a library. This covers most of the more densely populated areas, with Black Forest being the only major area of PPLD users that isn't within this drive shed.

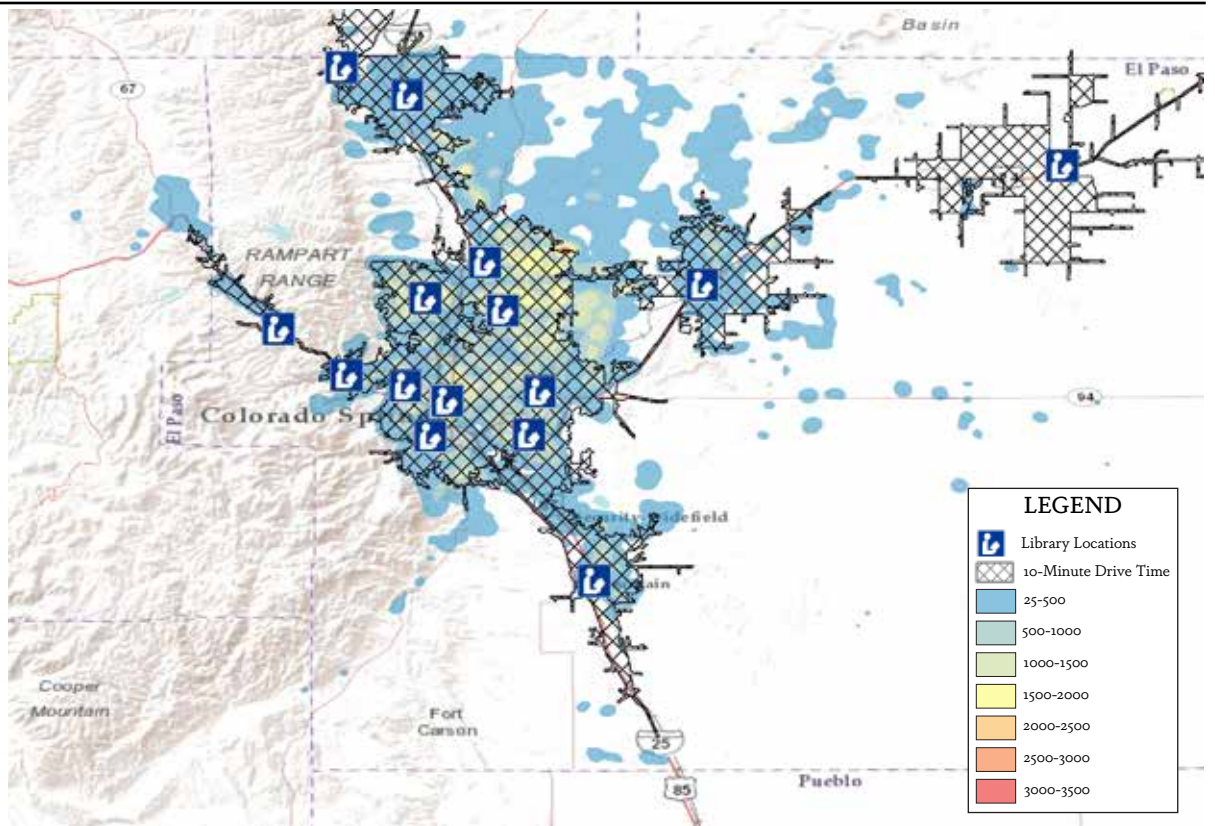


Figure 3.7 15-Minute Drive to Library Locations

Approximately 87% of the PPLD user population is within a 15-minute drive of a library.

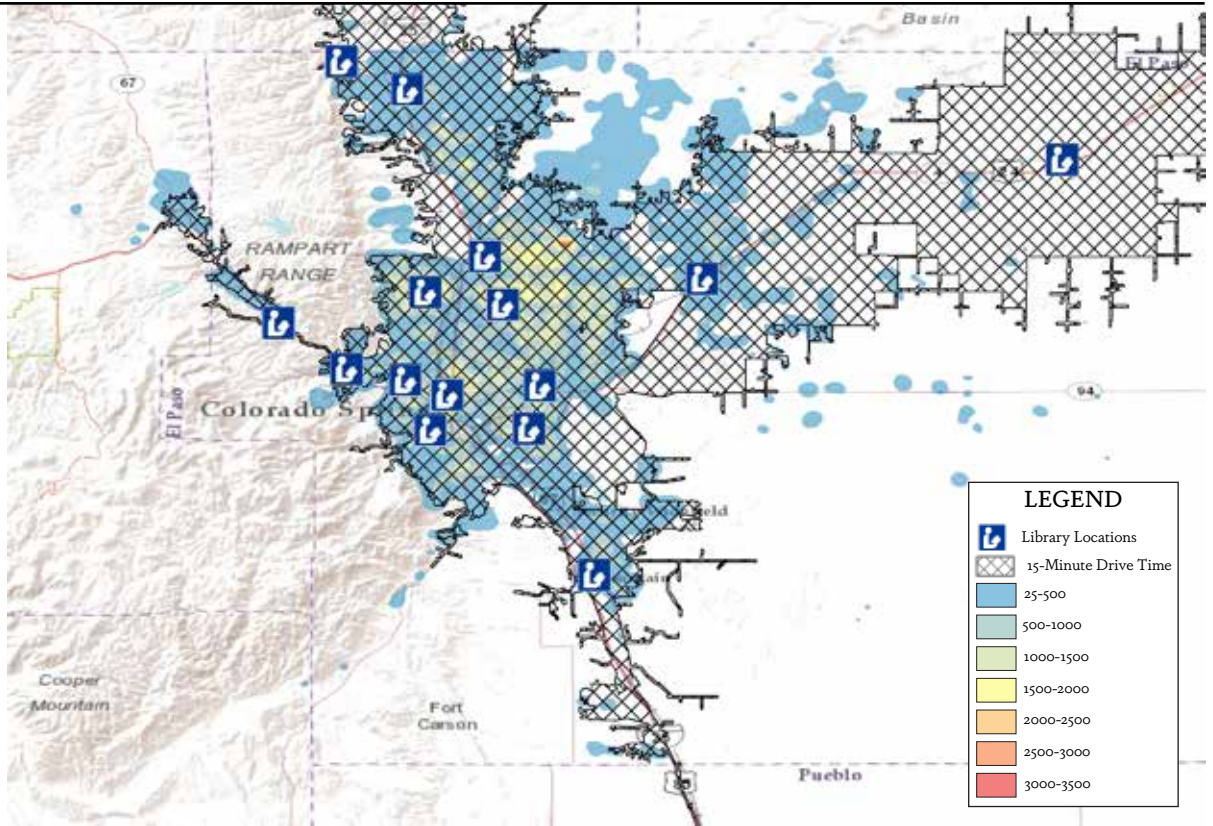
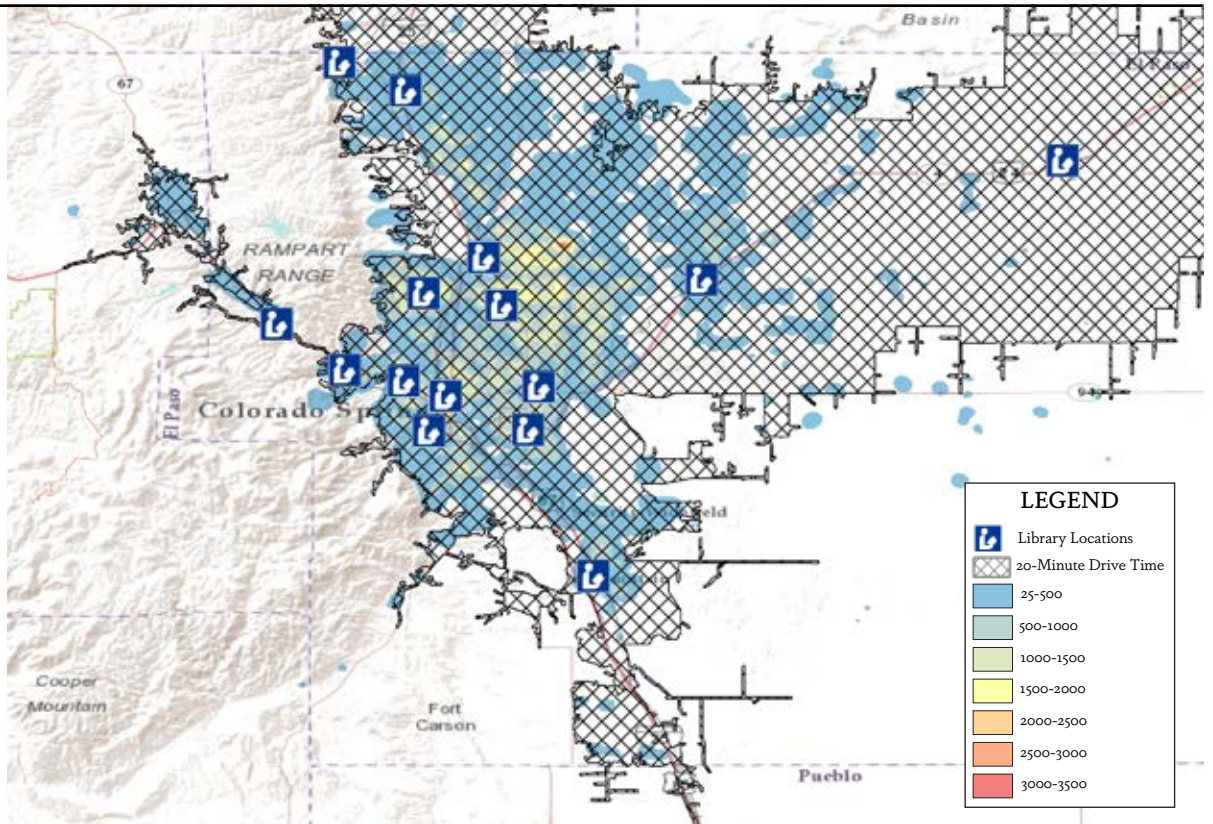


Figure 3.8 20-Minute Drive Time to Library Locations

Approximately 91% of the PPLD user population is within a 20-minute drive of a library.



Walkability and Public Transit

While the drivability maps indicate that libraries are generally accessible by car, there are legitimate concerns about transit accessibility and walkability. The public transit system in Colorado Springs is limited, particularly in outlying areas of the city and county, leading to much longer transit trip times for patrons compared to driving times. In addition, walkability varies across locations, influenced by factors like density and street grid connectivity. Here’s a breakdown of the key points:

- The public transit system does not serve many outlying areas effectively, making it less convenient for patrons without cars.
- Walkability is higher in denser, traditional neighborhoods with a well-connected street grid, like Old Colorado City Library or Penrose Library, where a significant number of households fall within a reasonable walking distance.
- In contrast, libraries located in more suburban settings tend to be less walkable due to lower density and less grid connectivity.
- Figure 3.9 illustrates the difference in walkability between Library 21C and Old Colorado City Library, showing the 0.25-mile and 0.5-mile walking radius for each library.

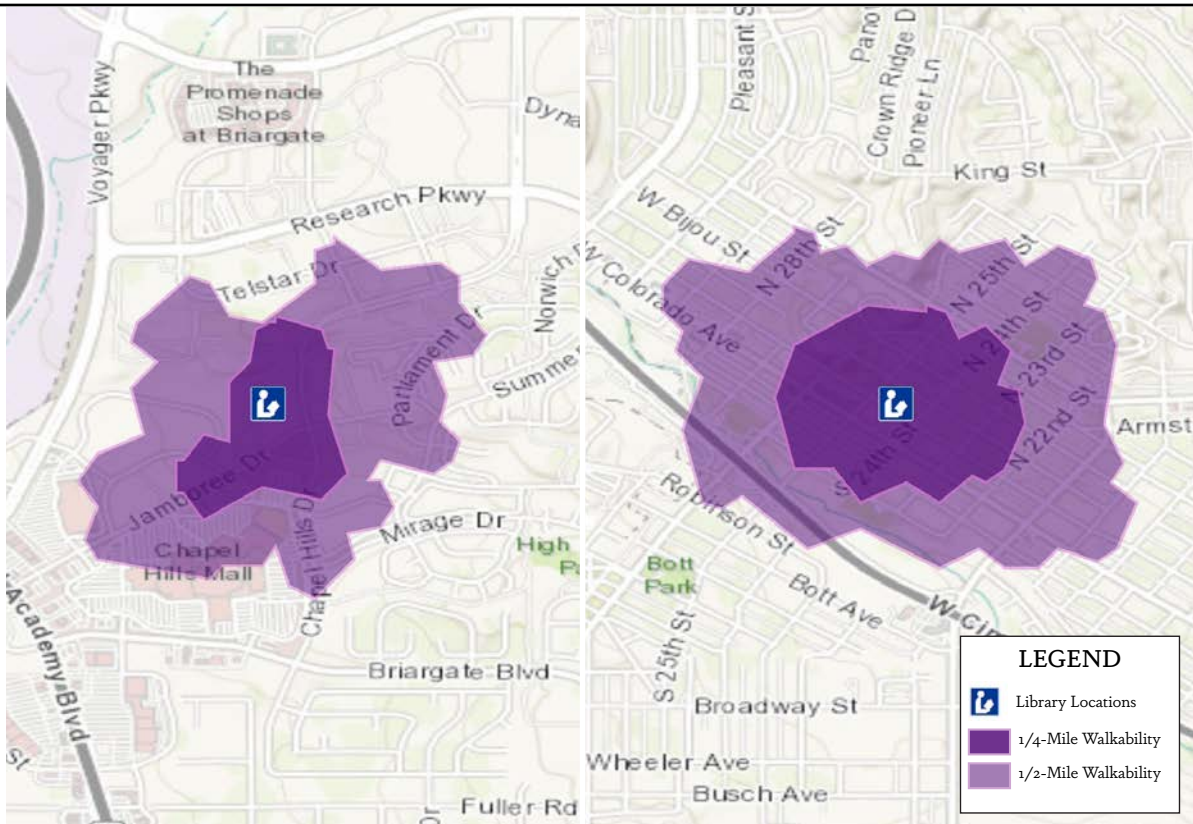
and indicating how many homes fall within these distances in different neighborhood contexts.

3.2.3 Future Population Density

The Facilities Master Plan not only addresses current populations (Figure 3.10) but also considers where future patrons are likely to live. This analysis uses data from the Pikes Peak Area Council of Governments, updated through the 2023 El Paso County Major Transportation Corridors Master Plan, to estimate both current and future population densities throughout the service area. Figures 3.11 and 3.12 show that future residents are expected to concentrate in three key areas over the next 20 years:

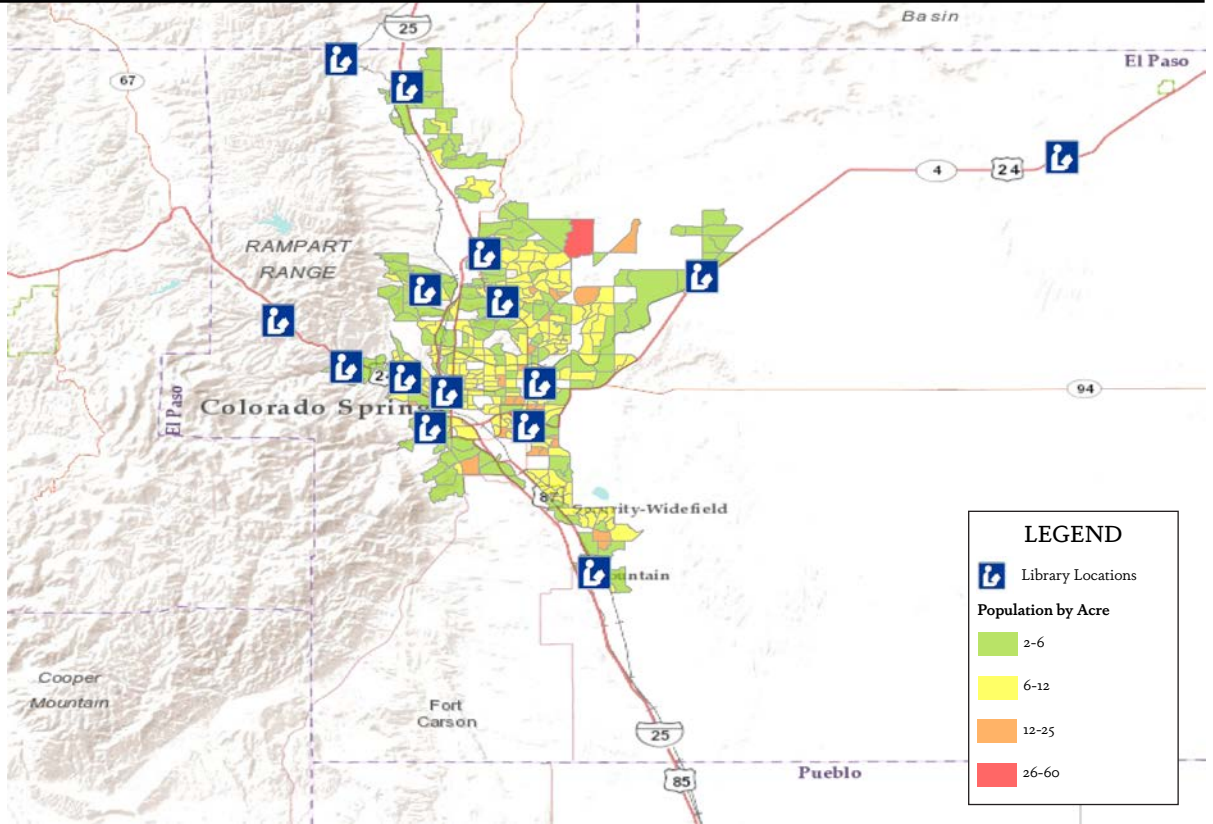
- The northeastern edge of Colorado Springs, with the continued build-out of the Wolf Ranch area.
- Eastern Colorado Springs, as the northern portion of Banning Lewis Ranch is developed.
- Southeastern Colorado Springs, where development projects extend beyond Security and Fountain.

Figure 3.9 0.25- and 0.50-mile Walk Radius at Library 21C (left) and Old Colorado City Library (right)



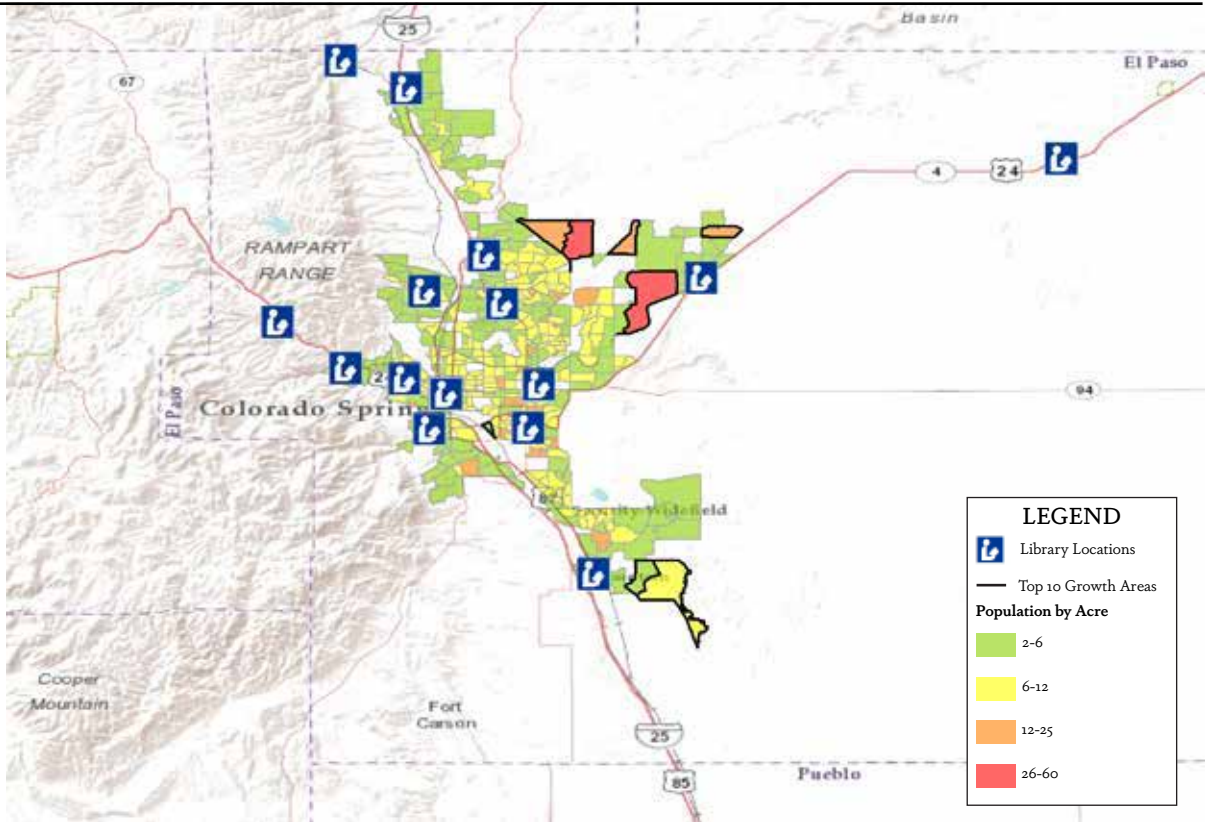
**Figure 3.10 2020 Pop-
ulation per Acre**

Current (2020) population density is primarily focused in Colorado Springs and some of the other nearby cities and towns of Monument, Widefield, and Security, as well as some built-up areas of the county north of Falcon.



**Figure 3.11 2045
Population and Top
10 Growth Areas**

The majority of future population growth and density is anticipated northeast of Colorado Springs, with some additional future density anticipated southeast of Colorado Springs.

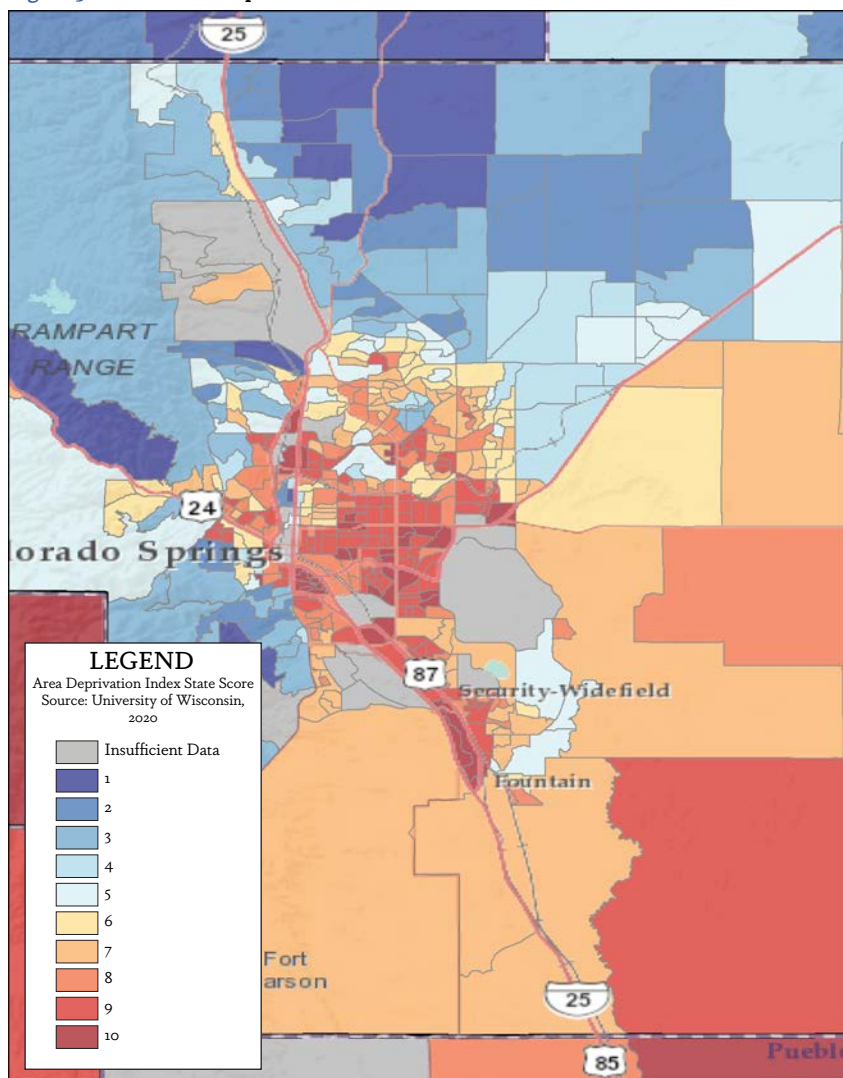


3.2.4 Socioeconomic Analysis

A final evaluation lens looks at the population of the area to see where disadvantaged populations are located relative to PPLD’s libraries. Figure 3.13 is based on the Area Deprivation Index (ADI), a measure created by the federal Health Resources and Services Administration and refined by the University of Wisconsin to summarize socioeconomic disadvantage by neighborhood. It includes factors for income, education, employment, and housing quality. Higher ADI scores, which indicate more disadvantaged communities, are shown in red. Less disadvantaged neighborhoods are shown in blue.

In general, this analysis indicates that areas in the northwest and southwest portions of Colorado Springs are less disadvantaged but served by more PPLD libraries while areas in the east and southeast are more disadvantaged but served by fewer PPLD libraries.

Figure 3.12 2020 Area Deprivation Index State Score



3.3 OUTLET UTILIZATION ANALYSIS

Our outlet utilization analysis employs the “Busyness Index” method, which amalgamates all measured activities at each location, considering factors such as staff, space, building, and infrastructure.

3.3.1 Busyness Index

The overall busyness index is calculated based on the Library Busyness Rankings, which consider the following factors:

1. Total weighted activities per square foot (**W.A./SF**): This metric evaluates the number of activities or services provided by the library per unit area, considering the space utilization efficiency.
2. Total weighted activities per open hour (**W.A./O.H.**): It assesses the frequency of activities or services offered by the library per operational hour, indicating the level of engagement or utilization during operating hours.
3. Total weighted activities per open hour per 1,000 Square Feet (**W.A./O.H.)/1K SF**: This metric normalizes the weighted activities per open hour based on the library’s size, providing a standardized measure of activity density relative to space availability.

These metrics provide insights into space efficiency, engagement levels during operational hours, and activity density relative to the library’s size.

By analyzing these values, the overall average busyness rank for each library is determined, ranging from 3 (indicating the highest level of busyness) to 13 (representing the lowest level of busyness). This comprehensive approach allows for a nuanced understanding of the library’s operational dynamics and helps prioritize resource allocation and service optimization efforts accordingly. See Table 3.2, Full Building Average Busyness Ranking, for a list from the busiest library to the least busy library.

Adjusted Building Square Feet Rankings - Systems Spaces Subtracted

In Table 3.3, Adjusted Building Average Busyness Rating, the total space of the three larger buildings with shared administrative space within their premises is adjusted by removing that shared administrative space from their totals. While this adjustment results in significant changes in the raw numbers, it has minimal impact on the ranking of these three libraries within the system. East Library and Library 21c move up a single spot each, while Penrose Library maintains its position in the system ranking.

3.3.2 Outlet Utilization Findings

Based on this analysis, the main takeaways include:

- High Prairie Library is the busiest library overall.
- Rockrimmon, Cheyenne Mountain, and Monument Libraries are also quite active, but they operate from leased spaces, making their operational costs a challenge.
- All four of these library outlets are undersized for their usage, but only High Prairie Library could realistically be expanded.
- Ruth Holley Library ranks in the middle but is also a leased location, contributing less to the system’s operational sustainability.
- Ute Pass, Calhan, and Palmer Lake Libraries are not busy enough to justify their current operational support level.
- The three major facilities - Library 21C, Penrose Library, and East Library - are the busiest per opening hour but have enough space to prevent crowding.
- In a separate part of the project, we’ll analyze **weighted activities (W.A.) per full-time equivalent (FTE)** to see how user demands align with staffing levels at each library.

Table 3.2
Full Building Average
Busyness Ranking

Library	Library Busyness Rankings			Busyness Rankings			Average Busyness Ranking
	W.A./SF	W.A./O.H.	(W.A./O.H.)/1K SF	W.A./SF	W.A./O.H.	(W.A./O.H.)/1K SF	
High Prairie	47	327	54	1	6	3	3
Rockrimmon	31	386	45	4	4	4	4
Cheyenne Mountain	35	384	43	3	5	5	4
Monument	39	324	43	2	7	6	5
Manitou Springs	28	141	59	6	12	2	7
Old Colorado City	30	203	41	5	11	7	8
East	15	1,178	17	9	1	13	8
Ruth Holley	20	315	30	7	8	9	8
Palmer Lake	9	108	68	11	13	1	9
Fountain	17	240	25	8	10	10	9
21C	8	1,069	9	14	2	15	10
Ute Pass	13	71	33	10	14	8	11
Penrose	6	750	10	15	3	14	11
Sand Creek	9	273	19	12	9	12	12
Calhan	8	52	22	13	15	11	13

Table 3.3
Adjusted Building
Average Busyness
Ranking

The fields highlighted in yellow identify the adjusted values from Table 3.2 to Table 3.3.

Library	Library Busyness Rankings			Busyness Rankings			Average Busyness Ranking
	W.A./SF	W.A./O.H.	(W.A./O.H.)/1K SF	W.A./SF	W.A./O.H.	(W.A./O.H.)/1K SF	
High Prairie	47	327	54	1	6	3	3
Rockrimmon	31	386	45	4	4	4	4
Cheyenne Mountain	35	384	43	3	5	5	4
Monument	39	324	43	2	7	6	5
Manitou Springs	28	141	59	6	12	2	7
Old Colorado City	15	1,178	17	8	1	12	7
East	30	203	41	5	11	7	8
Ruth Holley	20	315	30	7	8	9	8
Palmer Lake	9	108	68	12	13	1	9
Fountain	8	1,069	9	11	2	14	9
21C	17	240	25	9	10	10	10
Ute Pass	13	71	33	10	14	8	11
Penrose	6	750	10	15	3	15	11
Sand Creek	9	273	19	13	9	13	12
Calhan	8	52	22	14	15	11	13

3.4 BENCHMARK ANALYSIS

The benchmarks in Tables 3.4 and 3.5 provide a comparison of PPLD against other library systems of similar size in Colorado and across the United States. They also offer a comparison against an aspirational cohort of some of the most highly regarded libraries in the nation, as identified by Library Journal’s Star Libraries ratings.

3.4.1 Key Findings

Key findings regarding the financial and operational aspects of PPLD include:

- **Funding Comparison:** PPLD is significantly underfunded versus most of its peers. PPLD: \$51/capita, Colorado Average: \$74/capita when looking at the combined financials of operating and capital budgets.
- **Outlet Comparison:** While PPLD falls slightly below average in terms of outlets per 100,000 residents, it surpasses the average when compared to libraries with similar funding levels.
- **Leased Spaces:** The high number of outlets that PPLD operates as leased spaces puts further pressure on the operational budget of the District.
- **Sustainability:** The high number of outlets, especially those operated as leased spaces,

raises concerns about the sustainability of PPLD’s current operational model given its funding level. Consequently, the planning team has concluded that the current number of outlets is not sustainable at the current funding level.

- **Resource Limitation:** Despite lower funding levels, PPLD’s usage remains generally consistent with the Colorado average, although certain areas may be affected by resource limitations:
 - The physical collections are undersized for the community’s size.
 - Attendance per program is lower, likely due to undersized program spaces, particularly evident in locations with Storytime and Summer Reader programs.
 - Public personal computer (PC) usage was lower than average despite a higher number of PCs based on 2019 data. This dynamic has shifted post-pandemic, but PPLD should continue to monitor the supply and usage ratio to optimize space and resources according to current needs and demands.

Table 3.4
Benchmark Analysis

Library Name	Legal Basis	Service Area Population	Central Library	Library Outlets	Bookmobiles	Outlets/100k Capita	Operation Expenses/Capita	Total Expenditures (OpEx + Capital)/Capita
Pikes Peak Library District	Library District	662,241	1	14	2	2.6	\$47	\$51
Colorado Libraries		370,458	0	10	1	3.2	\$67	\$74
Library Journal - Star Libraries		766,114	1	23	3	3.5	\$93	\$103
National Libraries		725,101	1	19	1	2.8	\$50	\$56
Douglas Co. Libraries	Library District	342,847	0	7	0	2.0	\$70	\$83
Jefferson Co. Public Library	County/Parish	579,489	0	10	1	1.9	\$58	\$64
Arapahoe Library District	Library District	264,545	0	8	2	3.8	\$114	\$129
Poudre River Public Library District	Library District	204,299	0	3	0	1.5	\$48	\$50
Rangeview Library District/Anythink	Library District	394,587	0	7	1	2.0	\$48	\$49
Pueblo City-Co. Library District	Library District	167,117	1	7	0	4.8	\$59	\$61
High Plains Library District	Library District	292,987	0	14	2	5.5	\$65	\$79
Denver Public Library	Municipal Government	717,796	1	25	2	3.9	\$72	\$75

Table 3.5
Benchmark Analysis,
continued

Library Name	FTE Total Staff/1K Capita	Total FTE/Outlet	Programs/1K Capita	Attendance/Program	Visit/Capita	1K Visits/Outlet	Physical Circ/Capita	Phy Items Circ/Visit	Electronic Circ/Capita	Physical Items/Capita	Internet Computers	Public PCs/Outlet	Computer Uses/Capita
Pikes Peak Library District	0.56	22	19	20	5	182	9	2.0	3.1	1.2	781	46	0.76
Colorado Libraries	0.66	23	24	26	5	187	11	2.1	2.6	1.8	425	38	0.93
Library Journal - Star Libraries	0.72	22	20	26	6	192	15	2.4	3.6	3.0	807	31	1.22
National Libraries	0.50	18	16	22	4	141	7	1.8	1.5	1.8	578	30	0.75
Douglas Co. Libraries	0.67	33	16	32	5	242	16	3.2	3.8	1.7	249	36	0.34
Jefferson Co. Public Library	0.44	23	19	24	5	238	12	2.6	2.2	1.8	375	34	0.56
Arapahoe Library District	1.01	27	27	23	7	175	15	2.3	4.7	1.7	266	27	0.99
Poudre River Public Library District	0.50	34	13	27	5	332	11	2.3	2.7	1.6	142	47	0.82
Rangeview Library District/Anythink	0.33	16	11	19	3	130	4	1.6	1.4	0.9	346	43	0.53
Pueblo City-Co. Library District	0.80	17	41	42	7	152	11	1.5	1.7	2.1	287	36	2.18
High Plains Library District	0.71	13	26	20	5	86	7	1.4	1.2	2.2	578	36	0.94
Denver Public Library	0.84	21	36	19	6	143	10	1.8	3.1	2.3	1,159	41	1.12

3.4.2 Recommendations

To maintain sustainability within its current funding limits, the planning team suggests that PPLD might need to reduce the total number of outlets it operates. This recommendation highlights the importance of balancing operational efficiency and financial stability while ensuring the District can continue to offer effective services to the community.

3.5 FACILITY CONDITION ASSESSMENT

The FCA creates a comprehensive plan that identifies existing buildings, systems, and equipment that require repair, retrofitting, restoration, or maintenance to meet a PPLD-defined standard.

The result is a list of facility systems that are deficient. This information can be used to assist decision-makers in both short- and long-term budgeting and capital planning. The assessments provide facility managers and maintenance personnel with data to aid in prioritizing facility and system replacement and deferred maintenance (repair) projects.

Also, the FCA includes an energy analysis of existing facilities to identify opportunities to promote sustainability and stewardship of energy consumption. The energy analysis identifies opportunities to reduce utility consumption and cost.

3.5.1 Facility Condition Assessment Approach

The consultant teams approach to the FCA was defined in the following phases:

- **Phase 1** – Program Planning
- **Phase 2** – Pre-Assessment
- **Phase 3** – Facility Condition Assessment
- **Phase 4** – Post Assessment
- **Phase 5** – Reporting and Prioritization
- **Phase 6** – Energy Analysis

The consultant team collated and reviewed the facility information provided by PPLD. The consultant team worked closely with PPLD staff to gather relevant information to execute the scope of work. The information reviewed included:

- Drawings, one-line diagrams, Piping and Instrumentation Diagrams (P&IDs), specifications, and Operations and Maintenance (O&M) manuals.
- Building automation system information.
- Miscellaneous system and equipment information from the Computerized Maintenance Management System (CMMS) (i.e., Maximo or other).
- Previous reports or studies of the facilities and equipment.

The following systems were included in the Facilities Condition Assessment:

- Exterior equipment. Exterior equipment located at the facility associated with the assessed systems including emergency generators, chillers, cooling towers, compressors, lift stations, air conditioning units, etc.
- Substructure and superstructure. Structural elements such as foundations, basements, crawl spaces, accessible walkable tunnels, slabs, floor construction (floor and framing), roof construction (framing), and entrances.
- Architectural exteriors. Architectural elements including exterior enclosure assemblies (walls, soffits, doors, windows, storefront assemblies, curtain walls, etc.), roofing assemblies (insulation, membranes, built-up roofing, walkways, equipment curbs, skylights, vents, drainage, etc).
- Architectural interiors. Architectural interior construction (partitions, interior doors, and hardware), stairs (construction, and finishes), interior finishes (walls, floors, ceilings).
- Conveying systems. Elevators, lifts.
- Plumbing systems. The plumbing systems include piping, insulation, valves, equipment, and associated appurtenances. These systems include domestic water (hot and cold), temperature mixing valves, pumps, piping, tanks, domestic water boilers, water heaters, heat exchangers, unitary equipment, natural gas, meters, roof drains and piping, and the drain, waste, and vent systems. Kitchen plumbing systems are included.
- Compressed air systems. Compressors, dryers, filters, distribution piping, and appurtenances are included in the scope of work.
- Heating, ventilation, and air conditioning (HVAC) systems. The HVAC systems include air, water, and the building automation control systems.
- HVAC air systems. The air systems include, duct distribution, insulation, and appurtenances, air handling units, rooftop units, split systems, make up air units, infrared heaters, air curtains, furnaces, and unitary equipment (fan coil unit [FCUs], variable air volume [VAVs], unit/infrared [IR] heaters), exhaust systems, fans, heat pumps, and associated ductwork.
- HVAC water systems. The water systems include chilled water, geothermal systems, and heating hot water.
 - The chilled water system includes piping distribution, insulation chillers, cooling

- towers, tanks, pumps, heat exchangers, expansion tanks, and chemical treatment.
- The heating hot water system includes piping distribution, insulation, and appurtenances, boilers, flues, tanks, pumps, heat exchangers, expansion tanks, and chemical treatment.
- HVAC controls. The building automation system and building management systems include the user interface, controls, and distribution network of control panels, wiring, and devices. Compressed air systems for pneumatic controls, compressors, dryers, filters, piping distribution, and appurtenances.
- Fire protection systems. The fire alarm system includes the fire alarm control panels, horns, strobes, smoke, detectors, pull stations, carbon monoxide sensors, wiring, and appurtenances. The fire protection system includes pumps, jockey pumps, risers, standpipes, distribution piping, and sprinklers.
- Electrical systems. Electrical systems include meters, switchgear, main distribution panels, distribution panels, transformers, emergency generators, transfer switches, lighting systems, emergency lighting systems, uninterruptible power supply (UPS) systems, power conditioners, exterior lighting (parking lots and building) distribution systems, conductors, and appurtenances. Solar panels and inverters are included.

Assessments did not include the following systems:

- Grading, exterior stormwater piping/drainage, retention ponds, landscaping, irrigation, parking lots, paving, architectural fixed and moveable furnishings, labels, desks, chairs, cubicles, computers, shelving, monitors, artwork, decorations, telecommunications, information technology, public address systems, projectors, printers, kitchen equipment, ranges, refrigerators, ice makers, freezers, coffee makers, utensils, vending machines, security systems, cameras, card readers, sensors, and access control.

Facilities were categorized into two main groups: leased or owned. Each facility was then assessed to determine the systems that PPLD either owns outright or is responsible for under lease agreements. This categorization helps in understanding the extent of PPLD's responsibility for maintenance, upkeep, and investment in each facility.

The following groups were used to categorize the systems:

- Structural
- Architectural Exteriors
- Architectural Interiors
- Plumbing
- Mechanical
- Electrical
- Fire

Opinions of system replacement value costs were determined using a national database that considers the type of facility and geographic location. The sum of the system replacement values determines the facility replacement value (FRV).

3.5.2 Facility Condition Assessment Systems and Deficiency Categories

Once the facility and system configurations were complete, the consultant team conducted FCAs that included a visual observation of the systems that were safely and readily accessible. Equipment was not tested by cycling power, disassembly, nor operating any components. The systems were not functionally tested for operation and control. The consultant team coordinated with PPLD operations and maintenance staff to assist with documentation of known deficiencies and system/equipment-related issues. The consultant team interviewed the staff to understand the layout, capacity, size, operating parameters, and known issues with the facility and systems.

Each system received a condition rating of good, fair, or poor, and observed deficiencies were documented with a written recommendation and assigned an opinion of probable cost to remedy the issue. Each issue was assigned a deficiency category to inform the maintenance staff of the type of deficiency. These issues are systematically categorized into seven main areas for PPLD:

- **Safety:** Situations or conditions that pose an immediate danger to life, limb, or property, if the deficiency is not corrected.
- **Lifecycle (Age):** Systems or components that are at or near the end of their useful lifecycle.
- **Deficiency (Deferred Maintenance):** Potential for serious damage or risk to the building, systems, or operations of building systems if the deficiency is not corrected.
- **Maintenance:** Items associated with the routine maintenance of the facility, typically

corrected by the operations and maintenance staff.

- **Energy Conservation:** Amelioration or upgrading of the operating systems to reduce energy consumption or increase energy efficiency in the building.
- **Testing:** Issues identified in the field where the root cause cannot be determined by visual inspection. The issue may require further analysis, functional testing, destructive or non-destructive testing techniques.
- **Codes/Standards/ADA:** Building codes and/or institutional standards were not met during construction or renovation. ADA focuses on adherence to accessibility standards outlined in the Americans with Disabilities Act.
- **Environmental Improvements:** Correctable deficiencies that will improve system operations and increase the comfort level of the building occupants.

Also, each issue was assigned a deficiency priority of high, medium, or low to determine its urgency.

3.5.3 Facility Condition Index

Once the field assessments were complete, the data was checked for accuracy before modeling and reporting the results. Opinions of probable costs to correct deficiencies were developed based on RSMeans® Data (2023). These costs included vendor information and subject matter experts' opinions as necessary. The opinions do not reflect a project-ready budget as many of the items may be self-performed by PPLD, bundled to gain efficiencies, or may require additional cost for design and construction. These opinions represent the consultant team's best judgment as professionals. The following outlines the parameters of the opinions of probable cost (supplied only for the guidance of PPLD):

- The consultant team has no control over the cost of labor and material, competitive bidding, or market conditions.
- Each opinion is based on the consultant team's recent experience and adjusted to

accommodate factors known to the consultant team at the time the opinion was prepared.

- The consultant team does not guarantee the accuracy of the opinions as compared to actual bids or cost to PPLD.
- The recommendations are not bundled nor grouped together and are for "like for like" replacement unless noted otherwise.
- This scope of work excludes professional cost estimating.

The consultant team developed the following summary of FCA results to inform the future priorities, actions, and budgets for the Library District. One of the key metrics used to measure the condition of a facility is its Facility Condition Index (FCI). The FCI is defined by the following formula:

$$FCI = \left(\frac{\text{Total Facility Deferred Maintenance Cost (\$)}}{\text{Facility Replacement Value (\$)}} \right)$$

In the equation above, the total deferred maintenance cost is the sum of the total cost of the deficiencies (requirements) identified during the assessments. The facility replacement value is the sum of the current replacement values of the systems assessed. This ratio provides an index to compare the condition of facilities to one another to better understand the relative replacement value.

3.5.4 Facility Condition Scale

The FCI scale (Table 3.6) directly correlates to the amount of deferred maintenance a facility has. The FCI multiplied by 100 gives the percentage of deferred maintenance a facility currently has. For example, an FCI of 0.13 correlates to 13% deferred maintenance. Deferred maintenance is the practice of postponing maintenance activities such as repairs on real property to save costs, meet budget funding levels, or realign available budget monies. The failure to perform needed repairs could lead to asset deterioration and ultimately asset impairment.

Most organizations carry an amount of deferred maintenance, as it is cost-prohibitive to address every single deficiency as it occurs. The consultant team recommends each facility target the amount of deferred maintenance to 10%, or an FCI of 0.10. This allows flexibility in future capital planning and minimizes the risk of the facility falling into moderate to severe disrepair.

Table 3.6 Facility Condition Index Scale

Condition Rating:	FCI
New Facility	FCI = 0.0
Excellent Condition: Facility is maintained and has kept up with capital requirements. Target of an FCI = 0.10 is best in class for most facilities and organizations.	0.00 < FCI ≤ 0.10
Good Condition: Facility is generally maintained; deferred maintenance backlog is starting to accumulate. Facility requires low to moderate spending to address conditions.	0.10 < FCI ≤ 0.20
Fair Condition: Facility may be lacking routine maintenance; deferred maintenance backlog accumulating. Facility requires moderate levels of capital to address conditions.	0.20 < FCI ≤ 0.35
Poor Condition: Facility is likely lacking routine maintenance; deferred maintenance backlog is accumulating. Facility requires significant capital spending to address conditions.	0.35 < FCI ≤ 0.50
Extremely Poor Condition: Facility is lacking routine maintenance; deferred maintenance backlog has significantly accumulated. Facility requires significant capital spending to address conditions. Facility owner should evaluate if capital spending is appropriate versus other options such as demolishing and building new.	0.50 < FCI

Clockwise from top left: Farnsworth Group completed field assessments for all district branches, determining facility deficiencies and recommended pathways forward for PPLD. Some of the deficiencies include HVAC air and water systems, as pictured to the right.



3.5.5 Facility Condition Assessment Findings

Facility Condition Indexes

Table 3.7 shows the current FCI (2024) of each of the facilities and the total FCI of 0.096 or 9.6% deferred maintenance for all of the facilities (bottom right table value). The top 7 facilities on the list all have an FCI greater than 0.10. The table also shows the distribution of the condition of the facilities.

The facility replacement values were determined based on the systems that were assessed at each facility. The leased facility replacement values are significantly lower than the owned facilities because PPLD is responsible for only some of the systems in the facilities based on the individual lease agreements.

The current total deferred maintenance for all of the facilities is \$10.3M and the facility condition index illustrates that the aggregated facilities are in currently in good condition. This aligns with the observed conditions. However, some facilities need more attention than others. This table summarizes the current conditions (2024) and there were some facilities with significant aging infrastructure that will need to be addressed over the next 10 years.

Table 3.7
Current (2024) Facility Condition Indexes

Facility	Status (Leased/Owned)	Year Constructed	Age	Area (SF)	Facility Replacement Value (FRV)	FRV (\$/SF)	Deferred Maintenance Value	FCI
Palmer Lake Library	Leased	1982	42	1,574	\$135,742	\$86	\$54,607	0.402
Antlers Garage Facade	Owned	1968	56	1,000	\$607,913	\$608	\$222,725	0.366
Old Colorado City	Owned	1904	120	4,909	\$1,942,569	\$396	\$288,758	0.149
Monument Library	Leased	1995	29	7,536	\$1,513,182	\$201	\$218,940	0.145
East Library	Owned	1986	38	70,153	\$22,024,596	\$314	\$3,012,708	0.137
The Hall (KoC)	Owned	1928	96	11,988	\$3,817,347	\$318	\$495,722	0.130
Penrose Carnegie Library	Owned	1968	56	78,831	\$24,672,964	\$313	\$2,561,740	0.104
Ruth Holley Library	Leased	1978	46	10,469	\$1,411,326	\$135	\$138,812	0.098
Library 21C	Owned	1985	39	115,058	\$36,327,273	\$316	\$2,759,787	0.076
Sand Creek Library	Owned	1988	36	14,060	\$4,907,056	\$349	\$355,626	0.072
Calhan Library	Owned	2006	18	2,400	\$933,020	\$389	\$40,721	0.044
Rockrimmon Library	Leased	1985	39	8,668	\$1,104,563	\$127	\$47,277	0.043
Fountain Library	Owned	1979	45	9,582	\$3,367,531	\$351	\$107,147	0.032
Cheyenne Mountain Library	Leased	1985	39	8,900	\$1,914,212	\$215	\$14,790	0.008
High Prairie	Owned	2010	14	6,008	\$2,297,423	\$382	\$11,122	0.005
Ute Pass Library	Leased	1935	89	2,123	\$301,296	\$142	\$-	0.000
Totals/Average			50	353,259	\$107,278,012	\$290	\$10,330,482	0.096

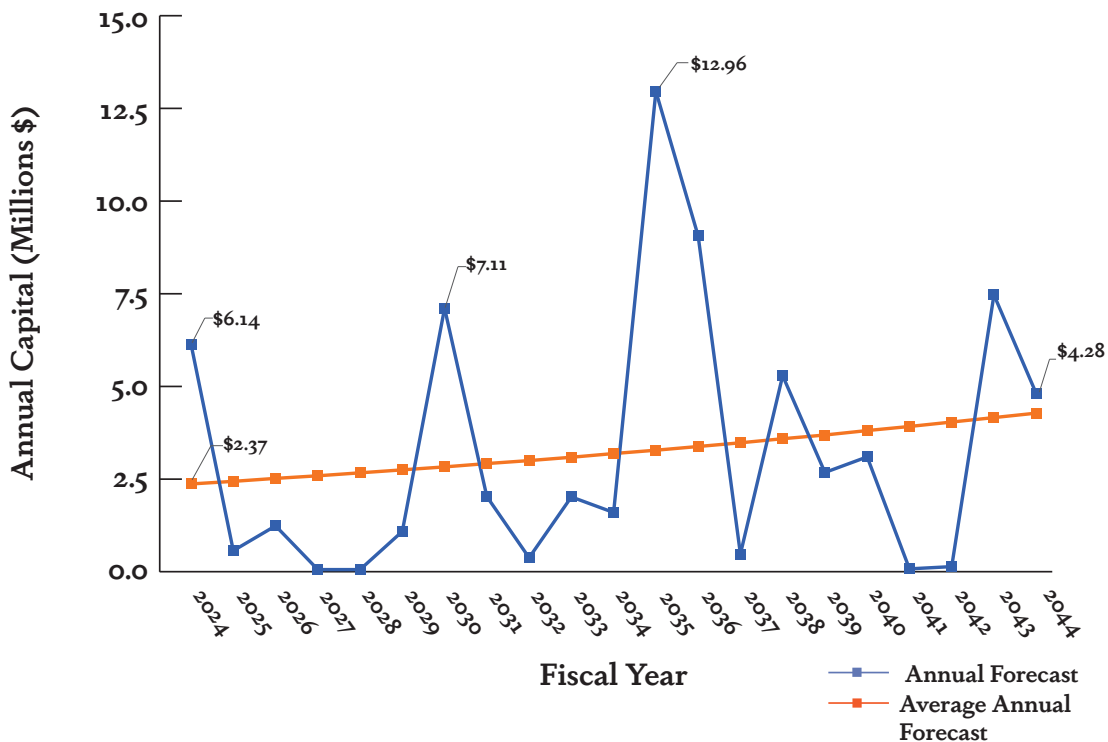
20-Year Facility Capital Forecast

The consultant team created a forecast for PPLD facilities over the next 20 years (Figure 3.14). This chart shows the forecasted annual spending and average spending for the facilities in the current PPLD portfolio. It illustrates the current and future states of the modeled capital expenditure required for the facilities. It validates the FCA observed conditions, provides insight into future capital spending requirements, and informs the acceptable level of deferred maintenance and prioritization of spending in future years. It is important to note that the chart below illustrates the conditions to address “all” deferred maintenance and does not reference a target of annual deferred maintenance

to carry as backlog for the facilities. Again, the deferred maintenance target for the individual facilities is 10%, or an FCI of 0.10.

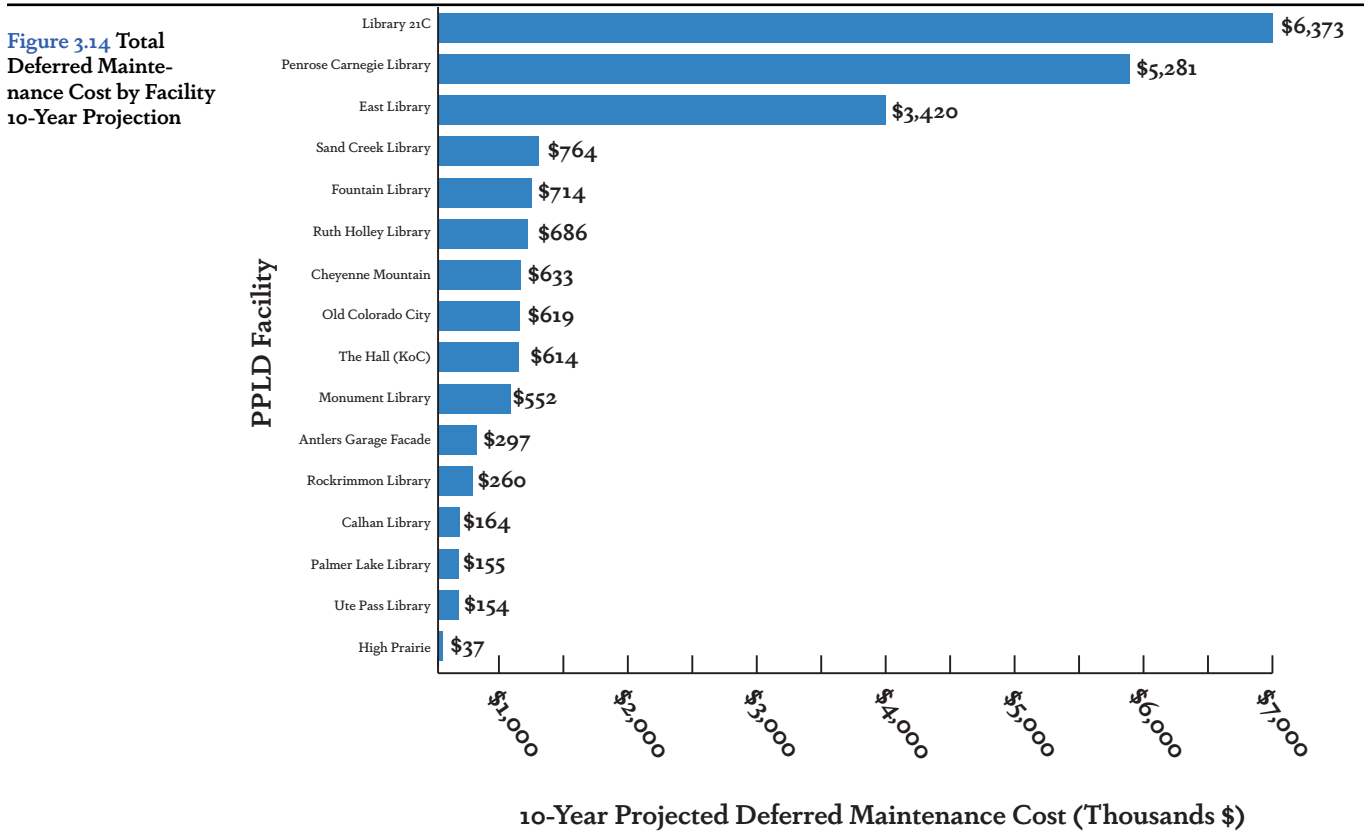
The forecast shows the projected average (orange) and annual (blue) spending to address all of the facility deferred maintenance over the next 20 years. The 10-Year budget planning window at the bottom left of the figure shows the amount of deferred maintenance that is projected to occur over the next 10 years, totaling \$20.7M. The goal of this effort is to develop a prioritized 10-year budget forecast to keep the deferred maintenance around a level of 10% or an FCI of 0.10. Based on the facility replacement values the deferred maintenance should always be at or less than \$10.7M.

Figure 3.13 20-Year Facility Capital Forecast (FCI = 0.0)



Total Deferred Maintenance Cost by Facility

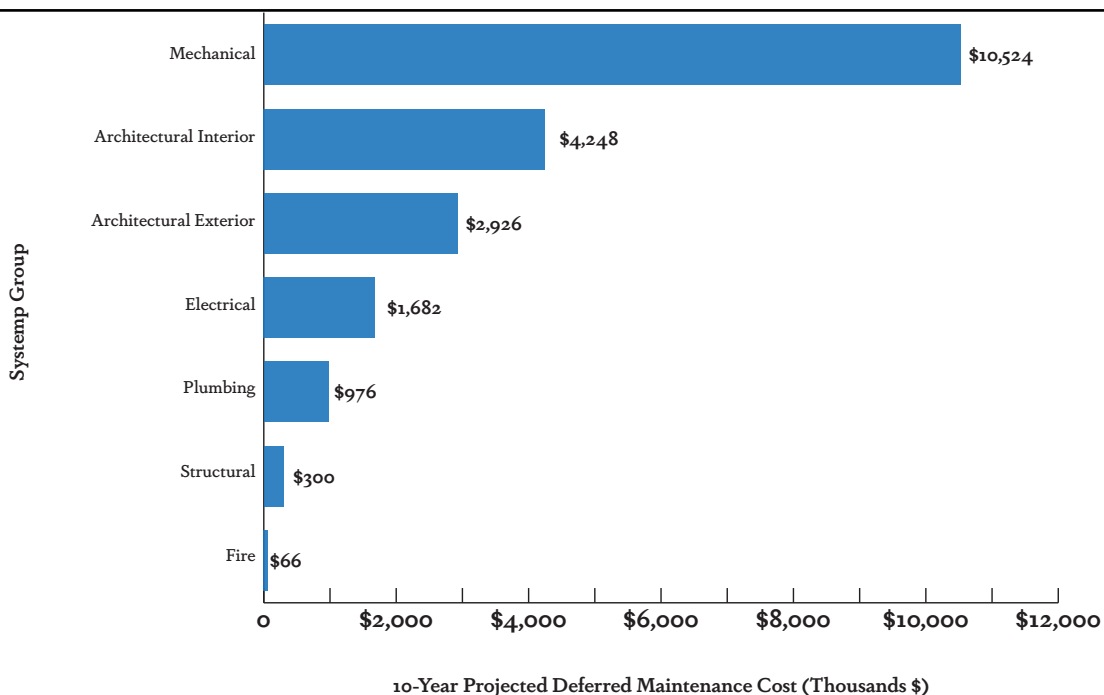
Figure 3.15 shows the 10-year forecast of deferred maintenance by facility. The larger owned facilities, 21C, East, and Penrose/Carnegie account for ~\$15M (72%) of the total deferred maintenance (\$20.7M) over the next 10 years. The smaller and leased facilities account for ~\$5.7M (28%) of the total deferred maintenance.



Total Deferred Maintenance Cost by Deficiency Category

Table 3.8 shows the 10-year forecast of deferred maintenance by deficiency category. A majority of the deferred maintenance in both the number of issues and forecast cost are due to aging equipment and systems (lifecycle). The lifecycle category accounts for \$19.6M (94.7%) of the total deferred maintenance over the next ten years. The high number of lifecycle category deferred maintenance items indicates that the maintenance staff is doing a good job keeping up with routine maintenance and a majority of the items are due for replacement based on systems and equipment age. The remaining categories account for \$1.1M (5.3%) of the deferred maintenance.

Figure 3.15 Total Deferred Maintenance Cost by System Group 10-Year Projection



Total Deferred Maintenance Cost by Deficiency Category

Table 3.8 shows the 10-year forecast of deferred maintenance by deficiency category. A majority of the deferred maintenance in both the number of issues and forecast cost are due to aging equipment and systems (lifecycle). The lifecycle category accounts for \$19.6M (94.7%) of the total deferred maintenance over the next ten years. The high number of lifecycle category deferred maintenance items indicates that the maintenance staff is doing a good job keeping up with routine maintenance and a majority of the items are due for replacement based on systems and equipment age. The remaining categories account for \$1.1M (5.3%) of the deferred maintenance.

Table 3.8 Deferred Maintenance Forecast by Deficiency Category - 10-Year Projection

Deficiency Category	No. of Deficiencies	% of Deficiencies	10-Year Forecasted Cost	% of Forecast Cost
Lifecycle	214	64.5%	\$19,630,400	94.7%
Deficiency	79	23.8%	\$569,563	2.7%
Maintenance	13	3.9%	\$154,173	0.7%
Safety	11	3.3%	\$193,896	0.9%
Codes & Standards	8	2.4%	\$69,105	0.3%
Testing	3	0.9%	\$50,490	0.2%
Abandoned	2	0.6%	\$39,270	0.2%
ADA	2	0.6%	\$16,320	0.1%
Totals	332	100.0%	\$20,723,217	100.0%

10-Year Capital Budget Forecast

The consultant team developed a 10-year prioritized capital plan to forecast future facility needs over the next decade. The goal of the plan is to keep each of the facilities at an FCI target of 0.10 (10% deferred maintenance) over the next 10 years.

The results of the budget analysis shown in Figure 3.17 illustrate an annual capital forecast to address deferred maintenance over the next 10 years of \$1.2M dollars per year. The chart shows the fluctuations of the FCI over the budget period, the goal of the budget is at the end of the period to have an FCI of 0.10 in 2034. The annual budget was prioritized to determine the order in which the deferred maintenance should be addressed.

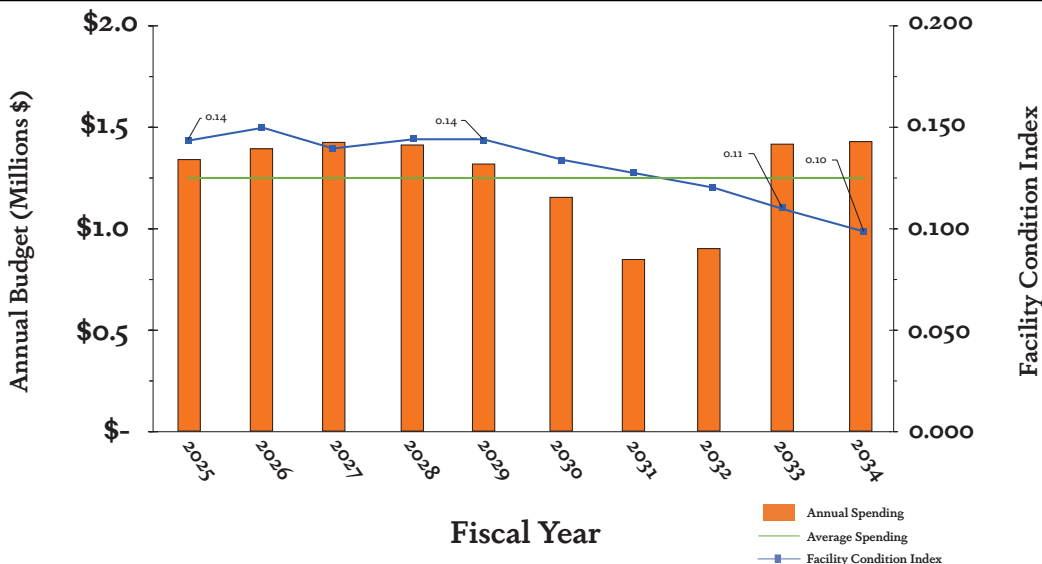
A ranking strategy was created by evaluating the requirement (deficiency) category, the requirement

priority, and the system condition rating.

Based on the ranking strategy each requirement was assigned a rank in the prioritized budget forecast. Appendix D - FCA Prioritized Requirements contains a complete list of the requirements for the next ten years with a calculated priority and proposed budget year. The total capital budget forecast is \$12M over the next ten years. This funding level includes an inflation rate of 3% per year and an additional 10% contingency to account for any soft costs or costs due to unknown construction conditions.

By leveraging insights from the FCA and utilizing the FCI scale, the report provides a comprehensive assessment of facility conditions, enabling informed decision-making and prioritization of deferred maintenance and improvement efforts.

Figure 3.16 10-Year Capital Budget Forecast and Impact on FCI



Budget Forecast by Facility - 10-Year Projection

Table 3.9 shows the 10-year budget forecast of deferred maintenance by facility. A majority of the deferred maintenance \$9.48M (78.8%) occurs in the three largest owned facilities, 21C, East, and Penrose/Carnegie. The remainder of the budget \$2.56M (21.2%) is spread across the remaining smaller facilities that are either leased or owned. These results are in alignment with the observed conditions of the assessed systems at each of the facilities.

The consultant has prepared supplemental report information not included in the appendices due to the size and format of the data and information. The supplemental information delivered under separate cover includes the following folders:

- Asset Detail Report
- Systems Report
- Requirements Report
- System Condition Index Report
- Facility Renewal Forecast
- Funding Impact on FCI
- 10-Year Capital Budget
- Energy Report
- FF&E Report
- All Software Fields

These files are delivered in both Portable Document Format (.pdf) and Microsoft Excel (.xlsx) file formats for PPLD's use.

Table 3.9
Budget Forecast by
Facility - 10-Year
Projection

Facility	Status (Leased/Owned)	Year Constructed	Age	Area (SF)	Facility Replacement Value (FRV)	FRV (\$/SF)	Deferred Maintenance Value	FCI
Palmer Lake Library	Leased	1982	42	1,574	\$135,742	\$86	\$54,607	0.402
Antlers Garage Facade	Owned	1968	56	1,000	\$607,913	\$608	\$222,725	0.366
Old Colorado City	Owned	1904	120	4,909	\$1,942,569	\$396	\$288,758	0.149
Monument Library	Leased	1995	29	7,536	\$1,513,182	\$201	\$218,940	0.145
East Library	Owned	1986	38	70,153	\$22,024,596	\$314	\$3,012,708	0.137
The Hall (KoC)	Owned	1928	96	11,988	\$3,817,347	\$318	\$495,722	0.130
Penrose Carnegie Library	Owned	1968	56	78,831	\$24,672,964	\$313	\$2,561,740	0.104
Ruth Holley Library	Leased	1978	46	10,469	\$1,411,326	\$135	\$138,812	0.098
Library 21C	Owned	1985	39	115,058	\$36,327,273	\$316	\$2,759,787	0.076
Sand Creek Library	Owned	1988	36	14,060	\$4,907,056	\$349	\$355,626	0.072
Calhan Library	Owned	2006	18	2,400	\$933,020	\$389	\$40,721	0.044
Totals/Average			50	353,259	\$107,278,012	\$290	\$10,330,482	0.096

3.5.6 Energy Analysis

In conjunction with the FCA, a cursory energy assessment was performed on the facilities. The scope of this effort specifically excluded energy auditing of the facilities. Utility bill analysis, payback calculations (returns on investment [ROIs]), nor any other detailed energy analysis were performed on the facilities. The goal of this effort was to review PPLD-provided information, document energy measures observed in the facilities, and review control systems at Penrose, East, and 21C. The consultant team compiled a list of potential energy measures with an opinion of probable cost to either study and/or implement the measure. This analysis will help PPLD staff develop an energy master plan, define future energy projects, and implement the necessary steps to reduce energy consumption, utility costs, carbon footprint, and ensure regulatory energy compliance.

The FCA energy assessment included the following three tasks:

1. Reviewing the previous energy reports provided by PPLD, including the following:
 - a. Walk-Through Audit Service: East Library (July 18, 2005, Colorado Springs Utilities).
 - b. Walk-Through Audit Service: Penrose Library (March 30, 2006, Colorado Springs Utilities).
 - c. Energy Audit Service: 1175 Chapel Hills Road (Library 21C) (November 1, 2012, Colorado Springs Utilities)
 - d. While the reports are more than a decade old, they contain energy recommendations that are still relevant to East Library, Penrose Library, and Library 21C. The consultant team reviewed the documents and created a list of energy measures that are still pertinent to reduce the current energy consumption and utility costs at these facilities.
2. The consultant team documented energy measures at each of the facilities during the FCA site visits. These measures were documented with a brief description of the measure or the next steps to further understand the measure. An opinion of probable cost to implement the measure or define the next steps is included with each opportunity.

3. The consultant team performed a cursory review of the facility controls at East Library, Penrose Library, and Library 21C. These facilities had full or partial building automation systems (BAS) controlling the systems and equipment. The consultant team reviewed the control screens and discussed the operations of the controls with PPLD staff. When control systems are not operating properly, operations and maintenance staff can struggle with troubleshooting efforts, energy use can increase, and equipment and systems can prematurely degrade. The consultant team documented control issues and recommended measures with opinions of cost to remedy the deficiencies.

The energy measures from the three tasks were added to the list of energy measures.

Currently there is one known regulatory compliance issue concerning LED lighting that PPLD will need to address in the current year (2024). Recently the Colorado Legislature passed Colorado House Bill (HB) 23-1161, Section 8, establishing the Clean Lighting Act to phase out the sale of general-purpose fluorescent light bulbs that contain mercury. With certain exceptions, on and after January 1, 2025, a person shall not manufacture, distribute, sell, or offer for sale in Colorado any linear florescent lamp or compact fluorescent lamp. Based on the Clean Lighting Act, PPLD will need to evaluate the current lighting systems and develop a strategy to upgrade or replace fluorescent lighting systems or lamps in some of its facilities. While this is an act to address the environmental impact of mercury, there are also potential reductions in energy and maintenance savings based on the regulation. The LED lighting measures were captured and added to the list of energy measures.

Table 3.10, Energy Assessment Findings, shows the summary of each of the 47 identified measures along with an opinion of cost and a priority for the measure. The total opinion of cost for all of the measures is \$1.95M. The table can be summarized by three categories: lighting measures (Category 1); RCx (Retro Commissioning), energy audit and test, adjust, and balance (TAB) measures (Category 2); and other measures (Category 3).

Table 3.10
Energy Assessment Findings

No.	Facility	Energy Measure	Category	Opinion of Probable Cost	Priority	Category
1	Palmer Lake Library	Replace Window AC units (Dx Cooling only)	3	\$15,628	03 - Low	3
2	Palmer Lake Library	Provide Programmable Thermostats (Baseboard)	3	\$1,288	01 - High	3
3	Palmer Lake Library	Upgrade Lighting Fixtures/Controls to LED	1	\$5,509	01 - High	1
4	Monument Library	Replace Single-Pane Windows	3	\$128,520	03 - Low	3
5	Monument Library	Evaluate Energy Billing - Electrical	3	\$800	01 - High	3
6	Monument Library	Upgrade Lighting Fixtures/Controls to LED	1	\$26,376	01 - High	1
7	Library 21C	Upgrade Lighting Fixtures/Controls to LED	1	\$402,703	01 - High	1
8	Library 21C	Troubleshoot and Correct Baseboard Controls	3	\$3,500	01 - High	3
9	Library 21C	Troubleshoot and Correct Lighting Controls	3	\$2,500	01 - High	3
10	Library 21C	Provide RCx, Energy Audit, TAB	2	\$182,587	01 - High	2
11	Library 21C	Variable Volume Pumping - HHW	3	\$8,000	01 - High	3
12	Library 21C	Return Air Path Corrections (AHU-3, AHU-4, AHU-6)	3	\$7,200	01 - High	3
13	Library 21C	Variable Volume Pumping - CHW	3	\$6,000	02 - Medium	3
14	Library 21C	Night Setback Schedules - Facility	3	\$2,400	01 - High	3
15	Library 21C	Update Controls Graphics - Facility	3	\$5,600	02 - Medium	3
16	Library 21C	Variable Volume Air Flow - AHUs	3	\$16,000	01 - High	3
17	Rockrimmon Library	Upgrade Lighting Fixtures/Controls to LED	1	\$30,338	01 - High	1
18	Calhan Library	Upgrade Lighting Fixtures/Controls to LED	1	\$8,400	01 - High	1
19	Calhan Library	Correct Lighting Controls	3	\$500	01 - High	3
20	East Library	Supply Temperature Reset - HHW	3	\$2,400	01 - High	3
21	East Library	Troubleshoot and Correct Baseboard Controls	3	\$3,500	02 - Medium	3
22	East Library	Repair/Install Operable Window Shades	3	\$40,392	02 - Medium	3
23	East Library	Provide RCx, Energy Audit, TAB	2	\$122,216	01 - High	2
24	East Library	Upgrade Lighting Fixtures/Controls to LED	1	\$245,536	01 - High	1
25	East Library	Correct Variable Volume Air Flow - VAV Boxes	3	\$8,800	01 - High	3
26	East Library	Simultaneous Heating & Cooling - VAV & Baseboard	3	\$3,200	01 - High	3

Table 3.10
Energy Assessment
Findings, continued

No.	Facility	Energy Measure	Category	Opinion of Probable Cost	Priority	Category
27	East Library	Correct Fan Sequences - AHUs / VFDs	3	\$5,200	01 - High	3
28	East Library	Demand Control Ventilation Corrections ? AHU-10	3	\$5,600	01 - High	3
29	East Library	Night Setback Schedules - Facility	3	\$2,400	01 - High	3
30	East Library	Space Temperature Corrections - VAVs	3	\$3,200	01 - High	3
31	East Library	Update Controls Graphics - Facility	3	\$5,600	02 - Medium	3
32	Ruth Holley Library	Upgrade Lighting Fixtures/Controls to LED	1	\$36,642	01 - High	1
33	Cheyenne Mountain Library	Upgrade Lighting Fixtures/Controls to LED	1	\$31,150	01 - High	1
34	Old Colorado City Library	Upgrade Lighting Fixtures/Controls to LED	1	\$17,182	01 - High	1
35	Sand Creek Library	Upgrade Lighting Fixtures/Controls to LED	1	\$49,210	01 - High	1
36	Fountain Library Energy	Upgrade Lighting Fixtures/Controls to LED	1	\$33,537	01 - High	1
37	Penrose/Carnegie Library	Upgrade Lighting Fixtures/Controls to LED	1	\$275,909	01 - High	1
38	Penrose/Carnegie Library	Provide Additional VFD	3	\$11,713	03 - Low	3
39	Penrose/Carnegie Library	Provide RCx, Energy Audit, TAB	2	\$128,247	01 - High	2
40	Penrose/Carnegie Library	Update Controls Graphics - Facility	3	\$5,600	02 - Medium	3
41	Penrose/Carnegie Library	Night Setback Schedules - Facility	3	\$2,400	01 - High	3
42	Penrose/Carnegie Library	Simultaneous Heating & Cooling & Economizer - AHU-2	3	\$3,200	01 - High	3
43	Penrose/Carnegie Library	Correct Operating Parameters - RTU-2	3	\$2,400	01 - High	3
44	Penrose/Carnegie Library	Space Temperature Corrections - AHUs & VAVs	3	\$8,400	01 - High	3
45	Penrose/Carnegie Library	Correct Garage Area HVAC - MAU-1	3	\$1,600	02 - Medium	3
46	The Hall (KoC)	Upgrade Lighting Fixtures/Controls to LED	1	\$41,958	01 - High	1
47	Antlers Facade Park- ing Structure	Upgrade Lighting Fixtures/Controls to LED	1	\$3,500	01 - High	1
Total:				\$1,954,541		

AHU: air handling unit, CHW: chilled water, HHW: heating hot water, MAU: makeup air unit, RTU: rooftop unit, VAV: variable air volume, VFD: variable frequency drive

Table 3.11
Energy Assessment
Categories

Category	Facility	Energy Measure	Opinion of Probable Cost	%
1	All Facilities	Upgrade Lighting Fixtures/Controls to LED	\$1,207,950	61.8%
2	All Facilities	Provide RCx, Energy Audit, TAB	\$433,050	22.2%
3	All Facilities	Other Measures	\$313,541	16.0%
Total:			\$1,954,541	

Category 1, Upgrade Lighting Fixtures/Controls to LED, includes measures to upgrade the lighting fixtures based on the Colorado HB23-1161, Section 8. While this is a regulatory requirement, it is listed under the energy audit as an opportunity to reduce electric utility costs. The opinion of probable cost to implement the lighting upgrades at the facilities is \$1.2M. With HB23-1161 going into effect on January 1, 2025, the lighting upgrades are a high priority to PPLD. The lighting projects are excluded from the FCA results, making this a separate cost from the FCA results. PPLD should evaluate the best option to comply with the bill moving forward. The consultant team recommends calculating and tracking the energy savings based on the LED lighting measures.

Category 2, Provide RCx, Energy Audit, TAB, focuses on the three larger facilities that have significant energy opportunities due to the facility size and the presence of building automation systems (electronic controls). This measure is to perform simultaneous retro-commissioning, energy auditing, and TAB of the building systems. This effort includes a thorough review of the occupancy, use, controls, setpoints, sequences of operations, energy use, and operating parameters. The project would include TAB of the HVAC and hydronic systems along with controls testing and validation with a licensed controls contractor. It includes performing energy calculations for savings and reviewing past energy reports for opportunities to save on utility consumption, costs, and reduce the facility's carbon footprint. The cost for the three facilities is \$433k and includes Library 21C, East Library, and Penrose Library. Based on the energy assessment, these facilities present the largest opportunities for energy savings when compared to the other facilities. The cost is to establish a facility baseline and determine which measures should be developed into projects based on energy savings. As a starting point for the energy audit, the consultant team recommends utilizing this report and the original Colorado Springs Utilities (CSU) reports with previously identified energy measures. The consultant team recommends coordinating all energy measures with the replacement of systems or components

based on condition and lifecycle (age) to minimize the cost of implementation. These items are in addition to the FCA costs.

Category 3: Includes a list of all energy measures identified during the assessments at each facility, including the control system reviews at the larger facilities. The estimated cost for these measures is \$315k. These measures are individually listed for each facility. If PPLD chose to implement the Category 2 items at any of the three larger facilities; 21C, East, and Penrose, the energy measures for those facilities would be removed from the Category 3 measures list. There is redundancy between the Category 2 and Category 3 measures for the larger facilities. The estimated cost of the Category 3 measures for the three larger facilities; 21C, East, and Penrose is \$167k and for the remaining Facilities is \$147k .

A full list of the measures with descriptions is located in Appendix E – Energy Assessment Findings. Energy savings, paybacks, and return on investment calculations were not performed nor validated for the identified measures. Many of the measures do not include construction costs but do include the costs to evaluate and define the measure.

LIBRARY ASSESSMENTS

LIBRARY INSIGHTS: ASSESSMENTS & RECOMMENDATIONS FOR PROGRESS

This chapter offers a detailed overview of the current state of each library and outlines key observations and recommendations identified through the assessments defined in previous chapters. By synthesizing the findings from both types of assessments, Chapter 4 provides valuable insights into the facilities' physical conditions, program offerings, and areas for improvement, serving as a crucial reference for informing future planning and development initiatives within PPLD.

4.1 LIBRARY ASSESSMENTS OVERVIEW

Common themes that arose during individual facility visits from a program assessment perspective were as follows:

- **Open Hours:** Community member feedback highlighted the importance of library operating hours in meeting the needs of patrons, with considerations for accommodating diverse schedules and access preferences.
- **Community Programs:** Insights gathered underlined the significance of community-centric programs and events hosted by the library, emphasizing the role of such initiatives in fostering engagement, learning, and social connections within the community.
- **Staffing Deficiencies:** Staff and community interviews revealed challenges related to staffing levels, highlighting the importance of adequate staffing to ensure efficient library operations and quality of service.
- **Book Selection and Availability:** Community feedback reflects preferences and expectations regarding the library's book collection, including diversity, relevance, and availability of materials to cater to varied interests and information needs.
- **Facility Size:** Facility assessments considered whether spaces were adequate for accommodating programs, collections, and patron activities, with attention to optimizing the use of available space and addressing any limitations or constraints.
- **Accessibility to Resources:** Both staff and community interviews highlight the importance of enhancing accessibility to resources such as maker spaces, computers, and various technology tools, acknowledging their role in promoting creativity and skill development among library users.

PIKES PEAK LIBRARY DISTRICT AT A GLANCE

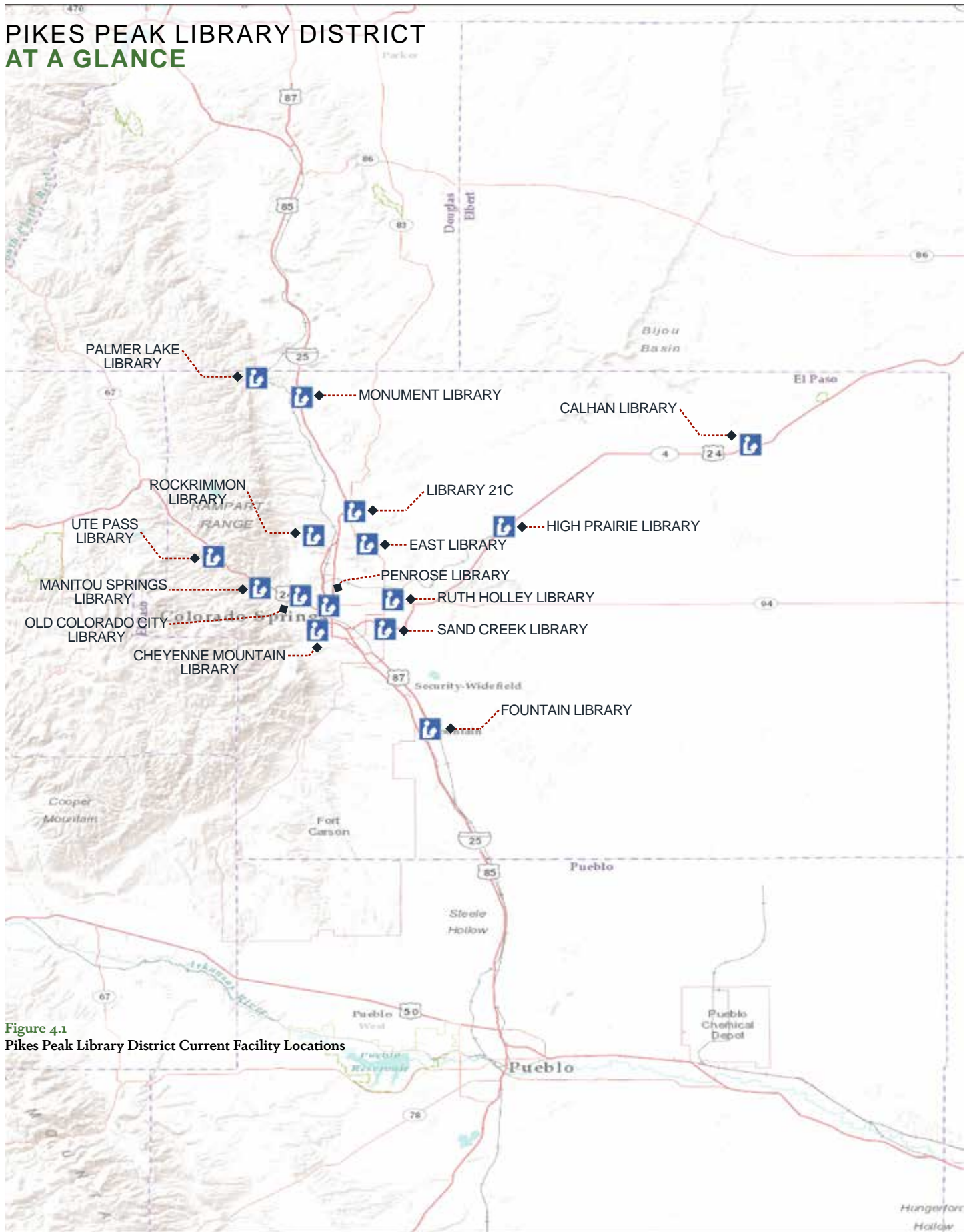


Figure 4.1
Pikes Peak Library District Current Facility Locations

CALHAN LIBRARY

8,266

Population within a 15-minute drive

539

User base within a 15-minute drive

427

User registrations

389

User "last checkouts"

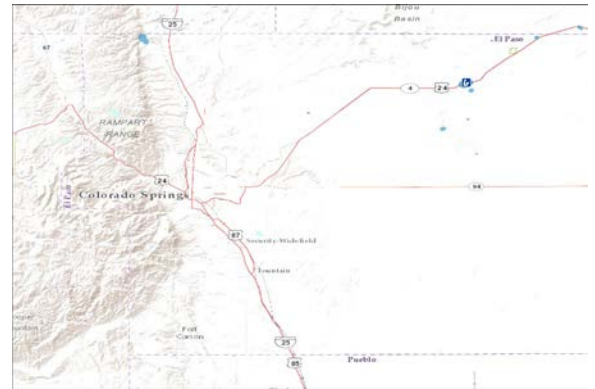
13

Average busyness index

0.04

FCI

Calhan Library originally opened in 1977 but closed in 1982. It was reopened in 2019 in a pre-existing, 2,400-square-foot facility built in 2006, which is owned by the Pikes Peak Library District.



Library Services Overview

<p>Key Programmatic Issues</p>	<ul style="list-style-type: none"> • Children and teen programming • Inconvenient hours • Staffing deficiency/weather closures
<p>Key Condition Issues</p>	<ol style="list-style-type: none"> 1. Lifecycle: <ul style="list-style-type: none"> • Electrical: fire alarm, alarm, internet renewal • Roof coverings and openings Renewal 2. Deficiency: <ul style="list-style-type: none"> • Investigate/repair foundation • Repair and repaint damaged ceiling • Repair roofing - ridge cap • Repair/eliminate water infiltration • Replace unit heaters 3. Codes and Standards <ul style="list-style-type: none"> • Provide fire protection

4.1.1 Program Site Findings

- The facility would benefit from an unstaffed controlled access self-serve mode, allowing access to the facility during unstaffed hours.

4.1.2 Facility Condition Assessment Findings

- This owned facility is in excellent condition. There is currently little deferred maintenance to be performed.
- Recommend repairing the listed deficiencies that will further deteriorate the systems and increase capital costs if not remedied. These items include roof repairs and water infiltration.
- Recommend addressing items in the long-range, 10-year capital plan that includes budget years 2026 through 2034. These items include capital replacement of HVAC, plumbing, architectural interiors, architectural exteriors, and roofing. Refer to Appendix D, "PPLD FCA Prioritized Requirements", which is attached separately from this document.

CHEYENNE MOUNTAIN LIBRARY

293,987

Population within a 15-minute drive

44,485

User base within a 15-minute drive

9,683

User registrations

6,500

User "last checkouts"

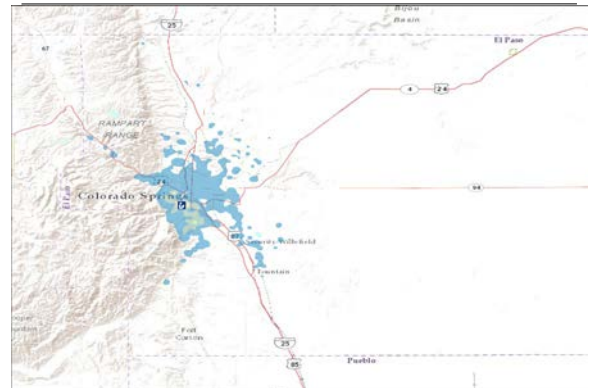
4

Average busyness index

0.01

FCI

The Cheyenne Mountain Library was opened in 1993, replacing the Broadmarket Square Library. The library is housed in a 8,900-square-foot facility that was built in 1985 and is leased to Pikes Peak Library District.



Library Services Overview

Key Programmatic Issues	<ul style="list-style-type: none"> • Inconsistent hours of operation • Desire for Wednesday hours • Desire for maker spaces • Book selection • Facility size
Key Condition Issues	<p>1. Deficiency:</p> <ul style="list-style-type: none"> • Book drop openings are leaking • Corroding exterior windows • Exterior door seals • Rusted stub out

4.1.3 Program Site Findings

- The Cheyenne Mountain Library is a busy location that requires more space. It would be preferable to move from a leased facility, but finding alternatives in this area is challenging. Although high operational costs might suggest closure in a level-funding scenario, nearby alternatives would not effectively serve existing users, which makes closure less likely.

4.1.4 Facility Condition Assessment Findings

- The leased facility is in excellent condition with minimal deferred maintenance. However, we recommend addressing identified issues to prevent further system deterioration and increased capital costs. These issues include door seals and water infiltration in the book drop.
- Address items in the 10-year capital plan (2026-2034), including HVAC, plumbing, interiors, electrical, and roofing replacements. Refer to Appendix D, "PPLD FCA Prioritized Requirements", which is attached separately from this document.

EAST LIBRARY

402,045

Population within a 15-minute drive

70,829

User base within a 15-minute drive

33,582

User registrations

21,475

User "last checkouts"

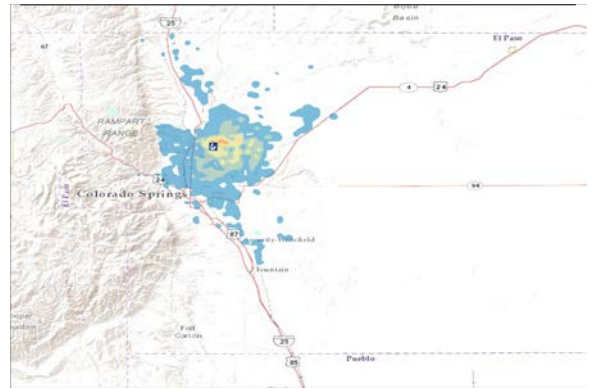
7

Average busyness index

0.12

FCI

The East Library was opened in 1987. The library is housed in a 70,153-square-foot facility that was built in 1986 and is owned by Pikes Peak Library District.



Library Services Overview

Key Programmatic Issues	<ul style="list-style-type: none"> • Improve layout and staff spaces • Enhance bookshelf display/service points • Meeting room scheduling/dividers • Reconfigure adolescent/teen spaces • Provide quiet, spacious seating/study areas • Add outdoor furniture • Address parking lot insufficiency • Expand/upgrade sorting system
Key Condition Issues	<ol style="list-style-type: none"> 1. Safety <ul style="list-style-type: none"> • Electrical maintenance on exit/emergency lights • Investigate Fire Department Connection (FDC) fail 2. Lifecycle <ul style="list-style-type: none"> • Fan coil unit - FCU-1 renewal 3. Deficiency <ul style="list-style-type: none"> • Clean/repair unit heaters • Divert drainage under reading terrace • Provide isolation valves (HHW & CHW) • Repair and caulk all windows • Repair and repaint walls • Repair hard lid ceiling • Repair restroom tiles • Repair terrace slab • Replace ceiling tiles where needed • Replace/repair exhaust fans 4. Maintenance <ul style="list-style-type: none"> • Electrical maintenance on disconnect switches • Electrical maintenance on main switchboard • Electrical maintenance on Motor Control Centers (MCC) • Electrical maintenance on panel boards 5. Testing <ul style="list-style-type: none"> • HHW & CHW piping condition

4.1.5 Program Site Findings

- East Library’s design and layout are inefficient, requiring a renovation or rethinking of both public and staff spaces to improve usability and efficiency. A more intuitive layout, streamlined public spaces, and reorganized staff areas are needed.
- The library has untapped potential in its views, size, and location. Renovations could better utilize these assets and enhance outdoor spaces for community use.

4.1.6 Facility Condition Assessment Findings

- This owned facility is in good condition but has some deferred maintenance that needs to be addressed to meet the FCI target of 0.10. Prioritize safety-related deficiencies.
- Address long-range capital needs from 2026-2034, including HVAC, architectural interiors, elevator, and fire systems. Refer to Appendix D, “PPLD FCA Prioritized Requirements”, which is attached separately from this document.

FOUNTAIN LIBRARY

128,684

Population within a 15-minute drive

9,225

User base within a 15-minute drive

6,462

User registrations

2,684

User "last checkouts"

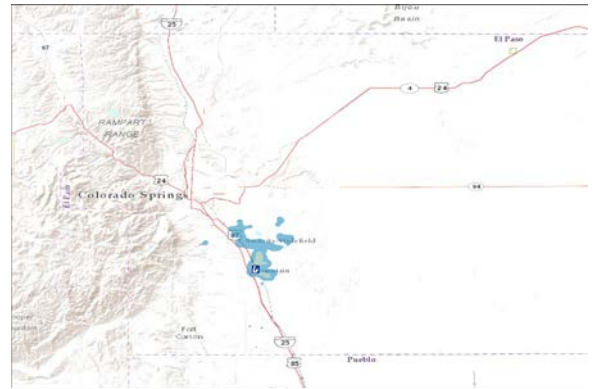
10

Average busyness index

0.03

FCI

The Fountain Library was constructed and opened in 2006. The library is housed in a 9,582-square-foot facility that Pikes Peak Library District owns.



Library Services Overview

<p>Key Programmatic Issues</p>	<ul style="list-style-type: none"> • Accessibility concerns, particularly with doors and pavement • Desire for more pods and fewer study rooms • Desire for better outdoor space and improved facility maintenance • More sounds/noise mitigation needed (acoustic panels and treatments)
<p>Key Condition Issues</p>	<ol style="list-style-type: none"> 1. Deficiency <ul style="list-style-type: none"> • Adjust door, frame, and closer • Caulk foundation joint • Investigate slab settlement • Mitigate flange rust and spalling • Repair crack in gyp board • Replace damaged tile • Replace eroding scupper • Replace missing strainer • Route water away from the foundation 2. Maintenance <ul style="list-style-type: none"> • Perform disconnect maintenance • Perform panel board maintenance 3. Testing <ul style="list-style-type: none"> • Investigate temperature differences

4.1.7 Program Site Findings

- Fountain Library is probably the facility in least need of changes or significant updates. It is serving its users well, especially relative to other PPLD outlets.

4.1.8 Facility Condition Assessment Findings

- This owned facility is in excellent condition. There is currently little deferred maintenance to be performed. Recommend repairing the listed deficiencies that will further deteriorate the systems and increase capital costs if not remedied. These items include the deficiencies, routing water away from the foundation, and caulking the foundation.
- Recommend addressing items in the long-range, 10-year capital plan that includes budget years 2026 through 2034. These items include capital replacement of HVAC, plumbing, architectural interiors, architectural exteriors, and roofing. Refer to Appendix D, "PPLD FCA Prioritized Requirements", which is attached separately from this document.

HIGH PRAIRIE LIBRARY

291,480

Population within a 15-minute drive

37,926

User base within a 15-minute drive

7,958

User registrations

3,926

User "last checkouts"

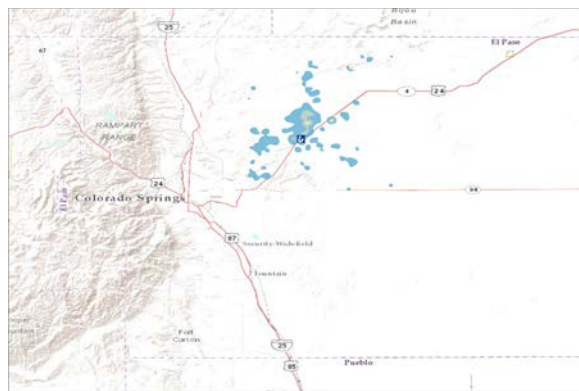
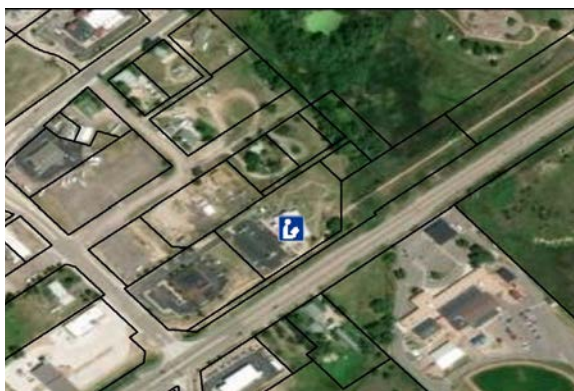
3

Average busyness index

0.00

FCI

The High Prairie Library is a 6,008-square-foot facility owned by Pikes Peak Library District that has been serving the community since its opening in 2010.



Library Services Overview

Key Programmatic Issues	<ul style="list-style-type: none"> • Facility size is too small • Desire for improved space aesthetic • Lack of staff bathrooms and space
Key Condition Issues	<ol style="list-style-type: none"> 1. Safety <ul style="list-style-type: none"> • Chrome ceiling fan blades cause sun strobe effect 2. Deficiency <ul style="list-style-type: none"> • Investigate heating issue in safety area • Vinyl laminate flooring separating

4.1.9 Program Site Findings

- This facility is the most undersized for its usage and given growth in the area is a critical priority for significant expansion. Ultimately this building needs to be at least three times its current size.

4.1.10 Facility Condition Assessment Findings

- This owned facility is in excellent condition. There is currently little deferred maintenance to be performed. We recommend evaluating the listed deficiencies to repair the items that will further deteriorate the systems leading to increased capital costs if not remedied. These items include roof vinyl flooring repairs.
- Recommend addressing items in the long-range, 10-year capital plan that includes budget years 2026 through 2034. These items include capital replacement of HVAC, plumbing, and electrical systems. Refer to Appendix D, "PPLD FCA Prioritized Requirements", which is attached separately from this document.

LIBRARY 21C

374,228

Population within
a 15-minute drive

68,783

User base within
a 15-minute drive

25,639

User registrations

12,959

User “last
checkouts”

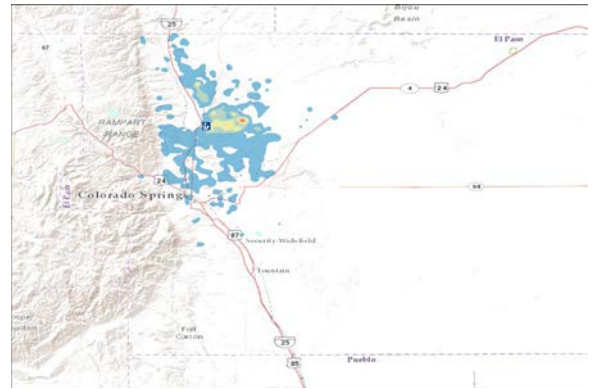
9

Average busyness
index

0.06

FCI

Library 21C was opened in 2014. The library is housed in a 115,058-square-foot facility that was built in 1985 and is owned by Pikes Peak Library District.



Library Services Overview

<p>Key Programmatic Issues</p>	<ul style="list-style-type: none"> • Break room location is far from staff work location • Staff do not have enough private spaces for their breaks • Checkout desks are too small • Patron flow is confusing • Community rooms are not set up for power outlets • Need for better signage/wayfinding
<p>Key Condition Issues</p>	<ol style="list-style-type: none"> 1. Safety <ul style="list-style-type: none"> • Spare circuit breakers turned off 2. Deficiency <ul style="list-style-type: none"> • Caulk storefront glass • Domestic hot water (DHW) piping modifications • Investigate and repair ceiling below balcony • Investigate return air issue • Repair and repaint walls • Repair backflow preventer • Repair balcony rooftop • Repair condenser fins • Repair EPD at joints • Repair exterior brick veneer • Repair facade at skylight • Repair interior doors • Repair roof flashing • Replace ceiling tiles

4.1.11 Program Site Findings

- Library 21C needs enhanced displays and book access at entrance points, improved wayfinding and signage, and increased visibility and access to creative spaces.
- Consider lower-density shelving for 2nd floor to accommodate additional books.
- If the Rockrimmon Library closes, Library 21C’s usage will likely increase, demanding more collections, services, and youth space. Adjustments to infrastructure and staffing may be required to meet this potential rise in demand.

4.1.12 Facility Condition Assessment Findings

- This owned facility is in excellent condition with minimal deferred maintenance. To prevent further system deterioration and increased capital costs, we recommend addressing deficiencies such as caulking, roof repair, and electrical safety issues.
- The 10-year capital plan (2026-2034) should cover major replacements and updates for HVAC, plumbing, architectural interiors and exteriors, and electrical systems. Refer to Appendix D, “PPLD FCA Prioritized Requirements”, which is attached separately from this document.

MANITOU SPRINGS LIBRARY

155,453

Population within a 15-minute drive

23,655

User base within a 15-minute drive

1,854

User registrations

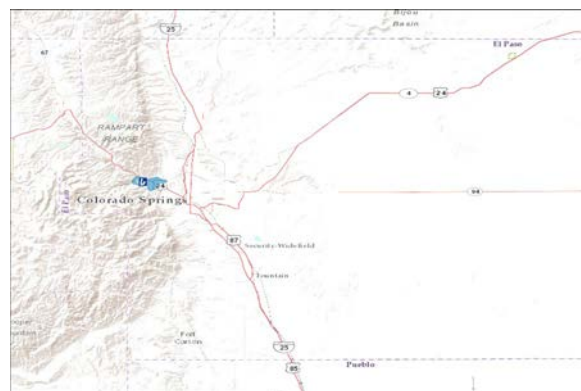
689

User "last checkouts"

7

Average busyness index

The Manitou Springs Library, opened in 2021, operates as part of a partnership with the Manitou Art Center. This facility is leased by the District, fostering a collaborative environment between the library and the art center to serve the community.



Library Services Overview

Key Programmatic Issues	• N/A
Key Condition Issues	• N/A

4.1.13 Program Site Findings

- This site was not assessed since it is temporary, the original Carnegie Library is being renovated but was not assessed during this stage.

4.1.14 Facility Condition Assessment Findings

- This facility was removed from the scope of work by PPLD staff. FCA assessment was not performed.

MONUMENT LIBRARY

996,360

Population within a 15-minute drive

17,744

User base within a 15-minute drive

10,804

User registrations

4,760

User "last checkouts"

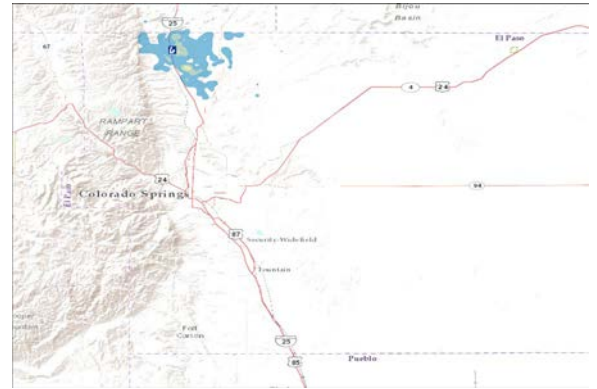
5

Average busyness index

0.15

FCI

Originally opened in 1975, the Monument Library relocated to a larger space in 1999. It now occupies a 7,536-square-foot facility that is leased to Pikes Peak Library District.



Library Services Overview

Key Programmatic Issues	<ul style="list-style-type: none"> • Desire for computers to be in a more private area • Desire for more study/community rooms • Staff space is too small • Desire for increased security in staff spaces • The facility is too small for the population it serves
Key Condition Issues	<ol style="list-style-type: none"> 1. Deficiency <ul style="list-style-type: none"> • Relocate thermostat • Replace/repair interior doors • Replace vinyl flooring

4.1.15 Program Site Findings

- Monument Library is the second-most undersized facility after High Prairie Library, indicating a need for more space. Given that it's in a leased building, it might be beneficial to consider relocating to a larger, owned facility in the future.

4.1.16 Facility Condition Assessment Findings

- This leased facility is in good condition. There is currently some deferred maintenance to address to meet the FCI target of 0.10. We recommend prioritizing the repair of the listed deficiencies by addressing the most critical issues first.
- Recommend addressing items in the long-range, 10-year capital plan that includes budget years 2026 through 2034. These items include capital replacement of HVAC, plumbing, architectural interiors, architectural exteriors, and electrical. Refer to Appendix D, "PPLD FCA Prioritized Requirements", which is attached separately from this document.

OLD COLORADO CITY LIBRARY

307,192

Population within a 15-minute drive

47,484

User base within a 15-minute drive

4,886

User registrations

1,982

User "last checkouts"

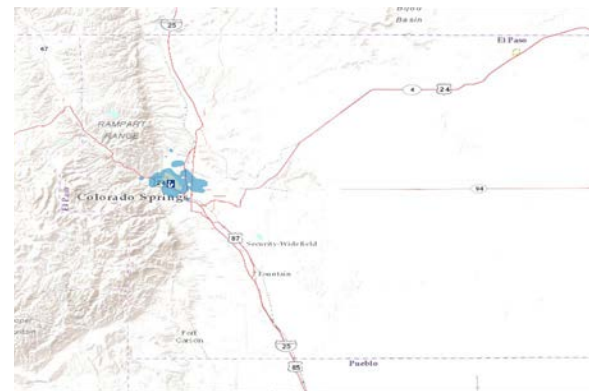
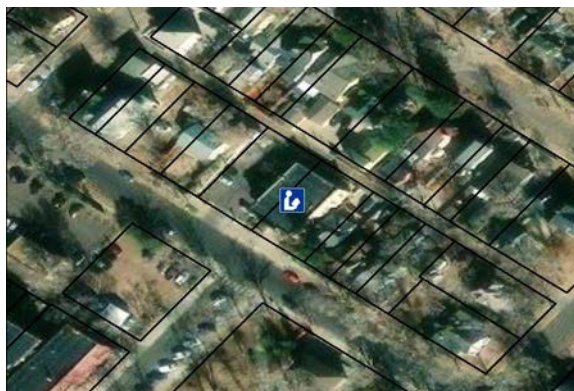
8

Average busyness index

0.15

FCI

Reopened in 2007, the Old Colorado City Library is located in a historic building originally constructed in 1904 (as Woods Free Library) and renamed as West End Library in 1917. After undergoing significant renovation, this 4,909-square-foot facility is now owned by Pikes Peak Library District.



Library Services Overview

Key Programmatic Issues	<ul style="list-style-type: none"> • Lack of quiet space • Very insufficient staff space • No early literacy space • Inadequate programming space • Temperature zoning/control • Have a hard time storing odd-shaped books
Key Condition Issues	<ol style="list-style-type: none"> 1. Deficiency <ul style="list-style-type: none"> • Caulk seals on elevator glass • Retrofit LED lights

4.1.17 Program Site Findings

- Old Colorado City Library is an important space not only for the local residents, but it also provides the traditional library space that some users strongly prefer. Its youth space needs more attention, but space and options are limited. Currently, Old Colorado City Library is not a candidate for expansion in the life of this plan.

4.1.18 Facility Condition Assessment Findings

- This facility is in good condition. There is currently some deferred maintenance to address to meet the FCI target of 0.10. We recommend prioritizing the repair of the listed deficiencies by addressing the most critical issues first.
- Recommend addressing items in the long-range, 10-year capital plan that includes budget years 2026 through 2034. These items include capital replacement of HVAC, plumbing, architectural interiors, architectural exteriors, and roofing. Refer to Appendix D, "PPLD FCA Prioritized Requirements", which is attached separately from this document.

PALMER LAKE LIBRARY

53,521

Population within a 15-minute drive

9,129

User base within a 15-minute drive

162

User registrations

143

User "last checkouts"

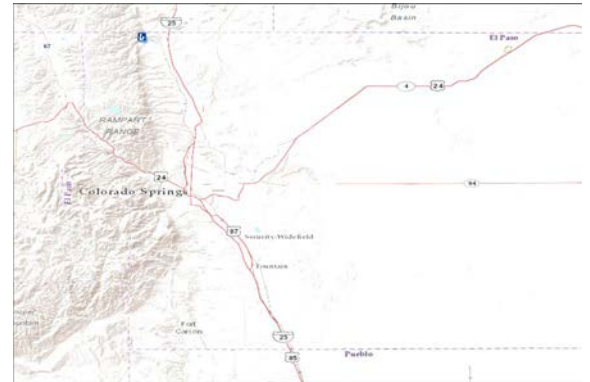
9

Average busyness index

0.40

FCI

The Palmer Lake Library was officially opened in 1964, at the same time that Pikes Peak Regional Library District was established. The library moved to its current location in 1985. The district leases its facility, built in 1982, from the Town of Palmer Lake.



Library Services Overview

<p>Key Programmatic Issues</p>	<ul style="list-style-type: none"> • Lack of space for programs • The IT space is insufficient • Insufficient staff space • No program, meeting, or study space
<p>Key Condition Issues</p>	<ol style="list-style-type: none"> 1. Deficiency <ul style="list-style-type: none"> • Repair baseboard finishes 2. ADA <ul style="list-style-type: none"> • Unisex restroom ADA compliance

4.1.19 Program Site Findings

- The facility would benefit from an unstaffed controlled access self-serve mode, allowing access to the facility during unstaffed hours.

4.1.20 Facility Condition Assessment Findings

- This leased facility is in poor condition. There is considerable deferred maintenance to address to meet the FCI target of 0.10. Note, this is a leased, smaller library, so the costs to reduce deferred maintenance are less than the larger facilities. We recommend prioritizing the repair of the listed deficiencies by addressing the most critical issues first.
- Recommend addressing items in the long-range, 10-year capital plan that includes budget years 2026 through 2034. These items include capital replacement of plumbing, and architectural interiors. Refer to Appendix D, "PPLD FCA Prioritized Requirements", which is attached separately from this document.

PENROSE & CARNEGIE LIBRARY

424,208

Population within a 15-minute drive

67,734

User base within a 15-minute drive

19,505

User registrations

3,843

User "last checkouts"

11

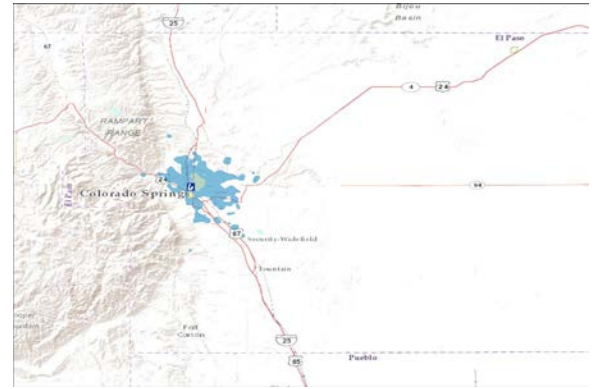
Average busyness index

0.10 /

0.13

FCI (THE HALL)

Penrose and Carnegie Library, opened in 1968, is a 78,831-square-foot facility with sections built in 1905 and 1968. It underwent extensive renovation from 1995 to 1999 and is owned by Pikes Peak Library District.



Library Services Overview

Key Programmatic Issues	<ul style="list-style-type: none"> • Reconfigure teen area • Add more overflow shelving • Expand outdoor staff space/staff room • Enhance security • Address institutional feel of the library • Upgrade climate control/HVAC for Carnegie genealogy/local history building
Key Condition Issues	<p>1. Safety</p> <ul style="list-style-type: none"> • Install cover on meter sockets • Replace tritium exit signs • Deficiency • Investigate AHU-6 lack heat • Investigate and repair fire riser leak • Investigate cause of transformer noise • Investigate cause of water leak • Investigate fan running in manual mode • Replace damaged overhead garage door • Replace garage slab • Replace recirculating pump • Replace water meter • Reseal joint between wall panels • Attach meter to wall • Repair upper-level lighting • Replace damaged ceiling tile <p>2. Maintenance</p> <ul style="list-style-type: none"> • Perform maintenance on panels • Codes and standards • Install railing along loading dock • Provide electrical clearances per code • Perform maintenance on panels • Recondition inoperable Cabinet Unit Heater (CUH)

4.1.21 Program Site Findings

- Limited downtown parking and safety concerns.
- Security improvements may help but public perception uncertain.
- Explore mixed-use redevelopment with library anchor.
- Preserve historical significance of Carnegie section.

4.1.22 Facility Condition Assessment Findings

- The facility is in good condition. To maintain this standard, prioritize repairs on listed safety items and then address other deficiencies. The long-range capital plan (2026-34) should consider capital replacements for HVAC, plumbing, architectural interiors, and electrical systems. Refer to Appendix D, "PPLD FCA Prioritized Requirements", which is attached separately from this document.
- The Hall is in good condition but requires deferred maintenance to meet the FCI target. Address the listed deficiencies, prioritizing those that need immediate attention and continued upkeep.

ROCKRIMMON LIBRARY

339,480

Population within a 15-minute drive

57,887

User base within a 15-minute drive

9,468

User registrations

3,616

User "last checkouts"

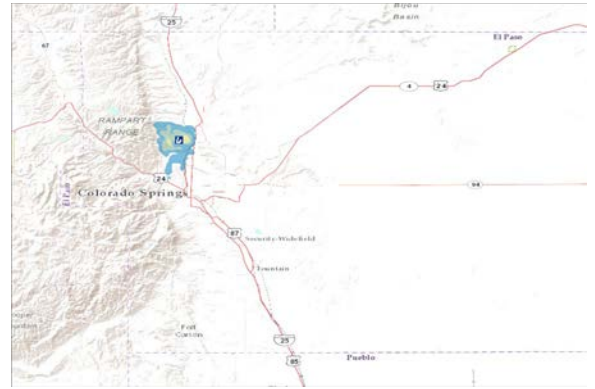
4

Average busyness index

0.04

FCI

The Rockrimmon Library was opened in 1989. The 8,668-square-foot facility has been leased by the Pikes Peak Library District since 1995.



Library Services Overview

<p>Key Programmatic Issues</p>	<ul style="list-style-type: none"> No ADA entrance No break room for staff Concern about flooding Parking is a big issue Space too small for current usage
<p>Key Condition Issues</p>	<ol style="list-style-type: none"> Lifecycle <ul style="list-style-type: none"> Replace restroom fixtures Deficiency <ul style="list-style-type: none"> ADA improvements - entry Repair drywall Replace carpet - staff area Maintenance <ul style="list-style-type: none"> Repair wall/ceiling Codes and standards Add point of use hot water heater

4.1.23 Program Site Findings

- Retaining walls around Rockrimmon Library cause flooding, increasing the risk of further damage/additional costs. This is not covered in the FCA.
- The library's 8,668 SF facility is too small for its high usage and has the highest operational costs per square foot in the system due to high lease expenses.
- Despite popularity, closure or relocation is recommended due to the above challenges.
- Nearby users can access other libraries easily, mitigating closure impact, given the high rate of car ownership in the area.

4.1.24 Facility Condition Assessment Findings

- This leased facility is in excellent condition with no deferred maintenance required to meet the FCI target of 0.10. Address any listed deficiencies, focusing on maintenance and minor issues first.
- Include in the long-range, 10-year capital plan (2026-2034) provisions for replacing architectural interiors, electrical systems, and plumbing. Refer to Appendix D, "PPLD FCA Prioritized Requirements", which is attached separately from this document.

RUTH HOLLEY LIBRARY

446,225

Population within a 15-minute drive

58,691

User base within a 15-minute drive

7,360

User registrations

2,553

User "last checkouts"

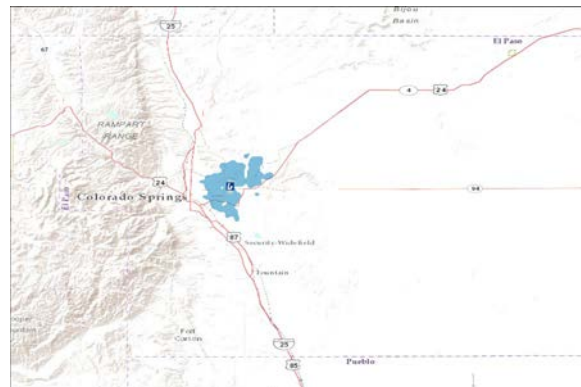
8

Average busyness index

0.10

FCI

Ruth Holley Library was opened in 1987 and relocated in 2004. The library is housed in a 10,469-square-foot facility that was built in 1978 and is leased to Pikes Peak Library District.



Library Services Overview

Key Programmatic Issues	<ul style="list-style-type: none"> • Lack of quiet space • Very insufficient staff space • No early literacy space • Inadequate programming space • Temperature zoning/control • Have a hard time storing odd-shaped books
Key Condition Issues	<p>1. Deficiency</p> <ul style="list-style-type: none"> • Install restroom electric heater • Repair tiled baseboard • Replace stained Acoustical Ceiling Tile (ACT) • Seal exterior windows

4.1.25 Program Site Findings

- Leased space with operational costs likely exceeding value.
- Under consideration for closure or relocation due to costs and nearby alternative.
- If kept open, needs renovation for layout, seating, and adding study/meeting rooms.

4.1.26 Facility Condition Assessment Findings

- This leased facility is in excellent condition with minimal deferred maintenance, meeting the FCI target of 0.10. We recommend addressing the identified deficiencies, with priority given to repairs that could lead to further system impairments if left unresolved. Specifically, focus on repairing window seals and tiled baseboards.
- We suggest incorporating specific items into the long-range, 10-year capital plan covering the budget years 2026 through 2034. This plan should include capital replacement of plumbing, architectural interiors, architectural exteriors, and electrical systems. Refer to Appendix D, "PPLD FCA Prioritized Requirements", which is attached separately from this document.

SAND CREEK LIBRARY

411,122

Population within a 15-minute drive

55,725

User base within a 15-minute drive

7,995

User registrations

2,164

User "last checkouts"

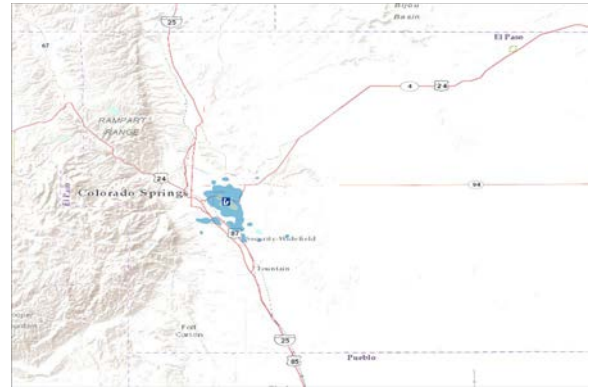
12

Average busyness index

0.07

FCI

Sand Creek Library was opened in 1988 and relocated to the current space in the same center in 1994, purchased by the Library District. The library is housed in a 14,060-square-foot facility.



Library Services Overview

<p>Key Programmatic Issues</p>	<ul style="list-style-type: none"> • Lack of quiet space • Insufficient user seating • Insufficient study space • Restrooms have issues • Shelf space is undersized • Desire for a better teen space, sensory accommodations, and pumping/breastfeeding rooms • Desire more outdoor space
<p>Key Condition Issues</p>	<ol style="list-style-type: none"> 1. Deficiency <ul style="list-style-type: none"> • Recaulk toilet base • Replace caulking at the foundation • Replace damaged ceiling tiles 2. Maintenance <ul style="list-style-type: none"> • Perform panel board maintenance

4.1.27 Program Site Findings

- Well-designed space with excellent staff facilities.
- Minor layout adjustments and updates could enhance the facility.
- Likely increase in demand if Ruth Holley Library closes or relocates.
- Monitor impact and consider expansion if needed.

4.1.28 Facility Condition Assessment Findings

- This owned facility is in excellent condition with low deferred maintenance, meeting the FCI target of 0.10. We recommend evaluating listed deficiencies and focusing on repairing items, particularly systems prone to further impairment if left unaddressed.
- Recommend addressing items in the long-range, 10-year capital plan that includes budget years 2026 through 2034. These items include capital replacement of HVAC, plumbing, architectural interiors, architectural exteriors, and electrical systems. Refer to Appendix D, "PPLD FCA Prioritized Requirements", which is attached separately from this document.

UTE PASS LIBRARY

47,362

Population within a 15-minute drive

8,778

User base within a 15-minute drive

663

User registrations

241

User "last checkouts"

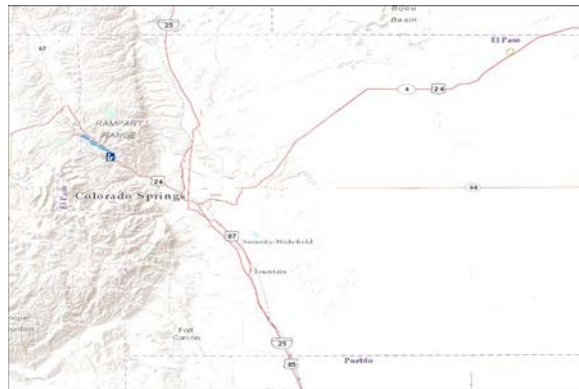
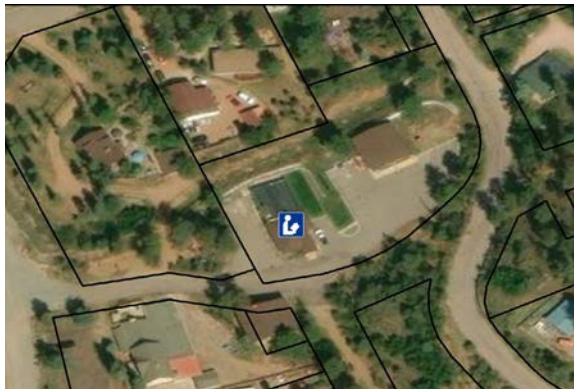
11

Average busyness index

0.00

FCI

Ute Pass Library became a part of the district in 1975. The library is housed in a 2,123-square-foot facility that was built in 1935 and is leased to Pikes Peak Library District.



Library Services Overview

<p>Key Programmatic Issues</p>	<ul style="list-style-type: none"> • Desire for more open hours • Accessibility isn't ideal but the team makes it work
<p>Key Condition Issues</p>	<ul style="list-style-type: none"> • N/A

4.1.29 Program Site Findings

- The facility would benefit from an unstaffed controlled access self-serve mode, allowing access to the facility during unstaffed hours.

4.1.30 Facility Condition Assessment Findings

- This leased facility is in excellent condition. There is little deferred maintenance to address as the facility meets is well below the FCI target of 0.10.
- Recommend addressing items in the long-range, 10-year capital plan that includes budget years 2026 through 2034. These items include capital replacement of plumbing, architectural interiors, architectural exteriors, and electrical systems. Refer to Appendix D, "PPLD FCA Prioritized Requirements", which is attached separately from this document.

4.2 MOBILE LIBRARY SERVICES

The Mobile Library Services (MLS) at PPLD serve a critical role in the service model of the district. Given the district's large geographic reach across all of El Paso County, seniors living in centers with limited mobility options, and key underserved urban areas that do not have convenient walkable library locations; mobile library services in the form of Bookmobiles and other mobile infrastructure are a necessary investment to ensure some level of equitable service to these portions of the service area. MLS is currently operating 3 vehicles in support of these efforts. One bookmobile vehicle is focused on rural county areas, one bookmobile vehicle on city locations, and a sprinter van is focused on a lobby stop service in senior living centers. These services are all critical to the overall service model of the district. In addition to the services this critical department provides, these mobile services also are an underappreciated passive aspect of the library's overall community awareness efforts.

Bookmobiles and mobile services provide a moving billboard for the library and are often cited by many as one of the key aspects of the library they think about.

While the Master Planning project did not include an assessment of those current vehicles, it is important the PPLD factor short- and long-term maintenance and replacement strategies into its overall capital budgeting process. In addition to the vehicles themselves, logistical, storage, and support facilities for the vehicles and the staff that operate them are just as critical and should not be shortchanged. The department and vehicles primarily operated out of the Penrose location, but the physical arrangements of those spaces are not entirely ideal. Opportunities to find a better, more efficient, and more appropriate location to house this department and its vehicles should be a part of forward-looking plans, which could even include a non-public service center separate from current locations or expansions to an existing owned facility to better support this department and its space needs.

Pikes Peak Library District focuses on reaching the entirety of El Paso County through the usage of Bookmobiles, as pictured to the right.



4.3 ALTERNATIVE DELIVERY MODELS

PPLD staff and the consultant team explored several alternative delivery models to address accessibility issues in a more economical and sustainable way for the District. These models included Outreach, Holds Pickup Lockers, Materials Vending Solutions, and Unstaffed Controlled Access to facilities. Each approach provides different means of extending library services beyond traditional hours or locations, potentially improving accessibility and convenience for library patrons.

Outreach

PPLD already has a strong outreach program, utilizing two well-equipped Bookmobiles to serve both urban and rural areas where residents might have limited access to libraries or transportation. This outreach is crucial for bridging service gaps and reaching both younger and older residents who may not have reliable transportation. Expanding the resources of the Outreach Team by increasing mobile programming operations would likely enhance the District's ability to serve these communities effectively.

Holds Pickup Lockers

These solutions operate similarly to Amazon's delivery lockers. When a user requests an item to be held, they choose a specific locker location where they want to pick it up. These lockers are typically placed outdoors, providing 24/7 access to the requested materials. They can be installed at existing library locations or, ideally, in strategic areas where there might be gaps in library service coverage.

Materials Vending Solutions

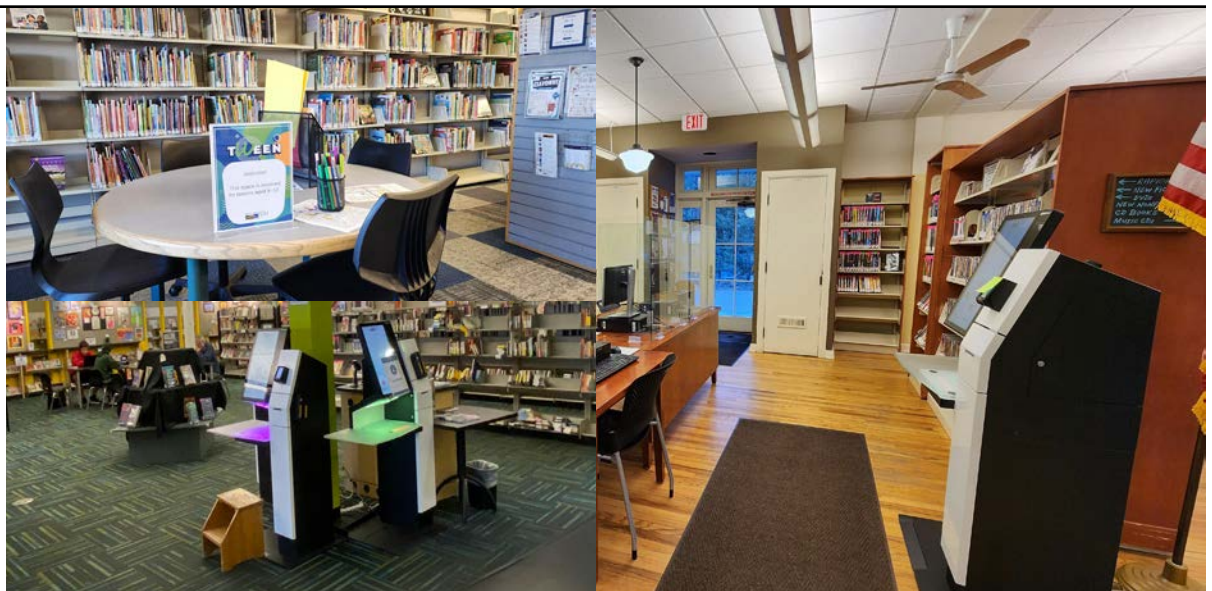
Similar to holds lockers, these solutions let users pick up library materials after hours or from more convenient locations. However, unlike holds lockers, users can also browse available materials directly at the machine location. There are various approaches with these systems, offering different collection sizes, browsing methods, and maintenance levels. A newer type that's been yielding positive results is the smart shelf system. In this system, users use their library card to unlock an access door. The shelves have "smart radio-frequency identification (RFID) sensors," so when users return or take out books, their account is automatically updated when the door is closed.

Unstaffed Controlled Access to Facilities

This approach originated in Europe and has been implemented in the United States since the mid- to early 2010s with considerable success. It involves integrating an access system with a building's door entry system, allowing users to access the facility outside regular hours. To use this system, patrons must first sign up and go through an orientation process for approval. Once approved, they can access the library during extended hours, often when few or no staff are present. During these "extra hours," the library is entirely self-service.

Given PPLD's centralized security and camera monitoring, this could be a relatively straightforward solution to implement or pilot, particularly at smaller locations like Calhan, Palmer Lake, and Ute Pass. At least two vendors offer solutions for this, but it's also a concept PPLD could potentially develop in-house. This approach provides more flexibility for library users and could help maximize the use of existing facilities.

Clockwise from top left: The consulting team and PPLD staff collaborated on innovative delivery models to optimize library staff and resources. Rockrimmon Library designates specific time blocks to cater to tweens, providing them with dedicated space. Sand Creek and Ute Valley Libraries offer convenient self-checkout options, enhancing accessibility for all visitors.



RECOMMENDATIONS

TRANSFORMING FINDINGS INTO ACTIONS

The planning team's 15-year recommendations aim to guide PPLD's future, balancing practical constraints with the District's goals. Due to limited funding, tough choices about library shifts or closures might be necessary, despite their consequences. The team believes PPLD is underfunded and unevenly distributed in El Paso County. Without increased funding, structural changes will be required. Ideally, PPLD's funding should meet or exceed Colorado's average, allowing for a better-balanced network of libraries, reduced leasing costs, and extended service hours across the District.

5.1 FACILITY GUIDING PRINCIPLES

To begin, PPLD should establish guiding principles for its facilities that are rooted in and inspired by the organization's strategic mission and vision and tailored to the unique needs of its libraries. These principles will serve as a framework for decision-making and planning, ensuring alignment with PPLD's overarching goals while addressing the specific requirements and challenges faced by its libraries.

The following is a draft proposal of guiding principles for PPLD (inspiration for the approach and the principles were taken from Columbus Metropolitan Library):

- **Sustainability** – Facilities should support high levels of efficiency for operations, operate

safely without excessive staff needs, and be financially sustainable over the long term.

- **Innovation** – Buildings should support the delivery of innovative services, technologies, and programs.
- **Flexibility** – A high priority should be placed on making library spaces adaptable to the evolving needs of the community and staff. Flexibility hour to hour, day to day, and year to year is important.
- **Supporting Literacy Development of All Kinds** – The development of skills of all kinds is critical to the community and foundational to the value of the Library. Reading, technology, civic, health, and social literacies are just the starting points for literacies of all kinds.
- **Customer Experience** – The Library should focus on a positive experience for customers. Making the buildings warm, inviting, and easy

to use is critical to making its buildings deliver that level of personal experience.

- **Accessible and Easy to Utilize** – Facilities should be easy to get to and easy to get inside for all residents regardless of their physical abilities, and parking should be as readily available as possible for the location.
- **Other Principles for Consideration:**
 - Adaptive Programming Support
 - Readily Accessible Collections
 - Youth Development as a Priority
 - Supporting Seniors
 - Visibility and Transparency

PPLD leadership, with input from the board, should adjust and refine these principles to help inform the overall approach of the final plan and inform future building design/renovation planning to bring more consistency to PPLD facilities.

In the consultant's view, Columbus Metropolitan Library does one of the best jobs in the country at striking the right balance between facility standards and consistency versus facility uniqueness/tailoring to neighborhoods their outlets serve. They are a model that PPLD should look to for inspiration in this area as well, though with the understanding that their budget (their capital budget and financing power in particular) are on a much higher level than PPLD.

5.2 FACILITY CONDITION ASSESSMENT AND ENERGY RECOMMENDATIONS

PPLD should develop a strategy to address capital planning of the owned and leased facilities in its portfolio. This strategy should be connected to the strategic mission of the organization and incorporated into an annual budget cycle to properly fund the facility infrastructure in the future. The following recommendations based on the FCA are based on this strategy.

5.2.1 Budget Model and Priorities

The District should review the findings presented in the FCA to develop a strategy for capital planning at each facility and for the enterprise facilities. The District should commence with the following recommendations:

- The 10-year projected deferred maintenance is \$20.7M.
- The District should budget approximately \$1.2M per year to maintain the condition of the facilities, targeting an FCI of 0.10 (10% deferred maintenance).
- The spending forecast should be sufficient to reduce the 10-year projected deferred maintenance from \$20.7M to \$10.7M (10% deferred maintenance)

5.2.2 FCA Implementation Plan

The consultant team proposes the following recommendations to implement a capital renewal strategy plan in the future years.

Short-Term Recommendations

- Implement the capital plan to address deferred maintenance.
- Procure funding within the budget to provide proper capital spending to address deferred maintenance.
- Review the FCA information provided and refine the prioritization as necessary to address the facilities deferred maintenance.
- Evaluate the deficiencies list and focus on systems and equipment that will become further impaired or impair other components if the issues are not addressed.

Mid-Term Recommendations

- Track deferred maintenance projects/issues as they are completed.
- Evaluate projected spending to actual spending.
- Recommend tracking capital expenditures with software to understand key metrics and improve the database and spending projections over time.
- Reevaluate budget needs for the subsequent fiscal years, and implement a budget cycle that includes capital spending for maintaining the built infrastructure.

Long-Term Recommendations

- Track capital expenditures with software to understand key metrics and improve the database and spending projections over time.
- Reevaluate budget needs for the subsequent fiscal years, implement a budget cycle that

includes capital spending for maintaining the built infrastructure.

- Develop a plan to assess facilities in the future based on projected increases in capital spending. Recommend reassessments occur every 5-7 years to keep the capital plan current and relevant.

Energy Analysis Recommendations

The consultant team recommends the following strategies based on the analysis and findings of the energy assessment:

1. Recommend PPLD staff evaluate the current facility lighting systems and develop a strategy to upgrade or replace fluorescent lighting systems or lamps based on the Colorado Clean Lighting Act that goes into effect January 1, 2025.
2. Recommend PPLD develop an energy master plan to guide the organization in efforts to reduce utility consumption, reduce utility costs, comply with regulatory requirements, and to meet other initiatives and goals of the organization. The Energy Management Association (EMA) provides a comprehensive process for energy management and enhanced building performance. This process is documented in the EMA Energy Management Guideline (2014). We recommend PPLD follow this process, or a similar process, to develop and inform an energy master plan. The basic tenants of the process are outlined below:
 - a. **Assess:** The Project Assessment Phase involves client consultation, preliminary site assessment, and benchmarking. During this phase, the Energy Management Professional (EMP) develops the client's goals and gauges a building's potential for reducing energy use and improving performance. The entire team must understand the direction of the project.
 - b. **Explore:** During the Energy Use Exploration Phase, the EMP uses building energy data to perform detailed analyses of current and historical usage and cost patterns. These analyses are vital to determining the energy savings and cost reduction potential of the identified measures.
 - c. **Investigate:** Field inspection as part of the Site Investigation Phase provides the EMP with detailed operational data regarding specific building systems. Preliminary TAB and functional testing provide the EMP with valuable insight to further refine measures and facilitate Existing Building Commissioning (EBCx) activities.
 - d. **Analyze:** The Energy Conservation Measures (ECMs), Facility Improvement Measures (FIMs), and EBCx Analysis Phase tasks the EMP with producing detailed analyses of potential measures and EBCx activities. The EMP quantifies energy savings estimates and anticipated performance improvements in support of project goals.
 - e. **Implement:** During the Implementation Phase, the EMP develops detailed plans for implementing measures and EBCx. Measures are then installed and EBCx is completed. The EMP will also be involved with commissioning new systems and installing measurement and verification (M&V) equipment.
 - f. **Accept:** The Final Acceptance Phase begins with functional testing to confirm that newly installed systems operate as designed, followed by Measurement and Verification (M&V). The EMP will also compile a variety of documents related to commissioning, operations and maintenance, and building staff training. These resources will collectively help maintain an elevated level of building performance.
 - g. **Manage:** The plan continues with the Continuous Energy Management Phase. The EMP helps the owner enact an Ongoing Commissioning Plan with the express goal of maintaining and prolonging the energy savings from installed measures and EBCx. The EMP will work with the client to develop strategies for ongoing energy management activities, including enhanced operations and maintenance practices, regular benchmarking, and additional training opportunities.
3. Recommend implementing Category 2: Provide RCx, Energy Audit, TAB for 21C, East, and Penrose. This measure will have the highest impact on energy of all of the facilities. This measure incorporates the individual measures (Category 3) listed for these facilities, making it a cost-effective approach to bundle measures, rather than implementing them individually.
4. If Category 2 items are cost prohibitive, we recommend implementing the Category 3 items individually based on the measures

requiring the least capital cost and the highest impact. Recommend reviewing the energy findings in conjunction with the FCA findings to capitalize on the systems and equipment that require repair or replacement. Incorporating the energy measures into the repair and replacement projects will provide cost efficiencies by bundling the projects together rather than completing them independently.

5.3 PROGRAM AND SYSTEM RECOMMENDATIONS

The following sections outline three possible scenarios for approaching the coming 10-15 years for capital investments to go beyond maintaining the condition of the current PPLD facilities.

- The first scenario assumes that the current level of per capita funding of the Library remains consistent, which, as stated earlier in the report, is not a sustainable long-term model.
- The second scenario explores how recommendations could be positively impacted by increasing PPLD's funding to about halfway between its current level and the Colorado state average.
- The final scenario examines the approach the consultant team would recommend if funding could be increased to the Colorado state average funding level.

Both latter scenarios should also position PPLD to invest further in upgrades to library facilities, such as improved, expanded, and/or new outlets, toward the end of the planning window or in the years just after, ensuring PPLD does not fall as far behind as other average Colorado libraries of similar size.

5.3.1 Scenario 1 - Level Funding

In this scenario, PPLD does not seek any changes in their local tax funding, and as a result hard choices must be made to get the District on a sustainable path while also better balancing the outlets and services to the eastern portions of Colorado Springs and its eastern suburbs. See Figure 5.1, Scenario 1 - Number of Libraries within 15 Minutes without Rockrimmon.

- Close Ruth Holley & Rockrimmon at the ends of those leases or after no more than a 3-year renewal (Shift resources and staff to a new location and other branches in the system).
- The closure of Cheyenne might also need to be considered here to create enough operational settings to offset the overall costs in these

recommendations, however that should be a last resort as its users are not as easily served by the other outlets in its region due to limited size or very limited parking. Further financial analysis will be required to help support final decisions.

- Add a new location to the east side Powers Boulevard Corridor (80917/80922 ZIP code zone).
 - Target size is 15,000 to 20,000 square feet.
 - Intersection of Powers Boulevard and Constitution Avenue is likely the center point of the desired zone.
 - An owned facility or a lease-to-own arrangement with a developer is preferred, but a leased approach might be required.
 - Mixed-use development options should be explored.
- Increase collections capacity and services at Library 21c and East Library to better serve Rockrimmon area users.
- Relocate Monument Library outlet to a District-owned space somewhere near the I-25 zone between current location and the Mining Museum area.
 - Target size is 15,000 to 20,000 square feet.
 - An owned facility or a lease-to-own arrangement with a developer is preferred, but a leased approach might be required.
 - Mixed-use development options should be explored.
- Expand High Prairie Library outlet to at least 15,000 square feet (20,000 square feet is more ideal if possible on the site).
- Look at upgrades to Sand Creek Library to offset Ruth Holley Library loss (perhaps expansion if adjacent space becomes an option).
- Shift Palmer Lake and Ute Pass Libraries to unstaffed, controlled-access model with limited staffed hours and a minimum level of programs.
- Implement unstaffed, controlled-access model at Calhan Library (some reduction in staffed hours to maintain program level).
- Add material pickup lockers, drop boxes, and possibly materials vending options at various locations around the District, particularly in

areas near where outlets are closed/hours reduced.

- Renovate East Library to better utilize space and lower operating costs (upgrade Automated Materials Handling system), explore shifting upstairs lab to main floor to reduce staffing requirements upstairs, and upgrade outdoor spaces to be more conducive to user needs. The outdoor space, particularly better utilizing the mountain-facing balcony, could provide an outside alternative to indoor space.
- Look at service hours of Old Colorado City, Manitou Springs, and Cheyenne Mountain Libraries as a unit (likely reducing total hours but expanding unique open hours across the three).

5.3.2 Overview of Scenario 1

- Closing two outlets: Ruth Holley and Rockrimmon Libraries
- Adding one new outlet
- Shifting Monument Library outlet to new location
- Expanding/renovating some locations
- Implementing expanded hours through controlled access, with reduced staffed hours at certain locations
- Reducing hours at specific locations, but expanding total available hours throughout the system

Table 5.1 Scenario 1 - Level Funding Short-, Mid-, and Long-Term Projects

Short-Term	Mid-Term	Long-Term
Adjust service hours across Old Colorado City, Manitou Springs, and Cheyenne Mountain Libraries	Add materials pickup lockers	Shift Monument Library to a new and larger owned location
Pilot unstaffed, controlled access to Calhan, Palmer Lake, or Ute Pass Libraries and reduce hours once adoption has occurred	Open new Powers Boulevard corridor location	Renovate East Library
Close Rockrimmon Library at end of lease or after a short extension	Expand High Prairie Library location	Upgrade Sand Creek Library
Close Ruth Holley at end of lease or after a short extension		

Note: The consulting team’s rationale for recommending closure of Rockrimmon and Ruth Holley is as follows:

- Rockrimmon is the most expensive lease space within the PPLD system. Although usage is relatively high, the parking is very limited, and there is a persistent risk of flooding—which has occurred previously—that the landlord is either unable or unwilling to address permanently. Residents in the Rockrimmon service area have a high percentage of vehicle ownership and should have access to 21c or other PPLD locations. If funding were to increase, it would be ideal to retain a Rockrimmon location. However, the current site remains problematic due to high rent costs, limited parking, and ongoing flooding risks.
- The proposed move from Ruth Holley to a new location in the Powers Corridor is more of a location shift than a true closure, as the new site would ultimately better serve many current users of the Ruth Holley Library. The existing library is poorly configured to meet the community’s demands, the parking area and lighting are inadequately maintained by the landlord, and the nearby Sand Creek Library is better equipped to address user needs.
- Ideally, a well-funded library system would allow us to avoid closures and relocations, ensuring the best possible service for PPLD residents. However, if funding constraints persist, making these difficult decisions will be necessary to better address both current and future needs of the community.

If all recommendations are executed as outlined, total space would increase to 367,000 square feet from 354,000 square feet, but at a lower total operational/capital cost than the current approach. Without an increase in funding, PPLD may not be in a position to expand its facilities after the planning period. As a result, it may continue to fall further behind in terms of delivering services and the providing spaces El Paso County residents need.

5.3.3 Scenario 2 - Some Funding Increase

In this scenario, PPLD seeks a relatively small increase in tax rates to close the gap to the average funding for similar Colorado libraries by half. This level of funding should ensure that PPLD is sustainable at its current number of outlets and provide better financial resources to address gaps in total space needs and service levels throughout the system. This scenario would likely lead to some increases in the number of PPLD staff but would require further financial analysis as to how best to deploy the funding beyond the recommendations below. See Figure 5.2, Scenario 2 and 3 - Number of Libraries within 15 minutes with Rockrimmon.

- Seek voter approval for an increase in operational/capital funding to \$61 per capita (from \$51 per capita currently). This raises the average household rate from about \$134 per household to \$161 per household and should generate about \$6,900,000 per year in additional revenue for PPLD to direct toward facility and operational improvements.
- Close Ruth Holley Library at end of lease or after no more than a 3-year renewal (shifting resources and staff to the new east side Powers Boulevard corridor location).
- Add a new outlet/location to the east side Powers Boulevard Corridor (80917/80922 ZIP code zone).
 - Target size is 20,000 square feet.
 - Intersection of Powers Boulevard and Constitution Avenue is likely the center point of the desired zone.
 - An owned facility or a lease-to-own arrangement with a developer is preferred, but a leased approach might be required.
 - Mixed-use development options should be explored.
- Keep Rockrimmon Library open while looking for options to shift to an owned facility or location with a lower lease rate.
- Relocate Monument Library outlet to an owned facility somewhere in the I-25 zone between current location and the Mining Museum area.
 - Target size is 20,000 square feet
 - Strong preference for an owned, or perhaps a lease-to-own arrangement with a developer.
 - Mixed-use development options should be

explored.

- Expand High Prairie Library outlet to minimum of 20,000 square feet.
- Look at upgrades to Sand Creek Library to offset Ruth Holley Library loss.
- Shift Palmer Lake and Ute Pass Libraries to unstaffed, controlled-access model with some reductions in staffed hours but maintain current level of programs.
- Implement controlled access model to Calhan Library with some reductions in staffed hours but maintain programming level (fewer reductions than in Scenario 1).
- Add materials pickup lockers, drop boxes, and possibly materials vending options at various locations around the District, particularly in areas near outlets that are closed or have hours reduced.
- Renovate East Library to better utilize space and lower operating costs (upgrade Automated Materials Handling system); explore shifting upstairs lab to main floor to reduce staffing requirements upstairs.
- Look at service hours of Old Colorado City, Manitou Springs, and Cheyenne Mountain Libraries as a unit (reduced in total but expanded unique hours across the three though fewer reductions than at the Level Funding).

5.3.4 Overview of Scenario 2

- Closing Ruth Holley Library
- Adding one new outlet
- Shifting Monument Library outlet to new location.
- Expanding/renovating of some locations.
- Implementing expanded hours through controlled access, with some reductions in staffed hours at certain locations
- Reducing hours (but fewer than Level Funding recommendations) at specific locations, but expanding total available hours throughout the system

This scenario would increase space to 391,000 square feet from 354,000 square feet, while maintaining similar total operational/capital costs to the current model. With at least this moderate funding increase, there is a possibility that PPLD will be in a better position to continue addressing the community's growth toward the end of the planning period or just after the start of the next

planning window. It would still be in a deficit in terms of space and service compared to the average of other libraries in Colorado, but it would be falling behind less over time compared to staying at the current funding level.

Table 5.2 Scenario 2 - Some Level Funding Short-, Mid-, and Long-Term Projects

Short-Term	Mid-Term	Long-Term
Adjust service hours across Old Colorado City, Manitou Springs, and Cheyenne Mountain Libraries	Shift Ruth Holley Library to a new Powers Boulevard corridor location	Shift Monument Library to a new and larger owned location
Pilot unstaffed, controlled access to Calhan, Palmer Lake, or Ute Pass Libraries	Expand the High Prairie Library location	Renovate East Library
Seek voter approval on funding increase	Upgrades to Sand Creek Library	Shift Rockrimmon Library to an owned location
Add materials pickup lockers		

5.3.5 Scenario 3 - No Reductions

In this more aspirational scenario, PPLD seeks a slightly larger increase in tax rates to reach the average funding for similar Colorado libraries. It is worth noting that this would still leave PPLD at a lower level of funding than Douglas County, Denver Public, Arapahoe District, and the High Plains District, so the planning team does not see this more aspirational level as extravagant, but rather in line with the community’s commitment to education and learning balanced with its fiscally conservative values. This level of funding would ensure that PPLD is sustainable at the needed higher number of outlets, a more balanced service outlets model, and provide better financial resources to address gaps in total space needs and service levels throughout the system. This level would also lead to increases in the number of PPLD staff, which should lead to better overall services and service hours for PPLD outlets. Further financial analysis as to how best to deploy the funding beyond the recommendations below would still be required. See Figure 5.2, Scenario 2 and 3 - Number of Libraries within 15 minutes with Rockrimmon.

- Seek voter approval for an increase in operational/capital funding to \$74 per capita, the Colorado average of relevant libraries

(from \$51 per capita currently). This raises the average household rate from about \$134 per household to \$195 per household and about \$15,900,000 per year in additional revenue to direct toward facility and operational improvements.

- Add a new outlet/location to the east side Powers Boulevard Corridor (80917/80922 ZIP code zone).
 - Target size is 25,000-30,000 square feet.
 - Center of target area shifts northward on the Powers Boulevard Corridor into Care-free Circle intersection zone.
 - An owned facility or perhaps a lease-to-own arrangement with a developer is preferred.
 - Mixed-use development options should be explored.
- Keep Ruth Holley Library open and renovate but eventually shift to an owned facility.
- Keep Rockrimmon Library open but eventually shift to an owned facility.
- Relocate Monument Library outlet to an owned facility near I-25 zone between current location and the Mining Museum area.
 - Target size is 20,000 square feet.
 - An owned or perhaps a lease-to-own arrangement with a developer is preferred.
 - Mixed-use development options should be explored.
- Expand High Prairie Library outlet to a minimum of 25,000 square feet.
- Add unstaffed, controlled access to Palmer Lake, Ute Pass, and Calhan Libraries but no reductions in staffed hours and maintain current level of programs (at a minimum, funding might enable hours increases).
- Add materials pickup lockers, drop boxes, and possibly materials vending options at various locations around the District where service access is less ideal.
- Renovate East Library to better utilize space and lower operating costs (upgrade Automated Materials Handling system); explore shifting upstairs lab to main floor to reduce staffing requirements upstairs.
- Maximize service hours at all locations, aspiring to have 6 days a week service at all locations other than Ute Pass, Palmer Lake, and Calhan Libraries. Explore offering Sunday

Figure 5.1 Scenario 1 – Number of Libraries within 15 Minutes without Rockrimmon

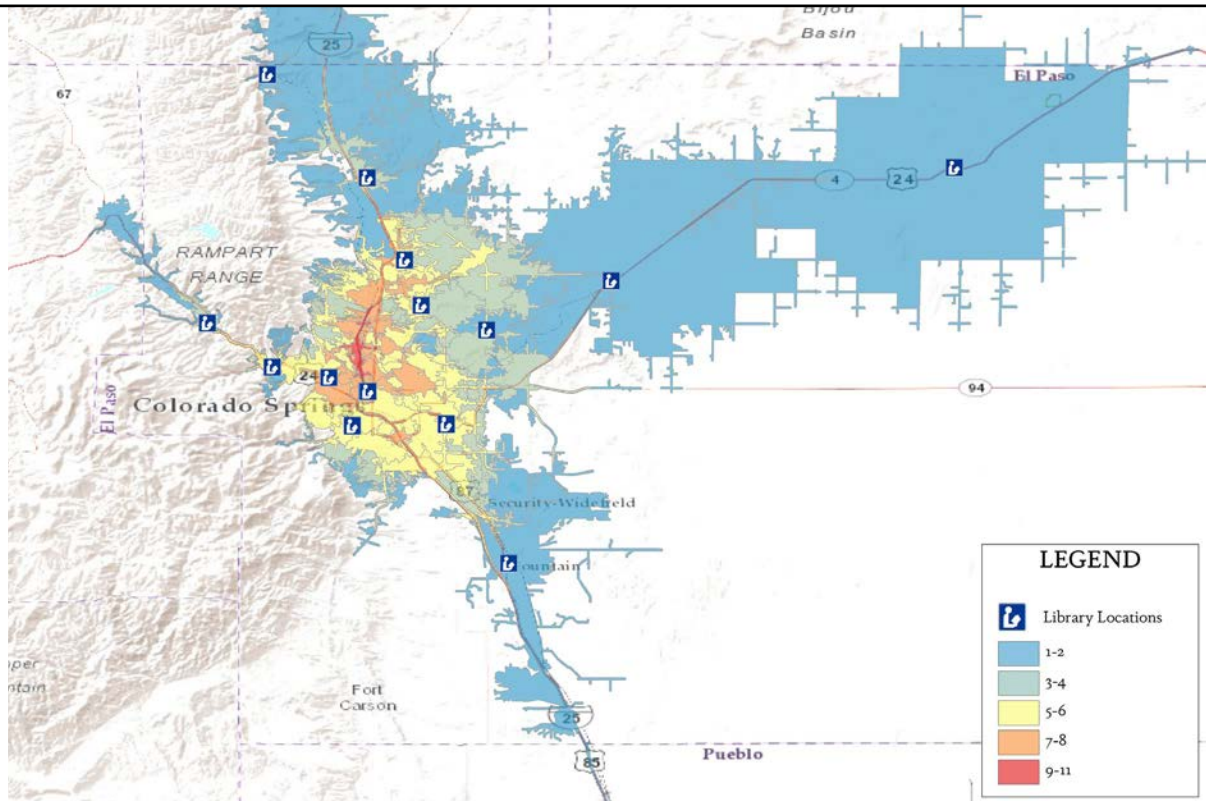
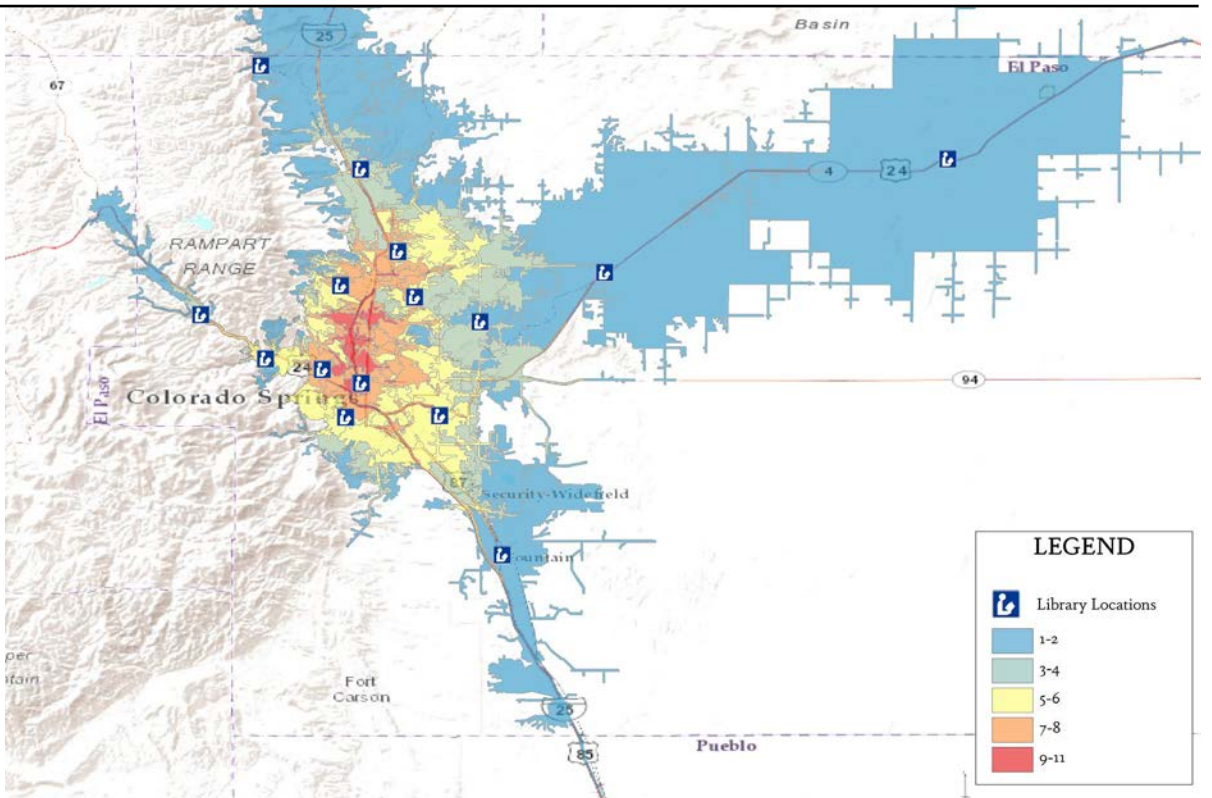


Figure 5.2 Scenarios 2 and 3 – Number of Libraries within 15 Minutes without Rockrimmon



service at three to five key locations in the system.

- At this level PPLD should consider a non-public service center located in a lower-cost facility or warehouse. This service center would act as a central sorting location, collection overflow buffer, and would better serve the important outreach team and their vehicles than the current space at Penrose Library, which is highly problematic and inefficient for that team.
- Also, at this funding level PPLD should add resources to the Outreach Services Team perhaps with a focus on more mobile programming. A mobile Science, Technology, Engineering, and Math (STEM)/Science, Technology, Engineering, the Arts, and Math (STEAM) programming vehicle might be a consideration (see the Catawba County Library System [NC] for such an example).

5.3.6 Overview of Scenario 3

- No outlets closed
- One new outlet added
- Shifting Monument outlet to new location
- Expanding/renovating more locations
- Shifting some locations to expanded hours through controlled access with no reductions in staffed hours
- Increasing hours of service overall, both at individual locations and in terms of total unique open hours available across the system.

Table 5.3 Scenario 3 - No Reduction Funding Short-, Mid-, and Long-Term Projects

Short-Term	Mid-Term	Long-Term
Pilot unstaffed, controlled access to Calhan, Palmer Lake, or Ute Pass Libraries	Add new Powers Boulevard Corridor outlet	Upgrade Sand Creek Library
Seek voter approval on funding increase	Expand High Prairie Library location	Renovate East Library
Add materials pickup lockers	Shift Monument Library to a new and larger owned location	Shift Rockrimmon Library to an owned location
		Shift Cheyenne Mountain Library to an owned location

This recommendation set would raise the total system space level to 415,000 square feet from 354,000 square feet, while achieving a more efficient total operational/capital cost per open hour and per square foot of library space. The funding increase would also position PPLD to add further outlets, make expansions, or shift leased spaces to owned properties towards the end of the planning period or just after into the next planning window.

While it may not be possible to completely close the facility gap compared to average Colorado libraries, which lower-than-average funding has created over the last 30 plus years, this approach should ensure that PPLD does not fall further behind in those averages.

5.3.7 Other Considerations

In addition to the recommendations outlined above, a number of innovative ideas and long-term initiatives came up during the planning process that may merit more investigation. All of these ideas may be ways to position the finances, programming, and facilities of PPLD for the longer term.

Libraries in Mixed-Use Development

One bigger idea that might warrant consideration is developing Penrose into a mixed-use facility. While that library is seen by many as the flagship hub of the system, it is underutilized relative to other facilities of that size and could benefit from a rethink. Libraries as anchors in a larger, modern, mixed-used development is a growing trend in the U.S. Systems like **Chicago Public**, **Milwaukee Public**, and **Philadelphia Free** have had significant success with various approaches to this concept. The downtown block that Penrose sits on is valuable land that could be a prime candidate for a mixed-use project. Any such development should preserve the historic Carnegie Library and would need to include sufficient free short-term parking to support library use.

Milwaukee Public Library (WI):

Milwaukee Public Library is currently replacing four branch libraries with new facilities that will be part of mixed-use projects. Two previous branches, Villard Square (2011) and East (2014), have successfully demonstrated the benefits of co-locating library facilities with residential and retail space.

For more information: https://www.mpl.org/about/library_development.php

Cornelius Place:

In the town of Cornelius, Oregon, is a mixed-use development incorporating a public library, café,

courtyard for concerts and a farmers' market, and a YMCA recreation and fitness center. It creates a multipurpose community center for the town of 12,400.

For more information: <https://www.lincolnst.edu/publications/articles/new-chapter/>

Madison Public Library:

Madison Public Library has several libraries located in mixed-use developments. The Sequoia Library (2009) occupies 20,000 square feet of the first-floor space at Sequoia Commons, a mixed-use residential, retail, and public library development. The Pinney Neighborhood Library (2020) is part of the Royster Corners mixed-use development incorporating the library and residential housing. The Imagination Center is in the planning stages, and it will incorporate a library branch and a park pavilion/community space within a city park.

Chicago Public Library:

Chicago Public Library has successfully incorporated library branches into several mixed-use facilities. The Back of the Yards branch replaces a library located inside the Back of the Yards College Prep Academy into a building with affordable housing, a health care center, a performing arts center, and space for non-profits. The Humboldt Park branch will include affordable housing units, a Latino cultural center, offices for Humboldt Park Family Health, and architectural office space. Previous library projects in multi-use developments included the Little Italy branch (2019) including a mixed-income residential complex, and the Northtown Library and Independence branches (2019) which both included affordable senior housing.

For more information:

<https://www.chipublib.org/news/chicago-public-library-announces-plans-to-open-two-new-locations-in-mixed-use-developments-and-funding-for-a-new-branch-in-woodlawn/>

<https://www.som.com/projects/taylor-street-apartments-and-little-italy-branch-library/>

<https://www.huduser.gov/portal/pdredge/pdr-edge-inpractice-090919.html>

<https://www.mchap.co/mchap-2022-projects/independence-library-and-apartments>

City of Boston:

The City of Boston is venturing into mixed-use development including the public library. It is tentatively planning to rebuild the Boston Public Library incorporating income-restricted housing units. Many of the units will be larger, encouraging

family occupancy.

For more information: <https://www.boston.gov/news/redevelopment-boston-public-libraris-west-end-branch-include-housing>

Brooklyn Public Library:

Brooklyn Public Library opened a mixed-use building in the Fall of 2023. It includes 100% affordable housing over their Sunset Park Library branch. The library is on the first two-and-a-half floors with a mix of different size residences in the remainder of the building.

For more information: <https://www.6sqft.com/nycs-first-100-affordable-housing-development-with-new-public-library-opens-in-sunset-park/>

Land Acquisition and Dedication

Under certain circumstances, the City of Colorado Springs currently requires developers to dedicate land or pay a fee in lieu of land dedication. Per 1,000 residences, parkland dedication requirements range from 4-8 acres, and school dedication requirements range from 5-20 acres under current code requirements. Municipalities across the country have instituted these rules as a way to ensure that community members live close to important amenities like schools and parks. Developers either provide sites that are knitted into new subdivisions, or provide the local government with funds to purchase land for those purposes. While some communities have instituted similar rules for libraries and other civic assets, it is relatively rare. In the future, PPLD could explore the creation of a similar ordinance for its service area, enabling it to be more proactive and responsive to growth in the region, rather than being reactive.

System Consolidation

The Security Public Library District is located just south of Colorado Springs and is surrounded by the PPLD. In a largely consolidated metropolitan area, this duplication of facilities and administrative overhead is most likely inefficient and probably confusing to residents. In order to reduce redundancy and improve efficiency, it may benefit both library systems to merge, combining the facility portfolios and collections while streamlining facility maintenance and the patron experience.

ACRONYMS & ABBREVIATIONS

A		O	
ACT	Acoustical Ceiling Tile	O.H.	open hours
ADA	Americans with Disabilities Act	O&M	Operations and Maintenance
ADI	Area Deprivation Index	P	
AHU	air handling unit	PC	personal computer
B		P&ID	Piping and Instrumentation Diagrams
BAS	building automation system	PPLD	Pikes Peak Library District
C		R	
CEO	Chief Executive Officer	RFID	radio-frequency identification
CHW	chilled water	ROI	return on investment
CMMS	Computerized Maintenance Management Systems	RTU	rooftop unit
CSU	Colorado Springs Utilities	S	
CUH	Cabinet Unit Heater	SF	square foot
D		S.T.E.A.M.	Science, Technology, Engineering, the Arts, and Math
DHW	domestic hot water	S.T.E.M.	Science, Technology, Engineering, and Math
E		T	
EBCx	Existing Building Commissioning	TAB	test, adjust, and balance
ECM	Energy Conservation Measures	U	
EMA	Energy Management Association	UPS	uninterruptible power supply
EMP	Energy Management Professional	V	
F		VAV	variable air volume
FCA	Facility Condition Assessment	VFD	variable frequency drive
FCI	Facility Condition Index	W	
FCU	fan coil unit	W.A.	weighted activity
FDC	Fire Department Connection		
FIM	Facility Improvement Measures		
FMP	Facilities Master Plan		
FRV	facility replacement value		
FTE	full-time equivalent		
H			
HB	house bill		
HHW	heating hot water		
HVAC	heating, ventilation, and air conditioning		
I			
IR	infrared		
IT	information technology		
L			
LED	light-emitting diode		
M			
MAU	makeup air unit		
MCC	Motor Control Centers		
MLS	Mobile Library Services		
M&V	measurement and verification		

REFERENCES & ACKNOWLEDGEMENTS

B.1 REFERENCES

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PPLD Key Performance Indicators [PPLD KPIs - 2022-23.xlsx], Pikes Peak Library District (2022)

B.2 ACKNOWLEDGMENTS

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Neil Marks	
Randall Green	
Rob Cullin	

PIKES PEAK LIBRARY DISTRICT STAFF & COMMUNITY SURVEYS



Pikes Peak Library District Community Survey 2023

Help plan the future of how Pikes Peak Library District serves you and the community

Pikes Peak Library District (PPLD) wants to know what you think about our current libraries and services, and hear your ideas for the future. Your input is much appreciated as we strive to improve your Library experiences.

Please take a few minutes to fill out this brief, 8 - 10 minute survey. Your answers will be completely anonymous. Even if you don't have a PPLD library card or regularly use the Library, we still want to hear from you.

Thank you for your time and support. We truly appreciate it.

Library Use

* 1. How often do you use Pikes Peak Library District in-person or online?

- Daily Monthly Hardly ever
 Weekly A few times a year Never

Library Use: Non-Users

* 2. If you are not a regular Pikes Peak Library District user, please tell us why not. (Please check ALL that apply)

- | | |
|--|---|
| <input type="checkbox"/> I prefer to buy and own my own books, music, movies, and learning materials | <input type="checkbox"/> I usually don't find what I want at the library |
| <input type="checkbox"/> I use a different public library | <input type="checkbox"/> It's confusing to have so many different options |
| <input type="checkbox"/> I use my school library | <input type="checkbox"/> I never think of the library as an option |
| <input type="checkbox"/> I used the library when my children were young, but have stopped | <input type="checkbox"/> I am too busy to use the library |
| <input type="checkbox"/> I haven't used the library since I was a child | <input type="checkbox"/> I owe fees |
| <input type="checkbox"/> It's hard to get to the library (transportation) | <input type="checkbox"/> The library's location is not convenient for me |
| <input type="checkbox"/> The library's hours are not convenient | <input type="checkbox"/> I have never used a library |
| <input type="checkbox"/> My library card doesn't work | <input type="checkbox"/> Parking is too difficult |
| <input type="checkbox"/> Other (please specify) <input type="text"/> | |

Library Use - Continued

* 3. Which Pikes Peak Library District locations have you used in the past year?

- | | | |
|--|---|---|
| <input type="checkbox"/> Calhan Library | <input type="checkbox"/> Manitou Springs Library | <input type="checkbox"/> Ruth Holley Library |
| <input type="checkbox"/> Cheyenne Mountain Library | <input type="checkbox"/> Mobile Library Services (<i>i.e.</i> ,
<i>bookmobile or lobby stop van</i>) | <input type="checkbox"/> Sand Creek Library |
| <input type="checkbox"/> East Library | <input type="checkbox"/> Monument Library | <input type="checkbox"/> Ute Pass Library |
| <input type="checkbox"/> Fountain Library | <input type="checkbox"/> Old Colorado City Library | <input type="checkbox"/> PPLD.org (<i>from outside of a
Library location</i>) |
| <input type="checkbox"/> High Prairie Library | <input type="checkbox"/> Palmer Lake Library | <input type="checkbox"/> PPLD mobile app (<i>from
outside of a Library location</i>) |
| <input type="checkbox"/> The Hall at PPLD (formerly
known as Knights of Columbus
Hall) | <input type="checkbox"/> Penrose Library | <input type="checkbox"/> Virtual Library via Zoom or
YouTube (<i>participated in virtual
program or watched video</i>) |
| <input type="checkbox"/> Library 21c | <input type="checkbox"/> Rockrimmon Library | <input type="checkbox"/> I don't use any of these
libraries |

* 4. Which Pikes Peak Library District location do you use most frequently? (Please choose ONE)

- | | | |
|--|--|--|
| <input type="radio"/> Calhan Library | <input type="radio"/> Manitou Springs Library | <input type="radio"/> Ruth Holley Library |
| <input type="radio"/> Cheyenne Mountain Library | <input type="radio"/> Mobile Library Services (<i>i.e.</i> ,
<i>bookmobile or lobby stop van</i>) | <input type="radio"/> Sand Creek Library |
| <input type="radio"/> East Library | <input type="radio"/> Monument Library | <input type="radio"/> Ute Pass Library |
| <input type="radio"/> Fountain Library | <input type="radio"/> Old Colorado City Library | <input type="radio"/> PPLD.org (<i>from outside of a
Library location</i>) |
| <input type="radio"/> High Prairie Library | <input type="radio"/> Palmer Lake Library | <input type="radio"/> PPLD mobile app (<i>from outside
of a Library location</i>) |
| <input type="radio"/> The Hall at PPLD (formerly known
as Knights of Columbus Hall) | <input type="radio"/> Penrose Library | <input type="radio"/> Virtual Library via Zoom or
YouTube (<i>participated in virtual
program or watched video</i>) |
| <input type="radio"/> Library 21c | <input type="radio"/> Rockrimmon Library | <input type="radio"/> I don't use any of these libraries |

Library Use - Continued

* 6. Why do you use Pikes Peak Library District? (Check ALL that apply)

- | | | |
|--|---|---|
| <input type="checkbox"/> Find a book | <input type="checkbox"/> Study alone | <input type="checkbox"/> Use local history and/or genealogy resources |
| <input type="checkbox"/> Find DVD, CD, audiobook, etc. | <input type="checkbox"/> Use printer/copier/scanner/fax | <input type="checkbox"/> Use the Makerspace/Studio |
| <input type="checkbox"/> Access eBooks, eAudiobooks, etc. | <input type="checkbox"/> Attend a meeting | <input type="checkbox"/> Check out items from the Library of Things |
| <input type="checkbox"/> Access online learning resources | <input type="checkbox"/> Meet up with friends | <input type="checkbox"/> Use literacy/ESL resources |
| <input type="checkbox"/> Attend a storytime | <input type="checkbox"/> Use library WiFi | <input type="checkbox"/> Use adult education resources |
| <input type="checkbox"/> Attend a Library program | <input type="checkbox"/> Use Career Navigator Services | <input type="checkbox"/> Use Food Industry Training resources |
| <input type="checkbox"/> Attend a class | <input type="checkbox"/> For computer help | <input type="checkbox"/> For citizenship resources |
| <input type="checkbox"/> Use the Educational Resource Center | <input type="checkbox"/> Use a Library computer | <input type="checkbox"/> Attend a gallery exhibit or performance |
| <input type="checkbox"/> For group study | <input type="checkbox"/> Volunteer time or services | |
| <input type="checkbox"/> Other (please specify) | <input type="checkbox"/> Read a magazine or newspaper | |

Studio space for maker/artist in residence	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Family use/single use restrooms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Space for international language materials	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Additional Comments:

Pikes Peak Library District: Services

Services available at today's public libraries are continually evolving to better serve the community. Help us decide what we should maintain, add, and/or update. Please tell us how you rate these Library services in terms of IMPORTANCE and VALUE to this community.

* 8. Please rate the IMPORTANCE of the following services.

	Extremely Important	Somewhat Important	Neither Important nor Unimportant	Somewhat Unimportant	Extremely Unimportant	Don't Know/ No Opinion
In-library access to computers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Borrowing books, movies, and music	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to online databases and learning platforms (Ancestry, LinkedIn Learning, Mango Languages, Powerpass, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Local history collections	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Downloadable or streaming content (eBooks, eAudiobooks, eMagazines, music streaming, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adult programming (book clubs, job help, cultural events, author talks, maker workshops, computer classes, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Children's programming (storytime, STEAM programs, summer adventure, tutoring, enrichment, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Teen programming (STEAM programs, crafts, college and career programs, gaming, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to Library materials beyond regular Library hours (vending machines, lockers for holds pickup, after-hours facilities access, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Assistance with new technology, equipment, etc.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Coordinated visits to the Library from various locations within the community (senior centers, schools, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Borrowing non-traditional items (passes to state parks and local museums, laptops, e-readers, WiFi hotspots, tools, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mobile Library Services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Library collections and programs in languages other than English	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

What are we missing? What would you like to see?

Pikes Peak Library District: Comments

Is there something we've forgotten? Please provide any additional thoughts, ideas, and/or suggestions regarding the Pikes Peak Library District and its facilities.

15. Thoughts and comments

16. Would you like to opt-in to receive news and updates from Pikes Peak Library District?

Yes

No

If yes, please provide your email address.

Thank You

Thank you for taking time to fill out this survey. You are helping to make the Pikes Peak Library District the best it can be!



Pikes Peak Library District Staff Survey 2024

Help plan the future of how Pikes Peak Library District supports staff and serves the community

Pikes Peak Library District (PPLD) wants to know from your perspective as a staff member, what you think about our current libraries and services, and hear your ideas for the future. Your input is much appreciated as we strive to improve our Library experiences.

Please take a few minutes to fill out this brief, 5 - 7 minute survey. Your answers will be completely anonymous.

Thank you for your time and support. We truly appreciate it.



Pikes Peak Library District Staff Survey 2024

Library Locations

*** 1. Which Pikes Peak Library District locations have you worked at or used in the past year?**

- | | | |
|--|---|---|
| <input type="checkbox"/> Calhan Library | <input type="checkbox"/> Manitou Springs Library | <input type="checkbox"/> Ruth Holley Library |
| <input type="checkbox"/> Cheyenne Mountain Library | <input type="checkbox"/> Mobile Library Services (i.e., bookmobile or lobby stop van) | <input type="checkbox"/> Sand Creek Library |
| <input type="checkbox"/> East Library | <input type="checkbox"/> Monument Library | <input type="checkbox"/> Ute Pass Library |
| <input type="checkbox"/> Fountain Library | <input type="checkbox"/> Old Colorado City Library | <input type="checkbox"/> PPLD.org (from outside of a Library location) |
| <input type="checkbox"/> High Prairie Library | <input type="checkbox"/> Palmer Lake Library | <input type="checkbox"/> PPLD mobile app (from outside of a Library location) |
| <input type="checkbox"/> The Hall at PPLD (formerly known as Knights of Columbus Hall) | <input type="checkbox"/> Penrose Library | <input type="checkbox"/> Virtual Library via Zoom or YouTube (participated in virtual program or watched video) |
| <input type="checkbox"/> Library 21c | <input type="checkbox"/> Rockrimmon Library | |
| <input type="checkbox"/> I don't use any of these libraries | | |

community.

The hours are adequate for user needs.

The collection is adequate for user needs.

The location is convenient for users.

Parking is readily available.

It seems easily accessible and usable for those with physical or mobility challenges.

Staff treats all users equitably.

It is on a public transportation route.

It seems easily accessible and usable for those with emotional, cognitive, or neurosensory differences.

It seems easily accessible and usable for those who speak a language other than English.

Large community meeting spaces for over 50 people	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Children's area for ages 0 - 12 that supports development, literacy, play, and imagination	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Teen area for ages 13 - 18 that supports literacy, collaboration, creativity, and social connections	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
"Bookstore-like" displays of new and popular materials	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Art galleries and exhibit spaces	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Outdoor spaces/green spaces	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Food and drink area with seating	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Convenient parking	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Good public transit, pedestrian, and bicycle access	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Close to schools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Easily accessible Friends of the Library bookstore	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sensory and/or calming rooms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Studio space for maker/artist in residence	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Family use/single use restrooms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Space for international language materials	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Additional Comments:

Access to Library materials beyond regular Library hours (vending machines, lockers for holds pickup, after-hours facilities access, etc.)

Assistance with new technology, equipment, etc.

Coordinated visits to the Library from various locations within the community (senior centers, schools, etc.)

Borrowing non-traditional items (passes to state parks and local museums, laptops, e-readers, WiFi hotspots, tools, etc.)

Mobile Library Services

Library collections and programs in languages other than English

What are we missing? What would you like to see?



Pikes Peak Library District Staff Survey 2024

* 5. Do you live within the Pikes Peak Public Library District boundaries?

- Yes No Not Sure



Pikes Peak Library District Staff Survey 2024

Pikes Peak Library District: Comments

Is there something we've forgotten? Please provide any additional thoughts, ideas, and/or suggestions regarding the Pikes Peak Library District and its facilities.

6. Thoughts and comments



Pikes Peak Library District Staff Survey 2024

Thank You

Thank you for taking time to fill out this survey. You are helping to make the Pikes Peak Library District the best it can be!

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
1	2025	East Library	06_Fire	Investigate FDC Fail	The Fire Department Connection (FDC) was failed by a recent inspection. Water is not coming from the connector and will not supply the fire department in case of a fire emergency. There have been a few investigations to determine the source of failure. According to our interview with the client it was thought that the failure could be happening under the foundation. Alternatives to divert the potential issue with the underground fire line route have been rejected by the fire department. It is recommended that the design and planning continue with the fire department and remedy the situation as soon as possible.	\$5,100
2	2025	Antlers Garage Facade	02_Architectural Exterior	Inspect/Design/Repair Exterior Wall	The exterior walls located at the south wall (front entrance) and 50% of the east and west walls are brick (unfired) and are in extremely poor condition. Every ~3-4 years these walls are tuck pointed and repainted at the exterior by PPLD maintenance staff. Moisture appears to be wicking through the bricks from the ground causing deterioration of the brick and mortar. The exterior has had repairs done, however, the interior of the exterior walls are decaying, mortar is missing, loose bricks, and sections of brick are missing at these locations. Recommend that a structural engineer investigate the cause of the deterioration, evaluate the stability of these walls and design a solution to provide repairs and actions to prevent further decay or a potential failure of the structure. The brick in question appears to be load bearing for the roof. Several sections are missing significant brick material in the walls. The entirety of the wall could not be clearly seen on the interior due to the amount of items stored in the facility. There could be potential foundation issues and issues where the wall brick wall meets the plock wall. There exterior walls are not insulated and are painted brick. This requirement includes an inspection of the wall, estimated design costs, and construction costs to remedy the deficiency. Estimate inspection ~\$12,500, design ~\$25,000, construction ~\$65,000. Estimate ~\$102,500 total. This opinion is based on high level estimate for repairs.	\$104,550
3	2025	Penrose Carnegie Library	07_Electrical	Install Cover On Meter Sockets	The main incoming switchboard for Penrose Library has 2 meter sockets without covers and the internals are exposed to all maintenance staff. This poses a safety risk as well as allows dust and debris to accumulate inside of the equipment. We recommend that these meter sockets be covered for maintenance safety.	\$1,020
4	2025	Antlers Garage Facade	02_Architectural Exterior	Provide Panic Hardware (Electrical Room Doors)	The main distribution panel room does not have panic hardware on the doors for emergency egress. Based on 4,000 Amp service, panic hardware is required and should be on the exit doors per code. The existing doors swing into the building interior and should open towards the building exterior per code. Recommend retrofitting existing double metal doors with appropriate panic hardware and reversing the swing opening from internal to the room to open to the building externally. Consider replacing doors serving electrical room entirely.	\$5,100
5	2025	Penrose Carnegie Library	07_Electrical	Replace Tritium Exit Signs	The exit signs within the Carnegie Library use tritium to illuminate without electricity. They are past their useful life and are no longer self-illuminating. Recommend replacing all tritium exit signs, this is a Life Safety issue and should be replaced immediately.	\$7,650
6	2025	East Library	07_Electrical	Electrical Maintenance on Exit/EM Lights	Exit/Emergency lights. The fire code requires that the emergency lights or lighted exit signs be inspected and tested at least once a month. The test must include a thirty-second test of the lights. An annual test is also required, with the lights being operated on emergency power for the full minimum of thirty minutes.	\$10,200

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
7	2025	Library 21C	07_Electrical	Spare Circuit Breakers Turned Off	Many Panelboards have breakers which are marked as spare, yet are turned on. We recommend that all breakers which are marked as spare are turned off (for maintenance staff safety), in all panels (Could be as many as 50). We have been notified that even though the panel's schedules are marked 'spare' there are still some existing loads being powered by the circuit breakers. We recommend that if a circuit breaker marked as spare still has load connected to it, to change the description to something other than 'spare' and then all circuit breakers which are spares be turned off.	\$51,000
8	2025	Calhan Library	02_Architectural Exterior	Repair Roofing - Ridge Cap	The main roof surface is in decent condition, however, all ridge caps have quarter sized holes puncturing through the asphalts singles. In several places along the top portion of the Dutch Roof, the holes have punctured through, exposing and damaging the OCB decking. It is recommended that the roof be inspected by a licensed professional and fixed to prevent any inherent leaking to the interior of the facility.	\$2,958
9	2025	Calhan Library	03_Architectural Interior	Repair and Repaint Damaged Ceiling	It visually appears that the roof is leaking on the North end of the building. Visual inspection reveals heavy water staining and drywall cracking. This area is directly below the portion of the exterior roof where quarter sized holes were visible puncturing the asphalt singles. It is recommended this be further investigated to determine the exact cause of the staining and cracking of drywall. Once the issue is resolved, it would recommended that the ceiling be repaired and repainted.	\$4,896
10	2025	Antlers Garage Facade	07_Electrical	Provide Code Clearance (MDP & Panel HI)	General housekeeping is poor in this facility. It appears to be used for miscellaneous storage. There are materials within the area of the 4,000 Amp switchgear as well as in front of the 125A panel. This is a code violation. At a minimum recommend removing any items stored in the electrical room to another location. Generally recommend going through items stored and either provide shelving and better organization of materials, moving these items to another location, and disposing of any non essential items. Proper clearance should be provided for the panels immediately.	\$2,550
11	2025	Antlers Garage Facade	07_Electrical	Provide Emergency Exit Signage	Electrical room does not currently have emergency exit signage that is normally required by code and for general safety. Based o the 4,000 Amp service (MDP), recommend providing emergency exit signage in this space per code and for life safety. Recommend providing appropriate labels at building exterior identifying equipment located within the east side of the facility.	\$2,550
12	2025	Antlers Garage Facade	07_Electrical	Provide Emergency Egress Lighting	Electrical room does not currently have emergency egress lighting that is normally required by code and for general safety. Based on the 4,000 Amp service (MDP), recommend providing emergency egress lighting in this space per code and for life safety. Recommend installing battery pack bug eyes in this room.	\$3,570
13	2025	Fountain Library	07_Electrical	Perform Disconnect Maintenance	Perform electrical maintenance on disconnect, checking the movement of the disconnect (lube/exercise as needed), tighten all conductors which land on lugs, entering and leaving of the disconnect.	\$1,020
14	2025	Fountain Library	07_Electrical	Perform Panelboard Maintenance	We recommend all Electrical Panels be tested with a thermal scan device, for the health of the interior of this panel and that all feeders landing on this panel be re-torqued due to it's age. We also recommend that all circuit breakers be tested for proper working operation. The estimated price for each panel is \$1,000.	\$3,060

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
15	2025	Sand Creek Library	07_Electrical	Perform Panelboard Maintenance	We recommend all Electrical Panels be tested with a thermal scan device, for the health of the interior of this panel and that all feeders landing on this panel be re-torqued due to it's age. We also recommend that all circuit breakers be tested for proper working operation. There are 4 electrical panels on site, Panel P1 has 3 sections and Panel P2 has 1 section for a total of 4 sections. The estimated cost of maintenance for each panel is ~\$1,000.	\$4,080
16	2025	East Library	07_Electrical	Electrical Maintenance on Main Switchboard	We recommend the Main Switchboard be tested with a thermal scan device, for the health of the interior of this panel and that all feeders landing on this panel be re-torqued due to it's age. We also recommend that all Switches be tested, exercised and lubricated, providing the maintenance needed for proper operation. We also recommend that all down stream fuses be checked for the proper size, per the 1-line diagram and for proper operation.	\$5,100
17	2025	East Library	07_Electrical	Electrical Maintenance on MCC's	We recommend all MCC's be tested with a thermal scan device, for the health of the interior of this panel and that all feeders landing on these MCC's be re-torqued due to it's age. We also recommend that all starters and contactors are inspected and tested for proper operation of the equipment.	\$5,100
18	2025	East Library	07_Electrical	Electrical Maintenance on Disconnect Switches	Perform electrical maintenance on disconnects, checking the movement of the disconnect (lube/exercise as needed), tighten all conductors which land on lugs, entering and leaving the disconnect. This requirement is for the Electrical Distribution equipment, would also recommend performing maintenance for all disconnects associated with mechanical equipment.	\$5,100
19	2025	The Hall (KoC)	07_Electrical	Perform Maintenance on Panels	We recommend all Electrical Distribution Panels, be tested with a thermal scan device, for the health of the interior of this panel and that all feeders landing on this panel be re-torqued due to it's age. We also recommend that all circuit breakers be tested for proper working operation. There are 4 electrical distribution panels within The Hall.	\$5,100
20	2025	East Library	07_Electrical	Electrical Maintenance on Panel Boards	We recommend all Panel Boards be tested with a thermal scan device, for the health of the interior of this panel and that all feeders landing on this panel be re-torqued due to it's age. We also recommend that all circuit breakers be tested for proper working operation.	\$21,420
21	2025	Penrose Carnegie Library	07_Electrical	Perform Maintenance on Panels	There are a total of 22 electrical distribution panels in Penrose Library and 8 electrical distribution panels in Carnegie Library. We recommend all Panels be tested with a thermal scan device, for the health of the interior of this panel and that all feeders landing on this panel be re-torqued due to it's age. We also recommend that all circuit breakers be tested for proper working operation. The estimated price per panel is \$1,000. There is also a Motor Control Cabinet (MCC) in Penrose Library. We recommend the MCC be tested with a thermal scan device, for the health of the interior of this panel and that all feeders landing on this panel be re-torqued due to it's age. We also recommend that all circuit breakers be tested for proper working operation. The estimated price per panel is \$2,500.	\$33,150
22	2025	Library 21C	07_Electrical	Electrical Maintenance	Electrical distribution system maintenance. It is recommended that all Switchboards, switchgear, main distribution panels and distribution panels be tested with a thermal scan device, for the health of the interior of these panels and that all feeders landing on these panels be re-torqued due to their age. It is also recommended that all circuit breakers be tested for proper working operation.	\$57,120
23	2025	Fountain Library	05_Plumbing	Replace Missing Strainer	One of the roof drains is missing its strainer. Without the strainer the roof drain piping can clog with leaves and other debris. Recommend replacing strainer.	\$765
24	2025	Library 21C	04_Mechanical	Replace Pump No. 6	The booster pump No. 6 is no longer operating. It is recommended that the pump be replaced.	\$5,100

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
25	2025	Penrose Carnegie Library	02_Architectural Exterior	Investigate Cause of Water Leak	Water is leaking into the garage area from above. The leak is happening between the sidewalk and the building near the "Materials Return" door on the upper parking deck. Maintenance staff have been unable to permanently stop this leak and have added flashing on the wall inside of the garage to prevent rainwater from leaking onto two condensing units. Recommend an exploratory study to fully understand the cause of the leak and how to prevent it.	\$15,300
26	2025	Sand Creek Library	05_Plumbing	Re-Caulk Toilet Base	Caulking around toilet base has failed and is allowing water infiltration which will lead to underfloor damage. Recommend removing all old caulking and applying new caulk.	\$102
27	2025	Library 21C	05_Plumbing	Repair Backflow Preventer	The backflow preventer in the mechanical room, 175, is slightly leaking. it is recommended that the backflow preventer be repaired.	\$408
28	2025	East Library	05_Plumbing	Divert Drainage Under Reading Terrace	The reading terrace located at the westerly end of the building has rain water drains located near the edge. The last one on the furthest northwest edge of the terrace is almost directly over the chiller located directly below. Rainwater falling onto any part of the chiller is not optimal and could potentially cause damage. It is recommended that the rainwater be diverted away from the chiller and the building foundation.	\$1,020
29	2025	Fountain Library	01_Structural	Caulk Foundation Joint	Caulking at the joint between the foundation and sidewalk has failed and is allowing water infiltration. Water against the foundation will cause deterioration of the foundation leading to structural issues. Recommend cleaning all joints of caulk and applying new caulk for a water tight seal to avoid structural damage.	\$1,836
30	2025	Fountain Library	02_Architectural Exterior	Route Water Away from Foundation	Caulking around exterior windows is failing.	\$2,040
31	2025	Old Colorado City	03_Architectural Interior	Caulk Seals On Elevator Glass	The passenger elevator/lift is on the exterior side of the building and is made of glass and aluminum framing. The seals around the glass and framing are deteriorating and water is leaking inside. It is damaging the drywall inside and ponding on the basement level. it is recommended that the seals be caulked to prevent further leaking and damage.	\$2,550
32	2025	Penrose Carnegie Library	05_Plumbing	Replace Water Meter	Water meter is not connected to the building, only wires remain. We recommend that the water meter is reattached to the exterior of the building. Without the actual water meter being there, PPLD may be over paying the monthly bill. Verify this meter is functional and operational or determine if there is a meter at another location.	\$2,550
33	2025	Fountain Library	01_Structural	Route Water Away From Foundation	River rock swale is clogged with silt causing rain water from roof to accumulate against foundation. This standing water will cause the foundation to crack due to hydrostatic pressure. Clear silt from swale to improve water flow away from building.	\$2,550
34	2025	Sand Creek Library	01_Structural	Replace Caulking at Foundation	Foundation to sidewalk joint caulking has failed and is allowing water to accumulate against foundation. Standing water against concrete foundation will	\$2,550
35	2025	Penrose Carnegie Library	04_Mechanical	Investigate AHU-6 Lack Heat	During the assessment it was reported that AHU-6 was blowing cold air while in heating mode. Recommend investigating cause to improve thermal comfort of the building occupants.	\$3,264
36	2025	Rockrimmon Library	02_Architectural Exterior	ADA Improvements - Entry	The front entrance doors are not wide enough for ADA access. At least one set of these doors, at a minimum, needs to be 32 inches each and up to 48 inches maximum. Recommend full inspection by licensed architect to determine all ADA requirements.	\$5,100
37	2025	Cheyenne Mountain Library	06_Fire	Rusted Stub Out	The stub out pipe, leading to the fire sprinkling system for the library is severely rusted. The entire piping leading to and from the backflow preventor is severely corroded. It is highly recommended that the piping be replaced.	\$5,100

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
38	2025	Library 21C	02_Architectural Exterior	Repair Facade @ Skylight	The exterior wall surface at the skylight has deterioration of the metal due to rusting. Recommend removing corrosion, sanding, prepping, priming and sealing with two coats of alkyd paint.	\$6,120
39	2025	Library 21C	02_Architectural Exterior	Repair Balcony Rooftop		\$10,404
40	2025	Fountain Library	01_Structural	Mitigate Flange Rust & Spalling	Flange to Flange connections at precast double tees are corroding and have caused the concrete to spall. This is likely due to a previous roof leak which has been reported as repaired. Recommend a study by a structural engineer to determine the best solution to prevent further damage.	\$12,240
41	2025	Calhan Library	07_Electrical	Provide Fire Protection	The facility is not equipped with a fire protection system. There is no fire riser and sprinkling system. There are also no fire alarm panels, strobes, pull boxes and smoke detectors. It is recommended that this be investigated further to determine a corrective measure in order to meet fire codes. PPLD Comment: "Unless it has changed, facility is under 10,000 sf and does not require sprinkler systems nor a fire alarm system. Should have smoke detectors though." Recommend adding smoke detection per PPLD comments. Adjusted requirement cost to reflect this.	\$1,020
42	2025	The Hall (KoC)	04_Mechanical	Recondition Inoperable CUH	Parking level cabinet unit heater appears to be in operable. Recommend maintenance to provide heating to the outdoor entrance parking area.	\$1,530
43	2025	Fountain Library	04_Mechanical	Investigate Temperature Differences	Staff reported that when the Office Area is warm, the Book Area is cold and vice versa. Recommend a study to find a solution for better thermal comfort and possible energy savings.	\$12,750
44	2025	High Prairie	03_Architectural Interior	Chrome Ceiling Fan Blades Causing Sun Strobe Effect	The chrome ceiling fans work well, according to staff. However, certain times of the day the sunlight comes through the high windows in the clerestory and reflect off the fan blades. When the fans are operating, the sun bounces off the chrome blades and creates a strobe effect in the main library area. Some customers and staff have complained due to light sensitivity and distraction. It is recommended that the blades be replaced with a non-reflective material if possible, however, replacing the fans entirely is more feasible.	\$606
45	2025	Palmer Lake Library	03_Architectural Interior	Unisex Restroom ADA Compliance	The bathroom is not fully ADA compliant. Recommend upgrading bathroom, stalls, fixtures, and area to meet current ADA standard compliance.	\$15,300
46	2025	Penrose Carnegie Library	07_Electrical	Provide Electrical Clearances Per Code	In spaces which have electrical distribution equipment in them, per the National Electrical Code, a space of at least 36" needs to be clear in front of it for electrical maintenance working space. There are many spaces, either main electrical rooms, service rooms or closets which have equipment stacked either directly in front of the distribution equipment or within the 36" required to be kept clear. Recommend that all spaces in front of Electrical Distribution Equipment has at least 36" of clear space in front of it.	\$765
47	2025	Library 21C	07_Electrical	Provide Proper Electrical Clearances	Electrical Distribution Equipment needs a minimum of 3' clearance to be clear in front for electrical for working space and access. There are many cases where items are stored or placed directly in front of electrical distribution equipment like transformers, MCC (motor control centers), and distribution panels. Recommend these items be moved and the requires 3' be clear in front of all distribution equipment.	\$10,200
48	2025	Rockrimmon Library	05_Plumbing	Add Point Of Use Hot Water Heater	There is only one point of use hot water tank in the public restroom. All other restrooms were only running cold water. By code, there really should be a hot water option. It is recommended that a point of use tank be added to the other restrooms.	\$5,100

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
49	2025	Penrose Carnegie Library	03_Architectural Interior	Install Railing Along Loading Dock	In the garage area there are elevated (36") walking surfaces requiring guardrails installed to prevent injuries from falls per IBC 1015.2. Recommend starting with a code study to determine which areas of the elevated surface are required to have guardrails install. Pricing based on engineering, materials, and install of an assumed 50 linear feet of guard rail.	\$15,300
50	2025	East Library	04_Mechanical	Direct Digital Control System Renewal	Auto generated renewal for Direct Digital Control System. System Description: Building automation system direct digital controls. System includes software, central station (pc), control devices, programming, wiring, and appurtenances. Current system is an electric control system installed in 20120. The system is due for replacement within 6 years based on the age and condition. This facility is on a Reliable (vender) control system. Recommend single sourcing to one control vendor to reduce costs, complexity and training. Recommend Reliable controls based on East libraries already being on this system. The replacement/upgrade of controls assumes some components could remain in place (wiring, etc.).	\$357,254
51	2025	Penrose Carnegie Library	04_Mechanical	Direct Digital Control System Renewal	Auto generated renewal for Direct Digital Control System. System Description: Building automation system direct digital controls. System includes software, central station (pc), control devices, programming, wiring, and appurtenances. Current system is an electric control system installed in 20120. The system is due for replacement within 6 years based on the age and condition. This facility is on a Reliable (vender) control system. Recommend single sourcing to one control vendor to reduce costs, complexity and training. Recommend Reliable controls based on East library already being on this system. The replacement/upgrade of controls assumes some components could remain in place (wiring, etc.).	\$401,446
52	2026	Library 21C	04_Mechanical	Direct Digital Control System Renewal	Auto generated renewal for Direct Digital Control System. System Description: Building automation system direct digital controls. System includes software, central station (pc), control devices, programming, wiring, and appurtenances. Current system is a hybrid system (75% pneumatic, 25% electric). The system is due for replacement based on the age, type of system, condition. Recommend replacing pneumatic controls with DDC controls and changing the system so that all facilities are on one control vendors system. Currently 21C is the only facility on Setpoint System controls. Recommend single sourcing to one control vendor to reduce costs, complexity and training. Recommend Reliable controls based on Penrose/Carnegie and East libraries already being on this system. Some controls are original (pneumatic) and some controls were upgraded around 2010.	\$585,932
53	2026	The Hall (KoC)	07_Electrical	Repair Upper Level Lighting	The existing lighting outside the upper office space is not working. We could not find a switch for the space, or the lamps (2) are burned out. Recommend repairing the fixture, either replace the fixture or replace the lamps.	\$765
54	2026	East Library	03_Architectural Interior	Repair Hard Lid Ceiling	The hard lid ceiling, just outside the kids reading area and the adjacent study room #160, is peeled and cracking. It appears to be evidence of a prior window leak from the clerestory window above this area. It is recommended that the ceiling be repaired and repainted.	\$1,020
55	2026	Penrose Carnegie Library	02_Architectural Exterior	Reseal Joint Between Wall Panels	On the west side of the building near the single door to the basement level caulking and foam backer rod have failed and are allowing water intrusion. The water intrusion can cause other wall elements to deteriorate and fail. Recommend removing and replacing all existing sealing material to prevent further damage.	\$1,530
56	2026	Penrose Carnegie Library	07_Electrical	Investigate Cause of Transformer Noise	Within the Carnegie Library, the 112.5 kVA step down transformer, from 480-208, is very noise in the Main Electrical Room (PE-43). Investigate the cause of the noise to determine the best course of action.	\$1,530

Appendix D - FCA Prioritized Requirements

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57	2026	Fountain Library	05_Plumbing	Replace Eroding Scupper	The concrete block supporting the scupper piping is deteriorating and will eventually fail. This will lead to additional water standing against the foundation which can damage the concrete foundation. Recommend replacing block to help direct rainwater away from the building.	\$1,836
58	2026	Antlers Garage Facade	02_Architectural Exterior	Caulk/Repair Windows	Exterior windows are missing some caulking around the facility openings. Recommend inspecting windows and providing any repairs, including caulking to seal the structure weathertight.	\$5,100
59	2026	East Library	04_Mechanical	Replace/Repair Exhaust Fans	Recommend replacing the following two exhaust fans based on age and condition. The exhaust fan on the Northwest upper roof (serving the laser scanner room) and EF-2 located on the lower main roof. The Northeast fan has a damaged curb and flashing and was vibrating and noisy during the time of the assessment. EF-2 was not operational and had exterior rusting, this fan serves the Monolith skylight area, and it's sequence of operation is not clear. Recommend replacing these fans, and in addition, some of the curbs were missing screws on the flashing, recommend going through all of the exhaust fans and replacing hardware. Recommend adding phenolic equipment tags with areas served on the exhaust fans that match the BAS system. If any exhaust fans are no longer required, recommend removing them from operation, capping and insulating curbs, and removing ductwork and sealing penetrations.	\$11,630
60	2026	Monument Library	03_Architectural Interior	Replace / Repair Interior Doors	The left side to the sliding door into the Community Room is slightly rough to open and close. It glides but makes a sound indicating that the rollers on the inside top portion of the door need attention. The rollers might simply need maintenance or something might have broken within the mechanism. It is recommended that this be investigated further. The other doors used for the offices and restrooms are hollow core with miscellaneous, outdated hardware. The Men's restroom door had apparently been damaged at the top and was reinforced with a 3'x 8" piece of wood. It is recommended that eight of the ten damaged doors be replaced and all hardware be updated.	\$17,626
61	2026	Library 21C	04_Mechanical	Investigate Return Air Issue	In discussions with the client it was discovered that they are having return air issues with the HVAC system. It is recommended that this be investigated further by a licensed HVAC professional to determine the cause of deficiency.	\$25,500
62	2026	East Library	02_Architectural Exterior	Repair and Caulk All Windows	The windows throughout the facility need attention. It is reported that there have been issues regarding leaking during significant storms. There is evidence of this with visible water stains on Acoustic Ceiling Tiles directly below the clerestory windows located in the middle section of the building. Visible evidence of potential issues are evident looking at the outside of those roof windows. Caulking is either missing or significantly deteriorated. It is recommended that all roof windows and clerestory windows be inspected for defects and, at a minimum, have the caulking removed and replaced. Furthermore; the glass screen wall, along the westerly facing reading terrace, is deficient in many areas. The fasteners holding the glazing in place at the anchor base, have broken off in many places. Many sections of the glass screen wall have pulled away from the aluminum mullions. It was discussed that the client already knows of the issue and have received quotes to fix the screen wall. It is recommended that the glass screen wall be thoroughly inspected and repaired.	\$30,600
63	2026	Penrose Carnegie Library	01_Structural	Replace Garage Slab	Concrete slab in garage area is in poor shape. Years of vehicles dripping ice melt solutions on the concrete has caused most of the surface to spall. The surface is severely pitted and cracked. Recommend replacing the entire slab in the garage area to prevent further damage to the slab and adjacent building elements.	\$82,100

Appendix D - FCA Prioritized Requirements

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64	2026	Rockrimmon Library	03_Architectural Interior	Repair Wall/Ceiling	There are Acoustic Ceiling Tiles (ACT) that are stained as a result of what appears to be roof leaks. The stained tiles are primarily found along the west wall in the staff area and offices. These areas constitute for about 10 percent of the entire ceiling tile. It is recommended that the roof be inspected by a licensed professional. After which it is recommended that these tiles be replaced. The hot water tank in Restroom RO-101 had leaked prior to being replaced. The drywall was touched up and painted but still shows some buckling from the water damage. It is recommended the entire section of ceiling be removed and replaced with new drywall, tape, mud and paint. Replace damaged ceiling tiles.	\$3,825
65	2026	Library 21C	02_Architectural Exterior	Caulk Skylights	The skylight joint sections are deteriorated due to weathering. Recommend removing existing caulk and seals and providing new seals and caulking to avoid potential water leaks into building.	\$8,568
66	2026	Monument Library	04_Mechanical	Relocate Thermostat	A thermostat, located midway along the South wall of the main library wall, is behind a book shelf. It is recommended that this thermostat be relocated out from behind the bookshelf.	\$408
67	2026	East Library	03_Architectural Interior	Repair Restroom Tiles	The tile flooring and curbed entrance to the men's shower has pieces of the tile missing or broken and its grout in need of replacement or sealed. It is recommended that the tiles be replaced, fixed and sealed.	\$816
68	2026	Library 21C	04_Mechanical	Repair Condenser Fins	The split system is in need of hail guards. As a result of hail storms in the past, the fins are severely damaged. Damaged fins can reduce the efficiency of the unit. Recommend installing hail guards cleaning, and combing fins straight.	\$1,020
69	2026	Cheyenne Mountain Library	02_Architectural Exterior	Exterior Door Seals	The rear exterior doors need to have the seals replaced. There is a significant gap at the lower right corner of the exterior door near the staff entry. Cold air, debris and water was evident at the time of assessment.	\$1,020
70	2026	Library 21C	03_Architectural Interior	Replace Ceiling Tiles	Observed 2 broken acoustical ceiling tiles in the LL Children's Playroom and 20 stained ceiling tiles on both levels. Recommend replacing ceiling tiles.	\$1,122
71	2026	Ruth Holley Library	05_Plumbing	Install Restroom Electric Heater	The staff restroom, located in the furthest northeast corner of the building, is comprised of two walls that are not insulated. The east wall is an exterior wall and the north wall shares a space that is neither heated or insulated. As a result, the water lines feeding the restroom facilities have frozen in the past. Two louvers were installed on the north wall to create airflow and when temperatures are extremely low, a space heater is left on inside the room. Although this is a working remedy, it is recommended that a small electric heater be professionally installed within the space to help mitigate the temperature in the colder months.	\$1,530
72	2026	The Hall (KoC)	05_Plumbing	Attach Water Meter To Wall	The existing water meter is not attached on the wall. It appears to have fallen off the wall. It is recommended that the meter be re-attached.	\$1,530
73	2026	High Prairie	04_Mechanical	Investigate Heating Issue In Staff Area	The office and book return area has a climate environment that is uncomfortable for staff members. In the winter the air leans on the colder side despite turning up the thermostat. A supply duct was extended further into the room to help remedy the situation but failed. It is undetermined what is causing the room to be cold, whether it's the thermostat location, an issue with the geothermal unit or the exterior door and book return slots letting cold air in. It is recommended this be investigated and repaired.	\$1,530
74	2026	Monument Library	03_Architectural Interior	Replace Vinyl Flooring	The Vinyl Composite Tile (VCT) squares in room MO-103 are severely damaged. The area where the VCT meets the carpet at the door is severely cracked and peeled away. It is recommended that the VCT in room MO-103 be replaced. Recommend replacing all flooring in this area ~400 sqft.	\$1,900

Appendix D - FCA Prioritized Requirements

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75	2026	Penrose Carnegie Library	06_Fire	Investigate And Repair Fire Riser Leak	The fire riser has an apparent leak from an unknown origin. The leak is being captured directly under the double check valve. It has been inspected in the past, but nothing definitive has been resolved. It is recommended that it be inspected again to determine the source of the leak.	\$2,040
76	2026	Calhan Library	04_Mechanical	Replace Unit Heaters	The electric unit heaters in both breezeway's are not functioning properly. The control knobs will not enable the functionality of turning on or off. When the unit heater in the north breezeway is on it gives off an electrical burning odor. Both heaters have been turned off at the fuse panel. It is recommended that the unit heaters be inspected further and either replaced or repaired.	\$2,295
77	2026	Library 21C	02_Architectural Exterior	Repair Roof Flashing	The metal perimeter flashing located west side of building (ground level public balcony) needs sanding and re-paint with alkyd direct to metal paint. Approximately 50 linear feet.	\$2,550
78	2026	Ruth Holley Library	02_Architectural Exterior	Seal Exterior Windows	The exterior windows on the south facing wall have various places where the seal has significantly deteriorated. It is recommended all the windows be investigated further and those areas be sealed again.	\$3,060
79	2026	Fountain Library	02_Architectural Exterior	Adjust Door, Frame, & Closer	Front storefront door is binding seasonally as the temperature changes. The temperature difference between the outdoor air and indoor air causes the aluminum door to expand at different rates between inside and outside causing binding within the frame. Recommend adjusting all components to allow automatic door closure while ensuring door opening pull weight is within ADA regulations.	\$3,060
80	2026	Library 21C	05_Plumbing	DHW Piping Modifications	During our onsite interview with the facility manager it was noted that the water closets are piped to the domestic hot water. We did not observe this condition, however, this should be investigated by a licensed professional and remediated. This has potential energy use reduction if true.	\$3,570
81	2026	Cheyenne Mountain Library	02_Architectural Exterior	Book Drop Openings Are Leaking	The book drops, found on the westerly facing exterior walls, are leaking when there is significant down pours. It is recommended that the source of leaking be determined and fixed or have the book drops re-located.	\$5,100
82	2026	Calhan Library	02_Architectural Exterior	Repair/Eliminate Water Infiltration	The north side exterior door is somehow allowing water to pass through bottom and is partially flooding the enclosed breezeway. The water has seeped underneath the laminate flooring and has buckled two laminate strips. Further flooding could result in more damage. It is recommended that the leak on the exterior door be inspected and repaired. Recommend evaluating the root cause of the water infiltration and remedying the situation.	\$5,916
83	2026	Calhan Library	01_Structural	Investigate/Repair Foundation	The sealant around the foundation needs to be resealed in various areas. It is recommended that the entire seal be redone to avoid any moisture or future pest issues. Recommend having a structural engineer evaluate any foundation or slab movement causing the issue.	\$6,248
84	2026	East Library	01_Structural	Repair Terrace Slab	The terrace slab on the westerly side of the building is significantly cracking and in some places divided across each slab. It is recommended that the slabs be further inspected and repaired.	\$7,650
85	2026	Library 21C	03_Architectural Interior	Investigate And Repair Ceiling Below Balcony	There is significant ceiling damage in the circulation room due to a roof leak directly below the balcony. It is recommended that the source of the leak be repaired.	\$8,670
86	2026	Fountain Library	01_Structural	Investigate Slab Settlement	On the south wall there is a section where the cove base is moderately separated from the floor. This could indicate the slab settling. It is recommended that the slab be investigated for movement and a remediation plan put in place.	\$10,200
87	2026	Library 21C	02_Architectural Exterior	Replace Exterior Doors - Steel	There are a total of 7 solid steel exterior doors need to be replaced. they are rusted, paint is fading, and there are multiple holes in each steel door.	\$10,710

Appendix D - FCA Prioritized Requirements

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88	2026	Rockrimmon Library	03_Architectural Interior	Repair Drywall	The drywall outside Room 120 (staff work area and offices), is cracked at the seam near the column. In the Teen Reading Area the drywall is slightly buckled and cracked where the Acoustic Ceiling Tiles meet the transition to the header and hard-lid ceiling. The drywall behind the mop sink in Staff Storage Rm 119 is severely deteriorated. It appears to be deteriorated from heavy and continual amounts of water splashing outside the sink and against the drywall. It is recommended that these areas be repaired and repainted. Various areas throughout the facility have minor scuffs and scratches. It is recommended that the 5 to 10 percent of walls be sanded or patched and repainted.	\$12,240
89	2026	Penrose Carnegie Library	02_Architectural Exterior	Replace Damaged Overhead Garage Door	The overhead garage door has damaged multiple panels and has hardware fasteners pull out. Recommend replacing overhead door before the door becomes inoperable.	\$12,240
90	2026	Penrose Carnegie Library	04_Mechanical	Investigate Fan Running In Manual Mode	The 5hp exhaust fan for CO2 control in the garage is in Hand mode and no longer runs off of sensors. VFD runs the fan at 30% speed 24/7. Investigate why the exhaust fan is being run in hand instead of auto mode triggered by the CO2 sensors.	\$12,750
91	2026	East Library	04_Mechanical	Provide Isolation Valves (HHW & CHW)	There are long piping runs on the CHW and HHW piping system and isolation valves for maintenance are not present. Recommend cutting in isolation valves on piping to assist with maintenance and potential failures as the piping ages. Recommend cutting in valves at each facility level. Estimate 8 total valves per floor (HHW and CHW, Supply and Return Piping).	\$14,688
92	2026	Antlers Garage Facade	07_Electrical	Provide Conditioned Space (Electrical Room)	Electrical room is not currently conditioned and temperatures probably reach extremes in both the summer and winter which can be hard on the equipment and impact it's useful life. Recommend providing an electric unit heater for tempering the space to ~55 degrees in the winter, and an exhaust fan interlocked with a louver for summer operation to provide cooling to the space based on the OEM recommendations for temperature. Recommend design be provided by licensed architects/engineers. Design ~\$12,500, Construction (Materials and Labor) ~\$15,000. Total ~\$27,500. Excludes any upgrades to the room for insulation, weathertightness, etc.	\$28,050
93	2026	Library 21C	02_Architectural Exterior	Repair EPDM At Joints	The south section of the roof (EPDM) is experiencing wrinkling of the EPDM at the overlapping joints. Recommend contacting the roofing company as the 5-year warranty should cover the cost of repair. The roof warranty expires in September of 2024.	\$51,000
94	2026	Library 21C	05_Plumbing	Inspect DHW/DCW Piping	The domestic water piping (DCW/DHW) is at ~80% of it's recommended lifecycle. Recommended hiring a consulting firm to evaluate the actual condition of the interior piping system. Methods can include coupon sampling, ultrasonic analysi, and borescoping.	\$12,240
95	2026	East Library	04_Mechanical	HHW & CHW Piping Condition	The heating hot water and chilled water piping are nearing the end of their life. Recommend inspecting the condition of both piping systems at various locations to determine the actual condition of the piping. Recommend utilizing one or a combination of the following methods; borescoping, ultrasonic testing, or coupon sampling (lab analysis). This sampling can be performed as systems are replaced or work is completed on the systems in different facility areas.	\$25,500
96	2026	Antlers Garage Facade	07_Electrical	Investigate Fire Protection Requirements (Electrical Room)	Electrical room does not have fire protection (sprinkler piping). Recommend evaluating the need for fire protection in the electrical room portion of the facility. This requirement is only to evaluate the requirements for a facility with a 4,000 Amp switchgear. The existing condition is probably grandfathered in the code, however, based on safety and the impact of fire in this area, PPLD may want to pursue this option. Note the joists and ceiling are constructed out of wood.	\$7,650

Appendix D - FCA Prioritized Requirements

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97	2026	Antlers Garage Facade	07_Electrical	Provide Wall/Roof Insulation (Electrical Room)	Existing electrical room with 4,000 Amp services is currently not insulated. Based on the recommendation to condition this space with an electric unit heater (separate requirement), we recommend insulating the walls and ceiling to reduce energy consumption if the mechanical equipment is added. Recommend furring walls with studs and providing batt insulation in furred walls and between the ceiling joists. Recommend providing structure to code for conditioned space. The older brick walls should be repaired prior to this room being insulated. This recommendation is for the electrical room and excludes all other areas of the facility.	\$15,300
98	2026	The Hall (KoC)	03_Architectural Interior	Replace Damaged Ceiling Tile	Five damaged ceiling tile observed from past water damage. Recommend replacing all damaged ceiling tiles.	\$765
99	2026	The Hall (KoC)	07_Electrical	Replace Missing Light Fixture Lens	The existing fluorescent surface mounted fixture within the electrical space is missing a lens and needs to be replaced. The original fixture had a glass lens, which has been broken, if the glass lens can not be replaced, recommend the fixture is replaced. There are also some 0.125 thick lens that are mis-colored and need to be replaced. We estimate there are at least 10 fixtures that the lens is either missing or damaged and needs to be replaced.	\$2,550
100	2026	East Library	03_Architectural Interior	Replace Ceiling Tiles Where Needed	The acoustical ceiling tiles are showing signs of slight deterioration. Most are dirty around the HVAC diffusers. A few are found to be water stained from the water leaks at the roof and clerestory windows. It is recommended that the tiles be replaced.	\$10,200
101	2026	Rockrimmon Library	05_Plumbing	Replace Restroom Fixtures	The facility's in the public restrooms are past their service life and do not meet ADA requirements. It is recommended that these facility's be updated to meet the ADA requirements.	\$15,300
102	2026	Ruth Holley Library	03_Architectural Interior	Repair Tiled Baseboard	The tile baseboard in the Staff Restroom is chipped along the top where it meets the drywall. The location is on the east wall and localized to a small area. It is recommended this tiles be replaced and all the tiles re-grouted.	\$510
103	2026	Sand Creek Library	03_Architectural Interior	Replace Damage Ceiling Tiles	There is a water stained ceiling tile and a broken ceiling tile. Replace all damaged ceiling tile. Recommend inspecting and replacing ~5% (700 square feet) of the total ceiling tile.	\$896
104	2026	Fountain Library	03_Architectural Interior	Repair Crack in Gyp Board	Gypsum board in Community Room is cracked. Staff explained they had an issue with the attachment of drywall to the metal studs which was addressed. Recommend repairing crack and refinishing gyp board.	\$1,224
105	2026	East Library	04_Mechanical	Clean/Repair Unit Heaters	Units are generally dirty and need cleaning. Recommend going through all unit heaters and cabinet unit heaters and cleaning surfaces and making any minor repairs. Recommend going through and tightening fasteners and connections.	\$1,530
106	2026	Palmer Lake Library	03_Architectural Interior	Repair Baseboard Finishes	Approximately 300 LF of wooden baseboard is moderately scratched or gouged from years of use and wear. It is recommended that the baseboards be sanded, stained, and refinished to match existing.	\$1,785
107	2026	High Prairie	03_Architectural Interior	Vinyl Laminate Flooring Separating	The Vinyl Laminate Flooring in the reading area is lifting and separating. The client has contacted the vendor to have the flooring fixed.	\$2,040
108	2026	Cheyenne Mountain Library	02_Architectural Exterior	Corroding Exterior Windows	The exterior windows on the western side of the building, primarily in the staff breakroom, are corroded and have what appears to be calcium deposits. It is recommended that the windows be inspected for leaks and the aluminum surfaces be cleaned.	\$2,550
109	2026	Fountain Library	03_Architectural Interior	Replace Damaged Tile	Ceramic tile in breezeway between main building and Community Room are cracked. Recommend replacing approximately 240 sf of ceramic tile.	\$2,938

Appendix D - FCA Prioritized Requirements

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110	2026	Penrose Carnegie Library	05_Plumbing	Replace Recirculating Pump	The water heater, located in the basement electrical room of Carnegie, is newer but not being used due to the circulation pump not working. This small tank only serves the restrooms in the basement nearby. The fuse is off at the breaker box. Recommend replacing recirc pump to restore hot water service to the basement restrooms.	\$3,570
111	2026	Library 21C	02_Architectural Exterior	Caulk Storefront Glass	The upper storefront glass of main entrance in the east, recaulking is needed for ~250 LF of the joint seals to prevent future water leaks into the building.	\$5,100
112	2026	East Library	03_Architectural Interior	Repair And Repaint Walls	Overall the wall finishes are in great condition. However, there are some areas around the column wraps and exterior walls in the kids reading area that could use some cleaning, repairing or repainting. Due to the heavy traffic and usage of the garage area, the walls are extremely dirty, scratched and gouged. The basement corridor is also showing scuffs and scratches along the lower portion of the walls. The basement level bathrooms with wallpaper in the entrances that's peeling at the seams. It is recommended that these area be repaired and repainted.	\$5,100
113	2026	Ruth Holley Library	03_Architectural Interior	Replace Stained ACT	As a result of past roof leaks that have since been repaired, some acoustic tile ceiling (ACT) panels were stained. It is estimated that only 5 percent of the tiles were stained. It is recommended that these be replaced.	\$5,100
114	2026	Library 21C	02_Architectural Exterior	Repair Exterior Brick Veneer	Recommend replacing ~130 units of brick veneer (20 SF] due to damage from weatherization, cracking near the top wall caps. The joint mortar on the top rows of brick veneers need to be re-buttered at the east side walls that encompass the outdoor mechanical screen walls.	\$5,126
115	2026	Rockrimmon Library	03_Architectural Interior	Replace Carpet - Staff Area	The nylon carpet in the staff areas are moderately worn through the high traffic areas. It is recommended that these areas be updated with a durable high traffic nylon replacement.	\$5,712
116	2026	Library 21C	03_Architectural Interior	Repair and Repaint Walls	The interior walls have routine damage based on use. We observed ~30 location (~4 SF each) that have damage. Recommend repairing damaged surfaces with joint compound, a primer coat, and 2 coats of paint.	\$6,120
117	2026	Library 21C	03_Architectural Interior	Repair Interior Doors	There are ~25 doors mostly wooden that have experienced damage due to standard use. Most of the original doors are 9 high x 3.25' wide. Recommend sanding the doors, staining, and providing two coats using oil-based stain with a protective coat..	\$12,750
118	2026	Old Colorado City	07_Electrical	Retrofit LED Lights	A majority of the LED lighting was installed during the renovation in 2008. There have been issues with the light's brightness and the ability to replace the older LED circuits. It is recommended that the older LED be retrofitted with newer LED technology.	\$14,994
119	2026	Antlers Garage Facade	03_Architectural Interior	Interior Finishes - Walls Renewal	Auto generated renewal for Interior Finishes - Walls. System Description: Interior wall finishes includes all finish types; block, brick, wood, gyp board, etc. Includes primer, sealers, and two coats of paint, stain, or sealer. Excludes tape, plaster, mud, and exterior walls. The east, west, and north sides of the walls that are block construction are in fair condition, recommend painting block walls. The south wall is in poor condition. Due to condition of brick, the south wall needs to be repaired prior to finishing the interior surface. Recommend repairing the south interior wall and then providing a proper surface coat of paint to the south walls and repainting all other wall to match.	\$2,953

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
120	2026	Antlers Garage Facade	05_Plumbing	Roof Drains & Piping Renewal	Auto generated renewal for Roof Drains & Piping. System Description: Includes all roof drains, gutters, scuppers, piping, insulation, pumps, etc. Excludes domestic water and drain waste and vent. The facility includes exterior gutters to provide rainwater drainage from the roof. Gutter system at roof is in good condition, however, the downspout piping is draining to improper locations near the facility foundation. Drain piping is routed near the structure and pouring onto the bollards at two locations, the west location is draining directly to the exterior walkway (concrete), producing a heaving condition of the concrete due to freezing and thawing. Recommend reworking the gutter system to provide drainage away from the foundation, bollards, and sidewalk.	\$3,459
121	2026	Calhan Library	07_Electrical	Electrical - Fire Alarm, Alarm, Internet Renewal	Auto generated renewal for Electrical - Fire Alarm, Alarm, Internet. System Description: Fire alarm control panel, alarm system, cameras, internet wiring. No fire alarm panel, pulls or strobes exist. There are only three fire extinguishers. in the building. There is an extensive security camera system and a communications/internet server. Estimate 25% of the system will require replacement.	\$3,942
122	2026	East Library	04_Mechanical	Fan Coil Unit - FCU-1 Renewal	Auto generated renewal for Fan Coil Unit - FCU-1. System Description: Horizontal concealed unit with chilled water cooling coil 4 pipe system not running. Serves office near loading dock/garage. Recommend replacing with a functional unit as this unit was not operational during occupied hours. System does not appear to provide ventilation to the office, recommend ventilation be supplied to the office.	\$7,385
123	2026	Calhan Library	02_Architectural Exterior	Roof Coverings & Openings Renewal	Auto generated renewal for Roof Coverings & Openings. System Description: Roof includes all roof types and materials. Metal, Shingles, Built-up, EPDM etc. Roof replaced in 2019.	\$25,029
124	2026	East Library	06_Fire	Fire Protection - Standpipes Renewal	Auto generated renewal for Fire Protection - Standpipes. System Description: Standpipe and risers. Includes all valves, test ports, piping, fittings, etc. Excludes sprinkler piping and heads. The Fire Department Connection failed inspection. The issue has been investigated and it's believed that the issue might be under the building. Designs/Plans have been worked on, but nothing recently has been approved. This issue is on-going.	\$53,667
125	2027	The Hall (KoC)	03_Architectural Interior	Interior Finishes - Flooring Renewal	Auto generated renewal for Interior Finishes - Flooring. System Description: Interior floor finishes include all floor types; tile, vinyl, laminate, wood, carpet, concrete, etc. Includes grout, cove base, sealer, and other finishes. Excludes exterior surfaces. 75% of the floor finishes in this building are in need of replacement or refinishing, recommend replacing or refinishing.	\$68,511
126	2027	Cheyenne Mountain Library	05_Plumbing	Lavatory Pipe Covers	The restrooms overall were found to be ADA compliant. The only exception was that the piping under the lavatory sinks were not covered with soft pipe covers or an enclosure.	\$1,020
127	2027	Antlers Garage Facade	02_Architectural Exterior	Exterior - Doors Renewal	Auto generated renewal for Exterior - Doors. System Description: Exterior doors includes all door types. Includes metal/wood solid/hollow core, sliding, and roll-up doors. Includes single, double, glass doors. Includes all finishes, hardware, and appurtenances. Includes surface finishes primer, two coats of paint or stain. Excludes interior doors. Facility includes metal doors. One double door and two single metal doors. Doors are generally in good condition with updated hardware and locks.	\$3,178
128	2027	The Hall (KoC)	01_Structural	Slab On Grade Renewal	Auto generated renewal for Slab On Grade. System Description: Structural foundation and slab on grade. System replacement due based on age, no issues observed nor reported.	\$11,609

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
129	2027	Palmer Lake Library	05_Plumbing	Plumbing Fixtures - Interior (All) Renewal	Auto generated renewal for Plumbing Fixtures - Interior (All). System Description: Plumbing fixtures include all interior fixtures; lavatories, sinks, urinals, water closets, and water coolers. Includes fixtures and trim. Excludes water heaters, piping, pumps, DHW, DCW, and DWV. Plumbing fixtures have had some upgrades over time (e.g. faucets). Generally, the fixtures are due for replacement based on age and condition. One of the restrooms is used as a server room and storage room for the staff. Recommend replacing existing fixtures and bringing the restroom into ADA compliance. Recommend reconfiguring storage room and removing fixtures if they are no longer needed. The Urinal, Water Closet and Lavatory in Rm PA-4 are no longer in use. The other Water Closet in the operational bathroom is severely corroded and is in need of replacement. These recommendations are made despite the facility being leased.	\$15,228
130	2027	Monument Library	03_Architectural Interior	Interior Finishes - Walls Renewal	Auto generated renewal for Interior Finishes - Walls. System Description: Interior wall finishes includes all finish types; block, brick, wood, gyp board, etc. Includes primer, sealers, and two coats of paint, stain, or sealer. Excludes tape, plaster, mud, and exterior walls. Excludes interior windows. The walls throughout the facility are showing signs of heavy use in areas and normal wear as a result of time. The drywall along the west wall, above the windows, is not finished. Drywall nails are visible indicating it did not have tape, mud and paint applied. It is recommended the drywall be finished and the rest of the facility have new paint applied.	\$15,260
131	2027	Palmer Lake Library	03_Architectural Interior	Interior - Doors Renewal	Auto generated renewal for Interior - Doors. System Description: Interior doors include all door types. Includes metal/wood solid/hollow core, sliding, and roll-up doors. Includes single, double, glass doors. Includes all finishes, hardware, and appurtenances. Includes surface finishes primer, two coats of paint or stain. Includes exterior door hardware only.	\$17,708
132	2027	Monument Library	04_Mechanical	Rooftop Unit - RTU #1 Renewal	Auto generated renewal for Rooftop Unit - RTU #1. System Description: Packaged rooftop unit with electric dX cooling and gas heating. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork. Unit is due for replacement based on age and condition.	\$18,130
133	2027	Monument Library	04_Mechanical	Rooftop Unit - RTU #4 Renewal	Auto generated renewal for Rooftop Unit - RTU #4. System Description: Packaged rooftop unit with electric dX cooling and gas heating. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork. System is due for replacement based on age and condition.	\$18,130
134	2027	Antlers Garage Facade	02_Architectural Exterior	Exterior - Windows Renewal	Auto generated renewal for Exterior - Windows. System Description: Exterior windows, includes all window types, frames, glass, etc. Excludes walls. Exterior windows appear to be aesthetic and not used for natural light. The windows are covered on the interior side by tarp materials to prevent visibility into the space from the exterior. The windows are in fair condition and have some remaining service life.	\$18,675
135	2027	Penrose Carnegie Library	04_Mechanical	Heating Hot Water Pumps (HHWP-8,9) Renewal	Auto generated renewal for Heating Hot Water Pumps (HHWP-8,9). System Description: Heating Hot Water Pumps. In-line constant volume pumps with isolation and check valve. Serve as boiler circulator pumps. P-9 serves B-1 and P-88 serves B-2. Pumps are interlocked with boilers. System replacement due based on age, no issues observed nor reported.	\$21,082
136	2027	Fountain Library	05_Plumbing	Roof Drains & Piping Renewal	Auto generated renewal for Roof Drains & Piping. System Description: Includes all roof drains, gutters, scuppers, piping, insulation, pumps, etc. Excludes domestic water and drain waste and vent.	\$22,098
137	2027	Sand Creek Library	04_Mechanical	Rooftop Unit (RTU-2) Renewal	Auto generated renewal for Rooftop Unit (RTU-2). System Description: Packaged rooftop unit with Dx cooling and gas heating. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork. Lennox T-Class, 60a disconnect. RTU information sticker is missing. System replacement due based on age, no issues observed nor reported.	\$31,727

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
138	2027	Penrose Carnegie Library	04_Mechanical	Rooftop Unit (RTU-2) Renewal	Auto generated renewal for Rooftop Unit (RTU-2). System Description: Packaged rooftop unit with electric dX cooling only. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork.	\$31,727
139	2027	East Library	04_Mechanical	Air Handling Unit - AHU-6 Renewal	Auto generated renewal for Air Handling Unit - AHU-6. System Description: Packaged air handling unit, horizontal draw-thru or blow-thru with CHW cooling and HHW heating. Includes unitary controls, housekeeping pad, filters, mixing box, supply fan, return fan, and variable frequency drive. Excludes ductwork. Return air fan has low to moderate noise and vibration, bearings/shaft. Units were constructed in place and are difficult to move-in/out of the mechanical spaces. Units are due for replacement based on age, recommend refurbishing units in place, estimate 50% of the cost to replace the units new. Recommend refurbishing cabinet, removing rust, painting, hinges, bolts, screws, sheet metal, interior lining, dampers, coils, fans, shafts, bearings, fasteners, clamps, pumps, gaskets, seals, motors, VFDs, sensors, controls, wiring, valves, control valves, filter racks, and piping connections.	\$39,342
140	2027	Penrose Carnegie Library	07_Electrical	Replace Weyco Distribution Equipment	All Weyco electrical distribution equipment was installed in the later part of 1967. This equipment is ~57 years old, the useful life for electrical distribution equipment is within 40 years. We recommend that all Weyco Electrical Distribution equipment is replaced.	\$39,780
141	2027	Antlers Garage Facade	02_Architectural Exterior	Roof Coverings & Openings Renewal	Auto generated renewal for Roof Coverings & Openings. System Description: Roof includes all roof types and materials. Metal, Shingles, Built-up, EPDM etc. Majority of roofing is shingles with some tile roofing on the peaks. In general roofing is in good condition. However, recommend inspecting the roofing tiles based on the observed condition of from the ground level. Recommend verifying need an inspection to determine if the integrity of the roofing system is being maintained. Roofing is ~25 years old and is due for replacement based on age and condition.	\$41,892
142	2027	Penrose Carnegie Library	04_Mechanical	Chilled Water Pumps (CHP-3) Renewal	Auto generated renewal for Chilled Water Pumps (CHP-3). System Description: Pump, base mounted with motor, end-suction, and appurtenance, valves, fittings, suction diffuser, etc. Chilled water circulator Pump. 5hp, 500 GPM. No redundancy. System replacement due based on age, no issues observed nor reported.	\$42,826
143	2027	Old Colorado City	02_Architectural Exterior	Exterior Walls Renewal	Auto generated renewal for Exterior Walls. System Description: Exterior walls, includes walls of all materials and construction. Includes, clerestory, storefront, framing, studs, insulation, vapor barrier, stone, brick, sheetrock, and finishes. Excludes windows. With the foundation on the southern side of the building continually slipping down, the exterior walls are compromised. As a result, the bricks are continually cracking. The lower portion of wall is made of stone block and has large gaps between the stones due to the foundation slipping. With the continual shifting of brick and stone, the grout has cracked and fallen out. This has led to water seepage over time. Recommend correcting foundation issues (separate requirement) and providing repairs to wall. Impacted wall is at the South side of the facility. Recommend hiring a licensed structural engineer/architect to evaluate and scope repairs once the foundation is fixed. Wall corrections could include replacing stone/brick and mortar work (tuckpointing).	\$50,121
144	2027	The Hall (KoC)	03_Architectural Interior	Interior - Doors Renewal	Auto generated renewal for Interior - Doors. System Description: Interior doors include all door types. Includes metal/wood solid/hollow core, sliding, and roll-up doors. Includes single, double, glass doors. Includes all finishes, hardware, and appurtenances. Includes surface finishes primer, two coats of paint or stain. Excludes exterior doors. Doors and door hardware are in overall fair condition, showing wear and tear, we recommend refinishing all interior wood doors and upgrading hardware.	\$51,429

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
145	2027	Library 21C	04_Mechanical	Air Handling Unit - AHU-7 Renewal	Auto generated renewal for Air Handling Unit - AHU-7. System Description: Packaged air handling unit with CHW cooling and HHW heating. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork. Trane Climate Changer (Horizontal Multizone Unit) 8,000 CFM. Unit is due for replacement based on age and condition. Units were built into the existing structure and will be difficult to replace. Recommend refurbishing units in place due to move in/out issues with the equipment. Refurbishment is estimated to be ~60% of the replacement value. Recommend updating control devices, piping, pumps, electrical components and electrical connections at time of replacement. Recommend refurbishment include, cabinet hardware, control devices, dampers, actuators, lining, fan components, sheet metal, gaskets, fasteners, motors, pumps, electrical, etc. Recommend considering converting to a variable volume system during upgrade as part of an energy measure. Recommend refurbishing cabinet, removing rust, painting, hinges, bolts, screws, sheet metal, interior lining, dampers, coils, fans, shafts, bearings, fasteners, clamps, pumps, gaskets, seals, motors, VFDs, sensors, controls, wiring, valves, control valves, filter racks, and piping connections.	\$56,340
146	2027	East Library	04_Mechanical	Heating Hot Water Pumps - (HHWP-1,2) Renewal	Auto generated renewal for Heating Hot Water Pumps - (HHWP-1,2). System Description: Pump, base mounted centrifugal with motor, end-suction, Includes appurtenance, valves, fittings, suction diffuser, vfd, etc. HHW pumps are due for replacement in the next few years. Recommend replacing pumps, motors, VFDs and appurtenances. Include a housekeeping pad and provide clearances for maintenance.	\$64,293
147	2027	Monument Library	03_Architectural Interior	Interior - Doors Renewal	Auto generated renewal for Interior - Doors. System Description: Interior doors include all door types. Includes metal/wood solid/hollow core, sliding, and roll-up doors. Includes single, double, glass doors. Includes all finishes, hardware, and appurtenances. Includes surface finishes primer, two coats of paint or stain. Excludes exterior doors.	\$76,472
148	2027	East Library	04_Mechanical	Exhaust Fans (EF-1,2,3,4,5,6,7) Renewal	Auto generated renewal for Exhaust Fans (EF-1,2,3,4,5,6,7). System Description: Inline fans, centrifugal exhauster (roof or sidewall), curb, mounting, backdraft damper, bird screen, and accessories. Includes all types of fans, excludes ductwork. Generally interior fans were in good condition, exterior fans were in fair/poor condition. Recommendations to replace fans are on individual line item requirements.	\$93,501
149	2027	East Library	04_Mechanical	Air Handling Unit - AHU-4 Renewal	Auto generated renewal for Air Handling Unit - AHU-4. System Description: Packaged air handling unit, horizontal draw-thru or blow-thru with CHW cooling and HHW heating. Includes unitary controls, housekeeping pad, filters, mixing box, supply fan, return fan, and variable frequency drive. Excludes ductwork. Return air fan noisy, bearings/shaft. Units were constructed in place and are difficult to move-in/out of the mechanical spaces. Units are due for replacement based on age, recommend refurbishing units in place, estimate 50% of the cost to replace the units new. Recommend refurbishing cabinet, removing rust, painting, hinges, bolts, screws, sheet metal, interior lining, dampers, coils, fans, shafts, bearings, fasteners, clamps, pumps, gaskets, seals, motors, VFDs, sensors, controls, wiring, valves, control valves, filter racks, and piping connections.	\$98,355

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
150	2027	East Library	04_Mechanical	Air Handling Unit - AHU-5 Renewal	Auto generated renewal for Air Handling Unit - AHU-5. System Description: Packaged air handling unit, horizontal draw-thru or blow-thru with CHW cooling and HHW heating. Includes unitary controls, housekeeping pad, filters, mixing box, supply fan, return fan, and variable frequency drive. Excludes ductwork. Supply fan is noisy, bearings/shaft. Units were constructed in place and are difficult to move-in/out of the mechanical spaces. Units are due for replacement based on age, recommend refurbishing units in place, estimate 50% of the cost to replace the units new. Recommend refurbishing cabinet, removing rust, painting, hinges, bolts, screws, sheet metal, interior lining, dampers, coils, fans, shafts, bearings, fasteners, clamps, pumps, gaskets, seals, motors, VFDs, sensors, controls, wiring, valves, control valves, filter racks, and piping connections.	\$98,355
151	2027	Penrose Carnegie Library	04_Mechanical	Chilled Water Pumps (CHP-1,2) Renewal	Auto generated renewal for Chilled Water Pumps (CHP-1,2). System Description: Pump, base mounted with motor, end-suction, VFD and appurtenance, valves, fittings, suction diffuser, etc. 25hp, 300 GPM each. System replacement due based on age, no issues observed nor reported.	\$98,892
152	2027	Penrose Carnegie Library	04_Mechanical	Cooling Tower Pumps (P-4,5) Renewal	Auto generated renewal for Cooling Tower Pumps (P-4,5). System Description: Cooling tower condenser water pumps. While Cooling tower fan is variable speed, the 6" Run/standby end suction utility style pumps are run/standby at constant speed. Pumps are on individual concrete filled skids mounted on 4" concrete pads. Pumps are isolated via triple offset butterfly valves. Vibration isolation is provided with bellows style flexible flanged connections. Cooling tower pumps have experienced moisture, corrosion and mold are present in this corner of the mechanical room. Recommend annual cleaning and mold remediation in this area. Indoor cooling towers are prone to mold and conventional drywall and building materials do not do enough to hold up to the moisture produced. System replacement due based on age, no issues observed nor reported with pump operation.	\$98,892
153	2028	Fountain Library	07_Electrical	Main Service - Panelboards, Feeders, & Lighting Renewal	Auto generated renewal for Main Service - Panelboards, Feeders, & Lighting. System Description: Switchboard, switchgear, main distribution panel, distribution panels, feeders, junction boxes, disconnects, motor control centers, conduit, and appurtenances. Lighting devices of all types, emergency lighting (bug-eyes), exit signs, emergency lighting, feeders, conduit, switches, junction boxes, covers, lighting panels, controls, and appurtenances. Excludes emergency generator, automatic transfer switches, and fire alarm control panel. The electrical distribution system starts at the pole mounted transformer, 3-37.5 kVA, which delivers 208Y/120V to the site. There is an external 600A disconnect and meter. The interior distribution is a 600-amp distribution panel (Panel A), which then feeds panel B, via a 150-amp circuit breaker from panel A. During conversations with the maintenance staff on-site there are no electrical issues at the building. The general lighting within the building is fluorescent, with a variety of 2'x4' troffers (in general areas), surface mounted liner's (in service areas), recessed cans and either LED or halogen track lighting for various displays within the library. The emergency lighting is satisfied exclusively by emergency bugeyes which are located in paths of egress and in areas which are required to have emergency lighting. The exit lighting is from ceiling mounted exit signs located at every exit and area which lead the public to the exits. The exterior lighting is via either wall pack (with either HID or LED lamps), and pole mounted lights and bollards in the parking area. Estimate 25% of the system will require replacement.	\$99,365

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
154	2028	Library 21C	04_Mechanical	HHW Pumps (HHWP-1,HHWP-2) Renewal	Auto generated renewal for HHW Pumps (HHWP-1,HHWP-2). System Description: Pump, base mounted with motor, end-suction, 5" size, 15 HP, to 1000 GPM. Includes appurtenance, valves, fittings, suction diffuser, vfd, etc. Recommend replacing pumps, components, valves, local piping, and electrical components based on age and condition.	\$102,052
155	2028	Old Colorado City	01_Structural	Standard Foundation & Slab on Grade Renewal	Auto generated renewal for Standard Foundation & Slab on Grade. System Description: Structural foundation and slab on grade. The southwest and southeast corners of the building have been settling over many years. Corrective measures are taken to raise the foundation when it slips, however, nothing has permanently fixed the ongoing issue. In 2005, substantial work was completed to stabilize the foundation. Installation of helical piers made massive improvements but there still remains ground movement depending on the amount of moisture in the area. In January 2024, the client approved southside tuck pointing to address grout issues. This is ongoing maintenance. A movement gauge was installed and there is no major moving on building reported to date. Recommend hiring a licensed structural engineer to evaluate the current conditions and determine a solution to rectify the foundation issues. It is also recommended that the on-going maintenance and observations continue.	\$117,135
156	2028	Penrose Carnegie Library	03_Architectural Interior	Interior Finishes - Flooring Renewal	Auto generated renewal for Interior Finishes - Flooring. System Description: Interior floor finishes include all floor types: tile, vinyl, laminate, wood, carpet, concrete, etc. Includes grout, cove base, sealer, and other finishes. Excludes exterior surfaces. The interior floor finishes are generally in good condition with the exception of high traffic areas and areas where equipment or furniture has damaged carpet. Recommend replacement of the carpet in these areas, estimated to be 20% of the total carpeted area.	\$122,188
157	2028	Ruth Holley Library	02_Architectural Exterior	Exterior Windows Renewal	Auto generated renewal for Exterior Windows. System Description: Exterior windows, includes all window types, frames, glass, etc. Windows need to be sealed in various places along the south facing wall. Windows are due based on age and are in fair condition.	\$128,612
158	2028	Library 21C	04_Mechanical	CHW Pumps (CHP-3,CHP-4) Renewal	Auto generated renewal for CHW Pumps (CHP-3,CHP-4). System Description: Pump, base mounted with motor, end-suction, 5" size, 15 HP, to 1000 GPM. Includes appurtenance, valves, fittings, suction diffuser, vfd, etc. Recommend replacing pumps, components, valves, local piping, and electrical components. Recommend configuring new components to allow for maintenance clearances.	\$137,350
159	2028	East Library	04_Mechanical	Air Handling Unit - AHU-3 Renewal	Auto generated renewal for Air Handling Unit - AHU-3. System Description: Packaged air handling unit, horizontal draw-thru or blow-thru with CHW cooling and HHW heating. Includes unitary controls, housekeeping pad, filters, mixing box, supply fan, return fan, and variable frequency drive. Excludes ductwork. Supply fan noisy, bearings or shaft. Units were constructed in place and are difficult to move-in/out of the mechanical spaces. Units are due for replacement based on age, recommend refurbishing units in place, estimate 50% of the cost to replace the units new. Recommend refurbishing cabinet, removing rust, painting, hinges, bolts, screws, sheet metal, interior lining, dampers, coils, fans, shafts, bearings, fasteners, clamps, pumps, gaskets, seals, motors, VFDs, sensors, controls, wiring, valves, control valves, filter racks, and piping connections.	\$147,533

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
160	2028	Library 21C	04_Mechanical	Exhaust Fans (EF-All Fans) Renewal	Auto generated renewal for Exhaust Fans (EF-All Fans). System Description: Inline fans, centrifugal exhauster (roof or sidewall), curb, mounting, backdraft damper, bird screen, and accessories. Includes all types of fans, excludes ductwork. 35 Exhaust Fans starting with Unit Number EF-1A-EF15 have an install date of 1985. All need to be investigated further to determine if still in use and required. 8 Exhaust Fans starting with Unit Number EF-15-EF-24 have an install date of 2013. These 8 exhaust fans were observed to be in good condition.	\$170,390
161	2028	Library 21C	04_Mechanical	Air Handling Unit - AHU-1 Renewal	Auto generated renewal for Air Handling Unit - AHU-1. System Description: Packaged air handling unit with CHW cooling and HHW heating. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork. Climate Changer (Variable Volume (VAV) Unit). Unit is due for replacement based on age and condition. Units were built into the existing structure and will be difficult to replace. Recommend refurbishing units in place due to move in/out issues with the equipment. Refurbishment is estimated to be ~60% of the replacement value. Recommend updating control devices, piping, pumps, electrical components and electrical connections at time of replacement. Recommend refurbishment include, cabinet hardware, control devices, dampers, actuators, lining, fan components, sheet metal, gaskets, fasteners, motors, pumps, electrical, etc. Recommend considering converting to a variable volume system during upgrade as part of an energy measure. Recommend refurbishing cabinet, removing rust, painting, hinges, bolts, screws, sheet metal, interior lining, dampers, coils, fans, shafts, bearings, fasteners, clamps, pumps, gaskets, seals, motors, VFDs, sensors, controls, wiring, valves, control valves, filter racks, and piping connections.	\$172,811
162	2029	Library 21C	04_Mechanical	Air Handling Unit - AHU-2 Renewal	Auto generated renewal for Air Handling Unit - AHU-2. System Description: Packaged air handling unit with CHW cooling and HHW heating. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork. Trane Climate Changer (Horizontal Multizone Unit). Unit is due for replacement based on age and condition. Units were built into the existing structure and will be difficult to replace. Recommend refurbishing units in place due to move in/out issues with the equipment. Refurbishment is estimated to be ~60% of the replacement value. Recommend updating control devices, piping, pumps, electrical components and electrical connections at time of replacement. Recommend refurbishment include, cabinet hardware, control devices, dampers, actuators, lining, fan components, sheet metal, gaskets, fasteners, motors, pumps, electrical, etc. Recommend considering converting to a variable volume system during upgrade as part of an energy measure. Recommend refurbishing cabinet, removing rust, painting, hinges, bolts, screws, sheet metal, interior lining, dampers, coils, fans, shafts, bearings, fasteners, clamps, pumps, gaskets, seals, motors, VFDs, sensors, controls, wiring, valves, control valves, filter racks, and piping connections.	\$172,811

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
163	2029	Library 21C	04_Mechanical	Air Handling Unit - AHU-3 Renewal	Auto generated renewal for Air Handling Unit - AHU-3. System Description: Packaged air handling unit with CHW cooling and HHW heating. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork. Trane Climate Changer (Horizontal Multizone Unit). Unit is due for replacement based on age and condition. Units were built into the existing structure and will be difficult to replace. Recommend refurbishing units in place due to move in/out issues with the equipment. Refurbishment is estimated to be ~60% of the replacement value. Recommend updating control devices, piping, pumps, electrical components and electrical connections at time of replacement. Recommend refurbishment include, cabinet hardware, control devices, dampers, actuators, lining, fan components, sheet metal, gaskets, fasteners, motors, pumps, electrical, etc. Recommend considering converting to a variable volume system during upgrade as part of an energy measure. Recommend refurbishing cabinet, removing rust, painting, hinges, bolts, screws, sheet metal, interior lining, dampers, coils, fans, shafts, bearings, fasteners, clamps, pumps, gaskets, seals, motors, VFDs, sensors, controls, wiring, valves, control valves, filter racks, and piping connections.	\$172,811
164	2029	Library 21C	04_Mechanical	Air Handling Unit - AHU-4 Renewal	Auto generated renewal for Air Handling Unit - AHU-4. System Description: Packaged air handling unit with CHW cooling and HHW heating. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork. Trane Climate Changer (Horizontal Multizone Unit). Unit is due for replacement based on age and condition. Units were built into the existing structure and will be difficult to replace. Recommend refurbishing units in place due to move in/out issues with the equipment. Refurbishment is estimated to be ~60% of the replacement value. Recommend updating control devices, piping, pumps, electrical components and electrical connections at time of replacement. Recommend refurbishment include, cabinet hardware, control devices, dampers, actuators, lining, fan components, sheet metal, gaskets, fasteners, motors, pumps, electrical, etc. Recommend considering converting to a variable volume system during upgrade as part of an energy measure. Recommend refurbishing cabinet, removing rust, painting, hinges, bolts, screws, sheet metal, interior lining, dampers, coils, fans, shafts, bearings, fasteners, clamps, pumps, gaskets, seals, motors, VFDs, sensors, controls, wiring, valves, control valves, filter racks, and piping connections.	\$172,811
165	2029	Library 21C	04_Mechanical	Air Handling Unit - AHU-5 Renewal	Auto generated renewal for Air Handling Unit - AHU-5. System Description: Packaged air handling unit with CHW cooling and HHW heating. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork. Trane Climate Changer (Horizontal Multizone Unit). Unit is due for replacement based on age and condition. Units were built into the existing structure and will be difficult to replace. Recommend refurbishing units in place due to move in/out issues with the equipment. Refurbishment is estimated to be ~60% of the replacement value. Recommend updating control devices, piping, pumps, electrical components and electrical connections at time of replacement. Recommend refurbishment include, cabinet hardware, control devices, dampers, actuators, lining, fan components, sheet metal, gaskets, fasteners, motors, pumps, electrical, etc. Recommend considering converting to a variable volume system during upgrade as part of an energy measure. Recommend refurbishing cabinet, removing rust, painting, hinges, bolts, screws, sheet metal, interior lining, dampers, coils, fans, shafts, bearings, fasteners, clamps, pumps, gaskets, seals, motors, VFDs, sensors, controls, wiring, valves, control valves, filter racks, and piping connections.	\$172,811

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
166	2029	Penrose Carnegie Library	04_Mechanical	Air Handling Unit (AHU-1) Renewal	Auto generated renewal for Air Handling Unit (AHU-1). System Description: Multizone air handling unit, blow-thru with CHW cooling and HHW heating. 5 Zones. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork. Unit is due for replacement based on age and condition. Units were built into the existing structure and will be difficult to replace. Recommend refurbishing units in place due to move in/out issues with the equipment. Refurbishment is estimated to be ~60% of the replacement value. Recommend updating control devices, piping, pumps, electrical components and electrical connections at time of replacement. Recommend refurbishment include, cabinet hardware, control devices, dampers, actuators, lining, fan components, sheet metal, gaskets, fasteners, motors, pumps, electrical, etc. Recommend considering converting to a variable volume system during upgrade as part of an energy measure. Note: AHU-6 is currently only blowing cold air and pump #6 is not functional. Recommend refurbishing cabinet, removing rust, painting, hinges, bolts, screws, sheet metal, interior lining, dampers, coils, fans, shafts, bearings, fasteners, clamps, pumps, gaskets, seals, motors, VFDs, sensors, controls, wiring, valves, control valves, filter racks, and piping connections. System replacement due based on age, no issues observed nor reported.	\$192,385
167	2029	Library 21C	04_Mechanical	Chiller - CH-1 Renewal	Auto generated renewal for Chiller - CH-1. System Description: Water chiller, centrifugal liquid chiller, packaged unit, air cooled, 200 ton, includes standard controls. Recommend replacing based on age and condition.	\$201,512
168	2030	Library 21C	04_Mechanical	Air Handling Unit - AHU-6 Renewal	Auto generated renewal for Air Handling Unit - AHU-6. System Description: Packaged air handling unit with CHW cooling and HHW heating. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork. Trane Climate Changer (Horizontal Multizone Unit). Unit is due for replacement based on age and condition. Units were built into the existing structure and will be difficult to replace. Recommend refurbishing units in place due to move in/out issues with the equipment. Refurbishment is estimated to be ~60% of the replacement value. Recommend updating control devices, piping, pumps, electrical components and electrical connections at time of replacement. Recommend refurbishment include, cabinet hardware, control devices, dampers, actuators, lining, fan components, sheet metal, gaskets, fasteners, motors, pumps, electrical, etc. Recommend considering converting to a variable volume system during upgrade as part of an energy measure. Note: AHU-6 is currently only blowing cold air and pump #6 is not functional. Recommend refurbishing cabinet, removing rust, painting, hinges, bolts, screws, sheet metal, interior lining, dampers, coils, fans, shafts, bearings, fasteners, clamps, pumps, gaskets, seals, motors, VFDs, sensors, controls, wiring, valves, control valves, filter racks, and piping connections.	\$206,027
169	2030	East Library	04_Mechanical	Air Handling Unit - AHU-1 Renewal	Auto generated renewal for Air Handling Unit - AHU-1. System Description: Packaged air handling unit, horizontal draw-thru or blow-thru with CHW cooling and HHW heating. Includes unitary controls, housekeeping pad, filters, mixing box, supply fan, return fan, and variable frequency drives. Excludes ductwork. Supply air fan motor is noisy. Units were constructed in place and are difficult to move-in/out of the mechanical spaces. Units are due for replacement based on age, recommend refurbishing units in place, estimate 50% of the cost to replace the units new. Recommend refurbishing cabinet, removing rust, painting, hinges, bolts, screws, sheet metal, interior lining, dampers, coils, fans, shafts, bearings, fasteners, clamps, pumps, gaskets, seals, motors, VFDs, sensors, controls, wiring, valves, control valves, filter racks, and piping connections.	\$230,521

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
170	2030	East Library	04_Mechanical	Air Handling Unit - AHU-11 Renewal	Auto generated renewal for Air Handling Unit - AHU-11. System Description: Packaged air handling unit, horizontal draw-thru or blow-thru with CHW cooling and HHW heating. Includes unitary controls, housekeeping pad, filters, mixing box, supply fan, return fan, and variable frequency drive. Excludes ductwork. Return air fan noisy, bearings/shaft. This unit does not have a HHW coil, nor a HHW pump. Units were constructed in place and are difficult to move-in/out of the mechanical spaces. Units are due for replacement based on age, recommend refurbishing units in place, estimate 50% of the cost to replace the units new. Recommend refurbishing cabinet, removing rust, painting, hinges, bolts, screws, sheet metal, interior lining, dampers, coils, fans, shafts, bearings, fasteners, clamps, pumps, gaskets, seals, motors, VFDs, sensors, controls, wiring, valves, control valves, filter racks, and piping connections.	\$230,521
171	2030	Library 21C	04_Mechanical	DDC - Controls Upgrade	The HVAC controls are primarily pneumatic and outdated. It is recommended that they be upgraded to Direct Digital Control (DDC). Due to high cost, this type of project could be done as each Air Handler is refurbished.	\$255,000
172	2031	Library 21C	04_Mechanical	HVAC System & Appurtenances Renewal	Auto generated renewal for HVAC System & Appurtenances. System Description: HVAC System includes equipment, ductwork, insulation, fittings, hangers, dampers, diffusers, thermostats controls. Natural gas piping, louvers, intake/relief hoods. Includes distribution piping for heating hot water, chilled water, condenser water and unit heaters. Includes all piping materials. Excludes Rooftop Units RTUs Air Handling Units AHUs, Boilers, Chillers, and Towers. Estimate 25% of the system will require replacement.	\$657,269
173	2032	Penrose Carnegie Library	07_Electrical	Main Service - Panelboards, Feeders, & Lighting Renewal	Auto generated renewal for Main Service - Panelboards, Feeders, & Lighting. System Description: Switchboard, switchgear, main distribution panel, distribution panels, feeders, junction boxes, disconnects, motor control centers, conduit, and appurtenances. Lighting devices of all types, emergency lighting (battery pack), exit signs, feeders, conduit, switches, junction boxes, covers, lighting panels, controls, and appurtenances. Excludes emergency generator, automatic transfer switches, and fire alarm control panel. The incoming power for the Penrose Library is delivered by MDP in Antlers Façade from a 1,000 amp circuit breaker marked 'Penrose Library'. The incoming power for the Carnegie Library is delivered by MDP in Antlers Façade from a 400 amp circuit breaker marked 'DP-2'. Estimate 25% of the system will require replacement when due.	\$678,538
174	2033	East Library	03_Architectural Interior	Interior Passenger Elevator Renewal	Auto generated renewal for Interior Passenger Elevator. System Description: Passenger and freight elevators. Includes all types and equipment. The elevator is in need of an inspection and upgrades.	\$752,128
175	2033	Calhan Library	02_Architectural Exterior	Investigate EIFS @ Grade	The exterior insulation finishing system (EIFS) extend down to grade and are not to code. there should be at least 6 inches of space between the bottom of the EIFS and the ground. Though it may be aesthetically pleasing, the EIFS absorbs the ground water and will act as a wick letting water seep in behind to the studs, vapor barrier and eventually the interior gypsum board. it is recommended that the ground be pulled back away from the exterior wall and the EIFS be fixed to meet code. A licensed professional should investigate further.	\$13,770
176	2033	High Prairie	05_Plumbing	Instantaneous Water Heater (IWH-1) Renewal	Auto generated renewal for Instantaneous Water Heater (IWH-1). System Description: The domestic hot water at the kitchenette is provided by a point of use electric water heater.	\$1,314
177	2033	High Prairie	04_Mechanical	Unit Heaters - Electric (WHR-1,2) Renewal	Auto generated renewal for Unit Heaters - Electric (WHR-1,2). System Description: Heating is provided by electric unit heaters.	\$2,013

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
178	2033	Ute Pass Library	07_Electrical	Electrical - Fire Alarm, Alarm, Internet Renewal	Auto generated renewal for Electrical - Fire Alarm, Alarm, Internet. System Description: Fire alarm control panel, alarm system, cameras, internet wiring. Estimate 25% of the system will require replacement.	\$3,508
179	2033	Palmer Lake Library	03_Architectural Interior	Interior Finishes - Walls Renewal	Auto generated renewal for Interior Finishes - Walls. System Description: Interior wall finishes includes all finish types; block, brick, wood, gyp board, etc. Includes primer, sealers, and two coats of paint, stain, or sealer. Excludes tape, plaster, mud, and exterior walls. Includes interior windows.	\$3,524
180	2033	High Prairie	05_Plumbing	Electric Water Heater (EWH-1) Renewal	Auto generated renewal for Electric Water Heater (EWH-1). System Description: The domestic hot water is provided by a 20-gallon commercial-grade electric water heater, with electronic controls.	\$3,618
181	2033	Calhan Library	05_Plumbing	Electric Water Heater (EWH-1) Renewal	Auto generated renewal for Electric Water Heater (EWH-1). System Description: The domestic hot water is provided by a 20-gallon commercial-grade electric water heater, with electronic controls. Includes circulation pump and expansion tank.	\$3,618
182	2033	Calhan Library	04_Mechanical	Exhaust Fans (EF-1,2,3) Renewal	Auto generated renewal for Exhaust Fans (EF-1,2,3). System Description: Inline fans, centrifugal exhauster (roof or sidewall), curb, mounting, backdraft damper, bird screen, and accessories. Includes all types of fans, excludes ductwork. EF-1 is an inline exhaust fan controlled by a relay connected to a programmable thermostat. EF-2 is a ceiling mounted exhaust fan controlled by a local thermostat. EF-3 is a ceiling mounted fan controlled by manual starter with pilot light furnished and installed in kitchen area.	\$3,923
183	2033	Sand Creek Library	03_Architectural Interior	Interior - Stairs Renewal	Auto generated renewal for Interior - Stairs. System Description: Stairs of all construction and types. Includes railings, treads, base, stringers, finishes etc. System replacement due based on age, no issues observed nor reported.	\$3,982
184	2033	High Prairie	04_Mechanical	Split System (FCU-1/CU-1) Renewal	Auto generated renewal for Split System (FCU-1/CU-1). System Description: Split system, fan coil unit with Dx cooling. No heat. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork.	\$4,217
185	2033	Ute Pass Library	05_Plumbing	Plumbing Fixtures & DWV (All) Renewal	Auto generated renewal for Plumbing Fixtures & DWV (All). System Description: Plumbing fixtures include all interior/exterior fixtures; lavatories, sinks, urinals, water closets, hose bibs, backflow devices, and water coolers. Includes fixtures, trim, and DWV piping. Excludes water heaters, piping, insulation, pumps, DHW, DCW. All restrooms were found to be ADA compliant. Estimate 25% of the system will require replacement.	\$4,517
186	2033	Ute Pass Library	03_Architectural Interior	Interior Finishes - Walls Renewal	Auto generated renewal for Interior Finishes - Walls. System Description: Interior wall finishes includes all finish types; block, brick, wood, gyp board, etc. Includes primer, sealers, and two coats of paint, stain, or sealer. Excludes tape, plaster, mud, and exterior walls.	\$4,705
187	2033	Fountain Library	03_Architectural Interior	Interior Finishes - Walls Renewal	Auto generated renewal for Interior Finishes - Walls. System Description: Interior wall finishes include all finish types: block, brick, wood, gyp board, etc. Includes primer, sealers, and two coats of paint, stain, or sealer. Excludes tape, plaster, mud, and exterior walls. Wall finishes are generally in good shape but did observe minor paint scuffing in a few locations. Wall finishes were generally in good condition with some areas showing age and scuffing. Recommend a refresh of wall finishes in select areas. Adjusted Percent Renew to 30%.	\$5,031
188	2033	Ute Pass Library	02_Architectural Exterior	Exterior Doors Renewal	Auto generated renewal for Exterior Doors. System Description: Exterior doors includes all door types. Includes metal/wood solid/hollow core, sliding, and roll-up doors. Includes single, double, glass doors. Includes all finishes, hardware, and appurtenances. Includes surface finishes primer, two coats of paint or stain. Excludes interior doors.	\$5,063

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
189	2033	Calhan Library	03_Architectural Interior	Interior Wall Finishes Renewal	Auto generated renewal for Interior Wall Finishes. System Description: Interior wall finishes include all finish types, block, brick, wood, gyp board, etc. Includes primer, sealers, and two coats of paint, stain, or sealer. Excludes tape, plaster, mud, and exterior walls.	\$5,292
190	2033	Library 21C	04_Mechanical	Split System Renewal	Auto generated renewal for Split System. System Description: Split system, fan coil unit with Dx cooling. No heat. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork.	\$5,723
191	2033	Cheyenne Mountain Library	05_Plumbing	Domestic Water Distribution Renewal	Auto generated renewal for Domestic Water Distribution. System Description: Includes all domestic water distribution DHW, DCW, piping, insulation, domestic hot water heater, flue, vent, local controls, and recirculation pump. Excludes fixtures, DWV piping, and other appurtenances. Estimate 25% of the system will require replacement.	\$6,675
192	2033	Ruth Holley Library	05_Plumbing	Domestic Water Distribution Renewal	Auto generated renewal for Domestic Water Distribution. System Description: Includes all domestic water distribution DHW, DCW, piping, insulation, etc. Excludes fixtures, DWV piping, and appurtenances. Estimate 25% of the system will require replacement.	\$7,721
193	2033	High Prairie	07_Electrical	Electrical - Fire Alarm, Alarm, Internet Renewal	Auto generated renewal for Electrical - Fire Alarm, Alarm, Internet. System Description: Fire alarm control panel, alarm system, cameras, internet wiring. Estimate 25% of the system will require replacement.	\$9,267
194	2033	Old Colorado City	05_Plumbing	Plumbing Fixtures & DWV (All) Renewal	Auto generated renewal for Plumbing Fixtures & DWV (All). System Description: Plumbing fixtures include all interior/exterior fixtures, lavatories, sinks, urinals, water closets, hose bibs, backflow devices, sump pump and water coolers. Includes fixtures, trim, and DWV piping. Excludes water heaters, piping, insulation, pumps, DHW, DCW. Estimate 25% of the system will require replacement.	\$10,125
195	2033	Old Colorado City	03_Architectural Interior	Interior Finishes - Walls Renewal	Auto generated renewal for Interior Finishes - Walls. System Description: Interior wall finishes includes all finish types; block, brick, wood, gyp board, etc. Includes primer, sealers, and two coats of paint, stain, or sealer. Excludes tape, plaster, mud, and exterior walls.	\$10,383
196	2033	Calhan Library	04_Mechanical	Furnace - Gas Heat/dX Cooling (F-1/CU-1) Renewal	Auto generated renewal for Furnace - Gas Heat/dX Cooling (F-1/CU-1). System Description: Furnace with natural gas heat/ electric dx cooling, includes furnace evaporator condensation unit and refrigerant piping. Excludes ductwork & natural gas piping.	\$10,794
197	2033	Calhan Library	04_Mechanical	Furnace - Gas Heat/dX Cooling (F-2/CU-2) Renewal	Auto generated renewal for Furnace - Gas Heat/dX Cooling (F-2/CU-2). System Description: Furnace with natural gas heat/ electric dx cooling, includes furnace evaporator condensation unit and refrigerant piping. Excludes ductwork & natural gas piping.	\$10,794
198	2033	Old Colorado City	04_Mechanical	Furnace - Gas Heat/dX Cooling (F-3/CU-3) Renewal	Auto generated renewal for Furnace - Gas Heat/dX Cooling (F-3/CU-3). System Description: Furnace with natural gas heat/ electric dx cooling, includes furnace evaporator condensation unit and refrigerant piping. Excludes ductwork & natural gas piping.	\$10,794
199	2033	Old Colorado City	04_Mechanical	Split System Cooling only Unit Renewal	Auto generated renewal for Split System Cooling only Unit. System Description: The HVAC system includes a ductless air source heat pump, with supplemental electric heat.	\$11,310
200	2033	Monument Library	07_Electrical	Electrical - Fire Alarm, Alarm, Internet Renewal	Auto generated renewal for Electrical - Fire Alarm, Alarm, Internet. System Description: Fire alarm control panel, alarm system, cameras, internet wiring. No Fire alarm control panel found within the space. Recommend following up with landlord for location. System should be located within the building. Estimate 25% of the system will require replacement.	\$11,361
201	2033	High Prairie	03_Architectural Interior	Interior Finishes - Walls Renewal	Auto generated renewal for Interior Finishes - Walls. System Description: Interior wall finishes includes all finish types; block, brick, wood, gyp board, etc. Includes primer, sealers, and two coats of paint, stain, or sealer. Excludes tape, plaster, mud, and exterior walls. Full interior wall paint in 2018.	\$12,437

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
202	2033	Fountain Library	04_Mechanical	Exhaust Fans (EF-All Fans) Renewal	Auto generated renewal for Exhaust Fans (EF-All Fans). System Description: Roof mounted centrifugal exhaust fan, curb, mounting, backdraft damper, bird screen, and accessories. Excludes ductwork. EF-1 1/2hp 115v 800 cfm EF-2 1/4hp 115v 200 cfm. Both exhaust fans run continuously and serve restrooms.	\$12,771
203	2033	Rockrimmon Library	07_Electrical	Electrical - Fire Alarm, Alarm, Internet Renewal	Auto generated renewal for Electrical - Fire Alarm, Alarm, Internet. System Description: Cameras and internet wiring. There is no fire alarm panel. Estimate 25% of the system will require replacement.	\$12,872
204	2033	Cheyenne Mountain Library	07_Electrical	Electrical - Fire Alarm, Alarm, Internet Renewal	Auto generated renewal for Electrical - Fire Alarm, Alarm, Internet. System Description: Fire alarm control panel, alarm system, cameras, internet wiring. Fire alarm is working without issues currently. Security and cameras were newer. Estimate 25% of the system will require replacement.	\$13,172
205	2033	Fountain Library	07_Electrical	Electrical - Fire Alarm, Alarm, Internet Renewal	Auto generated renewal for Electrical - Fire Alarm, Alarm, Internet. System Description: Fire alarm control panel, alarm system, cameras, internet wiring. The Fire alarm control panel/equipment is to the left of the Electrical Panels. In discussions with maintenance staff, the fire alarm system is working, with no known deficiencies. Estimate 25% of the system will require replacement.	\$14,062
206	2033	Fountain Library	05_Plumbing	Water Heater Renewal	Auto generated renewal for Water Heater. System Description: Domestic hot water heaters. 20-gallon, 4500-watt electric, mounted above restroom ceilings. Includes (2) 2-gallon expansion tanks. System replacement due based on age, no issues observed nor reported.	\$14,474
207	2033	Ruth Holley Library	07_Electrical	Electrical - Fire Alarm, Alarm, Internet Renewal	Auto generated renewal for Electrical - Fire Alarm, Alarm, Internet. System Description: Fire alarm control panel, alarm system, cameras, internet wiring. Estimate 25% of the system will require replacement.	\$15,154
208	2033	Antlers Garage Facade	03_Architectural Interior	Interior Finishes - Flooring Renewal	Auto generated renewal for Interior Finishes - Flooring. System Description: Interior floor finishes include all floor types; vinyl, tile, wood, carpet, concrete, etc. Includes grout, cove base, sealer, and other finishes. Excludes exterior surfaces. The antler's facade has concrete floors that are finished smooth. Floors are in good condition and the areas are used for storage.	\$15,778
209	2034	The Hall (KoC)	04_Mechanical	Exhaust Fans (EF-All Fans) Renewal	Auto generated renewal for Exhaust Fans (EF-All Fans). System Description: Inline fans, centrifugal exhauster (roof or sidewall), curb, mounting, backdraft damper, bird screen, and accessories. Includes all types of fans, excludes ductwork. QTY(1) 6" inline men's bathroom exhaust is controlled by light occupancy sensor relay. Exhaust fan terminates on south exterior wall. QTY(1) Exhaust fan on Roof. System replacement due based on age, no issues observed nor reported.	\$15,978
210	2034	Monument Library	02_Architectural Exterior	Exterior Doors Renewal	Auto generated renewal for Exterior Doors. System Description: Exterior doors includes all door types. Includes metal/wood solid/hollow core, sliding, and roll-up doors. Includes single, double, glass doors. Includes all finishes, hardware, and appurtenances. Includes surface finishes primer, two coats of paint or stain. Excludes interior doors. Doors are single pane and in fair condition, the hardware is or will become obsolete. Recommend replacing with the windows, or at a minimum replacing the obsolete hardware. The hardware is outdated and in need of an upgrade. It is recommended that the door security hardware and locking mechanisms be replaced on the six exterior doors. (6 total @ \$2,000 Ea.)	\$16,447
211	2034	Palmer Lake Library	03_Architectural Interior	Interior - Walls Renewal	Auto generated renewal for Interior - Walls. System Description: Interior walls include all wall types. Includes metal/wood stud walls, block, brick, insulation, and appurtenances. Includes studs, gypsum board, tape, mud, mortar, etc. Excludes primer, paint, and exterior walls.	\$16,578

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
212	2034	Monument Library	03_Architectural Interior	Interior Finishes - Ceilings Renewal	Auto generated renewal for Interior Finishes - Ceilings. System Description: Interior ceilings include all types and finishes. Includes hangers, grid, acoustical tile, and unfinished painted areas. Excludes studs (metal/wood), gypsum board, tape, mud, mortar, etc. Includes primer, two coats of paint, and stain where applicable. Excludes HVAC, Fire, and Electrical. The wood ceilings are in need of refinishing. There is evidence of prior roof leaks that have stained large areas of the wood ceiling. Only two ACT tiles were noted as being damaged. Both are in the Server Room / Storage where the wires go up and across the drop ceiling. The grid is also slightly misaligned. Recommended the wood ceiling be refinished in order to preserve the wood and recommended the grid and tiles be repaired and replaced.	\$16,685
213	2034	Rockrimmon Library	03_Architectural Interior	Interior Finishes - Walls Renewal	Auto generated renewal for Interior Finishes - Walls. System Description: Interior wall finishes includes all finish types; block, brick, wood, gyp board, etc. Includes primer, sealers, and two coats of paint, stain, or sealer. Excludes tape, plaster, mud, and exterior walls. Includes interior windows.	\$17,260
214	2034	Penrose Carnegie Library	04_Mechanical	Heating Hot Water Pumps (HHWP-12,13) Renewal	Auto generated renewal for Heating Hot Water Pumps (HHWP-12,13). System Description: Inline 1.25" cast iron Grundfos 3 speed Eco-circ pumps serving baseboard perimeter heat in Penrose library. Pumps have brass ball valves for isolation with swing check and soldered copper tubing with companion flange pump connection. System replacement due based on age, no issues observed nor reported.	\$17,440
215	2034	Library 21C	05_Plumbing	Replace Water Coolers	The water coolers on the lower level, in the employee only areas, are outdated. it is recommended that newer water coolers are installed with bottle fillers.	\$17,850
216	2034	Monument Library	04_Mechanical	Rooftop Unit - RTU #3 Renewal	Auto generated renewal for Rooftop Unit - RTU #3. System Description: Packaged rooftop unit with electric dX cooling and gas heating. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork.	\$18,130
217	2034	Library 21C	04_Mechanical	Rooftop Unit - RTU-1 Renewal	Auto generated renewal for Rooftop Unit - RTU-1. System Description: Packaged rooftop unit with electric dX cooling and gas heating. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork.	\$18,130
218	2034	Library 21C	04_Mechanical	Rooftop Unit - RTU-2 Renewal	Auto generated renewal for Rooftop Unit - RTU-2. System Description: Packaged rooftop unit with electric dX cooling and gas heating. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork.	\$18,130
219	2034	Penrose Carnegie Library	04_Mechanical	Rooftop Unit (AHU-2) Renewal	Auto generated renewal for Rooftop Unit (AHU-2). System Description: Packaged rooftop unit with chilled water cooling and hot water heating. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork. System replacement due based on age, no issues observed nor reported.	\$18,130
220	2034	Sand Creek Library	03_Architectural Interior	Interior Finishes - Flooring Renewal	Auto generated renewal for Interior Finishes - Flooring. System Description: Interior floor finishes include all floor types: tile, vinyl, laminate, carpet, concrete, etc. Includes grout, cove base, sealer, and other finishes. Excludes exterior surfaces. Interior floor finishes are in overall good condition, the restroom tile and sections of the carpet are new due to having to be removed for a sanitary sewer line replacement project. Most of the flooring finishes are near expected lifetime but are in good condition. There is damaged tile and wrinkled flooring in need of replacement. Recommend replacing damaged sections of floor finishes. Estimate 15% of floor finishes in this building need to be replaced, Percent Renew adjusted.	\$18,728
221	2034	Palmer Lake Library	03_Architectural Interior	Interior Finishes - Flooring Renewal	Auto generated renewal for Interior Finishes - Flooring. System Description: Interior floor finishes include all floor types; tile, vinyl, laminate, wood, carpet, concrete, etc. Includes grout, cove base, sealer, and other finishes. Excludes exterior surfaces.	\$18,841

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
222	2034	Old Colorado City	04_Mechanical	Furnace - Gas Heat/dX Cooling (F-2/CU-2) Renewal	Auto generated renewal for Furnace - Gas Heat/dX Cooling (F-2/CU-2). System Description: Furnace with natural gas heat/ electric dx cooling, includes furnace evaporator condensation unit and refrigerant piping. Excludes ductwork & natural gas piping.	\$18,889
223	2034	Cheyenne Mountain Library	02_Architectural Exterior	Exterior Doors Renewal	Auto generated renewal for Exterior Doors. System Description: Exterior doors includes all door types. Includes metal/wood solid/hollow core, sliding, and roll-up doors. Includes single, double, glass doors. Includes all finishes, hardware, and appurtenances. Includes surface finishes primer, two coats of paint or stain. Excludes interior doors.	\$19,124
224	2034	The Hall (KoC)	03_Architectural Interior	Interior Finishes - Walls Renewal	Auto generated renewal for Interior Finishes - Walls. System Description: Interior wall finishes includes all finish types; block, brick, wood, gyp board, etc. Includes primer, sealers, and two coats of paint, stain, or sealer. Excludes tape, plaster, mud, and exterior walls. System replacement due based on age, no issues observed nor reported.	\$19,286
225	2034	Ruth Holley Library	05_Plumbing	Plumbing Fixtures & DWV (All) Renewal	Auto generated renewal for Plumbing Fixtures & DWV (All). System Description: Plumbing fixtures include all interior/exterior fixtures; lavatories, sinks, urinals, water closets, hose bibs, backflow devices, and water coolers. Includes fixtures, trim, and DWV piping. Excludes water heaters, piping, insulation, pumps, DHW, DCW. Estimate 25% of the system will require replacement.	\$19,525
226	2034	East Library	04_Mechanical	Hydronic Unit Heaters - (CH-1,2 UH-1,2,3,4) Renewal	Auto generated renewal for Hydronic Unit Heaters - (CH-1,2 UH-1,2,3,4). System Description: Hydronic unit heaters cabinet style and unit heaters. Various sizes, includes cabinet, fan, hot water coil, thermostat, valves and controls.	\$19,792
227	2034	Ruth Holley Library	03_Architectural Interior	Interior Finishes - Walls Renewal	Auto generated renewal for Interior Finishes - Walls. System Description: Interior wall finishes includes all finish types; block, brick, wood, gyp board, etc. Includes primer, sealers, and two coats of paint, stain, or sealer. Excludes tape, plaster, mud, and exterior walls. 2019 - Full interior paint and 2020 classroom addition.	\$20,375
228	2034	Sand Creek Library	04_Mechanical	Unit Heaters (UH-1,2 CUH-1) Renewal	Auto generated renewal for Unit Heaters (UH-1,2 CUH-1). System Description: Additional heating is provided by electric wall recessed unit heaters in the water entry closet and adjacent to the rear exterior exit door. (UH-1,2) The Lobby is heated with a recessed ceiling mounted cabinet unit heater (CUH-1). UH-1,2 Raywall E3055TDWB. 1.5kW, Integral Thermostat. CUH-1 Trane FFCB030, 4.5 kW, Wall Mounted Thermostat. System replacement due based on age, no issues observed nor reported.	\$20,409
229	2034	East Library	04_Mechanical	Computer Room Cooling - Dx - (CRAC-2/CU-2) Renewal	Auto generated renewal for Computer Room Cooling - Dx - (CRAC-2/CU-2). System Description: Computer room cooling unit with an air cooled remote condenser. Unit serves IT room, Lieberman unit with condensing unit at grade level on building exterior.	\$21,899
230	2034	Ruth Holley Library	02_Architectural Exterior	Exterior Doors Renewal	Auto generated renewal for Exterior Doors. System Description: Exterior doors includes all door types. Includes metal/wood solid/hollow core, sliding, and roll-up doors. Includes single, double, glass doors. Includes all finishes, hardware, and appurtenances. Includes surface finishes primer, two coats of paint or stain. Excludes interior doors.	\$22,024
231	2034	Palmer Lake Library	02_Architectural Exterior	Exterior Windows Renewal	Auto generated renewal for Exterior Windows. System Description: Exterior windows, includes all window types, frames, glass, etc. Excludes walls. All of the exterior windows are wooden and showing signs of age and various deterioration. It is recommended that the replacement of the exterior windows be recommended to the city.	\$22,294
232	2034	Ute Pass Library	03_Architectural Interior	Interior - Doors Renewal	Auto generated renewal for Interior - Doors. System Description: Interior doors include all door types. Includes metal/wood solid/hollow core, sliding, and roll-up doors. Includes single, double, glass doors. Includes all finishes, hardware, and appurtenances. Includes surface finishes primer, two coats of paint or stain. Excludes exterior doors.	\$23,597

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
233	2034	Ute Pass Library	03_Architectural Interior	Interior Finishes - Flooring Renewal	Auto generated renewal for Interior Finishes - Flooring. System Description: Interior floor finishes include all floor types; tile, vinyl, laminate, wood, carpet, concrete, etc. Includes grout, cove base, sealer, and other finishes. Excludes exterior surfaces.	\$25,150
234	2034	Penrose Carnegie Library	04_Mechanical	Air Handling Unit (AHU-3) Renewal	Auto generated renewal for Air Handling Unit (AHU-3). System Description: Packaged air handling unit, blow-thru with CHW cooling and HHW heating. Includes unitary controls. Starter controls one speed fan. Excludes ductwork.	\$25,198
235	2034	Penrose Carnegie Library	04_Mechanical	Air Handling Unit (AHU-6) Renewal	Auto generated renewal for Air Handling Unit (AHU-6). System Description: Blower Coil Air Handler Single Zone with starter and Hot water heating and chilled water cooling. PVC condensate drain. Mixing box is separated. Steel frame mounted.	\$25,198
236	2034	Penrose Carnegie Library	04_Mechanical	Air Handling Unit (AHU-7) Renewal	Auto generated renewal for Air Handling Unit (AHU-7). System Description: Blower Coil Air Handler Single Zone with starter and Hot water heating and chilled water cooling. PVC condensate drain. Mixing box is separated. Steel frame mounted.	\$25,198
237	2034	Penrose Carnegie Library	04_Mechanical	Air Handling Unit (AHU-8) Renewal	Auto generated renewal for Air Handling Unit (AHU-8). System Description: Blower Coil Air Handler Single Zone with starter and Hot water heating and chilled water cooling. PVC condensate drain. Mixing box is separated. Steel frame mounted.	\$25,198
238	2034	Penrose Carnegie Library	04_Mechanical	Air Handling Unit (AHU-10) Renewal	Auto generated renewal for Air Handling Unit (AHU-10). System Description: Blower Coil Air Handler Single Zone with starter and Hot water heating and chilled water cooling. PVC condensate drain. Mixing box is separated. Steel frame mounted.	\$25,198
239	2034	Penrose Carnegie Library	04_Mechanical	Air Handling Unit (AHU-12) Renewal	Auto generated renewal for Air Handling Unit (AHU-12). System Description: Blower Coil Air Handler Single Zone with starter and Hot water heating and chilled water cooling. PVC condensate drain. Mixing box is separated. Steel frame mounted.	\$25,198
240	2034	Penrose Carnegie Library	04_Mechanical	Air Handling Unit (AHU-13) Renewal	Auto generated renewal for Air Handling Unit (AHU-13). System Description: Fan coil unit single zone with starter and Hot water heating and chilled water cooling. PVC condensate drain. Mixing box is separated. Ceiling Mounted behind access panel.	\$25,198
241	2034	Sand Creek Library	03_Architectural Interior	Interior Finishes - Walls Renewal	Auto generated renewal for Interior Finishes - Walls. System Description: Interior wall finishes includes all finish types; block, brick, wood, gyp board, etc. Includes primer, sealers, and two coats of paint, stain, or sealer. Excludes tape, plaster, mud, and exterior walls. Interior wall finishes are in fair condition, paint scuffing was observed, and the painted surfaces are well past their expected lifetime. Recommend refinishing interior wall surfaces.	\$26,257
242	2034	Old Colorado City	04_Mechanical	Furnace - Gas Heat/dX Cooling (F-1/CU-1) Renewal	Auto generated renewal for Furnace - Gas Heat/dX Cooling (F-1/CU-1). System Description: Furnace with natural gas heat/ electric dx cooling, includes furnace evaporator condensation unit and refrigerant piping. Excludes ductwork & natural gas piping.Recommend replacement based on lifecycle (age), no issues were reported nor observed.	\$26,984
243	2034	The Hall (KoC)	04_Mechanical	Air Handling Unit (AHU-1) Renewal	Auto generated renewal for Air Handling Unit (AHU-1). System Description: Blower coil with heating hot water coil, chilled water coil, with package controls. Heating hot water has a three way valve, chilled water with a two-way valve controlled from the package controller. Honeywell damper actuators also controlled by the package control.	\$27,684
244	2034	Calhan Library	03_Architectural Interior	Interior Floor Finishes Renewal	Auto generated renewal for Interior Floor Finishes. System Description: Interior floor finishes include all floor types; tile, vinyl, laminate, wood, carpet, concrete, etc. Includes grout, cove base, sealer, and other finishes. Excludes exterior surfaces. Floor finishes are a combination of nylon carpet, laminate and vinyl.	\$28,269
245	2034	Library 21C	03_Architectural Interior	Interior Stairs Renewal	Auto generated renewal for Interior Stairs. System Description: Stairs of all construction and types. Includes railings, treads, base, stringers, finishes etc. . 3 public stairs .. originals .. paint, and bottom routed-square wood renovated in 2013. . 2 staff stairs	\$28,304

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
246	2034	Ute Pass Library	02_Architectural Exterior	Exterior Windows Renewal	Auto generated renewal for Exterior Windows. System Description: Exterior windows, includes all window types, frames, glass, etc. Excludes walls.	\$29,711
247	2034	Sand Creek Library	04_Mechanical	Rooftop Unit (RTU-1) Renewal	Auto generated renewal for Rooftop Unit (RTU-1). System Description: Packaged rooftop unit with Dx cooling and gas heating. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork. Trane YHC036E 3 Ton, 208-203/60/3. System replacement due based on age, no issues observed nor reported.	\$31,727
248	2034	Sand Creek Library	04_Mechanical	Rooftop Unit (RTU-3) Renewal	Auto generated renewal for Rooftop Unit (RTU-3). System Description: Packaged rooftop unit with Dx cooling and gas heating. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork. Trane, RTU information sticker is missing. System replacement due based on age, no issues observed nor reported.	\$31,727
249	2034	Sand Creek Library	04_Mechanical	Rooftop Unit (RTU-6) Renewal	Auto generated renewal for Rooftop Unit (RTU-6). System Description: Packaged rooftop unit with Dx cooling and gas heating. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork. Trane YHC036E 3 Ton, 208-203/60/3. System replacement due based on age, no issues observed nor reported.	\$31,727
250	2034	Sand Creek Library	04_Mechanical	Rooftop Unit (RTU-5) Renewal	Auto generated renewal for Rooftop Unit (RTU-5). System Description: Packaged rooftop unit with Dx cooling and gas heating. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork. Carrier 48TJE008-521QE, 7.5 ton, 208-230/3/60. System replacement due based on age, no issues observed nor reported.	\$31,727
251	2034	Sand Creek Library	04_Mechanical	Rooftop Unit (RTU-4) Renewal	Auto generated renewal for Rooftop Unit (RTU-4). System Description: Packaged rooftop unit with Dx cooling and gas heating. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork. Trane YHC036E 3 Ton, 208-203/60/3. System replacement due based on age, no issues observed nor reported.	\$31,727
252	2034	Fountain Library	04_Mechanical	Rooftop Unit (RTU-2) Renewal	Auto generated renewal for Rooftop Unit (RTU-2). System Description: Packaged rooftop unit with Dx cooling and gas heating. Includes controls, curb, economizer, filters, etc. Excludes ductwork. Trane #YHC060, 5 Ton, 125,000 BTUH, 2000 CFM, 1.5HP 208v/3ph 30.3 MCA, 35% Outside Air, Programmable Thermostat	\$31,727
Unassigned	Unassigned	Palmer Lake Library	03_Architectural Interior	Interior Finishes - Ceilings Renewal	Auto generated renewal for Interior Finishes - Ceilings. System Description: Interior ceilings include all types and finishes. Includes hangers, grid, acoustical tile, and unfinished painted areas. Excludes studs (metal/wood), gypsum board, tape, mud, mortar, etc. Includes primer, two coats of paint, and stain where applicable.	\$43,472
Unassigned	Unassigned	Monument Library	04_Mechanical	HVAC System & Appurtenances Renewal	Auto generated renewal for HVAC System & Appurtenances. System Description: HVAC System includes equipment, ductwork, insulation, fittings, hangers, dampers, diffusers, thermostats controls. Natural gas piping, exhaust fans, louvers, intake/relief hoods.	\$98,213
Unassigned	Unassigned	Library 21C	02_Architectural Exterior	Exterior Windows Renewal	Auto generated renewal for Exterior Windows. System Description: Exterior windows, includes all window types, frames, glass, etc. Excludes walls.	\$1,184,378
Unassigned	Unassigned	Library 21C	02_Architectural Exterior	Exterior Doors Renewal	Auto generated renewal for Exterior Doors. System Description: Exterior doors includes all door types. Includes metal/wood solid/hollow core, sliding, and roll-up doors. Includes single, double, glass doors. Includes all finishes, hardware, and appurtenances. Includes surface finishes primer, two coats of paint or stain. Excludes interior doors.	\$201,927
Unassigned	Unassigned	Library 21C	07_Electrical	Electrical - Fire Alarm, Alarm, Internet Renewal	Auto generated renewal for Electrical - Fire Alarm, Alarm, Internet. System Description: Fire alarm control panel, alarm system, cameras, internet wiring. Estimate 25% of the system will require replacement.	\$139,795
Unassigned	Unassigned	Monument Library	03_Architectural Interior	Interior Finishes - Flooring Renewal	Auto generated renewal for Interior Finishes - Flooring. System Description: Interior floor finishes include all floor types; tile, vinyl, laminate, wood, carpet, concrete, etc. Includes grout, cove base, sealer, and other finishes. Excludes exterior surfaces.	\$81,389

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
Unassigned	Unassigned	Monument Library	05_Plumbing	Plumbing Fixtures - All Renewal	Auto generated renewal for Plumbing Fixtures - All. System Description: Plumbing fixtures include all interior fixtures; lavatories, sinks, urinals, water closets, and water coolers, fixtures and trim. Excludes hot water heater, piping, pumps, DHW, DCW, and DWV.	\$65,705
Unassigned	Unassigned	Library 21C	03_Architectural Interior	Interior Finishes - Walls Renewal	Auto generated renewal for Interior Finishes - Walls. System Description: Interior wall finishes includes all finish types; block, brick, wood, gyp board, etc. Includes primer, sealers, and two coats of paint, stain, or sealer. Excludes tape, plaster, mud, and exterior walls. Included in 2013 Remodel.	\$187,688
Unassigned	Unassigned	Library 21C	03_Architectural Interior	Interior Finishes - Flooring Renewal	Auto generated renewal for Interior Finishes - Flooring. System Description: Interior floor finishes include all floor types; tile, vinyl, laminate, wood, carpet, concrete, etc. Includes grout, cove base, sealer, and other finishes. Excludes exterior surfaces. Included in 2013 Remodel.	\$1,001,868
Unassigned	Unassigned	Rockrimmon Library	03_Architectural Interior	Interior Finishes - Flooring Renewal	Auto generated renewal for Interior Finishes - Flooring. System Description: Interior floor finishes include all floor types; tile, vinyl, laminate, wood, carpet, concrete, etc. Includes grout, cove base, sealer, and other finishes. Excludes exterior surfaces. Carpet was replaced in 2019.	\$92,249
Unassigned	Unassigned	Ruth Holley Library	03_Architectural Interior	Interior - Doors Renewal	Auto generated renewal for Interior - Doors. System Description: Interior doors include all door types. Includes metal/wood solid/hollow core, sliding, and roll-up doors. Includes single, double, glass doors. Includes all finishes, hardware, and appurtenances. Includes surface finishes primer, two coats of paint or stain. Excludes exterior doors.	\$102,230
Unassigned	Unassigned	Ruth Holley Library	03_Architectural Interior	Interior Finishes - Flooring Renewal	Auto generated renewal for Interior Finishes - Flooring. System Description: Interior floor finishes include all floor types; tile, vinyl, laminate, wood, carpet, concrete, etc. Includes grout, cove base, sealer, and other finishes. Excludes exterior surfaces. 2015 - Carpet replacement. 2019 - meeting room carpet replacement. 2020 - addition of classroom and new entry tile.	\$108,825
Unassigned	Unassigned	Ruth Holley Library	03_Architectural Interior	Interior Finishes - Ceilings Renewal	Auto generated renewal for Interior Finishes - Ceilings. System Description: Interior ceilings include all types and finishes. Includes hangers, grid, acoustical tile, and unfinished painted areas. Excludes studs (metal/wood), gypsum board, tape, mud, mortar, etc. Includes primer, two coats of paint, and stain where applicable. Excludes HVAC, Fire, and Electrical.	\$250,981
Unassigned	Unassigned	Ute Pass Library	03_Architectural Interior	Interior Finishes - Ceilings Renewal	Auto generated renewal for Interior Finishes - Ceilings. System Description: Interior ceilings include all types and finishes. Includes hangers, grid, acoustical tile, and unfinished painted areas. Excludes studs (metal/wood), gypsum board, tape, mud, mortar, etc. Includes primer, two coats of paint, and stain where applicable. Excludes HVAC, Fire, and Electrical.	\$58,014
Unassigned	Unassigned	Rockrimmon Library	07_Electrical	Main Service - Switchgear, Panelboards & Feeders Renewal	Auto generated renewal for Main Service - Switchgear, Panelboards & Feeders. System Description: Switchboard, switchgear, main distribution panel, distribution panels, feeders, junction boxes, disconnects, motor control centers, conduit, and appurtenances. Lighting devices of all types, emergency lighting (generator and battery pack), exit signs, emergency lighting, feeders, conduit, switches, junction boxes, covers, lighting panels, controls, and appurtenances. Excludes emergency generator, automatic transfer switches, and fire alarm control panel. This leased facility has 3 Main Lug Panels, various light fixtures (recessed, Various - T8 troffer's and various incandescent), exit signs, various updated outlets, switches and emergency lighting. Estimate 25% of the system will require replacement.	\$90,797

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
Unassigned	Unassigned	Library 21C	04_Mechanical	Remove Exhaust Fans	Most of the exhaust fans on the roof are not only beyond their service life, but are no longer in service. Base on conversations with the client, it is not clear which ones are still in operation. At the time of the assessment, exhaust fans with an install date of 1985, EF-5C, EF8, EF-9, EF-3D, EF11, and EF-12 were found to be running. That is not to say that others were not on-line. It is recommended that the original exhaust fans be investigated and determine which ones are a functioning part of the facility. Those that are no longer in service or needed for the daily function of the facility should be removed and capped at the curb. A licensed engineer should evaluate this system and controls. Auto generated renewal for Exhaust Fans (EF-All Fans). System Description: Inline fans, centrifugal exhauster (roof or sidewall), curb, mounting, backdraft damper, bird screen, and accessories. Includes all types of fans, excludes ductwork. 35 Exhaust Fans starting with Unit Number EF-1A-EF15 have an install date of 1985. All need to be investigated further to determine if still in use and required. 8 Exhaust Fans starting with Unit Number EF-15-EF-24 have an install date of 2013. The latter eight exhaust fans were found to be in good condition.	\$35,700
Unassigned	Unassigned	Library 21C	04_Mechanical	Remove Split System	The existing, Split System, Trane Model No. TTA036A400A0, is abandoned in place. It is recommended that the system be removed in it's entirety, including electrical conductors, conduits, and breakers. Recommend capping curb weathertight.	\$3,570
Unassigned	Unassigned	Monument Library	02_Architectural Exterior	Exterior Windows Renewal	Auto generated renewal for Exterior Windows. System Description: Exterior windows, includes all window types, frames, glass, etc. Excludes walls. Exterior windows are single pane non-tinted and are due for replacement based on age.	\$96,225
Unassigned	Unassigned	Calhan Library	04_Mechanical	HVAC System & Appurtenances Renewal	Auto generated renewal for HVAC System & Appurtenances. System Description: HVAC System includes equipment, ductwork, insulation, fittings, hangers, dampers, diffusers, thermostats controls. Natural gas piping, louvers, intake/relief hoods. Includes distribution piping for heating hot water, chilled water, condenser water and unit heaters. Includes all piping materials. Excludes Rooftop Units RTUs Air Handling Units AHUs, Boilers, Chillers, and Towers. Estimate 25% of the system will require replacement.	\$34,824
Unassigned	Unassigned	East Library	03_Architectural Interior	Interior Finishes - Walls Renewal	Auto generated renewal for Interior Finishes - Walls. System Description: Interior wall finishes includes all finish types; block, brick, wood, gyp board, etc. Includes primer, sealers, and two coats of paint, stain, or sealer. Excludes tape, plaster and mud.	\$114,437
Unassigned	Unassigned	East Library	04_Mechanical	Chiller - CH-1 Renewal	Auto generated renewal for Chiller - CH-1. System Description: Water chiller, rotary air cooled, 200 ton, includes standard controls. R134a refrigerant	\$272,041
Unassigned	Unassigned	East Library	04_Mechanical	Air Handling Unit - AHU-2 Renewal	Auto generated renewal for Air Handling Unit - AHU-2. System Description: Packaged air handling unit, horizontal draw-thru or blow-thru with CHW cooling and HHW heating. Includes unitary controls, housekeeping pad, filters, mixing box, supply fan, return fan, and variable frequency drive. Excludes ductwork. Units were constructed in place and are difficult to move-in/out of the mechanical spaces. Units are due for replacement based on age, recommend refurbishing units in place, estimate 50% of the cost to replace the units new. Recommend refurbishing cabinet, removing rust, painting, hinges, bolts, screws, sheet metal, interior lining, dampers, coils, fans, shafts, bearings, fasteners, clamps, pumps, gaskets, seals, motors, VFDs, sensors, controls, wiring, valves, control valves, filter racks, and piping connections.	\$122,944

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
Unassigned	Unassigned	East Library	04_Mechanical	Air Handling Unit - AHU-7 Renewal	Auto generated renewal for Air Handling Unit - AHU-7. System Description: Packaged air handling unit, horizontal draw-thru or blow-thru with CHW cooling and HHW heating. Includes unitary controls, housekeeping pad, filters, mixing box, supply fan, return fan, and variable frequency drive. Excludes ductwork. Units were constructed in place and are difficult to move-in/out of the mechanical spaces. Units are due for replacement based on age, recommend refurbishing units in place, estimate 50% of the cost to replace the units new. Recommend refurbishing cabinet, removing rust, painting, hinges, bolts, screws, sheet metal, interior lining, dampers, coils, fans, shafts, bearings, fasteners, clamps, pumps, gaskets, seals, motors, VFDs, sensors, controls, wiring, valves, control valves, filter racks, and piping connections.	\$59,013
Unassigned	Unassigned	East Library	04_Mechanical	Air Handling Unit - AHU-8 Renewal	Auto generated renewal for Air Handling Unit - AHU-8. System Description: Packaged air handling unit, horizontal draw-thru or blow-thru with CHW cooling and HHW heating. Includes unitary controls, housekeeping pad, filters, mixing box, supply fan, return fan, and variable frequency drive. Excludes ductwork. Units were constructed in place and are difficult to move-in/out of the mechanical spaces. Units are due for replacement based on age, recommend refurbishing units in place, estimate 50% of the cost to replace the units new. Recommend refurbishing cabinet, removing rust, painting, hinges, bolts, screws, sheet metal, interior lining, dampers, coils, fans, shafts, bearings, fasteners, clamps, pumps, gaskets, seals, motors, VFDs, sensors, controls, wiring, valves, control valves, filter racks, and piping connections.	\$59,013
Unassigned	Unassigned	East Library	04_Mechanical	Air Handling Unit - AHU-9 Renewal	Auto generated renewal for Air Handling Unit - AHU-9. System Description: Packaged air handling unit, horizontal draw-thru or blow-thru with CHW cooling and HHW heating. Includes unitary controls, housekeeping pad, filters, mixing box, supply fan, return fan, and variable frequency drive. Excludes ductwork. Units were constructed in place and are difficult to move-in/out of the mechanical spaces. Units are due for replacement based on age, recommend refurbishing units in place, estimate 50% of the cost to replace the units new. Recommend refurbishing cabinet, removing rust, painting, hinges, bolts, screws, sheet metal, interior lining, dampers, coils, fans, shafts, bearings, fasteners, clamps, pumps, gaskets, seals, motors, VFDs, sensors, controls, wiring, valves, control valves, filter racks, and piping connections.	\$39,342
Unassigned	Unassigned	East Library	04_Mechanical	Air Handling Unit - AHU-10 Renewal	Auto generated renewal for Air Handling Unit - AHU-10. System Description: Packaged air handling unit, horizontal draw-thru or blow-thru with CHW cooling and HHW heating. Includes unitary controls, housekeeping pad, filters, mixing box, supply fan, return fan, and variable frequency drive. Excludes ductwork. This unit does not have a HHW coil, nor a HHW pump. Units were constructed in place and are difficult to move-in/out of the mechanical spaces. Units are due for replacement based on age, recommend refurbishing units in place, estimate 50% of the cost to replace the units new. Recommend refurbishing cabinet, removing rust, painting, hinges, bolts, screws, sheet metal, interior lining, dampers, coils, fans, shafts, bearings, fasteners, clamps, pumps, gaskets, seals, motors, VFDs, sensors, controls, wiring, valves, control valves, filter racks, and piping connections.	\$276,625
Unassigned	Unassigned	East Library	04_Mechanical	Hot Water Baseboard Heat Renewal	Auto generated renewal for Hot Water Baseboard Heat. System Description: Hydronic heating, fin tube radiation, baseboard, packaged, copper tube, aluminum fins, valves, cabinet and controls. Excludes main supply pipe. Cabinets were generally in good condition with minor wear and tear on the surfaces, controls should be investigated (this issue is tracked under energy). Units are due for replacement based on age.	\$51,244

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
Unassigned	Unassigned	East Library	04_Mechanical	Terminal Units - VAV Boxes Renewal	Auto generated renewal for Terminal Units - VAV Boxes. System Description: The HVAC system has VAV box terminal units. Boxes are of different configurations, fan powered mixing boxes, fan powered mixing boxes with reheat coils, and pinch down (cooling only) boxes. Boxes include mixing section, damper, fan, and coils. Units have had maintenance performed by AMS to repair through the years. Recommend replacing based on age.	\$48,962
Unassigned	Unassigned	Cheyenne Mountain Library	04_Mechanical	HVAC System & Appurtenances Renewal	Auto generated renewal for HVAC System & Appurtenances. System Description: HVAC System includes equipment, ductwork, insulation, fittings, hangers, dampers, diffusers, thermostats controls. Natural gas piping, exhaust fans, louvers, intake/relief hoods. Excludes Rooftop Units RTUs. Estimate 25% of the system will require replacement.	\$125,401
Unassigned	Unassigned	Cheyenne Mountain Library	03_Architectural Interior	Interior - Walls Renewal	Auto generated renewal for Interior - Walls. System Description: Interior walls include all wall types. Includes metal/wood stud walls, block, brick, insulation, and appurtenances. Includes studs, gypsum board, tape, mud, mortar, etc. Excludes primer, paint, and exterior walls.	\$82,945
Unassigned	Unassigned	Cheyenne Mountain Library	03_Architectural Interior	Interior - Doors Renewal	Auto generated renewal for Interior - Doors. System Description: Interior doors include all door types. Includes metal/wood solid/hollow core, sliding, and roll-up doors. Includes single, double, glass doors. Includes all finishes, hardware, and appurtenances. Includes surface finishes primer, two coats of paint or stain. Excludes exterior doors.	\$88,611
Unassigned	Unassigned	Cheyenne Mountain Library	03_Architectural Interior	Interior Finishes - Flooring Renewal	Auto generated renewal for Interior Finishes - Flooring. System Description: Interior floor finishes include all floor types; tile, vinyl, laminate, wood, carpet, concrete, etc. Includes grout, cove base, sealer, and other finishes. Excludes exterior surfaces.	\$94,318
Unassigned	Unassigned	Cheyenne Mountain Library	05_Plumbing	Plumbing Fixtures - All Renewal	Auto generated renewal for Plumbing Fixtures - All. System Description: Plumbing fixtures include all interior fixtures; lavatories, sinks, urinals, water closets, and water coolers, fixtures and trim. Excludes hot water heater, piping, pumps, DHW, DCW, and DWV. Plumbing fixtures and appurtenances are found to be ADA compliant. The only thing observed was that the piping under the lavatories were not covered with an enclosure or soft pipe covers.	\$76,195
Unassigned	Unassigned	Cheyenne Mountain Library	02_Architectural Exterior	Exterior Windows Renewal	Auto generated renewal for Exterior Windows. System Description: Exterior windows, includes all window types, frames, glass, etc. Excludes walls.	\$111,539
Unassigned	Unassigned	Old Colorado City	03_Architectural Interior	Interior - Doors Renewal	Auto generated renewal for Interior - Doors. System Description: Interior doors include all door types. Includes metal/wood solid/hollow core, sliding, and roll-up doors. Includes single, double, glass doors. Includes all finishes, hardware, and appurtenances. Includes surface finishes primer, two coats of paint or stain. Excludes exterior doors.	\$51,857
Unassigned	Unassigned	Old Colorado City	03_Architectural Interior	Interior Finishes - Flooring Renewal	Auto generated renewal for Interior Finishes - Flooring. System Description: Interior floor finishes include all floor types; tile, vinyl, laminate, wood, carpet, concrete, etc. Includes grout, cove base, sealer, and other finishes. Excludes exterior surfaces.	\$55,281
Unassigned	Unassigned	Old Colorado City	04_Mechanical	HVAC System & Appurtenances Renewal	Auto generated renewal for HVAC System & Appurtenances. System Description: HVAC System includes equipment, ductwork, insulation, fittings, hangers, dampers, diffusers, thermostats controls. Natural gas piping, louvers, intake/relief hoods. Includes distribution piping for heating hot water, chilled water, condenser water and unit heaters. Includes all piping materials. Excludes Rooftop Units RTUs Air Handling Units AHUs, Boilers, Chillers, and Towers. Estimate 25% of the system will require replacement.	\$40,143
Unassigned	Unassigned	Old Colorado City	02_Architectural Exterior	Roof Coverings & Openings Renewal	Auto generated renewal for Roof Coverings & Openings. System Description: Roof includes all roof types and materials. Metal, Shingles, Built-up, EPDM etc.	\$48,930
Unassigned	Unassigned	Old Colorado City	04_Mechanical	Heating Hot Water Pumps - (HHWP-1) Renewal	Auto generated renewal for Heating Hot Water Pumps - (HHWP-1). System Description: Pump, base mounted centrifugal with motor, end-suction, Includes appurtenance, valves, fittings, suction diffuser, vfd, etc.	\$32,147

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
Unassigned	Unassigned	Old Colorado City	04_Mechanical	Boiler (B-1) Renewal	Auto generated renewal for Boiler (B-1). System Description: Boiler includes pumps, controls, expansion tank, air separator, valves, fittings and piping within 10' of unit. Includes all types of boilers. Excludes piping distribution.	\$117,132
Unassigned	Unassigned	Sand Creek Library	04_Mechanical	HVAC System & Appurtenances Renewal	Auto generated renewal for HVAC System & Appurtenances. System Description: HVAC System includes equipment, ductwork, insulation, fittings, hangers, dampers, diffusers, thermostats controls. Natural gas piping, louvers, intake/relief hoods. Includes distribution piping for heating hot water, chilled water, condenser water and unit heaters. Includes all piping materials. Excludes Rooftop Units RTUs Air Handling Units AHUs, Boilers, Chillers, and Towers. Estimate 25% of the system will require replacement.	\$125,169
Unassigned	Unassigned	Sand Creek Library	05_Plumbing	Plumbing Fixtures & DWV (All) Renewal	Auto generated renewal for Plumbing Fixtures & DWV (All). System Description: Plumbing fixtures include all interior/exterior fixtures: lavatories, sinks, urinals, water closets, hose bibs, backflow devices, and water coolers. Includes fixtures, trim, and drain/waste/vent piping. Excludes water heaters, piping, insulation, pumps, DHW, DCW. In 2023, 187 linear feet of underground Sanitary Sewer piping was replaced. Estimate 35% of the system will require replacement.	\$67,467
Unassigned	Unassigned	Sand Creek Library	07_Electrical	Electrical - Fire Alarm, Alarm, Internet Renewal	Auto generated renewal for Electrical - Fire Alarm, Alarm, Internet. System Description: Fire alarm control panel, alarm system, cameras, internet wiring. In conversations with the maintenance staff, the fire alarm, alarm system and internet are in good working order. System replacement due based on age, no issues observed nor reported.	\$88,262
Unassigned	Unassigned	Sand Creek Library	02_Architectural Exterior	Roof Coverings & Openings Renewal	Auto generated renewal for Roof Coverings & Openings. System Description: Ballast and roof membrane was replaced in 2009 and an inspection was performed in 2022. No notable issues were found and with regular maintenance should last it's expected lifetime.	\$124,484
Unassigned	Unassigned	Sand Creek Library	04_Mechanical	Fan Coil Units (FCU-1,2,3,1) Renewal	Auto generated renewal for Fan Coil Units (FCU-1,2,3,1). System Description: Includes unitary controls, filters, etc. Excludes ductwork. FCU-1,2,3 are mounted high above the ceiling and were not accessible. The roof mounted heat pump HP-1 serves all three-ceiling mounted fan coil units controlled by branch selector box (BS-1) and served by a heat pump (HP-1). The Computer Room Air Conditioner also referred to as FCU-1 was accessible in the server room and is in good condition FCU-1 has its own condensing unit CU-1. FCU-1 Daikin FXMQ36PBVJU, 3 ton, 208/1, 280 cfm Outside Air, 2017 FCU-2 Daikin FXMQ18PBVJU, 1.5 ton, 208/1, 20 cfm Outside Air, 2017 FCU-3 Daikin FXMQ18PBVJU, 1.5 ton, 208/1, 100 cfm Outside Air, 2017 BS-1 Daikin BS4Q54TVJ 208/1/60, Serves FCU-1,2,3, 2017. FCU-1 Mitsubishi Mister Slim, 2009 CU-1 Mitsubishi Mister Slim PUY-A36NHA2, R410a, 203-230/1/60, 20a Disconnect, 2009	\$91,567
Unassigned	Unassigned	Fountain Library	03_Architectural Interior	Interior Finishes - Flooring Renewal	Auto generated renewal for Interior Finishes - Flooring. System Description: Interior floor finishes include all floor types: tile, vinyl, laminate, wood, carpet, concrete, etc. Includes grout, cove base, sealer, and other finishes. Excludes exterior surfaces. Interior flooring is in generally good condition with the exception of damaged original ceramic tile. See Requirement for tile replacement. Carpet was replaced in 2017 and is in good condition.	\$100,683
Unassigned	Unassigned	Fountain Library	04_Mechanical	HVAC System & Appurtenances Renewal	Auto generated renewal for HVAC System & Appurtenances. System Description: HVAC System includes equipment, ductwork, insulation, fittings, hangers, dampers, diffusers, thermostats controls. Natural gas piping, louvers, intake/relief hoods. Includes unit heaters. Excludes Rooftop Units RTUs. Estimate 25% of the system will require replacement.	\$107,750

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
Unassigned	Unassigned	Fountain Library	05_Plumbing	Plumbing Fixtures & DWV (All) Renewal	Auto generated renewal for Plumbing Fixtures & DWV (All). System Description: Plumbing fixtures include all interior/exterior fixtures; lavatories, sinks, urinals, water closets, hose bibs, backflow devices, and water coolers. Includes fixtures, trim, and DWV piping. Excludes water heaters, piping, insulation, pumps, DHW, DCW. Estimate 25% of the system will require replacement.	\$34,495
Unassigned	Unassigned	Fountain Library	02_Architectural Exterior	Roof Coverings & Openings Renewal	Auto generated renewal for Roof Coverings & Openings. System Description: Built-up EPDM roof replaced in 2019. Roof over community room has leaked in the past, contractor patched TPO. There has not been a leaking incident since the repairs were made.	\$89,149
Unassigned	Unassigned	Fountain Library	05_Plumbing	Domestic Water Distribution Renewal	Auto generated renewal for Domestic Water Distribution. System Description: Includes all domestic water distribution DHW, DCW, piping, insulation, etc. Excludes fixtures, DWV piping, and appurtenances. This piping appeared generally in good condition and no issues with the piping were noted nor reported by staff, however the piping is nearing the end of its expected life. Based on the age of the piping, recommend inspecting older parts of the system and sampling/testing sections of piping to determine the characteristics and condition of the piping. Sampling of the piping can include coupons sent to a laboratory for analysis, ultrasonic testing, and/or bore scoping. System replacement due based on age, no issues observed nor reported.	\$32,124
Unassigned	Unassigned	Fountain Library	04_Mechanical	Rooftop Unit (RTU-3) Renewal	Auto generated renewal for Rooftop Unit (RTU-3). System Description: Packaged rooftop unit with Dx cooling and gas heating. Includes controls, curb, economizer, filters, etc. Excludes ductwork. Trane #YHC060, 5 Ton, 125,000 BTUH, 2000 CFM, 1.5HP 208v/3ph 30.3 MCA, 35% Outside Air, Programmable Thermostat with remote sensor.	\$31,727
Unassigned	Unassigned	Fountain Library	04_Mechanical	Rooftop Unit (RTU-5) Renewal	Auto generated renewal for Rooftop Unit (RTU-5). System Description: Packaged rooftop unit with Dx cooling and gas heating. Includes controls, curb, economizer, filters, etc. Excludes ductwork. Trane #YHC060, 5 Ton, 125,000 BTUH, 2000 CFM, 1.5HP 208v/3ph 30.3 MCA, 35% Outside Air, Programmable Thermostat with remote sensor.	\$31,727
Unassigned	Unassigned	Fountain Library	04_Mechanical	Rooftop Unit (RTU-4) Renewal	Auto generated renewal for Rooftop Unit (RTU-4). System Description: Packaged rooftop unit with Dx cooling and gas heating. Includes controls, curb, economizer, filters, etc. Excludes ductwork. Trane #YHC060, 5 Ton, 125,000 BTUH, 2000 CFM, 1.5HP 208v/3ph 30.3 MCA, 35% Outside Air, Programmable Thermostat with remote sensor.	\$31,727
Unassigned	Unassigned	Penrose Carnegie Library	03_Architectural Interior	Interior Finishes - Walls Renewal	Auto generated renewal for Interior Finishes - Walls. System Description: Interior wall finishes include all finish types: block, brick, wood, gyp board, etc. Includes primer, sealers, and two coats of paint, stain, or sealer. Excludes tape, plaster, mud, and exterior walls. System replacement due based on age, no issues observed nor reported.	\$128,593
Unassigned	Unassigned	Penrose Carnegie Library	07_Electrical	Electrical - Fire Alarm, Alarm, Internet Renewal	Auto generated renewal for Electrical - Fire Alarm, Alarm, Internet. System Description: Fire alarm control panel, alarm system, cameras, internet wiring. System replacement due based on age, no issues observed nor reported. Estimate 25% of the system will require replacement.	\$95,977
Unassigned	Unassigned	Penrose Carnegie Library	05_Plumbing	Roof Drains & Piping Renewal	Auto generated renewal for Roof Drains & Piping. System Description: Includes all roof drains, gutters, scuppers, piping, insulation, pumps, etc. Excludes domestic water and drain waste and vent.	\$149,877

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
Unassigned	Unassigned	Penrose Carnegie Library	04_Mechanical	HVAC System & Appurtenances Renewal	Auto generated renewal for HVAC System & Appurtenances. System Description: HVAC System includes equipment, ductwork, insulation, fittings, hangers, dampers, diffusers, thermostats controls. Natural gas piping, louvers, intake/relief hoods. Includes distribution piping for heating hot water, chilled water, condenser water and unit heaters. Includes all piping materials. Excludes Rooftop Units RTUs Air Handling Units AHUs, Boilers, Chillers, and Towers. Estimate 50% of the system will require replacement.	\$696,078
Unassigned	Unassigned	Penrose Carnegie Library	05_Plumbing	Domestic Water Distribution Renewal	Auto generated renewal for Domestic Water Distribution. System Description: Includes all domestic water distribution DHW, DCW, piping, insulation, etc. Excludes fixtures, DWV piping, and appurtenances. This piping appeared generally in good condition and no issues with the piping were noted nor reported by staff, however the piping is nearing the end of its expected life. Based on the age of the piping, recommend inspecting older parts of the system and sampling/testing sections of piping to determine the characteristics and condition of the piping. Sampling of the piping can include coupons sent to a laboratory for analysis, ultrasonic testing, and/or bore scoping. Estimate 25% of the system will require replacement.	\$48,678
Unassigned	Unassigned	Penrose Carnegie Library	02_Architectural Exterior	Exterior - Windows Renewal	Auto generated renewal for Exterior - Windows. System Description: Exterior windows, includes all window types, frames, glass, etc. Excludes walls. Recommend evaluating the replacement of the Carnegie wing windows. Installation is average estimated window installation date. Penrose windows are newer. Estimate 33% replacement cost for the Carnegie wing.	\$278,005
Unassigned	Unassigned	Penrose Carnegie Library	05_Plumbing	Plumbing Fixtures & DWV (All) Renewal	Auto generated renewal for Plumbing Fixtures & DWV (All). System Description: Plumbing fixtures include all interior/exterior fixtures: lavatories, sinks, urinals, water closets, hose bibs, backflow devices, and water coolers. Includes fixtures, trim, and drain/waste/vent piping. Excludes water heaters, piping, insulation, pumps, DHW, DCW. The fixtures throughout the campus range from 1998 to 2020. The restrooms in Penrose Main Library are completely ADA compliant. Staff Only areas were found to have varying fixture types. Bathroom stalls and doors ways were found to be too narrow to be ADA compliant and only a few fixtures had auto flush valves It is recommended that all bathrooms in the staff areas be remodeled and/or updated to be ADA compliant. System replacement due based on age, no issues observed nor reported. Estimate 35% of the system will require replacement.	\$321,157
Unassigned	Unassigned	Penrose Carnegie Library	04_Mechanical	Boiler (B-1) Renewal	Auto generated renewal for Boiler (B-1). System Description: Boiler includes pumps, controls, expansion tank, air separator, valves, fittings and piping within 10' of unit. Includes all types of boilers. Excludes piping distribution. Fire tube boiler, natural gas burner assembly with 3 pass exchangers. 6" insulated sched 40 steel supply headers. Boilers operate run/standby. Outside air intake louvers located within the room pneumatically and electrically controlled. Boilers provide heating water for The Hall, Penrose, and Carnegie. System replacement due based on age, no issues observed nor reported.	\$146,415
Unassigned	Unassigned	Penrose Carnegie Library	04_Mechanical	Chiller (CH-1) Renewal	Auto generated renewal for Chiller (CH-1). System Description: Water chiller, condenser water cooled, 200 ton, includes standard controls with 8" pipe connection. Refrigeration detection system located within the room. System replacement due based on age, no issues observed nor reported. Chiller controls were upgraded with new software, switches, sensors, and transducers in 2023.	\$272,041
Unassigned	Unassigned	Penrose Carnegie Library	04_Mechanical	Fan Coil Units (FCU-1,2,3,4,5,6,7,9,10) Renewal	Auto generated renewal for Fan Coil Units (FCU-1,2,3,4,5,6,7,9,10). System Description: Horizontal & vertical units with chilled water coil and hot water coil 4-pipe system. Fan coils are located through ceiling access panels along perimeter of Carnegie Building. System replacement due based on age, no issues observed nor reported.	\$215,384

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
Unassigned	Unassigned	Penrose Carnegie Library	04_Mechanical	VAV Boxes (All) Renewal	Auto generated renewal for VAV Boxes (All). System Description: The HVAC system has VAV box terminal units. Boxes are of different configurations, fan powered mixing boxes, fan powered mixing boxes with reheat coils, and pinch down (cooling only) boxes. Boxes include mixing section, damper, fan, and coils. Units have had maintenance performed by AMS to repair through the years. Recommend replacing based on age. About 30 total boxes ranging from 500-3000CFM	\$115,224
Unassigned	Unassigned	Penrose Carnegie Library	04_Mechanical	Make-up Air Unit (MAU-1) Renewal	Auto generated renewal for Make-up Air Unit (MAU-1). System Description: Make-up Air Unit ceiling mounted three stage gas heat furnace unit with OSA and return section which pulls from space (garage). Thermostatically controlled. AMPCO flue out through ceiling with clean out. MAU works in conjunction with Exhaust Fan which pulls air from under loading dock and make up air fan which brings in OSA to the dock. 70Deg.F temperature rise, 1,200 MBH input, includes standard controls	\$44,858
Unassigned	Unassigned	Penrose Carnegie Library	04_Mechanical	Boiler (B-2) Renewal	Auto generated renewal for Boiler (B-2). System Description: Boiler includes pumps, controls, expansion tank, air separator, valves, fittings and piping within 10' of unit. Includes all types of boilers. Excludes piping distribution. Fire tube boiler, natural gas burner assembly with 3 pass exchangers. 6" insulated sched 40 steel supply headers. Boilers operate run/standby. Outside air intake louvers located within the room pneumatically and electrically controlled. Boilers provide heating water for The Hall, Penrose, and Carnegie. System replacement due based on age, no issues observed nor reported. System replacement due based on age, no issues observed nor reported.	\$146,415
Unassigned	Unassigned	The Hall (KoC)	07_Electrical	Electrical - Fire Alarm, Alarm, Internet Renewal	Auto generated renewal for Electrical - Fire Alarm, Alarm, Internet. System Description: Fire alarm control panel, alarm system, cameras, internet wiring. The equipment is installed by the electrical distribution equipment, Panel DP-1. All equipment is operational, no problems with the existing equipment for Fire Alarm. System replacement due based on age, no issues observed nor reported.	\$64,465
Unassigned	Unassigned	The Hall (KoC)	04_Mechanical	Rooftop Unit (RTU-1) Renewal	Auto generated renewal for Rooftop Unit (RTU-1). System Description: Packaged rooftop unit with Chilled and Heating water coils. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork. System replacement due based on age, no issues observed nor reported.	\$36,259
Unassigned	Unassigned	The Hall (KoC)	02_Architectural Exterior	Roof Coverings & Openings Renewal	Auto generated renewal for Roof Coverings & Openings. System Description: Roof covering is a fully adhered EPMD membrane over rigid insulation.	\$90,899
Unassigned	Unassigned	The Hall (KoC)	04_Mechanical	Fan Coil Units (FCU-1 Thru 23) Renewal	Auto generated renewal for Fan Coil Units (FCU-1 Thru 23). System Description: Horizontal cabinet style Fan Coils with chilled water coil and hot water coil, 4-pipe system. Units are primary source for heating and cooling which recirculate air with no outside air. Condensate drips into plastic pan and evaporates or is pumped to main condensate drain line run horizontally throughout the facility. Quantity came from "KOC Historical Assessment - 2017", date installed is estimated. System replacement due based on age, no issues observed nor reported.	\$169,846
Unassigned	Unassigned	The Hall (KoC)	01_Structural	Floor & Roof Construction Renewal	Auto generated renewal for Floor & Roof Construction. System Description: Structural floor, roof, and structural columns for the entire facility. System replacement due based on age, no issues observed nor reported.	\$46,099

Appendix D - FCA Prioritized Requirements

Rank	Budget Year	Facility Name	Requirement - System Group	Requirement Name	Requirement - Description	Requirement - Estimated Cost
Unassigned	Unassigned	Antlers Garage Facade	03_Architectural Interior	Interior Finishes - Ceilings Renewal	Auto generated renewal for Interior Finishes - Ceilings. System Description: Interior ceilings include all types and finishes. Includes hangers, grid, acoustical tile, and unfinished painted areas. Excludes studs (metal/wood), gypsum board, tape, mud, mortar, etc. Includes primer, two coats of paint, and stain where applicable. Excludes HVAC, Fire, and Electrical. The ceiling finishes include external ceilings beneath the vehicle external entrance and exit at the facility exterior. There are no finished ceilings within the facility. External ceiling finishes appear to be in good condition.	\$36,394
Unassigned	Unassigned	Penrose Carnegie Library	04_Mechanical	Air Handling Unit (AHU-4) Renewal	Auto generated renewal for Air Handling Unit (AHU-4). System Description: Blower Coil Air Handler Single Zone with starter and Hot water heating and chilled water cooling. PVC condensate drain. Steel frame mounted.	\$41,526
Unassigned	Unassigned	Penrose Carnegie Library	04_Mechanical	Air Handling Unit (AHU-5) Renewal	Auto generated renewal for Air Handling Unit (AHU-5). System Description: Blower Coil Air Handler Single Zone with starter and Hot water heating and chilled water cooling. PVC condensate drain. Mixing box is separated. Steel frame mounted.	\$41,526
Unassigned	Unassigned	Penrose Carnegie Library	04_Mechanical	Air Handling Unit (AHU-9) Renewal	Auto generated renewal for Air Handling Unit (AHU-9). System Description: Blower Coil Air Handler Single Zone with starter and Hot water heating and chilled water cooling. PVC condensate drain. Mixing box is separated. Steel frame mounted.	\$41,526
Unassigned	Unassigned	Penrose Carnegie Library	04_Mechanical	Air Handling Unit (AHU-11) Renewal	Auto generated renewal for Air Handling Unit (AHU-11). System Description: Blower Coil Air Handler Single Zone with starter and Hot water heating and chilled water cooling. PVC condensate drain. Mixing box is separated. Steel frame mounted.	\$41,526
Unassigned	Unassigned	Penrose Carnegie Library	04_Mechanical	Rooftop Unit (RTU-1) Renewal	Auto generated renewal for Rooftop Unit (RTU-1). System Description: Packaged rooftop unit with electric DX cooling and forced air gas heating furnace. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork.	\$31,727
Unassigned	Unassigned	Penrose Carnegie Library	04_Mechanical	Rooftop Unit (RTU-3) Renewal	Auto generated renewal for Rooftop Unit (RTU-3). System Description: Packaged rooftop unit with electric dX cooling only. Includes unitary controls, curb, economizer, filters, etc. Excludes ductwork.	\$31,727
Unassigned	Unassigned	Penrose Carnegie Library	04_Mechanical	Cooling Tower CT-1 Renewal	Auto generated renewal for Cooling Tower CT-1. System Description: Baltimore Air Coil company induced draft, cross flow, Axial fan vertical cooling tower with 10" sump connection. VFD on tower evap fan with Cross-the-line by Bypass on VFD. Unit is located inside the parking garage. Louvered intake is located on street level with isolation damper. System replacement due based on age, no issues observed nor reported.	\$159,114
Unassigned	Unassigned	Penrose Carnegie Library	04_Mechanical	Heating Hot Water Pumps (HHWP-6,7) Renewal	Auto generated renewal for Heating Hot Water Pumps (HHWP-6,7). System Description: Pump, base mounted with motor, end-suction, VFD with Across-the-line bypass and appurtenance, valves, fittings, suction diffuser, etc. Only 1 VFD for 2 pumps. System replacement due based on age, no issues observed nor reported.	\$98,892

Appendix E - Energy Assessment Findings

Facility	Energy Measure Name	Energy Measure Description2	Estimated Cost	Category	Priority
Library 21C Energy	Upgrade Lighting Fixtures/Controls to LED	Upgrade the existing building's mostly fluorescent lighting to LED, and add control features of daylight sensors and control to areas of the library, conference rooms, large and small offices, conference and meeting rooms. Recommend providing LED lamps and adding controls, estimate ~\$3.50 per square foot. If ballasts are change out price would be ~\$6.50 per square foot. Pricing is based on re-lamping only and not changing the ballasts. The state of Colorado house bill HB23-1161, Section 8 establishes the "Clean Lighting Act" to phase out the sale of general-purpose fluorescent light bulbs that contain mercury. With certain exceptions, on and after January 1, 2025, a person shall not manufacture, distribute, sell, or offer for sale in Colorado any linear florescent lamp or compact fluorescent lamp. Regulation and energy savings are both driving this recommendation.	\$ 402,703	09_Energy	01 - High
East Library Energy	Supply Temperature Reset - HHW	The supply temperature for the boilers (B-1,B-2) was 166.4 degrees Fahrenheit and the return water temperature was 165.8 degrees. The temperature difference between the supply and return is only 1 degree Fahrenheit, where a 10-30 degree temperature difference would be expected. It appears that there is not a heating hot water temperature reset sequence or the sequence is wrong. The heating hot water pump HW-10 was at 99.6% speed indicating that the sequence is not working properly based on the outside air conditions. Recommend evaluating the sequence of operation and updating the controls to reduce pumping energy and reset the water temperature to increase boiler efficiency and reduce energy (utility) costs. Condensing boilers are more efficient at reduced inlet water temperatures. HHW temperature setpoint appeared to be 170 to 180 degrees F on the condensing boilers B-1, B-2. Recommend verifying HHW temperature setpoint schedule for controls. Original design was for 200 degrees F. Boilers are not condensing at the higher temperatures rendering them less efficient. Consider verifying the setpoint schedule allows for the lowest return water temperature possible while preventing freezing of coils to protect the equipment. When AHU and VAV coils are replaced, consider replacing with larger coils for lor lower water temperatures to maximize condensing at the boilers. Recommend adjusting controls based on findings as required to the proper sequence of operation.	\$ 2,400	09_Energy	01 - High
East Library Energy	Troubleshoot and Correct Baseboard Controls	The hydronic baseboard controls appear to be connected to the zone thermostat controls or with an independent thermostatic valve (danfoss) according to the mechanical drawings. Some of the baseboard was observed operational during the visit and some was not. Recommend verifying proper baseboard control for each zone to ensure the baseboard is not operational in cooling mode and that it is operational in heating mode. Simultaneous heating and cooling uses considerable excess energy. Recommend going through the baseboard system and determining any control deficiencies. Recommend correcting deficiencies that could include updating the control system, adding control valves, and or thermostats.	\$ 3,500	09_Energy	02 - Medium
East Library Energy	Repair/Install Operable Window Shades	Window shades throughout the facility have issues with operation. Some of the automatic blinds are installed improperly in the monolith skylight areas and can not be operated through the controls. The curved glass on the West exposure of the facility does not have blinds on the interior of the windows, there are manual sun shades on the exterior of the facility. Recommend installing the monolith skylight blinds properly for automatic operation. Recommend providing interior blinds (automatic) on the West interior of the facility top reduce solar heat gain in the summer season, and developing a strategy to control the blinds to reduce building cooling energy and maximize daylight on the interior of the facility. Recommend integrating with lighting controls to reduce lighting energy from natural daylight through the windows and skylights.	\$ 40,392	09_Energy	02 - Medium

Appendix E - Energy Assessment Findings

Facility	Energy Measure Name	Energy Measure Description2	Estimated Cost	Category	Priority
East Library Energy	Provide RCx, Energy Audit, TAB	Recommend simultaneous retro-commissioning, energy auditing, and Test, Adjust, and Balance (TAB) of the building systems. This effort includes a thorough review of the occupancy, use, controls, setpoints, sequences of operations, energy use, and operating parameters. The project would include test, adjust, and balance of the HVAC and hydronic systems along with controls testing and validation with a licensed controls contractor. It has been several years since the building has been evaluated and adjusted. Recommend performing energy calculations for savings and reviewing past energy reports for opportunities to save on utility consumption, costs and reduce the facility's carbon footprint. Recommend bundling this into an entire project to develop an energy plan and verify proper operation of the facility systems. As a starting point for an energy audit, we recommend utilizing the original Colorado Springs Utility (CSU) reports with previously identified energy measures. Some measures have been completed, others may not be applicable, and some are valid that have not been implemented. Original CSU audits do not have detailed calculations nor paybacks associated for the energy measures. Due to the age of these reports, we recommend performing detailed calculations with current utility rates, inflation rates, and implementation costs to evaluate the measures.	\$ 122,216	09_Energy	01 - High
East Library Energy	Upgrade Lighting Fixtures/Controls to LED	The existing interior lighting for the space is mostly made up of fluorescent lighting (pendants, linear, troffers and surface mounted), and incandescent can lights (recessed, wall mounted, pendant), and the exterior soffits have recessed High Intensity Discharge lamps. The amount of existing lighting is high due to the task of reading of small text, much higher than other commercial buildings. The architecture of the building allows the use of daylighting in some of the spaces due to either clerestory or sky lights. Many other areas could utilize various interior control strategies to reduce the power consumption of general lighting within the building. Recommend providing LED lamps and adding controls, estimate ~\$3.50 per square foot. If ballasts are change out price would be ~\$6.50 per square foot. Pricing is based on re-lamping only and not changing the ballasts. The state of Colorado house bill HB23-1161, Section 8 establishes the "Clean Lighting Act" to phase out the sale of general-purpose fluorescent light bulbs that contain mercury. With certain exceptions, on and after January 1, 2025, a person shall not manufacture, distribute, sell, or offer for sale in Colorado any linear florescent lamp or compact fluorescent lamp. Regulation and energy savings are both driving this recommendation.	\$ 245,536	09_Energy	01 - High
Penrose (Carnegie) Library Energy	Upgrade Lighting Fixtures/Controls to LED	The existing lighting within both libraries are Fluorescent, with no lighting control. The existing fixtures are a combination of pendant linear, recessed troffers, either 2'x2' or 2'x4' and recessed cans, and exterior wall packs. Recommend providing LED lamps and adding controls, estimate ~\$3.50 per square foot. If ballasts are change out price would be ~\$6.50 per square foot. Pricing is based on re-lamping only and not changing the ballasts. The state of Colorado house bill HB23-1161, Section 8 establishes the "Clean Lighting Act" to phase out the sale of general-purpose fluorescent light bulbs that contain mercury. With certain exceptions, on and after January 1, 2025, a person shall not manufacture, distribute, sell, or offer for sale in Colorado any linear florescent lamp or compact fluorescent lamp. Regulation and energy savings are both driving this recommendation.	\$ 275,909	09_Energy	01 - High

Appendix E - Energy Assessment Findings

Facility	Energy Measure Name	Energy Measure Description2	Estimated Cost	Category	Priority
Knights of Columbus Hall Energy	Upgrade Lighting Fixtures/Controls to LED	The existing lighting within The Hall is Fluorescent, with no existing lighting controls. The existing fixtures are a combination of pendant linears, recessed troffers, either 2'x2' or 2'x4' and recessed cans, and exterior wall packs. Recommend providing LED lamps and adding controls, estimate ~\$3.50 per square foot. If ballasts are change out price would be ~\$6.50 per square foot. Pricing is based on re-lamping only and not changing the ballasts. The state of Colorado house bill HB23-1161, Section 8 establishes the "Clean Lighting Act" to phase out the sale of general-purpose fluorescent light bulbs that contain mercury. With certain exceptions, on and after January 1, 2025, a person shall not manufacture, distribute, sell, or offer for sale in Colorado any linear florescent lamp or compact fluorescent lamp. Regulation and energy savings are both driving this recommendation.	\$ 41,958	09_Energy	01 - High
Penrose (Carnegie) Library Energy	Provide Additional VFD	There is only one Variable Frequency Drive for 2 pumps. Recommend installing a second VFD to dedicate one VFD to each pump to allow rotation and energy savings.	\$ 11,713	09_Energy	03 - Low
Fountain Library Energy	Upgrade Lighting Fixtures/Controls to LED	The existing lighting within the Fountain Library is Fluorescent, with no lighting control. The existing fixtures are a combination of pendant linear's, recessed troffers, either 2'x2' or 2'x4' and recessed cans, and exterior wall packs. Recommend providing LED lamps and adding controls, estimate ~\$3.50 per square foot. If ballasts are change out price would be ~\$6.50 per square foot. Pricing is based on re-lamping only and not changing the ballasts. The state of Colorado house bill HB23-1161, Section 8 establishes the "Clean Lighting Act" to phase out the sale of general-purpose fluorescent light bulbs that contain mercury. With certain exceptions, on and after January 1, 2025, a person shall not manufacture, distribute, sell, or offer for sale in Colorado any linear florescent lamp or compact fluorescent lamp. Regulation and energy savings are both driving this recommendation.	\$ 33,537	09_Energy	01 - High
Sand Creek Library Energy	Upgrade Lighting Fixtures/Controls to LED	The existing lighting within the Sand Creek Library is Fluorescent, with very little lighting control (existing relay panel). The existing fixtures are a combination of linear pendants, recessed troffers, either 2'x2' or 2'x4', track lighting and recessed cans, and exterior wall packs. Recommend providing LED lamps and adding controls, estimate ~\$3.50 per square foot. If ballasts are change out price would be ~\$6.50 per square foot. Pricing is based on re-lamping only and not changing the ballasts. The state of Colorado house bill HB23-1161, Section 8 establishes the "Clean Lighting Act" to phase out the sale of general-purpose fluorescent light bulbs that contain mercury. With certain exceptions, on and after January 1, 2025, a person shall not manufacture, distribute, sell, or offer for sale in Colorado any linear florescent lamp or compact fluorescent lamp. Regulation and energy savings are both driving this recommendation.	\$ 49,210	09_Energy	01 - High
Palmer Lake Library Energy	Replace Window AC units (Dx Cooling only)	Cooling is currently provided with window AC units. Replacing the AC window units with a more efficient ductless split system with a better SEER/EER) rating would reduce energy costs. Consolidating to two units that would adequately cool and possibly heat the occupied space could be an option, however the cost of installing a new system, combined with the limited hours of operation and limited cooling needs in Palmer Lake would significantly reduce the payback of this opportunity. Recommend further study and consideration around this potential opportunity. Other benefits would include removing the AC systems from the windows for better aesthetics at the facility.	\$ 15,628	09_Energy	03 - Low

Appendix E - Energy Assessment Findings

Facility	Energy Measure Name	Energy Measure Description2	Estimated Cost	Category	Priority
Palmer Lake Library Energy	Provide Programmable Thermostats (Baseboard)	Recommend providing programmable thermostats for hydronic baseboard control. Currently the baseboard is operating on a manually adjusted thermostat with a setting of 74 degrees 24/7. Recommend providing thermostats with an appropriate facility schedule to setback the temperatures during non operational hours and in the evening. This recommendation is based on the limited hours the facility is open and the utility arrangement with the Lessor (City of Palmer Lake).The library is currently paying for 3/4 of the heating utility bill. Recommend tracking utility use and negotiating with the City if it is determined that the facility is using less than 3/4 of the total utility (natural gas) for heating.	\$ 1,288	09_Energy	01 - High
Monument Library Energy	Replace Single Pane Windows	Recommend replacing single pane glass with double pane glass and appropriate tinting. Double-pane windows are generally more energy-efficient compared to single-pane windows. Some of the advantages of double pane glass are: Insulation: Double-pane windows have two layers of glass with a layer of argon gas in between. This gas acts as an insulator, reducing heat transfer between the interior and exterior. In contrast, single-pane windows lack this insulating layer. Temperature Regulation: The additional glass layer in double-pane windows helps maintain a more stable indoor temperature. During cold weather, they prevent heat loss, and in hot weather, they reduce heat gain. Noise Reduction: Double-pane windows also provide better sound insulation due to the extra glass layer and the gas in between. They can help keep unwanted noise from outside at bay. Condensation: Single-pane windows are more prone to condensation because the inner surface gets colder. Double-pane windows with insulating gas are less likely to experience condensation. The windows are currently recommended to be replaced based on age (lifecycle). When replacing the windows, we recommend that the items listed above be considered with the window replacements. This is not a "like for like" replacement and would require an investment to upgrade the windows. Window replacement is ~\$84,009, estimate upgrades ate 150% of current opinion of probable cost. This recommendation should be coordinated with the lessor and PPLD should determine their long range capital plans with the facility lease to determine if the upgrades are warranted.	\$ 128,520	09_Energy	03 - Low
Monument Library Energy	Evaluate Energy Billing - Electrical	It appears that the gas meter is separately billed for the facility (recommend verification), however, electricity billing by an independent meter could not be verified at the time of inspection. Recommend evaluating existing conditions at the electrical meter to verify the library is on it's own independent meter.	\$ 250	09_Energy	01 - High
Antlers Facade Parking Structure Energy	Upgrade Lighting Fixtures/Controls to LED	The existing lighting within the Antler's Facility is fluorescent, with no existing lighting controls. The existing fixtures are recessed troffers, either 2'x2' or 2'x4', and exterior wall packs. Recommend providing LED lamps and adding controls, estimate ~\$3.50 per square foot. If ballasts are change out price would be ~\$6.50 per square foot. Pricing is based on re-lamping only and not changing the ballasts. The state of Colorado house bill HB23-1161, Section 8 establishes the "Clean Lighting Act" to phase out the sale of general-purpose fluorescent light bulbs that contain mercury. With certain exceptions, on and after January 1, 2025, a person shall not manufacture, distribute, sell, or offer for sale in Colorado any linear florescent lamp or compact florescent lamp. Regulation and energy savings are both driving this recommendation.	\$ 3,500	09_Energy	01 - High

Appendix E - Energy Assessment Findings

Facility	Energy Measure Name	Energy Measure Description2	Estimated Cost	Category	Priority
Calhan Library Energy	Upgrade Lighting Fixtures/Controls to LED	The existing lighting within both libraries are Fluorescent, with no lighting control. The existing fixtures are a combination of pendant linear, recessed troffers, either 2'x2' or 2'x4' and recessed cans, and exterior wall packs. Recommend providing LED lamps and adding controls, estimate ~\$3.50 per square foot. If ballasts are change out price would be ~\$6.50 per square foot. Pricing is based on re-lamping only and not changing the ballasts. The state of Colorado house bill HB23-1161, Section 8 establishes the "Clean Lighting Act" to phase out the sale of general-purpose fluorescent light bulbs that contain mercury. With certain exceptions, on and after January 1, 2025, a person shall not manufacture, distribute, sell, or offer for sale in Colorado any linear florescent lamp or compact fluorescent lamp. Regulation and energy savings are both driving this recommendation.	\$ 8,400	09_Energy	01 - High
Ruth Holley Library Energy	Upgrade Lighting Fixtures/Controls to LED	The existing lighting within both libraries are Fluorescent, with no lighting control. The existing fixtures are a combination of pendant linear, recessed troffers, either 2'x2' or 2'x4' and recessed cans, and exterior wall packs. Recommend providing LED lamps and adding controls, estimate ~\$3.50 per square foot. If ballasts are change out price would be ~\$6.50 per square foot. Pricing is based on re-lamping only and not changing the ballasts. The state of Colorado house bill HB23-1161, Section 8 establishes the "Clean Lighting Act" to phase out the sale of general-purpose fluorescent light bulbs that contain mercury. With certain exceptions, on and after January 1, 2025, a person shall not manufacture, distribute, sell, or offer for sale in Colorado any linear florescent lamp or compact fluorescent lamp. Regulation and energy savings are both driving this recommendation.	\$ 36,642	09_Energy	01 - High
Cheyenne Mountain Library Energy	Upgrade Lighting Fixtures/Controls to LED	The existing lighting within both libraries are Fluorescent, with no lighting control. The existing fixtures are a combination of pendant linear, recessed troffers, either 2'x2' or 2'x4' and recessed cans, and exterior wall packs. Recommend providing LED lamps and adding controls, estimate ~\$3.50 per square foot. If ballasts are change out price would be ~\$6.50 per square foot. Pricing is based on re-lamping only and not changing the ballasts. The state of Colorado house bill HB23-1161, Section 8 establishes the "Clean Lighting Act" to phase out the sale of general-purpose fluorescent light bulbs that contain mercury. With certain exceptions, on and after January 1, 2025, a person shall not manufacture, distribute, sell, or offer for sale in Colorado any linear florescent lamp or compact fluorescent lamp. Regulation and energy savings are both driving this recommendation.	\$ 31,150	09_Energy	01 - High
Old Colorado City Energy	Upgrade Lighting Fixtures/Controls to LED	The existing lighting within both libraries are Fluorescent, with no lighting control. The existing fixtures are a combination of pendant linear, recessed troffers, either 2'x2' or 2'x4' and recessed cans, and exterior wall packs. Recommend providing LED lamps and adding controls, estimate ~\$3.50 per square foot. If ballasts are change out price would be ~\$6.50 per square foot. Pricing is based on re-lamping only and not changing the ballasts. The state of Colorado house bill HB23-1161, Section 8 establishes the "Clean Lighting Act" to phase out the sale of general-purpose fluorescent light bulbs that contain mercury. With certain exceptions, on and after January 1, 2025, a person shall not manufacture, distribute, sell, or offer for sale in Colorado any linear florescent lamp or compact fluorescent lamp. Regulation and energy savings are both driving this recommendation.	\$ 17,182	09_Energy	01 - High

Appendix E - Energy Assessment Findings

Facility	Energy Measure Name	Energy Measure Description2	Estimated Cost	Category	Priority
Rockrimmon Library Energy	Upgrade Lighting Fixtures/Controls to LED	The existing lighting within both libraries are Fluorescent, with no lighting control. The existing fixtures are a combination of pendant linear, recessed troffers, either 2'x2' or 2'x4' and recessed cans, and exterior wall packs. Recommend providing LED lamps and adding controls, estimate ~\$3.50 per square foot. If ballasts are change out price would be ~\$6.50 per square foot. Pricing is based on re-lamping only and not changing the ballasts. The state of Colorado house bill HB23-1161, Section 8 establishes the "Clean Lighting Act" to phase out the sale of general-purpose fluorescent light bulbs that contain mercury. With certain exceptions, on and after January 1, 2025, a person shall not manufacture, distribute, sell, or offer for sale in Colorado any linear florescent lamp or compact fluorescent lamp. Regulation and energy savings are both driving this recommendation.	\$ 30,338	09_Energy	01 - High
Palmer Lake Library Energy	Upgrade Lighting Fixtures/Controls to LED	The existing lighting is fluorescent, with no lighting control. Recommend providing LED lamps and adding controls, estimate ~\$3.50 per square foot. If ballasts are change out price would be ~\$6.50 per square foot. Pricing is based on re-lamping only and not changing the ballasts. The state of Colorado house bill HB23-1161, Section 8 establishes the "Clean Lighting Act" to phase out the sale of general-purpose fluorescent light bulbs that contain mercury. With certain exceptions, on and after January 1, 2025, a person shall not manufacture, distribute, sell, or offer for sale in Colorado any linear florescent lamp or compact fluorescent lamp. Regulation and energy savings are both driving this recommendation.	\$ 5,509	09_Energy	01 - High
Monument Library Energy	Upgrade Lighting Fixtures/Controls to LED	The existing lighting within both libraries are Fluorescent, with no lighting control. The existing fixtures are a combination of pendant linear, recessed troffers, either 2'x2' or 2'x4' and recessed cans, and exterior wall packs. Recommend providing LED lamps and adding controls, estimate ~\$3.50 per square foot. If ballasts are change out price would be ~\$6.50 per square foot. Pricing is based on re-lamping only and not changing the ballasts. The state of Colorado house bill HB23-1161, Section 8 establishes the "Clean Lighting Act" to phase out the sale of general-purpose fluorescent light bulbs that contain mercury. With certain exceptions, on and after January 1, 2025, a person shall not manufacture, distribute, sell, or offer for sale in Colorado any linear florescent lamp or compact fluorescent lamp. Regulation and energy savings are both driving this recommendation.	\$ 26,376	09_Energy	01 - High
Library 21C Energy	Troubleshoot and Correct Baseboard Controls	The exterior baseboard wall heating is running at the same time cooling is running in some areas. Simultaneous heating and cooling uses considerable excess energy. Recommend going through the baseboard system and determining any control deficiencies. Recommend correcting deficiencies that could include updating the control system, adding control valves, and or thermostats.	\$ 3,500	09_Energy	01 - High
Library 21C Energy	Troubleshoot and Correct Lighting Controls	The exterior canned lights and sidewalk lights appeared to be consistently on. Running lights during daylight hours uses excess energy. Recommend going through the lighting system to determine proper control settings. Recommend correcting deficiencies that could include updating the control system or adding controls.	\$ 2,500	09_Energy	01 - High
Calhan Library Energy	Correct Lighting Controls	Exterior lighting is on continually throughout the day. It was discovered during the site visit interview that no one is currently trained on how to program the existing lighting controls. The controls are located in the mechanical room. Recommend contacting the vendor to receive control information and or training to properly program the exterior lights to operate from dusk till dawn. Recommend going through the lighting system to determine proper control settings. Recommend correcting deficiencies that could include updating the control system or adding controls.	\$ 500	09_Energy	01 - High

Appendix E - Energy Assessment Findings

Facility	Energy Measure Name	Energy Measure Description2	Estimated Cost	Category	Priority
Library 21C Energy	Provide RCx, Energy Audit, TAB	Recommend simultaneous retro-commissioning, energy auditing, and Test, Adjust, and Balance (TAB) of the building systems. This effort includes a thorough review of the occupancy, use, controls, setpoints, sequences of operations, energy use, and operating parameters. The project would include test, adjust, and balance of the HVAC and hydronic systems along with controls testing and validation with a licensed controls contractor. It has been several years since the building has been evaluated and adjusted. Recommend performing energy calculations for savings and reviewing past energy reports for opportunities to save on utility consumption, costs and reduce the facility's carbon footprint. Recommend bundling this into an entire project to develop an energy plan and verify proper operation of the facility systems. As a starting point for an energy audit, we recommend utilizing the original Colorado Springs Utility (CSU) reports with previously identified energy measures. Some measures have been completed, others may not be applicable, and some are valid that have not been implemented. Original CSU audits do not have detailed calculations nor paybacks associated for the energy measures. Due to the age of these reports, we recommend performing detailed calculations with current utility rates, inflation rates, and implementation costs to evaluate the measures.	\$ 182,587	09_Energy	01 - High
Penrose (Carnegie) Library Energy	Provide RCx, Energy Audit, TAB	Recommend simultaneous retro-commissioning, energy auditing, and Test, Adjust, and Balance (TAB) of the building systems. This effort includes a thorough review of the occupancy, use, controls, setpoints, sequences of operations, energy use, and operating parameters. The project would include test, adjust, and balance of the HVAC and hydronic systems along with controls testing and validation with a licensed controls contractor. It has been several years since the building has been evaluated and adjusted. Recommend performing energy calculations for savings and reviewing past energy reports for opportunities to save on utility consumption, costs and reduce the facility's carbon footprint. Recommend bundling this into an entire project to develop an energy plan and verify proper operation of the facility systems. As a starting point for an energy audit, we recommend utilizing the original Colorado Springs Utility (CSU) reports with previously identified energy measures. Some measures have been completed, others may not be applicable, and some are valid that have not been implemented. Original CSU audits do not have detailed calculations nor paybacks associated for the energy measures. Due to the age of these reports, we recommend performing detailed calculations with current utility rates, inflation rates, and implementation costs to evaluate the measures.energy plan and verify proper operation of the facility systems.	\$ 128,247	09_Energy	01 - High
Library 21C Energy	Variable Volume Pumping - HHW	Boilers and pumps (B-1,B-2,HHWP-1,HHWP-2) the heating hot water system is configured in a constant volume arrangement with a three-way mixing/diverting valve. Recommend converting the system to variable volume pumping and eliminating the three-way valve. This measure is to further study the energy measure, paybacks, control sequences, and construction costs. Recommend adding HHW return temperature to the controls and possibly incorporating it into the control sequence to reduce entering water temperature into the condensing boilers and increase the boiler efficiency. Boilers are newer condensing boilers and are capable of handling variable flow. This measure does not include estimated construction to modify the system. Recommend coordinating energy measures with replacement of systems or components based on lifecycle (age) when they are due for replacement.	\$ 8,000	09_Energy	01 - High

Appendix E - Energy Assessment Findings

Facility	Energy Measure Name	Energy Measure Description2	Estimated Cost	Category	Priority
Library 21C Energy	Return Air Path Corrections (AHU-3, AHU-4, AHU-6)	Air handling units (AHU-3 and AHU-4) have issues with return air flow from the spaces (AHU-4, Finance Area, and AHU-3 Facilities Maintenance Area) back to the units. Some of the walls have been built to structure and return air paths were never properly installed, creating a situation of air possibly returning from the wrong floor or zone. This condition impacts both the occupant comfort and energy consumption of the units. Pressurization, temperature control, and air balancing should be investigated for these units. Recommend correcting the return air paths for these units by installing a proper return air path. This measure does not include estimated construction to modify the system. Recommend coordinating energy measures with replacement of systems or components based on lifecycle (age) when they are due for replacement.	\$ 7,200	09_Energy	01 - High
Library 21C Energy	Variable Volume Pumping - CHW	Chillers (CH-1,2), pumps (CHWP-1,CHWP-2), and the chilled water system are configured in a constant volume arrangement. Recommend converting the system to variable volume pumping. This measure is to further study the energy measure, paybacks, control sequences, and construction costs. This measure does not include estimated construction to modify the system. Recommend coordinating energy measures with replacement of systems or components based on lifecycle (age) when they are due for replacement.	\$ 6,000	09_Energy	02 - Medium
Library 21C Energy	Night Setback Schedules - Facility	During the controls review the maintenance team reported that there was a lack of confidence in the night setback schedules operating properly. Recently the facilities were adjusted to normal operation from the COVID schedules which had all of the outside air dampers 100% open 24/7. Recommend verifying proper damper function for building pressurization, ventilation, schedules, and night setback mode. Recommend verifying proper setback temperatures according to the building schedule and night setback mode. Recommend making adjustments and corrections to the controls.	\$ 2,400	09_Energy	01 - High
Library 21C Energy	Update Controls Graphics - Facility	During the controls review some of the graphics screen values and point values appeared to either be incorrect, not have values, have improper values, or unexpected values. Some values appeared to be manually overridden and not in automatic mode of control. Recommend review current graphics and facility sequences of operation to ensure control points and graphics are operating properly, have proper setpoints, and appear visually	\$ 5,600	09_Energy	02 - Medium

Appendix E - Energy Assessment Findings

Facility	Energy Measure Name	Energy Measure Description2	Estimated Cost	Category	Priority
Library 21C Energy	Variable Volume Air Flow - AHUs	Air handling units (AHU-1 through AHU-6) are constant volume air handling units of various configurations. Recommend converting the system to variable volume air flow units. This measure is to further study the energy measure, paybacks, control sequences, and construction costs. This measure does not include estimated construction to modify the system. Recommend coordinating energy measures with replacement of systems or components based on lifecycle (age) when they are due for replacement. For this measure any unit with inlet vanes would have them removed. Two options to implement this measure, listed in the original energy report, include: Option 1: Texas Multizone Retrofit: This measure eliminates the hot deck, and it becomes a "bypass deck". Each zone receives a blend of cold air and bypass air via existing dampers. Zone control remains. Each zone then would have a slip-in flange mounted heating coil with control valve, using the heating main supply formerly used for the hot deck (same heat load, so pipe size is not an issue). Heat is only applied to the zone when the cooling air is zero for full bypass. With this arrangement, there is no heat/cool overlap other than winter economizing, which is treated with one of the numbered options noted above. This system remains constant volume. This option is the easiest to implement but does not capture the air flow benefits. Option 2: VAV retrofit: This measure eliminates the hot deck, and it becomes a "bypass deck". Each zone receives a blend of cold air and bypass air via existing dampers. Zone control remains. Each zone then would have a slip-in flange mounted heating coil with control valve, using the heating main supply formerly used for the hot deck (same heat load, so pipe size is not an issue). Heat is only applied to the zone when the cooling air is zero for full bypass. With this arrangement, there is no heat/cool overlap other than winter economizing, which is treated with one of the numbered options noted above. This system remains constant volume. This option is the easiest to implement but does not capture the air flow benefits.	\$ 16,000	09_Energy	01 - High
East Library Energy	Correct Variable Volume Air Flow ? VAV Boxes	The south side VAV boxes require manual adjustment based on the weather conditions according to maintenance personnel. Boxes may require calibration, sensor replacement, control sequence adjustments, or they may be undersized. Recommend investigating the aforementioned items to identify measures to correct any deficiencies for all of the VAV box configurations within the facility. Improper control can lead to excess airflow and energy use. This measure is to further study the energy measure, paybacks, control sequences, and construction costs. This measure does not include estimated construction to modify the system. Recommend coordinating energy measures with replacement of systems or components based on lifecycle (age) when they are due for replacement.	\$ 8,800	09_Energy	01 - High
East Library Energy	Simultaneous Heating & Cooling ? VAV & Baseboard	Baseboard heating appears to be manually controlled and not interlocked with the VAV boxes. Recommend system changes such as adding control valves, independent thermostats, and control sequences to the baseboard to ensure simultaneous heating and cooling do not occur between these systems. This measure is to further study the energy measure, paybacks, control sequences, and construction costs. This measure does not include estimated construction to modify the system. Recommend coordinating energy measures with replacement of systems or components based on lifecycle (age) when they are due for replacement.	\$ 3,200	09_Energy	01 - High

Appendix E - Energy Assessment Findings

Facility	Energy Measure Name	Energy Measure Description2	Estimated Cost	Category	Priority
East Library Energy	Correct Fan Sequences ? AHUs / VFDs	The air handling units with VFDs had supply air fan speeds higher than would be anticipated for the outside temperature conditions. We would anticipate 30% to 60% VFD fan speeds with an outside air temperature of ~35 degrees Fahrenheit. The following fan speeds were observed: AHU-1 (77.9%), AHU-2 (72.5%), AHU-3 (60%), AHU-4 (93.4%), AHU-5 (50%), AHU-6 (60%), AHU-7 (70%), and AHU-8 (81.9%). Further, it is unclear how the supply fans are controlled, AHU-2 had a supply fan static pressure setpoint of 1.0? w.c.g. and the static pressure was shown on the graphics as 0.017? w.c.g., recommend investigating current sequence of operation and adjusting control sequences and systems for proper operation. Return fan control was unclear, recommend determining if return fans have a control sequence to provide proper positive building pressurization for the facility. Fans may require calibration, sensor replacement, and control sequence adjustments. Recommend investigating the aforementioned items to identify measures to correct any deficiencies for all of the supply and return fans. Improper fan control can lead to excess airflow and energy use. This measure is to further study the energy measure, paybacks, control sequences, and construction costs. This measure does not include estimated construction to modify the system.	\$ 5,200	09_Energy	01 - High
East Library Energy	Demand Control Ventilation Corrections ? AHU-10	The CO2 sensors for the demand control ventilation do not appear to be functioning correctly. Recommend going through the demand control ventilation sequences and calibrating sensors to ensure AHU-10 is not oversupplying outside air that could significantly impact energy use. Recommend going through all air handling units with demand control ventilation. Recommend a mechanical engineer verify the proper ventilation minimums for the current design.	\$ 5,600	09_Energy	01 - High
East Library Energy	Night Setback Schedules - Facility	During the controls review the maintenance team reported that there was a lack of confidence in the night setback schedules operating properly. Recently the facilities were adjusted to normal operation from the COVID schedules which had all of the outside air dampers 100% open 24/7. Recommend verifying proper damper function for building pressurization, ventilation, schedules, and night setback mode. Recommend verifying proper setback temperatures according to the building schedule and night setback mode. Recommend making adjustments and corrections to the controls.	\$ 2,400	09_Energy	01 - High
East Library Energy	Space Temperature Corrections - VAVs	Some of the space temperatures were overshooting their setpoints. This could be due to a number of reasons. This condition impacts both energy and comfort. Recommend evaluating the VAV box sequence of operations, the AHU discharge air temperature reset controls, calibration of the boxes, and proper control inputs and outputs. This was specifically noted for AHU-11.	\$ 3,200	09_Energy	01 - High
East Library Energy	Update Controls Graphics - Facility	During the controls review some of the graphics screen values and point values appeared to either be incorrect, not have values, have improper values, or unexpected values. Some values appeared to be manually overridden and not in automatic mode of control. Recommend review current graphics and facility sequences of operation to ensure control points and graphics are operating properly, have proper setpoints, and appear visually	\$ 5,600	09_Energy	02 - Medium
Penrose (Carnegie) Library Energy	Update Controls Graphics - Facility	During the controls review some of the graphics screen values and point values appeared to either be incorrect, not have values, have improper values, or unexpected values. Some values appeared to be manually overridden and not in automatic mode of control. Recommend review current graphics and facility sequences of operation to ensure control points and graphics are operating properly, have proper setpoints, and appear visually	\$ 5,600	09_Energy	02 - Medium

Appendix E - Energy Assessment Findings

Facility	Energy Measure Name	Energy Measure Description2	Estimated Cost	Category	Priority
Penrose (Carnegie) Library Energy	Night Setback Schedules - Facility	During the controls review the maintenance team reported that there was a lack of confidence in the night setback schedules operating properly. Recently the facilities were adjusted to normal operation from the COVID schedules which had all of the outside air dampers 100% open 24/7. Recommend verifying proper damper function for building pressurization, ventilation, schedules, and night setback mode. Recommend verifying proper setback temperatures according to the building schedule and night setback mode. Recommend making adjustments and corrections to the controls.	\$ 2,400	09_Energy	01 - High
Penrose (Carnegie) Library Energy	Simultaneous Heating & Cooling & Economizer - AHU-2	AHU-2 is a cooling only unit with baseboard heat, recommend checking the sequence of operation for the following two conditions. The supply fan VFD was operating at 88% which is too high for the outside air temperature during the controls testing, and the chilled water valve was 100% open. This indicates issues with the sequence and possibly that the economizer is not working properly. Recommend verifying that simultaneous heating and cooling do not occur with the baseboard heat, this condition was not observed, however, it could be present.	\$ 3,200	09_Energy	01 - High
Penrose (Carnegie) Library Energy	Correct Operating Parameters ? RTU-2	RTU-2 and RTU-3 are supplemental HVAC units and run as required when the temperature is 4 degrees Fahrenheit above the setpoint temperature. RTU-2 was operating during the controls review; however, the chiller was off, and the outside air temperature was below 45 degrees. It would not be expected that this unit should be operational at this time. Recommend verifying the control sequence of the associated systems and equipment to prevent potential simultaneous heating and cooling. We would expect this unit to run in warmer weather.	\$ 2,400	09_Energy	01 - High
Penrose (Carnegie) Library Energy	Space Temperature Corrections ? AHUs & VAVs	Some of the space temperatures were overshooting their setpoints. This could be due to a number of reasons. This condition impacts both energy and comfort. Recommend evaluating the VAV box sequence of operations, the discharge air temperature reset controls, calibration of the boxes, and proper control inputs and outputs. It also appears the supply air temperature reset may not be working properly in combination with the economizer function of the AHUs. Recommend evaluating the economizer sequence to lower discharge air temperature when cooling is required, and the chiller is locked out. The chiller is locked out at temperatures below 45 degrees Fahrenheit.	\$ 8,400	09_Energy	01 - High
Penrose (Carnegie) Library Energy	Correct Garage Area HVAC ? MAU-1	Ventilation is not currently controlled in the enclosed garage. The CO sensor is not functioning properly, and the MAU is off during occupied hours. The exhaust fan serving the space is in manual override. Recommend reconfiguring the controls in this area for automatic operation and correcting any deficiencies. This measure is to further study the energy measure, paybacks, control sequences, and construction costs. This measure does not include estimated construction to modify the system. Recommend coordinating energy measures with replacement of systems or components based on lifecycle (age) when they are due for replacement. Consider energy recovery at the exhaust fan.	\$ 1,600	09_Energy	02 - Medium