Frederick Community College

Facilities Master Plan 2012-2022

Five Year Update – 2017-2022

January 18, 2017

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Executive Summary

Introduction

Frederick Community College continues to evaluate and enhance its Facilities Master Plan (FMP), which supports the College role and mission of developing a vision and long-range plan for College facilities that support teaching, learning, student success, and affordability.

The foundation of the plan is the collection, projection, and analysis of data, the identification of facility needs, and the development of recommendations to meet these needs over a 10-year period. This plan is the basis of programming and planning to guide the physical development of the College capital improvement projects to support student learning and success.

Guiding Principles

Provide **flexible learning** and social environments that support the needs of all 21st-century students.

Match **infrastructure and technology** needs with the College mission.

Optimize **operational efficiencies** through improved critical adjacencies and appropriate use of existing structures.

Create a **sustainable and safe campus** environment.

Promote an **accessible, pedestrian-friendly** campus.

Establish **visual continuity** across campus through landscape, architecture, and wayfinding.

Encourage **campus and community**.

Evaluate the **financial realities** of all recommendations.

Summary of Needs

Our updated Facilities Master Plan (2017-2022) reflects the facility needs of the College to support critical replacement of aging infrastructure, provide for relocation and growth of programs, and expand support services. Given the fiscal challenges that community colleges are facing, FCC decided not to meet these needs with new buildings that would require additional operational resources. Instead, the College will focus on revitalizing and repurposing its existing resources in order to provide more sustainable solutions to its facility needs. While this approach may be more challenging and require creative and innovative strategies, it will be more fiscally responsible and require the College to promote efficient operations. Through space management software, 25Live, the College will ensure maximum utilization and efficient use of existing space.

Renovations will be necessary to accommodate the needs of healthcare programs previously located at the Mount Airy College Center for Healthcare Education, that have been relocated back to the main FCC campus, as well as other allied health programs at FCC. These programs require specially designed learning environments that replicate current clinical workplaces.

Additionally, FCC anticipates the following facility needs and renovations:

FCC plans to create a "Welcome Center" and one-stop-shop for prospective and current students. The co-location and consolidation and services will allow a seamless approach to enrollment and learning support delivery.

Constructed in 1969, the Athletics Center presents several safety and ADA accessibility challenges, including the wooden retractable bleachers, which are original to the building. Therefore, it is critical that the facility is brought up to current life safety and ADA code compliance. A renovation of the existing building along with an addition would address the necessary life safety and ADA issues as well as provide additional general education classrooms, formal and informal student and team support spaces, improved locker room facilities, and faculty, staff, and coaching office areas.

FCC has developed a plan to replace mechanical infrastructure in our Central Plant that is nearing or has surpassed the end of its effective life cycle. To avoid a catastrophic failure of systems, FCC began equipment replacement in FY17 and will continue to phase the remaining improvements in over the next five years.

Planned Projects			
Project	Design	Construction	Furniture & Equipment
Reconfiguation – Jefferson Hall (Building J)	FY17/FY18	FY18	FY18
Renovation/Addition – Building E	FY18	FY19	FY19
Renovation – Annapolis Hall (Building A)	FY18	FY18	
Renovation/Addition – Linganore Hall (Building L)	FY19	FY20	FY20
Renovation/Addition – Athletics Center (Building D)	FY21	FY22	FY23
Renovation/Replacement – Central Plant		FY18-FY22	
Deferred Maintenance/Preventative Maintenance/ Life Safety Replacement		FY18-FY23	

Chapter 1
Overview of the Institution

Institutional Mission, Values, and Vision

Mission:

With teaching and learning as our primary focus, FCC prepares an increasingly diverse student body to complete their goals of workforce preparation, transfer, career development, and personal enrichment with quality, innovative lifelong learning. In traditional and alternative learning environments, we anticipate and respond to the needs of our local, regional, and global communities.

Values:

Learning: Lifelong acquisition of knowledge and skills

Innovation: Creative thinking and approaches that enhance learning and support continuous improvement

Diversity: Visible and invisible human differences that affect the success of students, staff, and members of the community

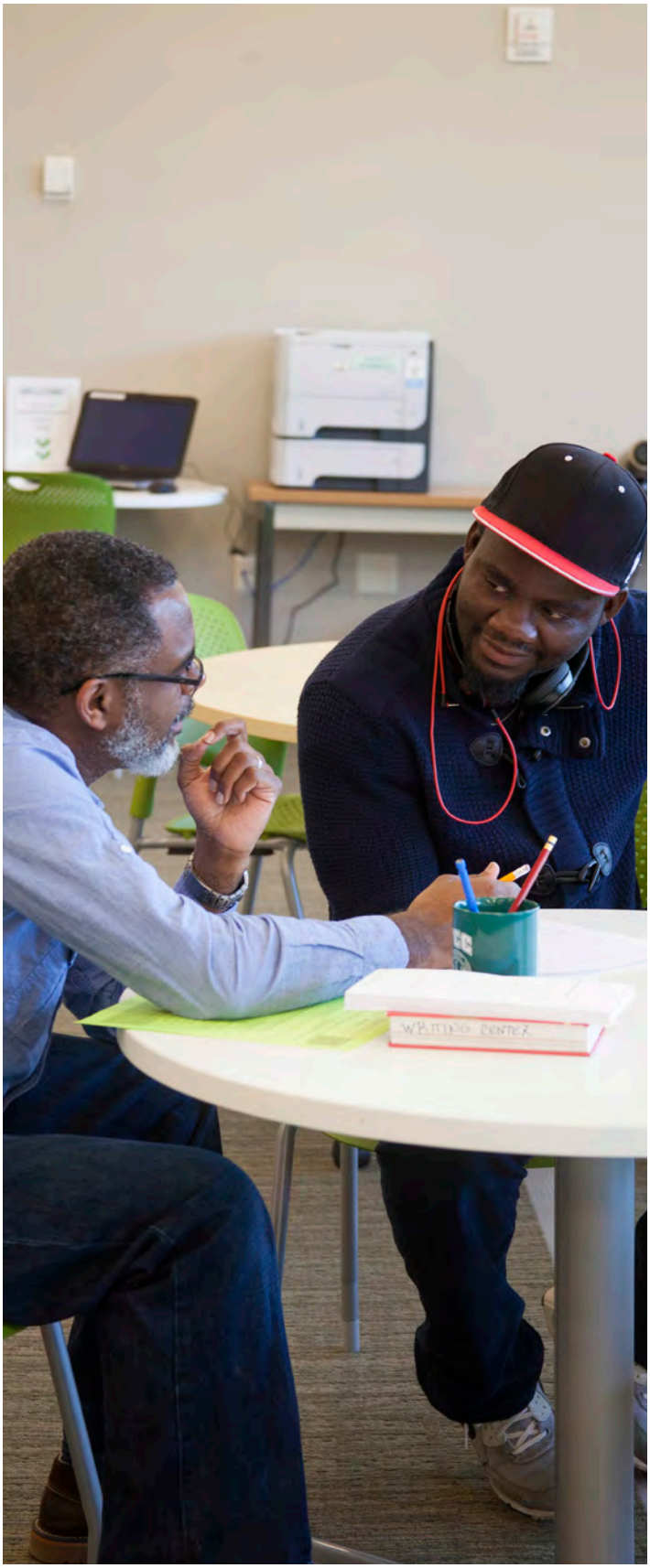
Excellence: Upholding high academic standards by providing a quality educational environment

Community: Encouraging the engagement of all internal and external stakeholders through communication and collaboration

Integrity: Fair and ethical standards in all policies, procedures, and practices

Vision:

We transform individuals and communities through learning.



Strategic Plan - FCC 2020

The College is guided by a five year, mission driven strategic plan. The current plan, FCC 2020, was created by framing the strategic goals around the Middle States Commission on Higher Education Standards of Excellence and used College-wide input to create objectives that foster continuous improvement on support of student success.

Goal 1 - Enhance student persistence, success, and completion through collaborative and effective support systems. (Standard IV)

1. Create a unified culture of persistence, success, and completion.
2. Develop and implement comprehensive orientation and mentoring programs.
3. Expand student access to and utilization of support services.
4. Develop and implement pathways for credit and non-credit students to easily navigate transition points.
5. Enhance communication strategies for students, faculty, and staff.

Goal 2 - Promote excellence in the design, delivery, and support of student learning. (Standard III)

1. Expand innovative instruction to increase student engagement and meet the demands of changing populations.
2. Design and support professional development that enhances student learning.
3. Develop and implement quality delivery standards and assessment protocols for each modality of instruction.
4. Increase student engagement by promoting the importance of co-curricular and extra-curricular events.
5. Expand systematic program review and assessment to all areas of College operations.

Goal 3 - Ensure fair and ethical standards in all policies, practices, and procedures throughout the College Community. (Standard II)

1. Establish an ongoing systematic review of all internal and external policies, practices, and procedures.
2. Implement a transparent communication plan for ensuring clarity of policies, practices, and procedures.
3. Develop and ensure transparency in employment practices.

Goal 4 - Prepare for the future through effective planning, resource development, and continuous institutional improvement that is aligned with the College mission. (Standard VI)

1. Establish priorities and identify current and anticipated resources.
2. Secure innovative and creative revenue sources through entrepreneurial efforts.
3. Design a systematic plan to align staffing needs with strategic priorities.

Goal 5 - Enhance access, support, and opportunities that meet the needs of diverse and changing populations. (Standard II)

1. Improve student recruitment efforts and employment practices to build the diversity and inclusiveness of our College.
2. Create targeted programs for emerging populations that address their specific needs and enhance student learning.
3. Implement strategies to increase and engage diverse and emerging populations.
4. Expand community outreach to secure resources for student support.

Goal 6 - Expand the leadership capacity of all employees through professional development to meet the challenges and opportunities for our College. (Standard VII)

1. Develop a plan that ensures continuity of campus operation.
2. Develop a systematic plan to provide opportunities for career growth.
3. Create professional development opportunities that improve job skills, leadership capabilities, and employee productivity.
4. Develop a sustainable program to mentor employees and acknowledge their contributions to the operation of the College.

Goal 7 - Clearly articulate a governance structure that is transparent and outlines roles, responsibilities, and accountability for decision making. (Standard VII)

1. Ensure that all job descriptions are current and representative of employees' responsibilities.
2. Maintain current organizational charts and make them accessible.
3. Develop a component for new employee orientation to ensure they understand their roles and responsibilities in the governance structure.

Goal 8 - Articulate career pathways for continuing education and credit students which enhance their ability to secure employment. (Standard III)

1. Align programs with current and future jobs.
2. Develop and implement a credit for prior learning structure which includes non-credit pathways.

Goal 9 - Increase access, affordability, and student goal completion. (Standard IV)

1. Enhance the college readiness of FCPS students by collaborating on early assessment, professional development, and the development of effective transition courses in Math and English.
2. Enhance collaborative efforts between local high schools and FCC to develop early college access through dual enrollment initiatives.
3. Improve the access, retention, and goal completion for adult learners.
4. Implement strategies that reduce the time to goal completion and make FCC more affordable.

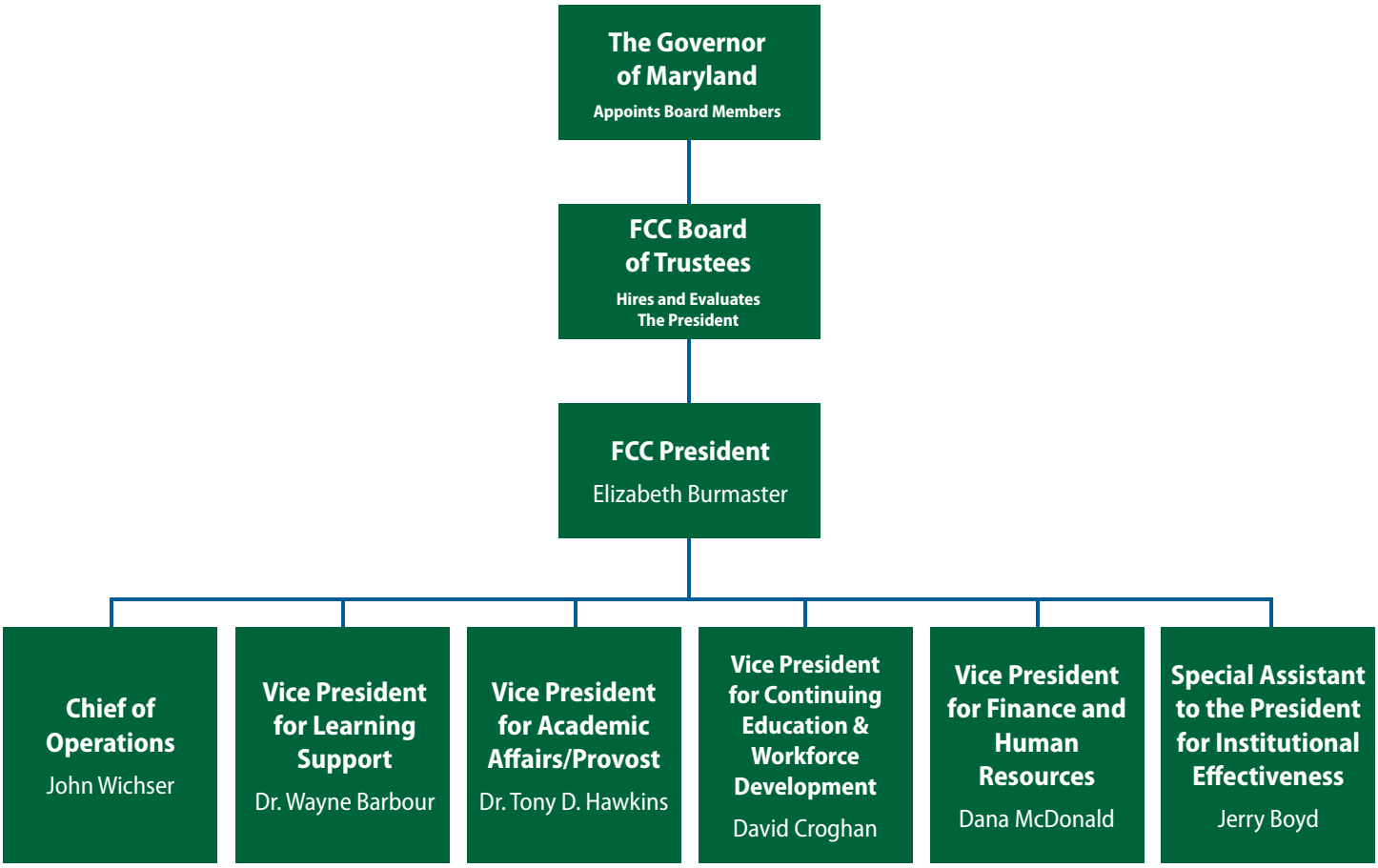
2016-2017 Annual Strategic Priorities

In order to keep the College focused on its mission, and to effectively meet the goals and objectives set forth in the College strategic plan FCC 2020, the Board of Trustees, at their annual retreat, work together with the President to develop a set of Annual Strategic Priorities (ASPs). The ASPs are distributed throughout the College community to support decision making, team planning, and Employee Development Plans for the upcoming fiscal year.

The 2016-2017 Annual Strategic Priorities set by the Board of Trustees at their July 30 Retreat are to:

- Design guided pathways for degrees, certificates, continuing education, and workforce development that maximize student access, student support, and affordability.
- Develop a vision and a long range plan for College facilities that focuses on preventive maintenance and upgrading the College infrastructure to support teaching, learning, student success, and affordability.
- Develop an enrollment management plan that grows revenue by at least 2% in order to mitigate tuition increases by addressing the J-term and summer term programming and scheduling.
- Empower leadership throughout the College community which promotes continuous institutional improvement and professional development. Strengthen the participation of affinity groups, SGA, and the Senate in operational practices in support of the achievement of the annual strategic priorities.
- Position FCC as a primary provider of workforce education and career pathways to employment in Frederick County.
- Build on the successful 2016 Middle States Accreditation Report by responding to its recommendations and by assimilating the recently updated College policies and procedures into the culture and operation of the College.

Institutional Structure



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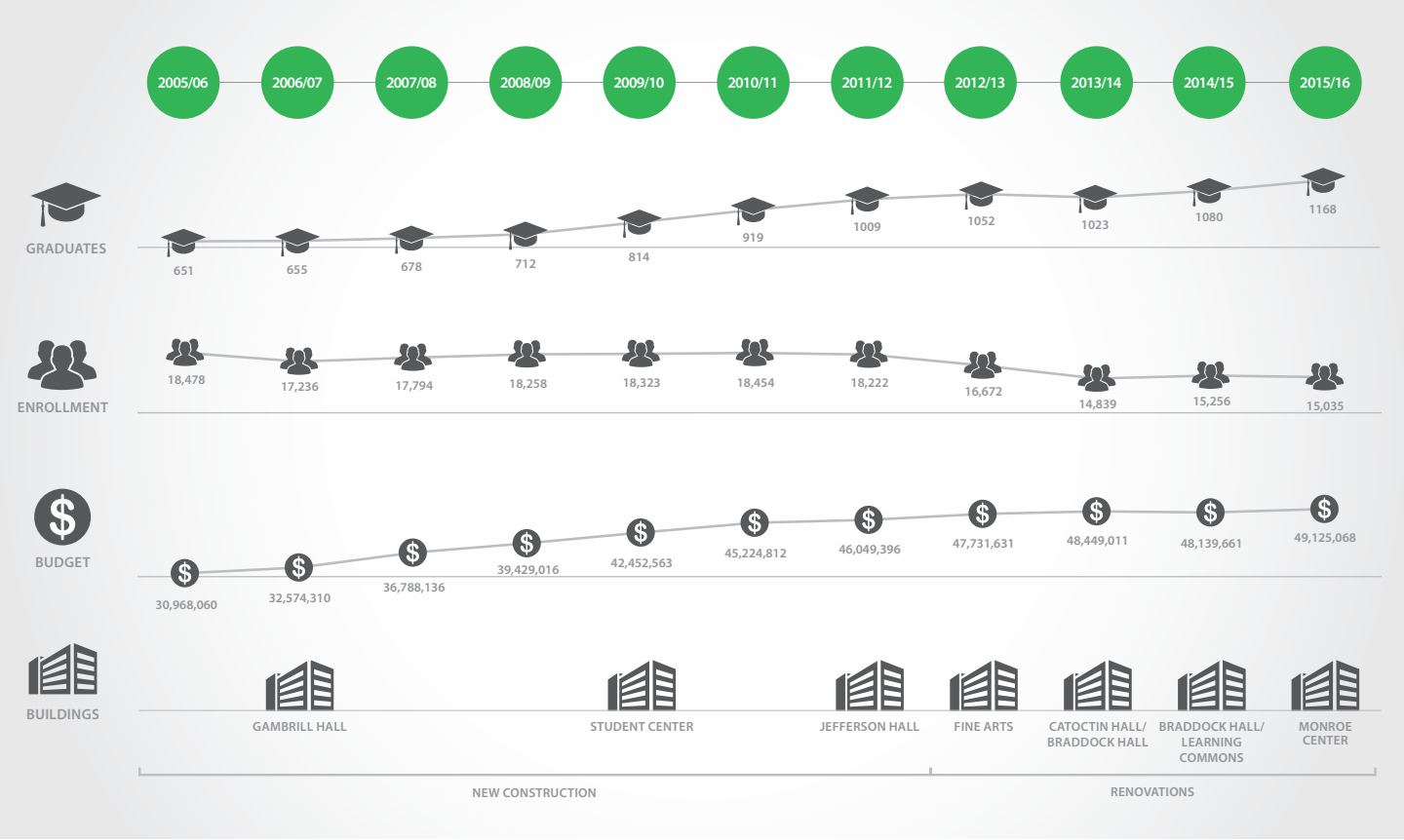
Kari Melvin - *Executive Associate to the President & Board of Trustees*

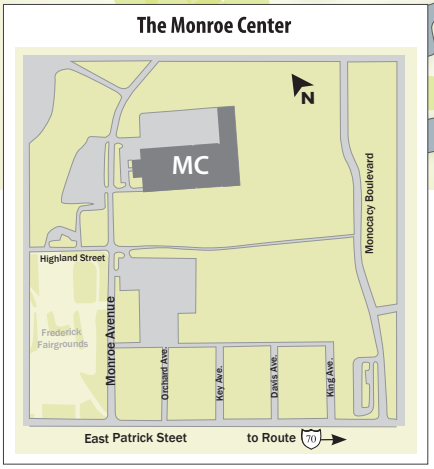
Overview

Frederick Community College (FCC) was founded in 1957 as an evening school. The College held its first classes at Frederick High School and moved, in 1966, to a facility on North Market Street. Finally, in 1970, it opened its current location on Opossumtown Pike. FCC is a comprehensive community college that serves the citizens of Frederick County on a 94-acre campus located in north Frederick City. Since its founding in 1957 as an evening school, the College has relied on its faculty as the foundation for providing student learning. The objectives of the Facilities Master Plan include developing and implementing standards for learning environments to help students to succeed in their goals.

Frederick Community College 2005-2016



Campus Map



Frederick Community College Building Legend

- A Annapolis Hall
- B Braddock Hall
- C Catoctin Hall
- D Athletics Center
- E Conference Center
- F Visual & Performing Arts Center
- G Gambrill Hall
- H Student Center
- J Jefferson Hall
- K Mercer-Akre Kiln
- L Linganore Hall
- M The Carl and Norma Miller Children's Center
- MC The Monroe Center
- P Plant Operations
- S Sweadner Hall

Facilities Assessment

The main FCC campus is 46 years old. The average age of its buildings is 28 years old. The age of most of the Central Plant equipment is 34 years old. As is the case with many campuses, the emphasis over the years has been to fund new buildings, believing these require less maintenance.

The current deferred maintenance capital renewal level has been attained by a lack of scheduling and increased maintenance levels as building and systems age. The second challenge facing FCC is pre-mature deferred maintenance expenditures for partial systems failures in Gambrill Hall (9 years old), the Student Center (7 years old), Jefferson Hall (5 years old) and The Carl and Norma Miller Children's Center (12 years old). The Monroe Center condominium (condo) is 46 years old. The upcoming renovation of the Monroe Center space will replace all of the condo interior spaces (except for the culinary program space) and replace all of the mechanical (HVAC), electrical panels and interior plumbing system and fixtures, and per the State funding requirements, meet a minimum of LEED Silver certification for sustainable construction/renovation. By higher education standards, FCC still enjoys being a relatively 'young' campus.

FCC facilities are reaching or have surpassed the 40-year mark which is considered an industry standard for end-of-useful-life. With the College campus and the Monroe Center condos both being 46 years old, most of the mechanical, electrical, and plumbing (MEP) systems are now beyond their useful life and are creating capital needs for replacement equipment. In addition, over the past 46 years, the following have changed or been updated: life safety codes, ADA codes, building system codes, energy use/efficiency codes, technology for all systems including building access, energy management systems, IT infrastructure and needs, instructional technologies, methods and business processes, work stations, and work practices.

FCC currently has 20 buildings, including the Parking Deck. Of the 20 buildings, eight are 46 years old while the remaining buildings range in age from three to 28 years old. A facility condition assessment of the campus buildings and site components was completed in January 2012 by EMG Corporation, an outside consultant.

The purpose of the assessment was to evaluate the physical aspects of the property and how its condition may affect financial decisions over time. The major independent building components were assessed and their physical conditions were evaluated in accordance with industry standards. These components include building exteriors, interior areas, and the site.

The physical condition of building systems and related components were defined as being in one of four conditions: very good, good, fair, or poor. The following definitions were used in the assessment:

Very Good - Satisfactory as-is. As new condition. Requires only routine maintenance over the evaluation period. Repair or replacement may be required due to a system's estimated useful life.

Good - Satisfactory as-is. Requires only routine maintenance over the evaluation period. Repair or replacement may be required due to a system's estimated useful life.

Fair - Satisfactory as-is. Repair or replacement is required due to current physical condition and/or estimated remaining useful life.

Poor - Immediate repair, replacement, or significant maintenance is required.

The buildings and site areas were evaluated to identify deficiencies that were considered to be deferred maintenance. This included proposed replacements for equipment that is at the end of life cycle, life safety upgrades, and repairs and upgrades to buildings systems, infrastructure, utilities, and grounds. The evaluation period identified in the final report was defined as 20 years.

An individual report was prepared for each building. Below is a general overall summary of the observations identified in the report.

General Summary

The exterior finishes are in good condition. Painting and patching will be required. The exterior doors and door hardware are in good to fair condition. The doors on some buildings require significant repair while others require routine maintenance. The ADA automatic openers are in good to fair condition. Based on their estimated Remaining Useful Life (RUL), most of the openers require replacement.

The metal sloped roofs are in good condition and will require routine maintenance over the evaluation period. The flat roof areas are in good to fair condition. There are some buildings that have been experiencing leaking in the roof and gutter systems. Emergency repairs have been made in theses area to alleviate the problems, but based on the estimated RUL, the roof membranes will require replacement over the evaluation period.

The interior finishes are in good to fair condition. Based on the estimated RUL, interior finishes such as carpeting, interior painting , wall finishes, and ceiling tiles will require replacement during the assessment period. The interior doors and door hardware are in good condition and will require routine maintenance during the evaluation period.

The interior building light fixtures are in good to fair condition. Routine maintenance will be required over the evaluation period. Converting from the current fluorescent fixtures to LED fixtures should be considered for better energy efficiency and long-term cost savings.

The fire sprinkler system is in good to poor condition. Some buildings require major replacements while others only require typical routine maintenance operations. The fire alarm system is in good to poor condition. In some buildings, based on the estimated RUL, and because replacement parts and components for this type of equipment may be obsolete, the alarm panel will require replacement during the evaluation period. Other buildings only require typical routine maintenance operations. The fire extinguishers are serviced annually and appear to be in good condition.

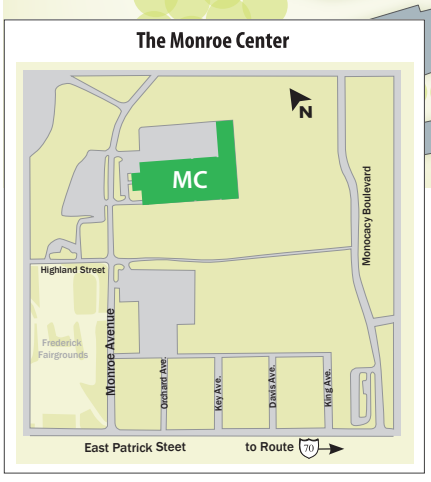
Facilities Inventory Report

Main Campus						
Site Bldg. #	Bldg. Name	Total GSF	Bldg. NASF	Year Constructed	Year Renovated	Replacement Value – 2017
1	Annapolis Hall - Building A	32,131	18,011	1970	1995	$10,348,100
2	Braddock Hall - Building B	34,592	18,401	1970	2015	$11,545,100
3	Catoctin Hall - Building C	54,290	28,383	1970	2014	$18,694,100
4	Athletics Center - Building D	35,872	23,124	1970	2000	$10,846,000
5	Central Plant - Building D	4,941	0	1970	2009	included in D above
6	Conference Center - Building E	22,939	13,586	1999		$7,215,000
7	Visual & Performing Arts Center - Building F	51,676	31,648	1988	2013	$17,139,700
8	Gambrill Hall - Building G	16,020	10,541	2007		$5,521,100
9	Student Center - Building H	76,987	50,312	2009		$25,424,300
10	Jefferson Hall - Building J	24,000	12,752	2012		$5,703,700
11	Mercer-Akre Kiln - Building K	960	897	2011		$213,700
12	Linganore Hall - Building L	54,014	38,156	1995	2015	$21,315,200
13	The Carl and Norma Miller Children's Center - Building M	8,572	6,349	1994	2004	$1,676,600
14	Plant Operations - Building P	4,920	3,494	1996		$743,300
15	Sweadner Hall - Building S	4,550	2,125	1970		$1,793,200
16	Portable Storage #1	712	675	1970		$66,900
17	Portable Storage #2	712	675	1970		$66,900
18	Athletic Storage Building	800	665	2004	2015	$214,800
19	Plant Operations Storage Building	1,008	800	1993		$90,900
20	Parking Deck	127,512		2013		$6,460,500
21	Outdoor Classroom #1	220	220	2015		$90,600
22	Outdoor Classroom #2	220	220	2015		$90,600
23	Property in the Open			1970		$1,916,000
CAMPUS TOTALS		**557,648**	**261,034**			**$147,176,300**

Off-Site Space						
Site Bldg #	Bldg. Name	Total GSF	Bldg. NASF	Year Constructed	Year Renovated	Replacement Value – 2017
1	The Monroe Center/AWTC	55,342	39,376	1970	2010	$13,445,300
OFF-SITE SPACE TOTALS		**55,342**	**39,376**			**$13,445,300**

GRAND TOTALS – ALL FACILITIES		**612,990**	**300,410**			**$160,621,600**

Campus Buildings by Function



Frederick Community College Building Legend

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- Academic Buildings
- Administrative Buildings
- Athletics Center
- Other

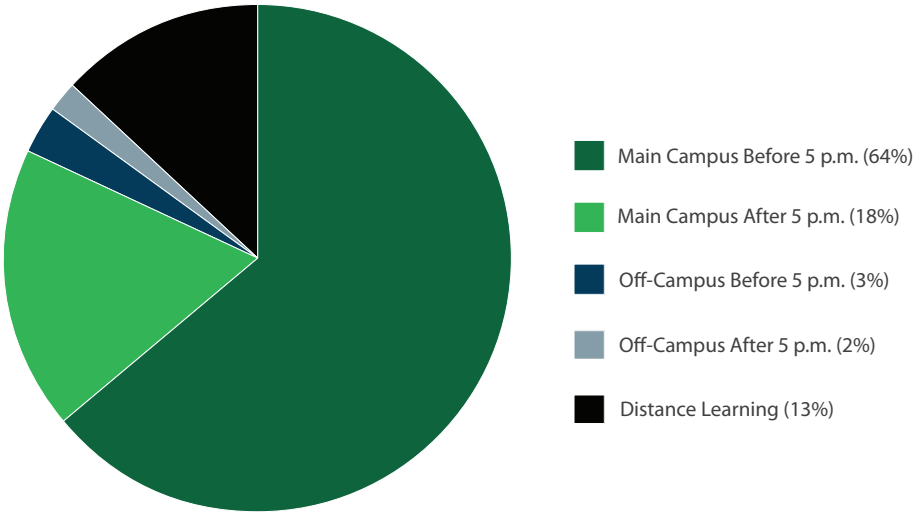
Internal Environmental Scan

Each year, more than 16,000 students take a diverse scope of courses at Frederick Community College at the main campus and the Monroe Center.

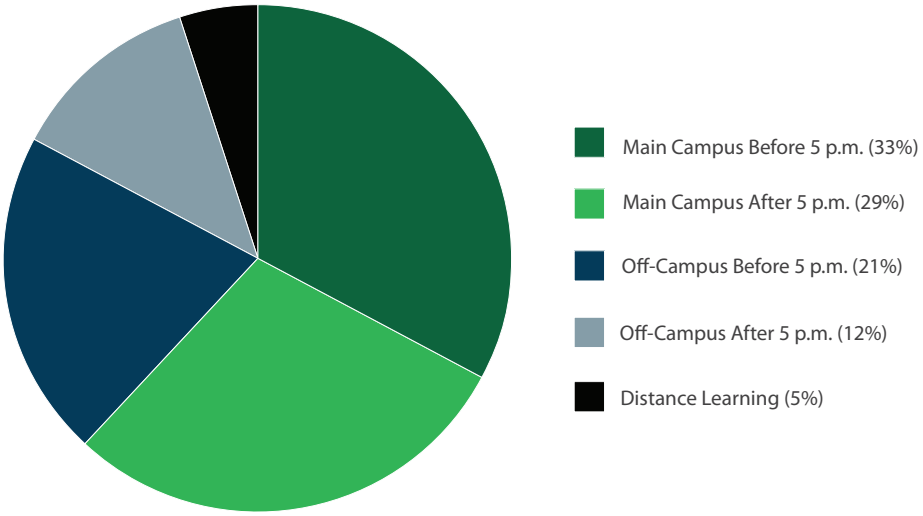
FCC offers affordable tuition, comprehensive courses, and convenient learning options for students of all ages. Our tuition and fees are about half of what they are at four-year public colleges in Maryland, and financial aid options help make learning more accessible for all students.

Our vast range of courses includes quality instruction in more than 85 degree and certificate programs as well as workforce training and continuing education to meet the needs and interests of all our community members. Our flexible course schedules feature weekday, evening, and weekend courses available year-round to credit and continuing education students. In addition, many FCC courses are available online as web-based alternatives.

Total Credit Full Time Equivalent (FTE) by Instruction Time



Eligible, Continuing Education FTE by Instruction Time First Period (July, August, September, October)



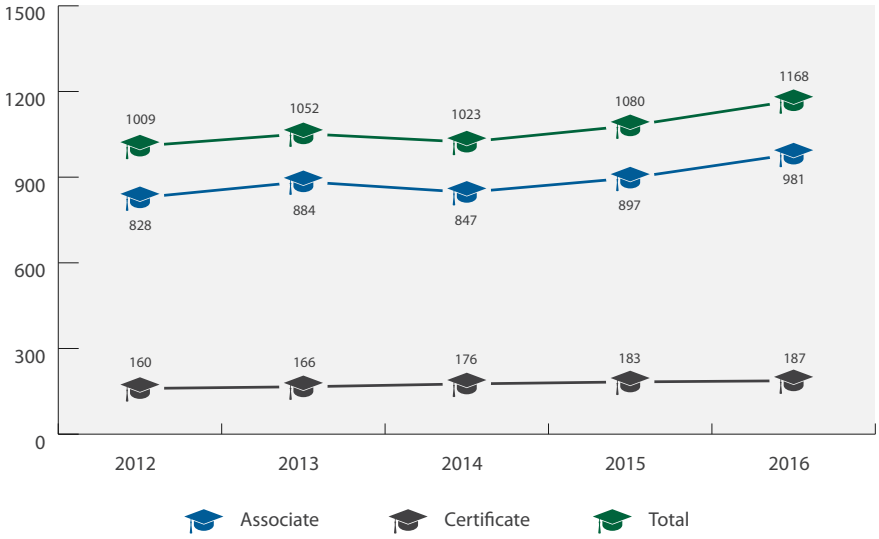
Student Success

In 2015, President Barack Obama announced America's College Promise, including focused expectations for community colleges.

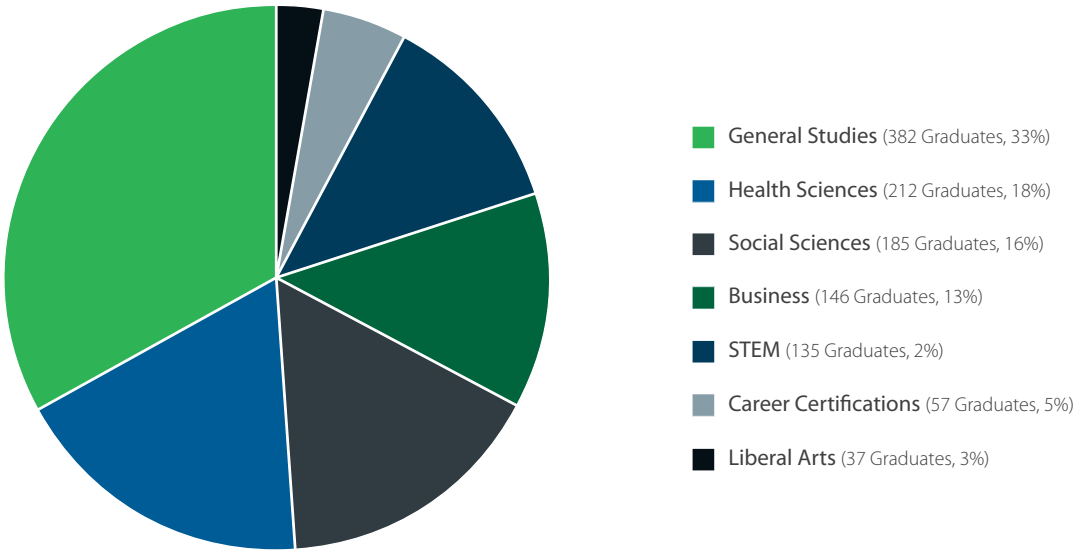
One of the initiatives was called Building High-Quality Community Colleges, where Community colleges will be expected to offer programs that either (1) are academic programs that fully transfer to local public four-year colleges and universities, giving students a chance to earn half of the credit they need for a four-year degree, or (2) are occupational training programs with high graduation rates and that lead to degrees and certificates that are in demand among employers.

FCC remains committed to offering prevalent academic and occupational programs and providing support so more students graduate with transferable credits and in-demand skills. As FCC graduation rates increase, more students from diverse learning areas become better prepared for continued academic or workforce success.

FCC Graduates by Year



FCC Graduates by Area of Study

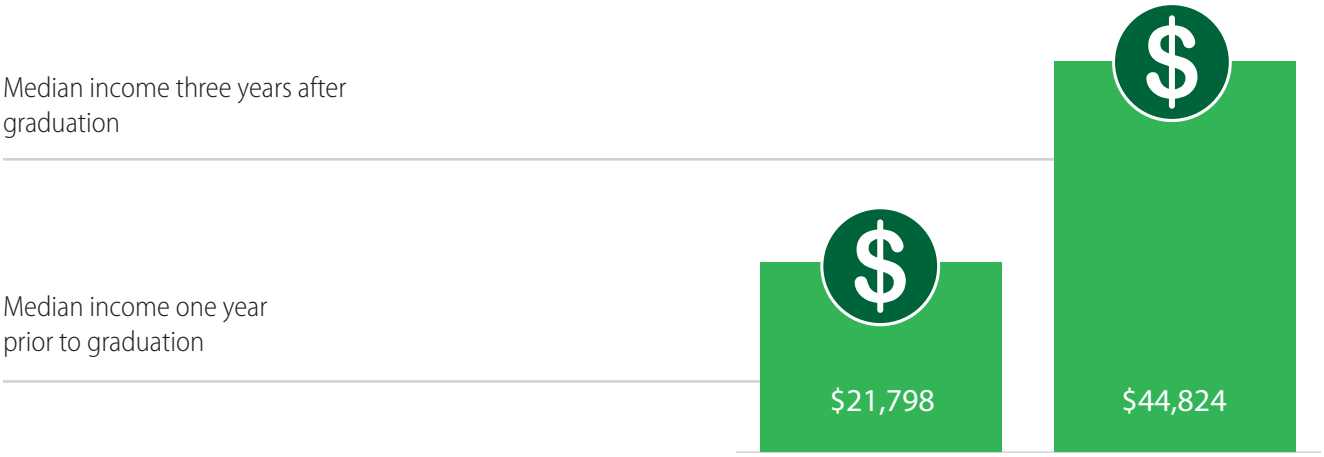


Wage growth of occupational program graduates

The median income of occupational program graduates increased 106% from $21,798 to $44,824 when comparing incomes one year prior to graduation and three years after graduation.

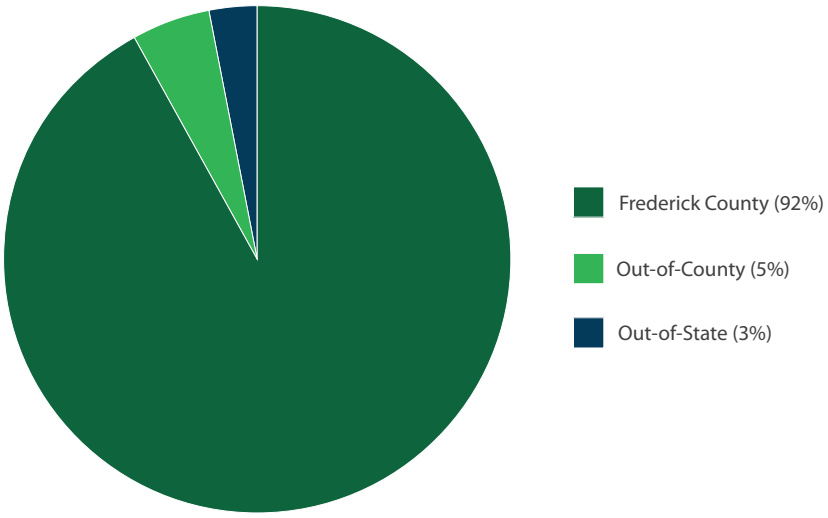
An independent analysis of the Economic Impact Study of Frederick Community College emphasized that FCC plays a significant role in the local economy and is a sound investment from multiple perspectives. Students benefit from improved lifestyles and increased earnings. Taxpayers benefit from a larger economy and lower social costs. Finally, the community as a whole benefits from increased job and investment opportunities, higher business revenues, greater availability of public funds, and an eased tax burden.

- Students enjoy a 16% rate of return on their investment in FCC.
- The Frederick County economy annually receives $31.3 million in income due to FCC operations.
- The total annual impact on Frederick County is $256 million.
- The total impact represents 2.8% of the total county economy and roughly 5,080 average wage jobs.
- State and local governments see an annual rate of return of 12.8% on their support for FCC.

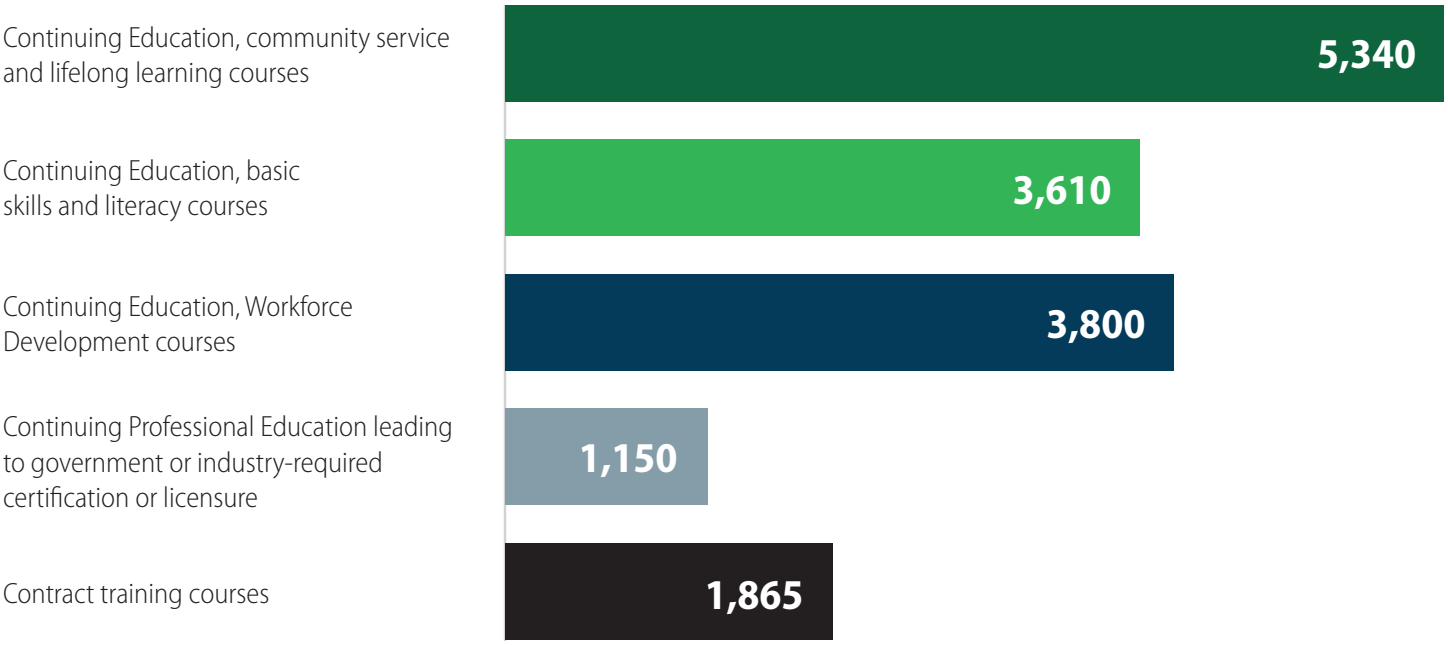


Fall 2016 Credit Students Residency

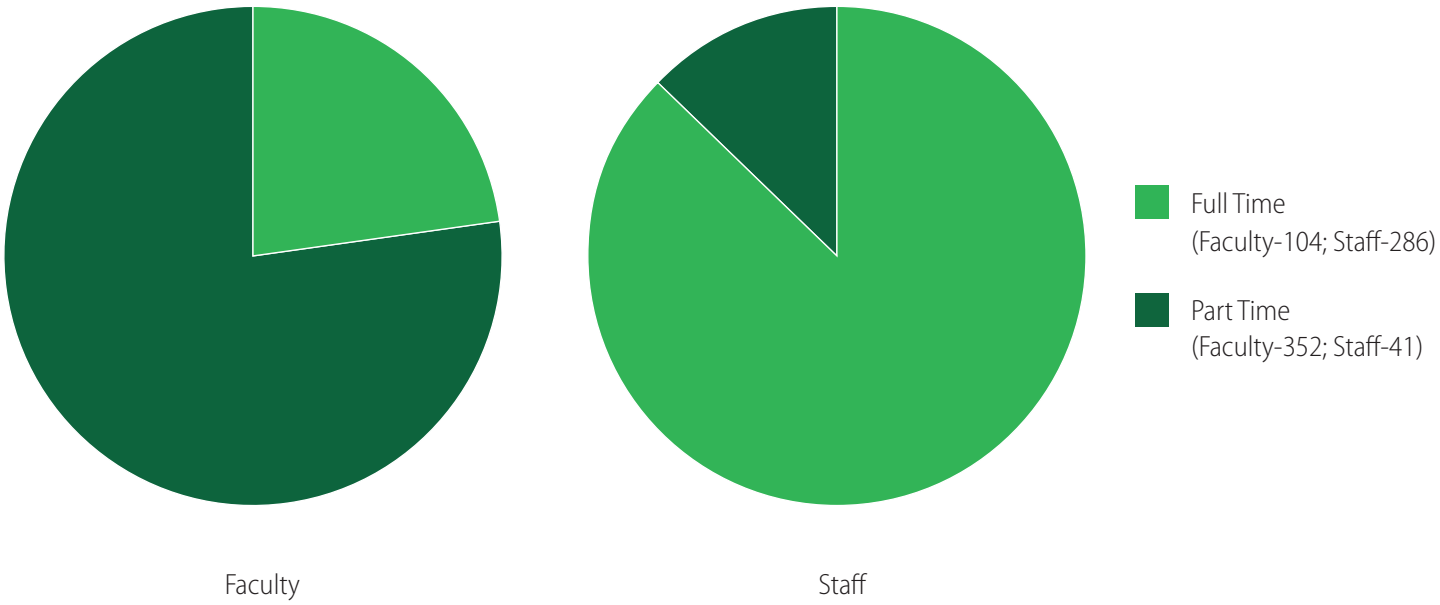
92% of FCC students reside in Frederick County and half of those students live in three major zip codes of 21701, 21702, and 21703.



Continuing Education & Workforce Development Annual Duplicated Headcount



Employees by Status



External Environmental Scan:

Frederick County

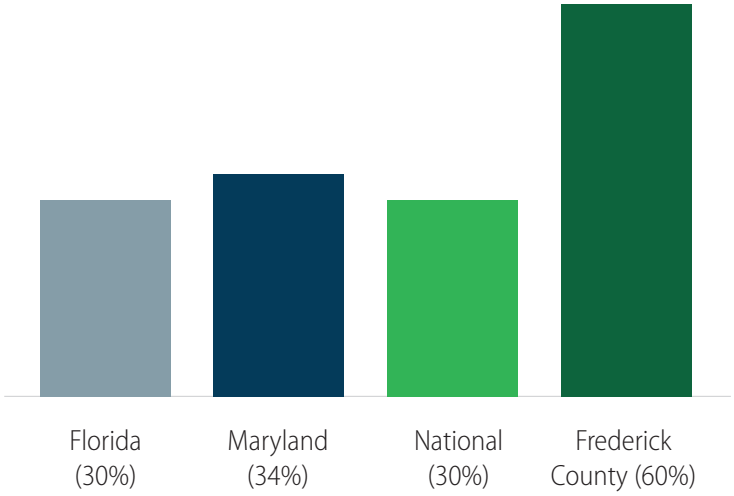
The purpose of the Environmental Scan is to review and assess current and projected trends that will influence Frederick Community College.

Fast Facts

- In 2016, *Southern Living* ranked Frederick 20th for "50 Best Places in the South Now."[1]
- The 2015 Frederick County Public Schools high school graduation rate is a high 93.5%, while our dropout rate is 3.5%, Maryland's second lowest.[2]
- 57% of residents also work in Frederick County.[4]
- Frederick County is Maryland's largest county in size (663 square miles).[3]

Frederick's Aging Population

Frederick County's workforce age population grew twice the rate of the U.S. between 1990 and 2010. The 65+ aging cohort is expected to grow twice as fast as the Nation.



Source: https://www.frederickcountymd.gov/stateofcounty

Frederick County population is projected to increase 18% by 2020 and an additional 15% by 2023. The rate of growth for the State of Maryland is much lower than Frederick County.

	Frederick County		Maryland	
	Population	% Change	Population	% Change
2000	195,277		5,296,486	
2010	238,700	22.2%	5,747,050	8.5%
2020	282,100	18.2%	6,122,925	6.5%
2030	325,600	15.4%	6362,100	3.9%

Source: https://frederickcountymd.gov/DocumentCenter/Home/View/1338

Sources:

1. *http://www.southernliving.com/travel/best-things-to-do-in-south/frederick-park-monet-painting-image*
2. *http://www.fcps.org/about/Fast-Facts.cfm*
3. *http://commerce.maryland.gov/Documents/ResearchDocument/FrederickBef.pdf*
4. *https://frederickcountymd.gov/DocumentCenter/Home/View/1338*

Frederick County

The median household annual income of Frederick County residents is $84,480 which is $10,000 more than Maryland residents and nearly $31,000 more than the U.S. average.

Income (2010-2014)

Households			
Distribution	Frederick County	Maryland	U.S.
Under $25,000	11.1%	15.4%	23.2%
$25,00 - $49,999	16.1%	17.9%	23.7%
$50,000 - $74,999	17.1%	17.2%	17.8%
$75,000 - $99,999	14.1%	13.4%	12.2%
$100,000 - $149,999	21.9%	18.1%	13.0%
$150,000 - $199,999	10.9%	8.9%	5.1%
$200,000 and over	8.8%	9.1%	5.0%
Median household	$84,480	$74,149	$53,482
Average household	$100,723	$97,135	$74,596
Per capita	$37,254	$36,670	$28,555
Total income (millions)	$8,789	$209,422	$8,668,940

Source: http://commerce.maryland.gov/Documents/ResearchDocument/FrederickBef.pdf

Schools and Colleges

Public and Nonpublic Schools	
60 Public Schools	
54 Nonpublic Schools	
Educational Attainment - Age 25 & over (2010-2014)	
High school graduate or higher	91.7%
Bachelor's degree or higher	38.8%

Source: http://commerce.maryland.gov/Documents/ResearchDocument/FrederickBef.pdf

Frederick County

Employers

Frederick County's 6,240 businesses employ 82,900 workers, and more than 120 of these businesses have 100 or more workers. Recent expansions include AstraZeneca with 300 jobs and a $200 million investment. The National Cancer Institute and Leidos recently completed the Frederick National Laboratory, with 330,000 SF of office and state-of-the-art lab space for cancer and AIDS research. In addition, expansion at Fort Detrick includes $71 million in current construction creating over 300 jobs through 2019. Fort Detrick is home to the National Biodefense Analysis and Countermeasures Center, as well as most of the nation's biological defense programs.[3]

Frederick County Top 10 Major Employers

	Employers	Employees
1	Fort Detrick	6,400
2	Leidos Biomedical Research	2,700
3	Frederick Memorial Healthcare System	2,232
4	Wells Fargo Home Mortgage	1,742
5	Frederick Community College	1,124
6	State Farm Insurance	832
7	Walmart/Sam's Club	814
8	United Healthcare	635
9	AstraZeneca	635
10	Lonza Walkersville	524

Source: http://commerce.maryland.gov/Documents/ResearchDocument/FrederickBef.pdf

Frederick Community College is the fifth top major employer in Frederick County and has 50% more employees compared to the other two higher education institutions in the county.

Higher Education Employers in Frederick County

Employers	Employees
Frederick Community College	1,124
Mount St. Mary's University	500
Hood College	427

Source: Frederick County Office of Economic Development and Maryland Department of Commerce, October 2015

Source:

3. http://commerce.maryland.gov/Documents/ResearchDocument/FrederickBef.pdf

Maryland

Maryland borders Washington, D.C., the nation's capital. Among the 50 states, Maryland ranks 42nd in size and 19th in population. Its median household income is the highest among the states. More than 90 percent of Maryland's six million residents live in the Washington-Baltimore-Arlington Combined Statistical Area.

The state's diversified economy is rooted in high technology and biosciences, as well as revitalized manufacturing and international trade. Transportation resources include the Port of Baltimore and the Baltimore/Washington International Thurgood Marshall Airport. Professional and technical workers constitute 28.3 percent of the state's work force–the highest concentration among states. Maryland ranks third among the states in educational attainment–38.2 percent of Maryland's population age 25 and older hold a bachelor's degree or higher.

Maryland's 166,000 businesses employ more than 2.1 million workers with an annual payroll of $115 billion; 3,270 businesses have 100 or more workers. Major employers include BAE Systems, CSC, First Data, General Motors, Hughes Network Systems, IBM, Johns Hopkins, Lockheed Martin, Marriott, McCormick, Northrop Grumman, Southwest Airlines, and Verizon. Significant technology companies include ATK, Battelle, BD Diagnostics, Firaxis, General Dynamics, GP Strategies, GSK, ITT, Leidos, Life Technologies, MedImmune, Raytheon, SafeNet, Textron Systems, and Thales.

Maryland has four Foreign-Trade Zones and 30 State Enterprise Zones.[1]

Major Employers (2015)

Employer	Product/ Service	Employment
Fort George G. Meade	Military installation	53,730
Univ. System of Maryland	Higher Education	38,490
Johns Hopkins University	Higher Education	30,910
Johns Hopkins Hospital and Health System	Hospitals; health services	28,150
Univ. of Md. Medical System	Hospitals; health services	26,450
Aberdeen Proving Ground	Military installation	22,800
National Inst. of Health	Federal agency	17,660
Joint Base Andrews Naval Air Facility Washington	Military installation	17,500
Walmart	Consumer goods	15,500
U.S. Social Security Admin.	Federal agency	14,350
U.S. Food and Drug Admin.	Federal agency	14,260
MedStar Health	Hospitals; health services	13,570
Giant Food	Groceries	12,070
Naval Support Activity Bethesda	Military installation	11,690
Naval Air Station Pax. River	Military installation	11,430
Northrop Grumman	Electronic systems	10,400
Marriott International	Food and lodging services	9,240
LifeBridge Health	Hospitals; health services	9,140
Verizon Maryland	Communications services	8,280
Lockheed Martin	Tech and engr. services	7,670
Genesis Healthcare	Nursing care	7,580
Target	Consumer goods	7,540
Safeway	Groceries	7,230
Home Depot	Home improve. products	7,020
United Parcel Service (UPS)	Mail and package delivery	7,000

Source: http://commerce.maryland.gov/Documents/ResearchDocument/BriefEconomicFactsMaryland.pdf

Source:

1. *http://commerce.maryland.gov/Documents/ResearchDocument/BriefEconomicFactsMaryland.pdf*

Maryland

Population and Households

	Households	Population	Average Annual Growth Rate (Population)
2000	1,980,859	5,296,486	-
2010	2,156,425	5,773,552	.9%
2015	2,247,775*	6,006,401	.4%
2020	2,360,125*	6,224,550*	.4%

*Projections

Source: http://commerce.maryland.gov/Documents/ResearchDocument/BriefEconomicFactsMaryland.pdf

Income (2010-2014)

Percent Households		
Distribution	Maryland	U.S.
Under $25,000	15.4	23.2
$25,00 - $49,999	17.9	23.7
$50,000 - $74,999	17.2	17.8
$75,000 - $99,999	13.4	12.2
$100,000 - $149,999	18.1	13.0
$150,000 - $199,999	8.9	5.1
$200,000 and over	9.1	5.0
Median household	$74,149	$53,482
Average household	$97,135	$74,596
Per capita	$36,670	$28,555
Total income (millions)	$209,422	$8,668,940

Source: http://commerce.maryland.gov/Documents/ResearchDocument/BriefEconomicFactsMaryland.pdf

Population Distribution (2015)

Age	Number	Percent
Under 5	369,035	6.1
5 - 19	1,134,444	18.9
20 - 44	2,003,311	33.4
45 - 64	1,650,040	27.5
65 and over	849,571	14.1
Total	6,006,401	100.0
Median Age		38.4 years

Source: http://commerce.maryland.gov/Documents/ResearchDocument/BriefEconomicFactsMaryland.pdf

Schools and Colleges

Educational Attainment – Age 25 & Over (2010-2014)	
High school graduate or higher	89.6%
Bachelor's degree or higher	38.2%
1,445 Public Schools	
1,423 Nonpublic Schools	

Source: http://commerce.maryland.gov/Documents/ResearchDocument/BriefEconomicFactsMaryland.pdf

Chapter 2
Institutional Background Data

Scheduling

The majority of on-campus classes take place between Monday and Thursday from 8 a.m. to 3 p.m., when 60%-65% classrooms are being utilized and 6 p.m. to 9 p.m., when 52%-54% of classrooms are being utilized. Classroom utilization drops 15% to 21% on Fridays and Saturdays.

The number of general classrooms has fluctuated as classrooms have been taken offline for construction projects and new ones have been built. This category includes all general-purpose classrooms as well as computer classrooms that serve multiple disciplines.

This data represents classroom utilization under old scheduling procedures, whereby academic departments "owned" individual classrooms and built their schedules accordingly. Beginning with the Spring 2017 term, Facilities Planning will make classroom assignments using 25Live, a scheduling program that employs a utilization-based algorithm to assign rooms. Under this new system, we anticipate a higher utilization rate beginning in 2017.

Utilization Log

General Classroom Utilization	Number of General Classrooms	Mon-Fri 8 a.m-9 p.m.	Mon-Thur 8 a.m.-3 p.m.	Mon-Thur 6 p.m.-9 p.m.	Fri 8 a.m.-3 p.m.	Sat 8 a.m.-3 p.m.
1st week Oct. 2015	68	47%	65%	54%	21%	20%
1st week Mar. 2016	71	43%	60%	52%	15%	21%
1st week Oct. 2016	74	41%	64%	51%	15%	18%

Technology Strategic Plan

Overview

The College-wide strategic technology plan provides a comprehensive and inclusive framework for planning, funding, and communicating the long-term technology goals of the College. This plan addresses many factors, the most prominent being the increased integration and dependency upon technology for daily operational functions.

Emerging technologies such as mobile devices, cloud computing, and virtualization will continue to drive change in teaching and learning, while upgrades to administrative systems will continue to support efficiencies and improvements to business processes.

Balancing the benefits and risks offered through the application of technology to the teaching, learning, and business processes of the College is a prime concern. Security, access, privacy, and cost remain key drivers behind the effort to develop a purposeful and collaborative College-wide strategic technology plan.

Technology Vision and Mission Statements

Technology Mission

FCC will use technology in a proactive and effective manner to support, enhance, and transform the College teaching and learning practices, business processes, and environmental initiatives, as well as the delivery of technology services to students, faculty, and staff.

Technology Vision

FCC will be recognized as an innovative and collaborative leader in the application of technology resources, processes, and services in a fiscally responsible manner.

Technology Committee

The Technology Advisory Committee (TAC) was commissioned by the President to build on the work of a prior committee. The committee's charter is to ensure cross-functional collaboration related to technology decision making.

Technology Advisory Committee Members

- Roseann Abdu, Finance
- Chad Adero, Counseling and Advising
- Jane Beatty, Student Finance
- William Buckley, Social Sciences
- Frederick Cope, English
- Brenda Dayhoff, Financial Aid
- Marcia Dean, Counseling and Advising
- Kimberly Duncan, Adult Basic Education
- Marc Frankenberry, Science
- Kathi Groover, Continuing Education
- William (Bill) Grutzkuhn, Fiscal Services
- James Hatch, Computing & Business Technology
- Lisa Hawkins, Computing & Business Technology
- Bryan Hiatt, English
- Jurgen Hilke, Distributed Learning
- Stephanie Hurd, Continuing Education
- Wayne Keller, Information Technology
- Angela Ludeman, Finance
- Michael Marshall, Information Technology
- Colleen McKnight, Center for Teaching and Learning
- John Papparazzo, Continuing Education
- Charles Pham, Marketing
- Ana Maria Pinzon, Communications, Humanities, and Arts
- Karen Santelli, Communication, Humanities, and Arts
- Frank Seidel, Computing & Business Technology
- Lisa Sheirer, Communication, Humanities, and Arts
- Sharon Smith, Science
- Danielle Stoffer, Continuing Education
- Kelly Trigger, Center for Teaching and Learning
- Bryan Valko, Instructional Services
- Deirdre Weilminster, Registration
- Dina Yagodich, Mathematics

Strategic Technology Plan Development Members

- James Hatch, Computing and Business Technology
- Lisa Hawkins, Computing and Business Technology
- Jurgen Hilke, Distributed Learning
- Doree Lynn Miles, Computing and Business Technology
- Cheryl Schnebly, Center for Teaching and Learning
- Bryan Valko, Instructional Services
- Karen A. Wilson, Computing and Business Technology
- Dina Yagodich, Mathematics

Technology Goals

The Strategic Technology Plan for 2015-2020 was created by the Technology Advisory Committee (TAC) in May 2015 and later revised in October 2015 to support the new Strategic Plan of the College, FCC 2020. The Plan, approved by the Senior Leadership Team, was presented to the Board of Trustees on November 18, 2015.

The following goals provide a strategic framework that will assist IT staff as they partner with various campus teams and both internal and external entities to envision, plan, identify resources and budgets, prioritize, and implement technology initiatives.

A. Secure network and systems to protect College resources from the ever-increasing sophistication of threats, both locally and globally.

1. Address password security and internet based attacks through user training.
2. Protect computers from malware, spyware, and viruses.
3. Implement application controls to prevent data loss.
4. Continually upgrade and expand security appliances to protect the environment.

B. Implement innovative instructional technologies in physical and virtual learning spaces to transform student learning and engagement.

1. Enhance classrooms with state-of-the art technologies which promote flexible learning environments.
2. Evaluate and implement online tools, systems, and resources which increase online instructional capacity, make delivery of instruction more effective, and provide continuity of learning.
3. Develop and implement faculty professional development opportunities that promote optimal use of instructional technologies and design best practices.

C. Upgrade infrastructure to stay current with evolving technological advancements in order to fully support increasing student, faculty, and staff needs.

1. Provide the necessary resources to implement the technology replacement plan.
2. Migrate from a wired to wireless environment in order to support the growing demand of mobile users.
3. Increase the use of modular technology and classroom design to better support emerging trends in teaching pedagogy.

D. Continuously upgrade software applications, utilizing cloud technology where applicable, to meet the current and future needs of the College.

1. Stay current by deploying PeopleSoft maintenance packs, bundles, and patches to provide users with the latest features while ensuring that support agreements can be met.
2. Provide additional tools for decision makers to analyze data.

3. Review the current Learning Management System to ensure the College is using the most appropriate and cost-effective tool to enhance student learning.
4. Develop student mobile applications that will provide access to PeopleSoft self- service modules and other useful College information.

E. Advance the level of IT customer support services to assist users to better utilize technology.

1. Migrate from the current heavy dependence on Personal Computers (PC) for desktop computing to thin clients enabling better support at lower costs.
2. Increase the level of IT professional development to better support the user community.
3. Offer additional technical skill development opportunities for faculty and staff to increase productivity.
4. Deliver documentation on all aspects of technology that the user community requires.
5. Provide innovative technology in the classroom to enrich and transform teaching and learning.
6. Expand the number open computer spaces to ensure that all students have access to computer resources.

F. Continually evolve the website to attract future students and engage the campus community.

1. Regularly update the navigation and design to keep current with web development trends.
2. Ensure the website meets accessibility and compliance standards to provide access to all students using online resources.

G. Implement an effective archival solution and provide redundant systems to minimize disruption of services during a disaster.

1. Transition from traditional tape backups to cloud and hybrid backup and develop recovery plans to offer secure, nonstop data protection.
2. Establish a disaster recovery hot site to replicate the production environment allowing immediate cutover in event of a disaster on campus.

H. Evaluate and streamline business processes to increase operational efficiency and productivity.

1. Improve business processes by analyzing and developing the use of College enterprise and internal web-based applications.
2. Provide technical training to enable users to fully utilize the capabilities of College systems and applications.
3. Improve the cost effectiveness of providing equipment and services to the College by analyzing IT acquisition and purchasing processes.

Alignment with FCC's Strategic Goals

IT strategies support the eight goals of Frederick Community College Strategic Plan (FCC 2020):

Institutional Goals	Where IT Helps...*to accomplish the goal*
FCC Goal 1 – Enhance student persistence, success, and completion through collaborative and effective support systems. (Standard IV) 1. Create a unified culture of persistence, success, and completion. 2. Develop and implement comprehensive orientation and mentoring programs. 3. Expand student access to and utilization of support services. 4. Develop and implement pathways for credit and non-credit students to easily navigate transition points. 5. Enhance communication strategies for students, faculty, and staff.	Goal B. Implement innovative instructional technologies in physical and virtual learning spaces to transform student learning and engagement. Goal C. Upgrade infrastructure to stay current with evolving technological advancements in order to fully support increasing student, faculty, and staff needs.

Institutional Goals	Where IT Helps...*to accomplish the goal*
FCC Goal 2 – Promote excellence in the design, delivery, and support of student learning. (Standard III) 1. Expand innovative instruction to increase student engagement and meet the demands of changing populations. 2. Design and support professional development that enhances student learning. 3. Develop and implement quality delivery standards and assessment protocols for each modality of instruction. 4. Increase student engagement by promoting the importance of co-curricular and extra- curricular events. 5. Expand systematic program review and assessment to all areas of College operations.	Goal B. Implement innovative instructional technologies in physical and virtual learning spaces to transform student learning and engagement.

Institutional Goals	Where IT Helps...*to accomplish the goal*
FCC Goal 3 – Ensure fair and ethical standards in all policies, practices, and procedures throughout the College Community. (Standard II) 1. Establish an ongoing systematic review of all internal and external policies, practices, and procedures. 2. Implement a transparent communication plan for ensuring clarity of policies, practices, and procedures. 3. Develop and ensure transparency in employment practices.	Goal F. Continually evolve the website to attract future students and engage the campus community. Goal H. Evaluate and streamline business processes to increase operational efficiency and productivity.

Institutional Goals	Where IT Helps...*to accomplish the goal*
FCC Goal 4 – Prepare for the future through effective planning, resource development, and continuous institutional improvement that is aligned with the College mission. (Standard VI) 1. Establish priorities and identify current and anticipated resources. 2. Secure innovative and creative revenue sources through entrepreneurial efforts. 3. Design a systematic plan to align staffing needs with strategic priorities.	Goal A. Secure network and systems to protect College resources from the ever-increasing sophistication of threats, both locally and globally. Goal D. Continuously upgrade software applications, utilizing cloud technology where applicable, to meet the current and future needs of the College.

Institutional Goals	Where IT Helps...*to accomplish the goal*
FCC Goal 5 – Enhance access, support, and opportunities that meet the needs of diverse and changing populations. (Standard II) 1. Improve student recruitment efforts and employment practices to build the diversity and inclusiveness of our College. 2. Create targeted programs for emerging populations that address their specific needs and enhance student learning. 3. Implement strategies to increase and engage diverse and emerging populations. 4. Expand community outreach to secure resources for student support.	Goal B. Implement innovative instructional technologies in physical and virtual learning spaces to transform student learning and engagement. Goal C. Upgrade infrastructure to stay current with evolving technological advancements in order to fully support increasing student, faculty, and staff needs.

Institutional Goals	Where IT Helps...*to accomplish the goal*
FCC Goal 6 – Expand the leadership capacity of all employees through professional development to meet the challenges and opportunities for our College. (Standard VII) 1. Develop a plan that ensures continuity of campus operation. 2. Develop a systematic plan to provide opportunities for career growth. 3. Create professional development opportunities that improve job skills, leadership capabilities, and employee productivity. 4. Develop a sustainable program to mentor employees and acknowledge their contributions to the operation of the College.	Goal E. Advance the level of IT customer support services to assist users to better utilize technology.

Institutional Goals	Where IT Helps...*to accomplish the goal*
FCC Goal 7 – Clearly articulate a governance structure that is transparent and outlines roles, responsibilities, and accountability for decision making. (Standard VII) 1. Ensure that all job descriptions are current and representative of employees' responsibilities. 2. Maintain current organizational charts and make them accessible. 3. Develop a component for new employee orientation to ensure they understand their roles and responsibilities in the governance structure.	Goal D. Continuously upgrade software applications, utilizing cloud technology where applicable, to meet the current and future needs of the College.

Institutional Goals	Where IT Helps...*to accomplish the goal*
FCC Goal 8 – Articulate career pathways for continuing education and credit students which enhance their ability to secure employment. (Standard III) 1. Align programs with current and future jobs. 2. Develop and implement a credit for prior learning structure which includes noncredit pathways.	Goal E. Advance the level of IT customer support services to assist users to better utilize technology.

Institutional Goals	Where IT Helps...*to accomplish the goal*
FCC Goal 9 – Increase access, affordability, and student goal completion. (Standard IV) 1. Enhance the College readiness of FCPS students by collaborating on early assessment, professional development, and the development of effective transition courses in Math and English. 2. Enhance collaborative efforts between local high schools and FCC to develop early College access through dual enrollment initiatives. 3. Improve the access, retention, and goal completion for adult learners. 4. Implement strategies that reduce the time to goal completion and make FCC more affordable.	Goal H. Evaluate and streamline business processes to increase operational efficiency and productivity.

Chapter 3
Institutional Evaluation

Site Assessment

The main campus of the College is situated on approximately 95 acres. The campus is comprised of 20 buildings (including the parking garage), 9 surface parking lots, and a loop road for vehicular traffic, numerous sidewalks, a walking path, four athletic fields, and tennis courts.

Frederick Community College Building Legend

- A Annapolis Hall
- B Braddock Hall
- C Catoctin Hall
- D Athletics Center
- E Conference Center
- F Visual & Performing Arts Center
- G Gambrill Hall
- H Student Center
- J Jefferson Hall
- K Mercer-Akre Kiln
- L Linganore Hall
- M The Carl and Norma Miller Children's Center
- MC The Monroe Center
- P Plant Operations
- S Sweadner Hall

- Pedestrian Circulation
- Vehicular Circulation
- Parking Areas
- Buildings
- Athletic Fields

Vehicular Circulation

The campus has a simplified perimeter roadway interconnecting the buildings and the two entrances off of Opossumtown Pike. In general, the transportation and parking plan has an outer roadway encompassing the majority of the buildings and parking. Most of the parking encircles the academic areas which minimizes pedestrian/vehicle conflicts.

The perimeter roadway is approximately one mile long and 24 feet wide with additional service loops for passenger drop-off, loading docks, and maintenance services.

Frederick Community College Parking Lot Count

	General	Staff	HC	Total
Visitor Lot	49	3	3	55
Lot #1	120	7	7	134
Staff Lot	0	82	1	83
Drop Off Area	1	0	2	3
Lot #2	51	0	0	51
Lot #3	63	0	6	69
Lot #5	168	43	9	220
The Carl and Norma Miller Children's Center	10	0	1	11
Lot #4	93	0	1	94
Lot #6	102	12	2	116
Lot #7	119	0	2	121
Lot #8	138	0	0	138
Staff	0	85	7	92
Lot #9	456	23	9	488
Parking Deck	336	1	8	345
Total Parking Spaces	**1706**	**256**	**58**	**2020**

Utilities/Infrastructure

Domestic Water

The campus is currently served by an eight-inch water line supplied by the City of Frederick.

The line enters the campus from Opossumtown Pike at the main entrance, which is the terminus of the line extending north from the city. An additional 12-inch line from the city approaches the campus from the west (Fort Detrick) and was connected to the campus in 1999. At that time, the new line was connected in a manner to create a continuous loop around the campus. The addition of this high pressure water line has eliminated water pressure problems on campus and should serve the College for the foreseeable future.

Hot and Chilled Water

Heating and air conditioning water is delivered via underground insulated piping supplied from the Central Plant located on the north wing of the Athletics Center. Capacity exists for planned short term future development. The Plant is served by two 450-ton heat-reclaim centrifugal electric chillers. Heat is supplied by three boilers - two 180 ton gas/oil fired low-pressure boilers with computer-controlled high efficiency burners and a smaller 2.8 million BTU gas fired boiler also under computer management.

Electric Power Distribution

Electric power is supplied by the Allegany Power Company's local division, formerly Potomac Electric Power Company. In 1988, the College upgraded the entire system with modern, above-ground transformers. The system is now owned by Allegany Power. Individual buildings on the campus are metered.

Sewer and Storm Water Utilities

A storm water management facility was constructed in 1994 and major upgrades were carried out to both the sewer lines and underground storm water lines and structures on campus. At that time, the underground utility expansion plan was developed. The recently implemented storm water management code, among other requirements calls for several smaller retention areas as opposed to a single large pond.

Chapter 4
Facilities Master Plan Proposal

Proposals

Frederick Community College is pleased to submit our updated Facilities Master Plan (2017-2022). The plan reflects the facility needs of the College to support critical replacement of aging infrastructure, provide for relocation and growth of programs, and expand support services. Given the fiscal challenges that community colleges are facing, FCC decided not to meet these needs with new buildings that would require additional operational resources. Instead, the College will focus on revitalizing and repurposing its existing resources in order to provide more sustainable solutions to its facility needs. While this approach may be more challenging and require creative and innovative strategies, it will be more fiscally responsible and require the College to promote efficient operations. Through space management software, 25Live, the College will ensure maximum utilization and efficient use of existing space.

It should also be noted that the Mount Airy College Center for Healthcare Education, which was a partnership between FCC and two other community colleges, has been closed. Therefore, FCC healthcare programs previously located at Mt. Airy have been relocated back to the main FCC campus. Renovations will be necessary to accommodate the needs of these programs, as well as the other allied health programs at FCC. The existing allied health programs require specially designed learning environments that should replicate current clinical workplaces.

Additionally, FCC anticipates the following facility needs and renovations:

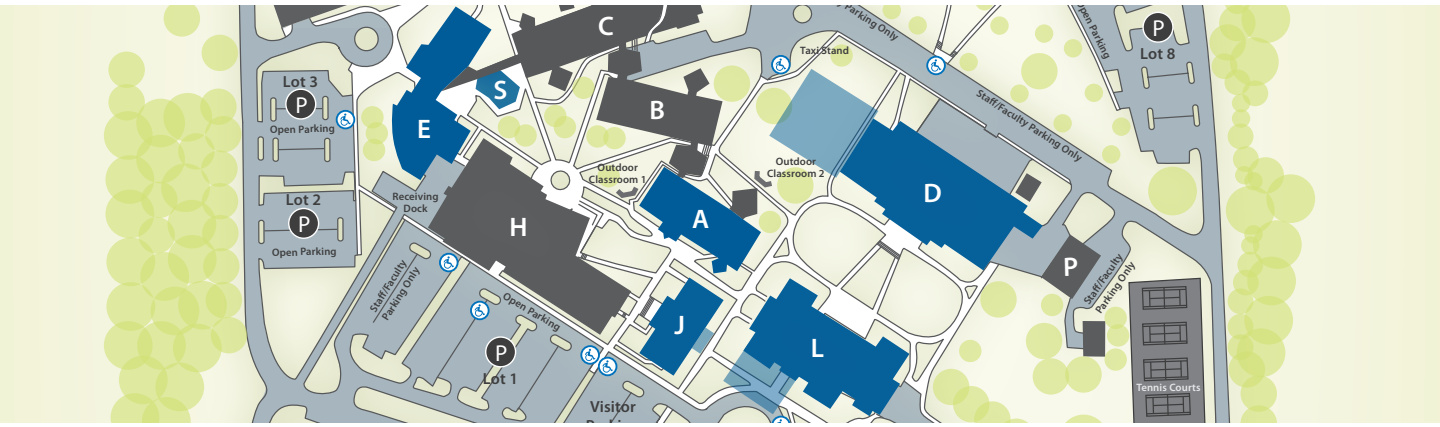
Consolidate Learning Support services to create a more efficient and cost effective Welcome Center and one-stop shop for current and prospective students. The functional enhancement of the space, the co-location and consolidation of services as well as a visual connectivity and ease of access to other necessary Learning Support spaces would create a seamless approach to enrollment and learning support delivery.

Constructed in 1969, the Athletics Center presents several safety and ADA accessibility challenges. The wooden retractable bleachers and main interior spaces are original to the building making them unsafe and non-ADA compliant. As the largest gathering space on campus, and the only campus venue that can accommodate more than 410 people for an event, the space is used for Commencement, intercollegiate sports, and many community events. It is critical that the facility is brought up to current life safety and ADA code compliance. A renovation of the existing building along with an addition would address the necessary life safety and ADA issues as well as provide additional general education classrooms, formal and informal student and team support spaces, improved locker room facilities, and faculty, staff, and coaching office areas.

FCC foresees a major replacement of the life safety systems (fire alarms and sprinklers) as a top priority. Many fire panels are obsolete, configuration of the system does not allow for the isolation of all buildings, strobes do not synch properly, and communication systems are unreliable.

Other priorities identified include several roof repairs/ replacements; elevator cab and equipment upgrades in various buildings; site repair; maintenance and improvements of walkways; parking lots and roadways; mechanical/electrical/ plumbing systems upgrades including a need for new campus door access software; hardware and a new energy management controls software system with corresponding hardware; exterior building door and window replacements and façade maintenance; other deferred maintenance backlog items and ongoing miscellaneous renovations that support ever changing needs created by academic programs; changing program enrollments; program changes; and enhancing student learning and support spaces as well as administrative spaces

FCC has developed a plan to replace mechanical infrastructure in our Central Plant that is nearing or has surpassed the end of its effective life cycle. To avoid a catastrophic failure of systems, FCC began equipment replacement in FY17 and will continue to phase the remaining improvements in over the next five years.



Existing buildings | Existing buildings with proposed renovations | Proposed addition to existing buildings

Near-Term Projects (2017-2022)

Jefferson Hall (Building J) – Reconfiguration
$1,805,000 – The reconfiguration of the first floor and minor modifications to the second and third floors would consolidate Learning Support services to create a more efficient and cost effective Welcome Center and one-stop shop for current and prospective students. The functional enhancement of the space and the co-location and consolidation of services, as well as a visual connectivity and ease of access to other necessary Learning Support spaces, such as the Testing Center located in Linganore Hall, would create a seamless approach to enrollment and learning support delivery. (Design FY17/ FY18, Construction FY18, Furniture and Equipment FY18)

Building E – Renovation/Addition $5,836,500 – The renovation and addition would address the need for additional general instructional space that has the ability to be reconfigured to create more flexible classrooms as well as allow for the consolidation of Continuing Education programs and services. The intended renovation and addition also moves the College forward by aligning with the Department of Commerce Work Smart Initiative to use community colleges as Maryland Training Design Centers. Promoting and raising the awareness among businesses and communities at large that this partnership between Commerce and the community colleges will enhance economic development through workforce training and continuing education offerings. (Design FY18, Construction FY19, Furniture and Equipment FY19)

Annapolis Hall (Building A) – Renovation $1,794,000 – The scope of this project would be to relocate Adult Basic Education into Building E. This would allow for a reconfiguration and enhancement of outdated classrooms located on the first floor and enable upgrades to the Services for Students with Disabilities and Veteran Services offices, as well as minor modifications to the administrative offices. The project would also address deferred maintenance issues, LED light fixture upgrades, restroom renovations, fire panel replacement, elevator upgrade, and ADA accessibility improvements. (Design/Construction FY18)

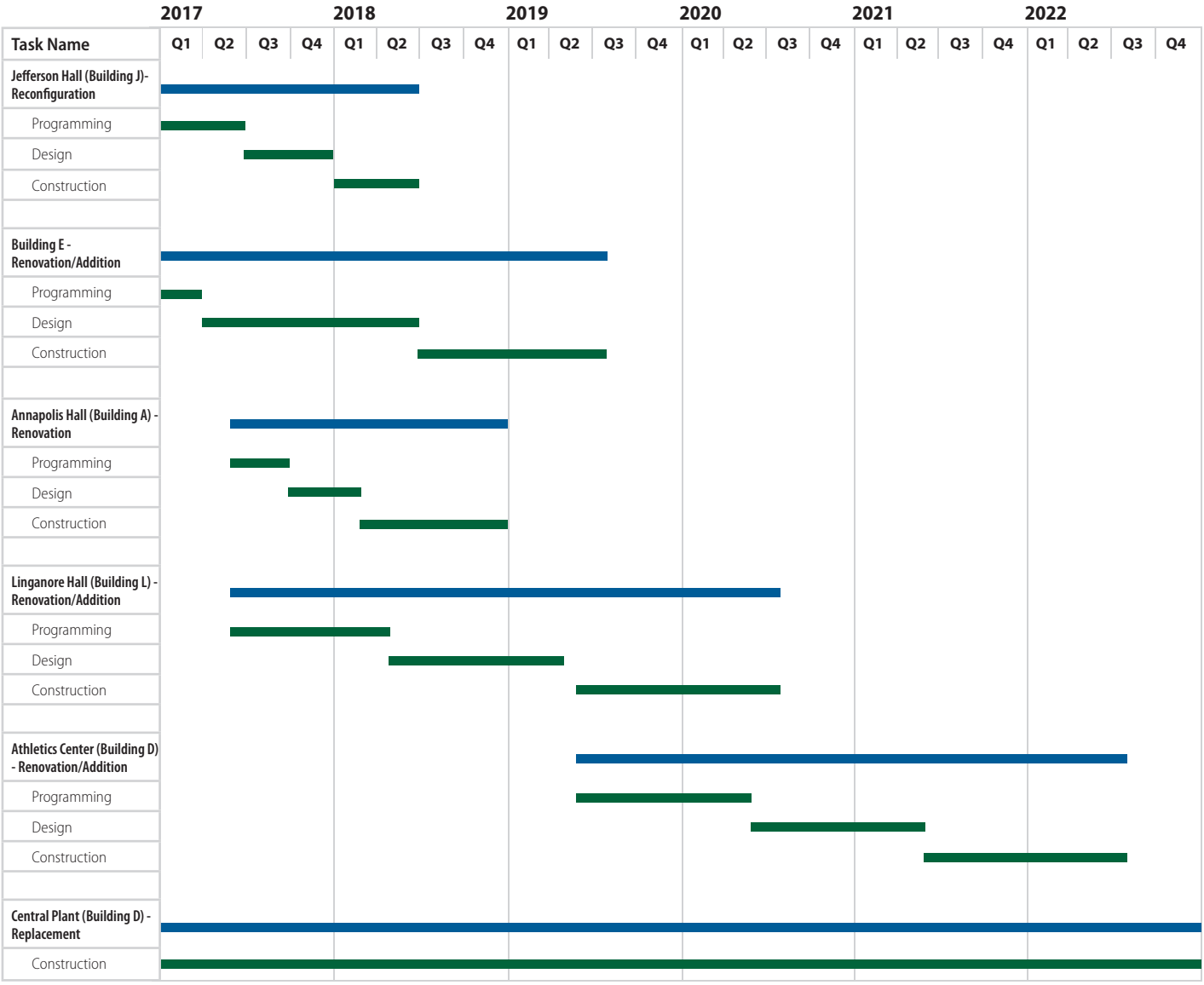
Linganore Hall (Building L) – Renovation/Addition
$10,315,500 – At their January 21, 2015 board meeting, the Board of Trustees amended the Facilities Master Plan and removed the new Allied Health and STEM Buildings, at a projected savings of approximately $35 million. Because we are not constructing a new Allied Health and Nursing program building, we have needs for improved classrooms and skills teaching labs, additional general classrooms, an enhanced testing center which integrates with Learning Support Services, collaborative student learning areas, and as faculty offices that could be accommodated with a renovation of and addition to the existing building. (Design FY19, Construction FY20, Furniture and Equipment FY20)

Athletics Center (Building D) – Renovation/Addition
$12,071,000 – Constructed in 1969, the Athletics Center presents several safety and ADA accessibility challenges. The wooden retractable bleachers and main interior spaces are original to the building, making them unsafe and non-ADA compliant. As the largest gathering space on campus, and the only campus venue that can accommodate more than 410 people for an event, the space is used for Commencement, intercollegiate sports, and many community events. It is critical that the facility is brought up to current life safety and ADA code compliance. A renovation of the existing building along with an addition would address the necessary life safety and ADA issues as well as provide additional general education classrooms, formal and informal student and team support spaces, improved locker room facilities, and faculty, staff, and coaching office areas. (Design FY21, Construction FY22, Furniture and Equipment FY23)

Central Plant (Building D) – Replacement $13,500,000 – Based on recommendations in a study prepared by Weigand and Associates (dated July 27, 2015) we have developed a six-year plan to replace mechanical infrastructure that is nearing or has surpassed the end of its effective life cycle. Improvements include: the addition of a refrigerant leak evacuation system, replacement of two boilers, replacement of the existing 450 ton chiller and two cooling towers, retrofit of chiller controls, conversion of Building E to variable flow, replacement of the 1969 site piping, and the implementation of VFD preventative maintenance and replacement program.

Estimated Cost Summary				
Project Name	Construction Type	Construction Cost	Professional Fees, Furniture and Equipment	Total Project Cost (2017 dollars)
Jefferson Hall (Building J)	Reconfiguation	$1,421,000	$384,000	$1,805,000
Building E	Renovation/Addition	$4,779,000	$1,057,500	$5,836,500
Annapolis Hall (Building A)	Renovation	$1,518,000	$276,000	$1,794,000
Linganore Hall (Building L)	Renovation/Addition	$9,098,500	$1,217,000	$10,315,500
Athletics Center (Building D)	Renovation/Addition	$10,661,000	$1,410,000	$12,071,000
Central Plant (Building D)	Replacement	$13,500,000	$0	$13,500,000
Total				**$45,322,000**

Project Schedule



Appendix A
Existing Building Information

Annapolis Hall - Building A

Quick Facts

Building Type/Use

- Administrative/Office

Building Area

- Net Assignable SF – 18,011
- Gross SF – 32,131
- Number of Stories - 2

Constructed

- 1970

Renovated

- 1994 – Main Entrance Addition
- 1994 – Mechanical Room Addition
- 1995 – Renovation

Construction Type

- Primary building - steel frame with cast in place concrete upper floor and concrete slab on grade with steel framed hipped roofs with standing seam metal panels. Brick veneer with EIFS fascia, soffit and spandrel panels
- Main entrance addition – masonry bearing walls with concrete topped metal decks supported by open web steel joists
- Mechanical room addition - masonry bearing walls and pre-cast pre-tensioned concrete planks. Brick veneer with metal spandrel panels, flat roofs with built-up membrane and gravel aggregate

Mechanical Systems

- High capacity air handling units, VAV boxes, cabinet heaters and baseboard heaters supplied with heated and/or chilled water from the Central Plant. One split system with roof-mounted condenser serves the LAN room

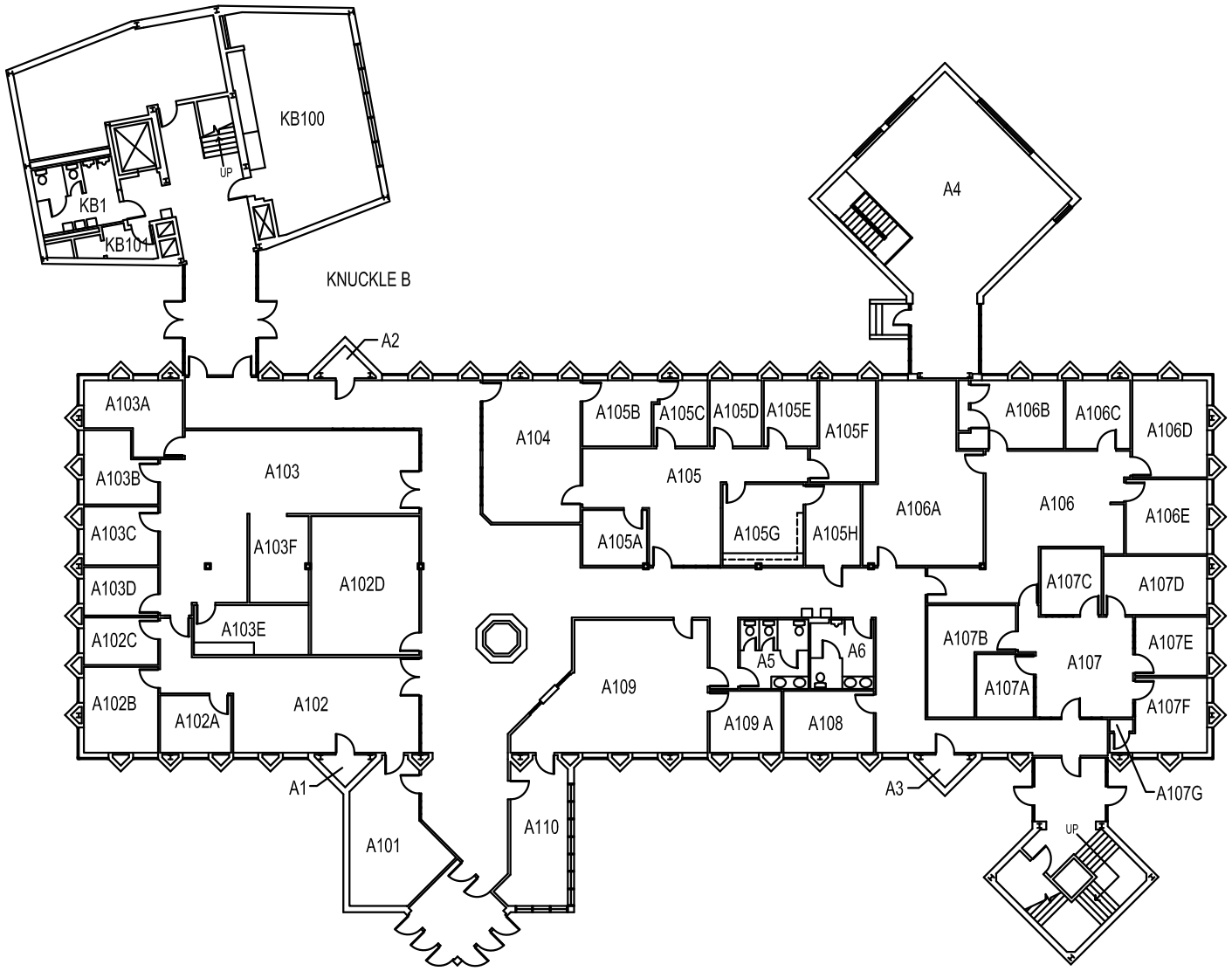
Life Safety/Security

- Fire sprinklers, hydrants, smoke detectors, alarms, extinguishers, security cameras and emergency phones

Building Summary

Annapolis Hall houses administrative offices, the Office of the President, Services for Students with Disabilities, Adult Services, Adult Basic Education, and Veteran Services.

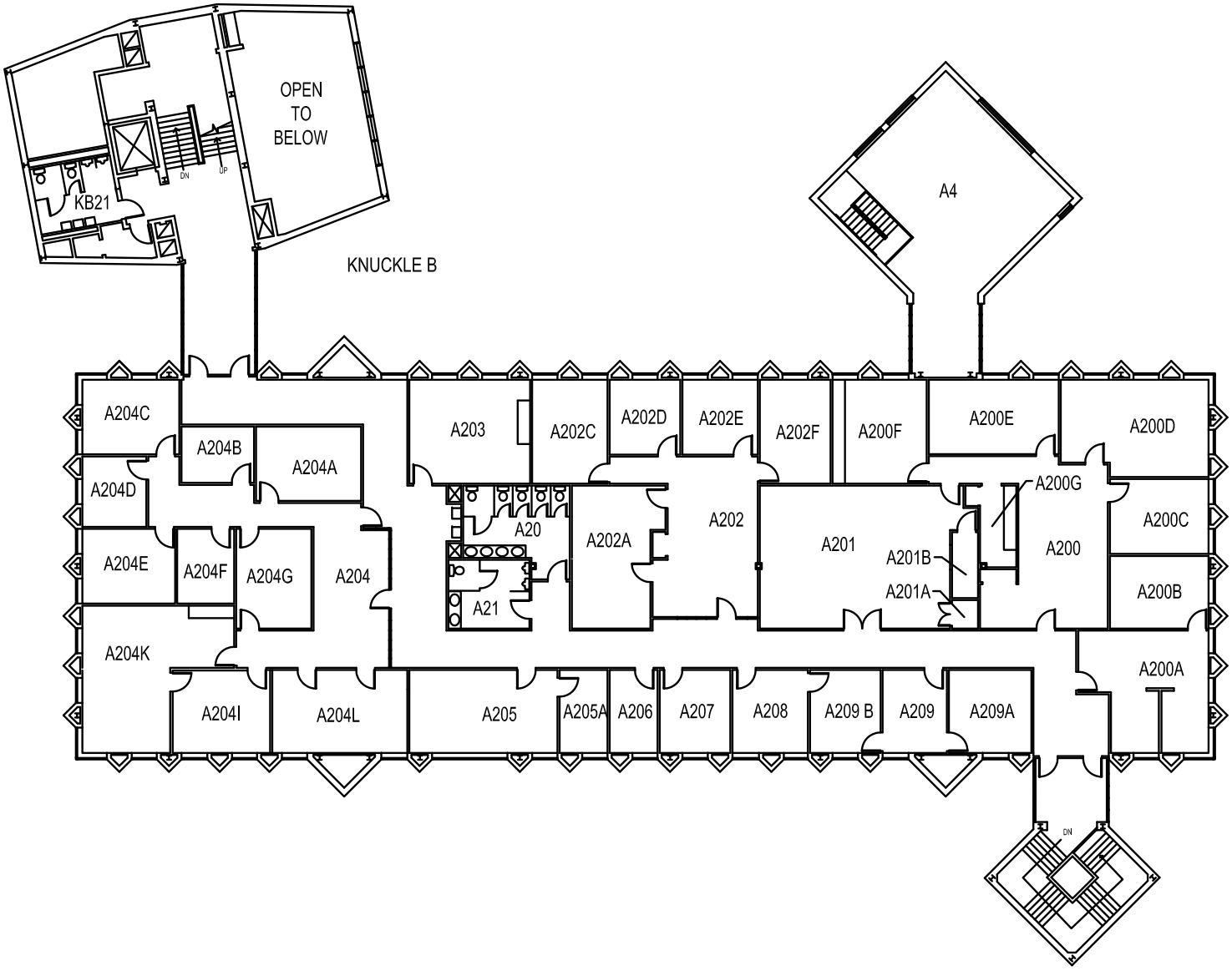
The building is in fair condition. Due to its age, the interior finishes are beyond useful life and require replacement. The fire alarm panel is original to the building and has surpassed its useful life and requires replacement. Also, the building is not equipped with an emergency generator.



ANNAPOLIS HALL

BUILDING A - FIRST FLOOR PLAN

Not To Scale



ANNAPOLIS HALL

BUILDING A - SECOND FLOOR PLAN

Not To Scale

Braddock Hall - Building B

Quick Facts

Building Type/Use

- Academics

Building Area

- Net Assignable SF – 18,401
- Gross SF – 34,592
- Number of Stories - 2

Constructed

- 1970

Renovated

- 1989 – Renovation
- 1994 – Mechanical Room Addition
- 2015 – Renovation

Construction Type

- Primary building - steel frame with cast in place concrete upper floor and concrete slab on grade with steel framed hipped roofs with standing seam metal panels. Brick veneer with EIFS fascia, soffit and spandrel panels
- Mechanical room addition - masonry bearing walls and pre-cast pre-tensioned concrete planks. Brick veneer with metal spandrel panels, flat roofs with built-up membrane and gravel aggregate

Mechanical Systems

- High capacity air handling units, VAV boxes, cabinet heaters and baseboard heaters supplied with heated and/or chilled water from the Central Plant

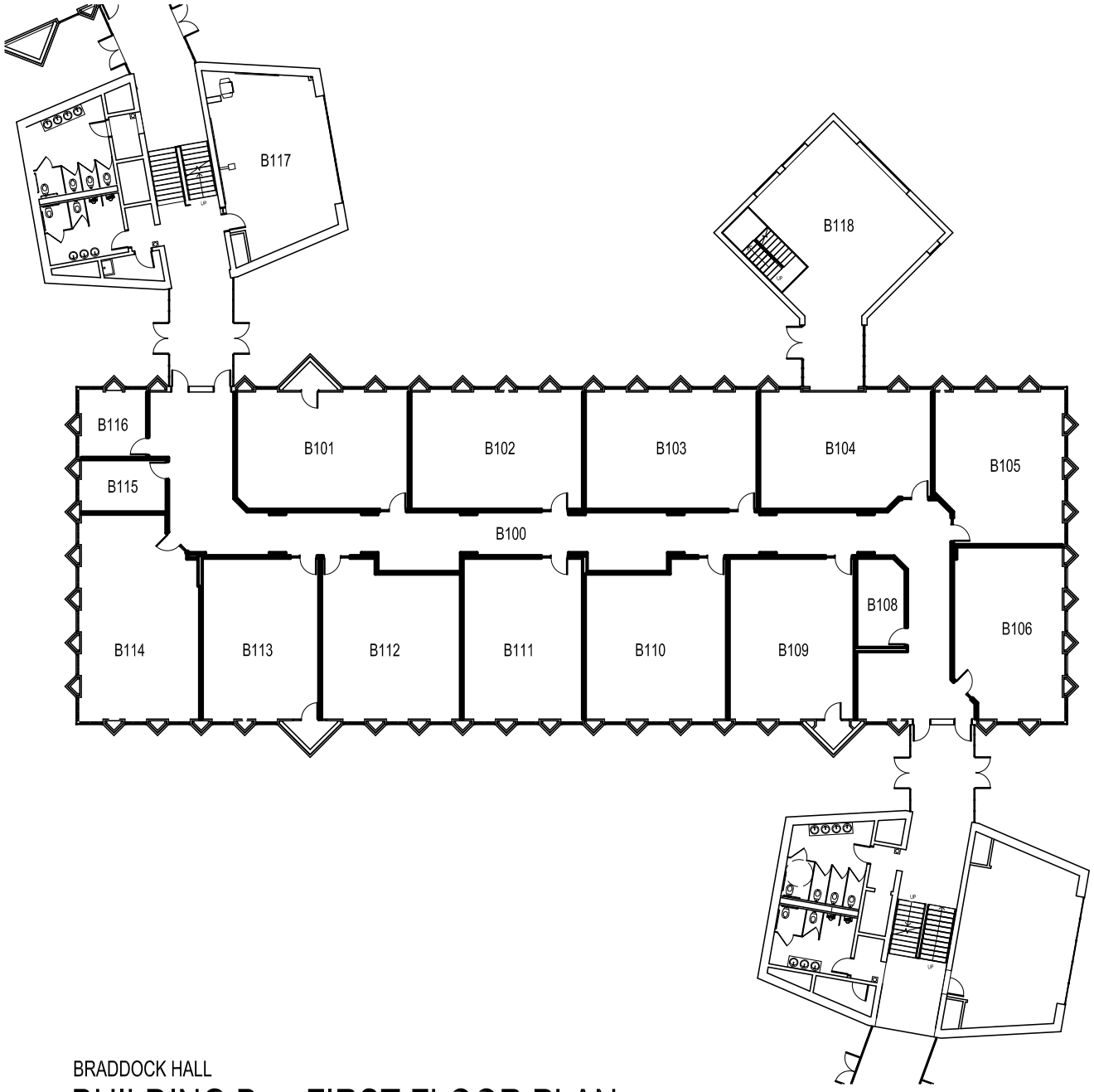
Life Safety/Security

- Fire sprinklers, hydrants, smoke detectors, alarms, extinguishers, security cameras and emergency phones

Building Summary

Braddock Hall houses general classrooms and the STEM Learning Center, as well as faculty offices.

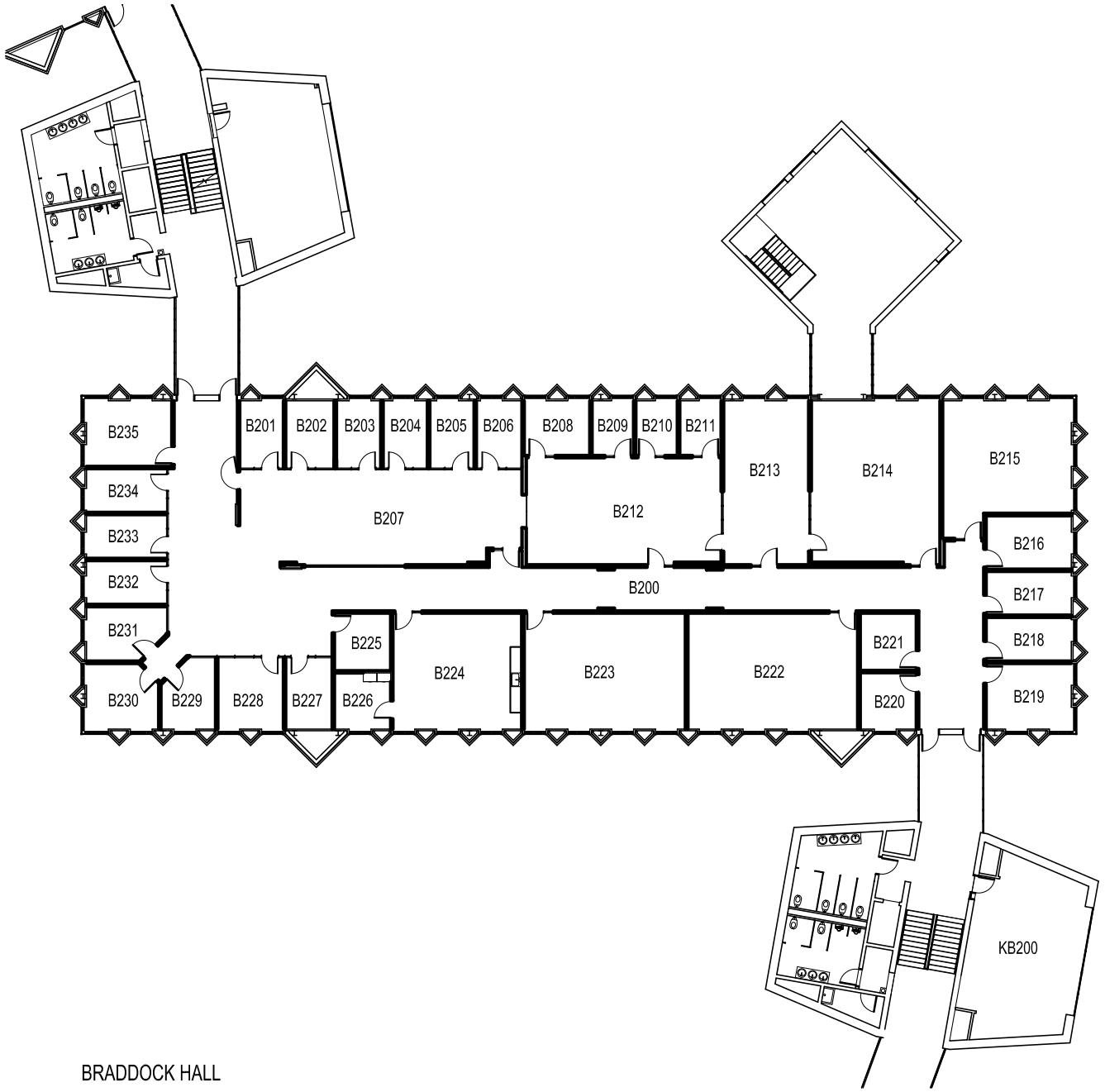
The building is in good condition. The interior was renovated in 2015.



BRADDOCK HALL

BUILDING B - FIRST FLOOR PLAN

Not To Scale



BRADDOCK HALL

BUILDING B - SECOND FLOOR PLAN

Not To Scale

Catoctin Hall - Building C

Quick Facts

Building Type/Use

- Academics

Building Area

- Net Assignable SF – 28,383
- Gross SF – 54,920
- Number of Stories - 2

Constructed

- 1970

Renovated

- 1989 – Renovation/Addition (chemical storage and greenhouse addition)
- 1994 – Mechanical Room Addition
- 2000 – Interior finishes
- 2015 – Addition

Construction Type

- Primary building - steel frame with cast in place concrete upper floor and concrete slab on grade with steel framed hipped roofs with standing seam metal panels. Brick veneer with EIFS fascia, soffit and spandrel panels
- Mechanical room addition - masonry bearing walls and pre-cast pre-tensioned concrete planks. Brick veneer with metal spandrel panels, flat roofs with built-up membrane and gravel aggregate

Mechanical Systems

- High capacity air handling units, VAV boxes, cabinet heaters and baseboard heaters supplied with heated and/or chilled water from the Central Plant. One split system with roof-mounted condenser serves the LAN room. One packaged roof top unit serving Chemical storage room

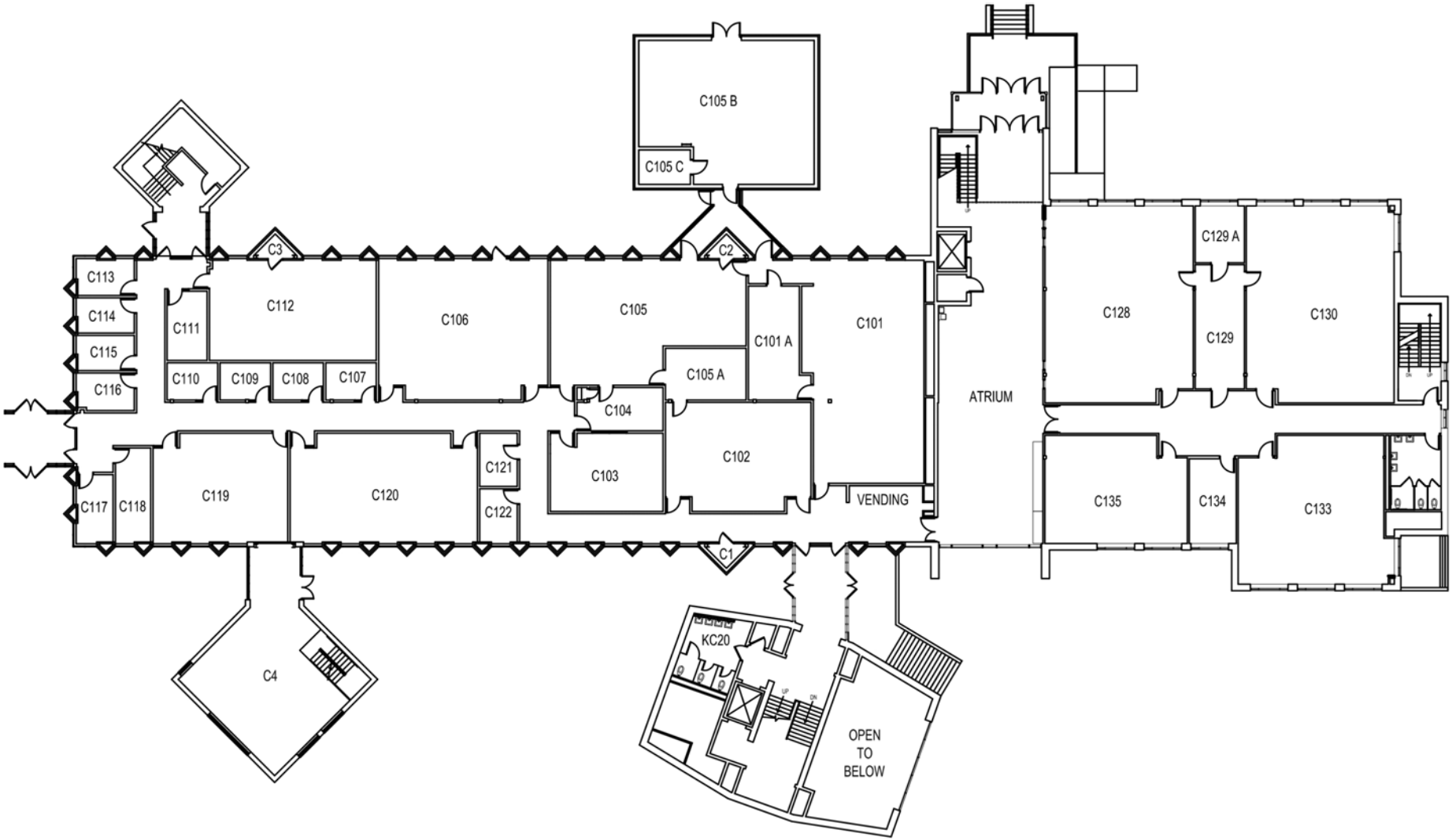
Life Safety/Security

- Fire sprinklers, hydrants, smoke detectors, alarms, extinguishers, security cameras and emergency phones

Building Summary

Catoctin Hall houses physical science labs, computer science labs, and general classrooms, as well as faculty offices.

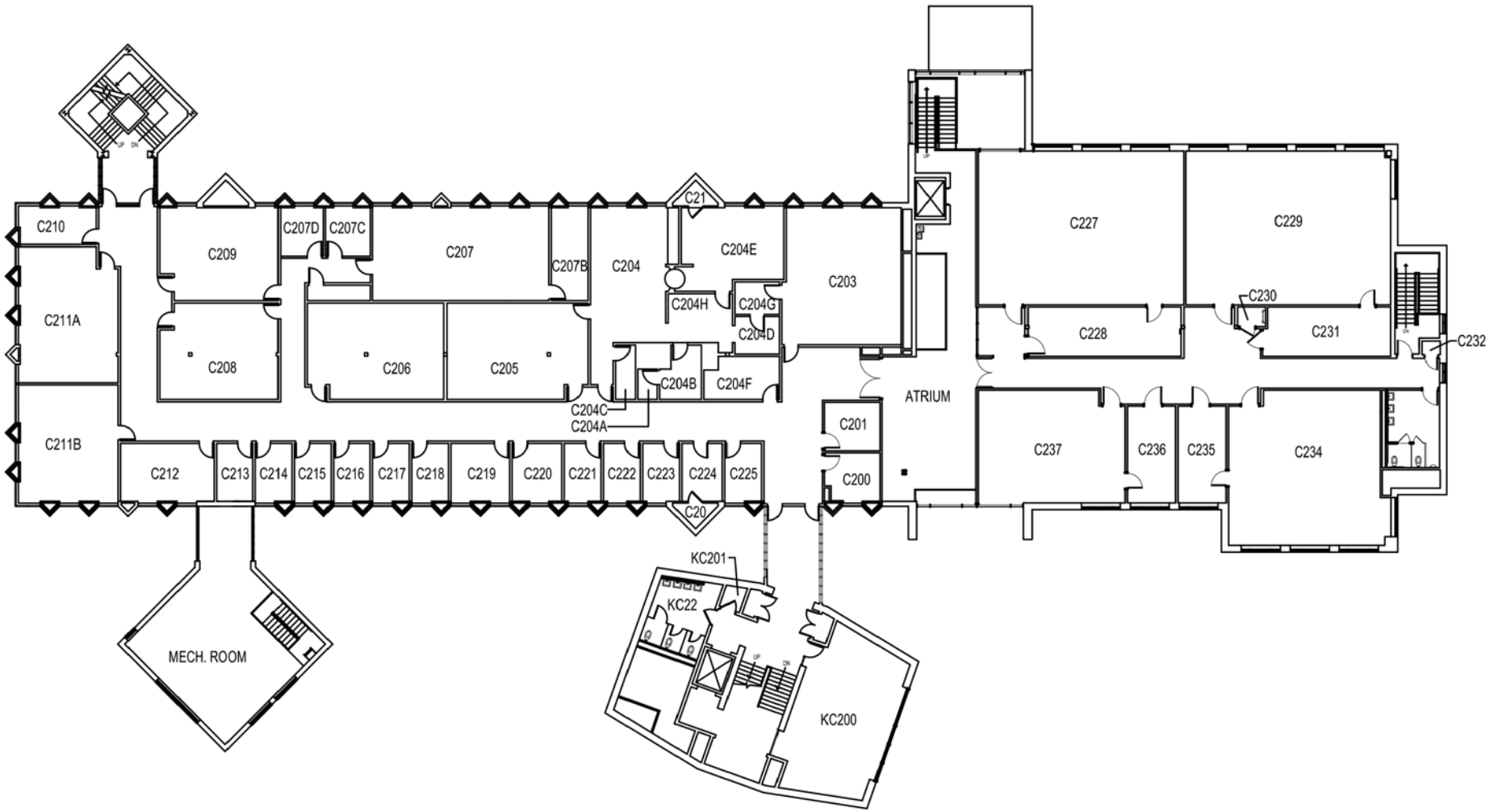
The building is in good condition. An addition was constructed in 2014.



CATOCTIN HALL

BUILDING C - FIRST FLOOR PLAN

Not To Scale



CATOCTIN HALL

BUILDING C - SECOND FLOOR PLAN

Not To Scale

Athletics Center - Building D

Quick Facts

Building Type/Use

- Gymnasium/Classrooms/Office

Building Area

- Net Assignable SF – 23,124
- Gross SF – 38,872
- Number of Stories – 1

Constructed

- 1970

Renovated

- 2001 – Renovation and Addition

Construction Type

- Primary building - Concrete slab on grade, structural steel frame with open web roof joists and metal decking; roof areas are steel framed hipped roofs with standing seam metal roof panels; masonry walls with brick veneer and EIFS fascia, soffit and spandrel panels
- Addition – In classroom addition, masonry bearing with open web roof joists and metal decking; roof areas are flat with a ballasted built-up membrane. Masonry walls with brick veneer and EIFS fascia, soffit and spandrel panels

Mechanical Systems

- High capacity air handling units, VAV boxes and fan cooling units (FCU's) supplied with heated and/or chilled water from the Central Plant
- The campus central plant is attached to this building

Life Safety/Security

- Fire sprinklers, hydrants, smoke detectors, alarms, extinguishers, security cameras, security door card readers and an emergency phone

Building Summary

The Athletics Center houses the gym, locker rooms, offices, a classroom, weight room, and fitness studio. The Central Plant is also attached to this building.

The building is in fair condition but aging. Due to its age, the interior finishes, including the gym floor and bleachers, are beyond useful life and require replacement. The fire alarm panel is original to the building and has surpassed its useful life and requires replacement. Also, the building is not equipped with an emergency generator.

Central Plant - Building D (attached to Athletics Center)

Quick Facts

Building Type/Use

- Central plant for 4 original buildings on campus

Building Area

- Net Assignable SF – 0
- Gross SF – 4,936
- Number of Stories – 1

Constructed

- 1969

Renovated

- 2009 – Chiller 3 replacement
- 2010 – Boiler 1 replacement (original)
- 2016 – Boiler 2 & 3 replacement (original)

Construction Type

- Concrete slab on grade with masonry bearing walls and heavy steel roof structure with metal deck; exterior walls are brick veneer; roof areas are flat built up membrane roof with stone ballast
- Mechanical yard enclosure for cooling towers is CMU with brick veneer to match the building

Mechanical Systems

- Two cooling towers outside, 3 boilers, 3 chillers, gas fired hot water heater, domestic hot water storage tank, 2 air compressors, 3 cabinet unit heaters, 10 mechanical pumps (chilled water, condenser water, heat reclaim, hot water recirculating), oil pump, 2 bulk above ground fuel storage tanks

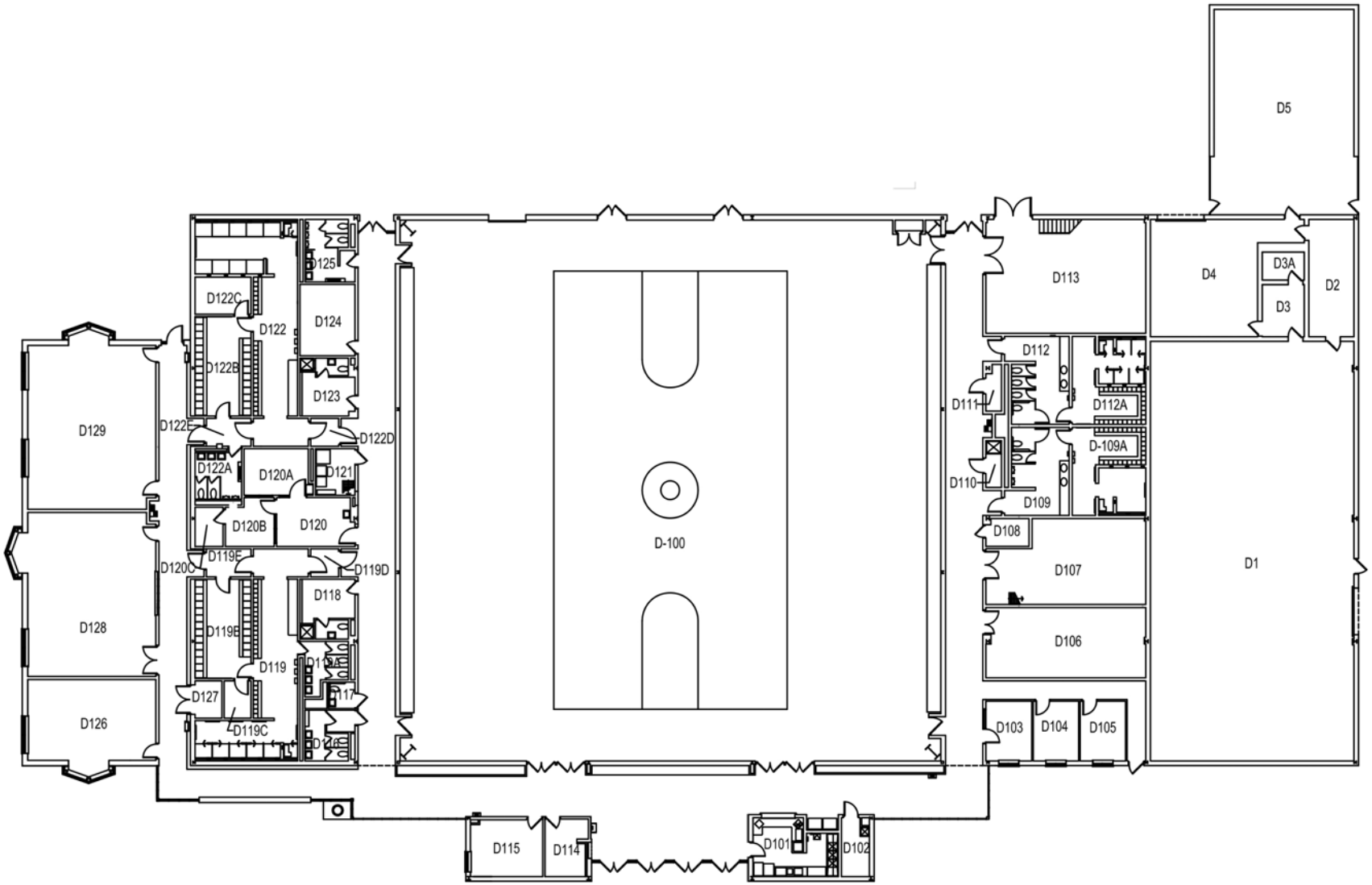
Life Safety/Security

- Fire sprinklers, hydrants, fire alarm system, extinguishers, emergency boiler shut offs
- Generator for emergency power

Building Summary

The Central Plant houses the hot and chilled water systems for the campus serving the four original buildings (A, B, C, D) as well as auxiliary support spaces and the work shop area.

The building is in fair condition. However, the building's chilled and hot water systems and the majority of the underground piping infrastructure – some of which are original from 1969 – are well beyond the expected useful life and require replacement in the near future. The hot water boilers are scheduled for replacement this year due to equipment failures.



ATHLETICS CENTER

BUILDING D - FIRST FLOOR PLAN

Not To Scale

Sweadner Hall - Building S

Quick Facts

Building Type/Use

- Assembly/Lecture Hall

Building Area

- Net Assignable SF – 2,125
- Gross SF – 4,550
- Number of Stories – 1

Constructed

- 1970

Renovated

- 1998 – Full Renovation

Construction Type

- Concrete slab on grade with structural steel frame with open web roof joists and metal decking; roof areas are flat built up membrane roof with stone ballast
- Masonry walls with brick veneer at lecture hall; EIFS on paper backed metal lath and storefront at connecting corridors

Mechanical Systems

- Lecture Hall - Air handling units fed from the central plant with variable frequency drives
- Corridors – Fan coil units (FCU's)

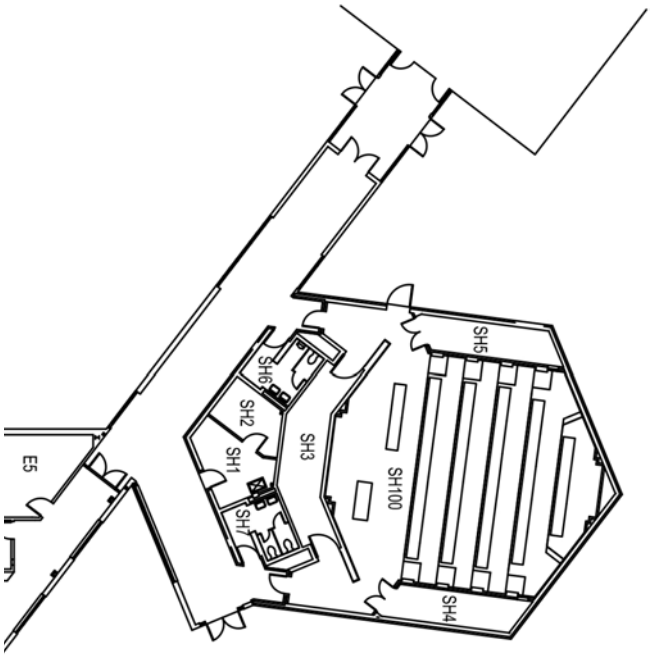
Life Safety/Security

- Fire sprinklers, hydrants, fire alarm system, extinguishers, security cameras, security door card readers and an emergency phone
- Generator for emergency power

Building Summary

Sweadner Hall houses a lecture hall and associated storage and support spaces.

The building is in fair condition. Due to its age, the interior finishes are beyond useful life and require replacement. The fire alarm panel is original to the building and has surpassed its useful life and requires replacement. Also, the building is not equipped with an emergency generator.



Conference Center - Building E

Quick Facts

Building Type/Use

- Conference center/classrooms/offices

Building Area

- Net Assignable SF – 13,586
- Gross SF – 22,939
- Number of Stories – 1

Constructed

- 1999

Renovated

- No renovations to date

Construction Type

- Concrete slab on grade with structural steel frame with open web roof joists and metal decking; primary roof areas are steel framed hipped roofs with standing seam metal roof panels; secondary roof areas are flat built up membrane roof
- Masonry walls with both brick and stone veneer accented with EIFS fascia, soffit and spandrel panels

Mechanical Systems

- Air handling units fed from the central plant with variable air volume (VAV) boxes with local thermostats; split-system air-conditioning unit for server room

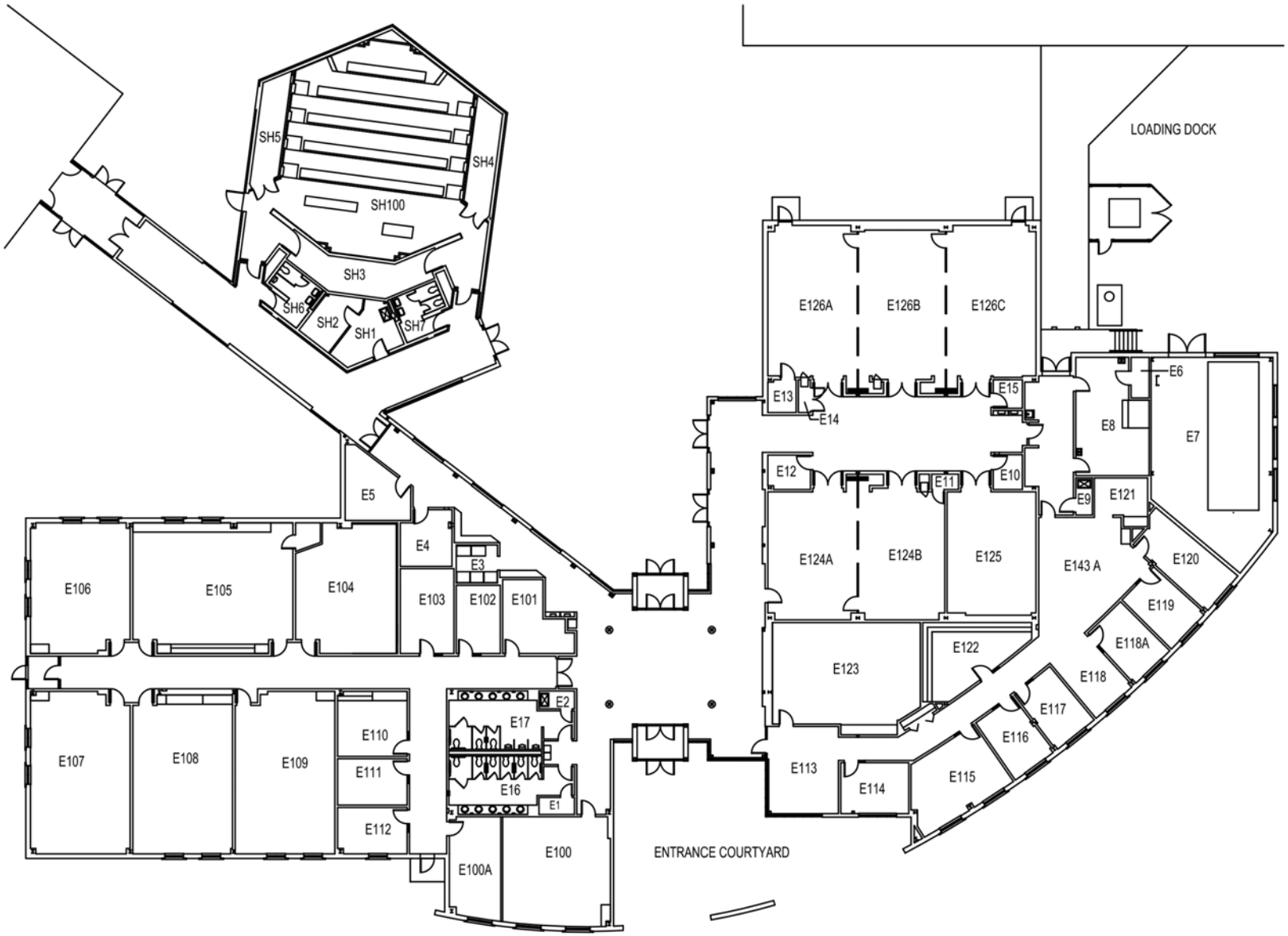
Life Safety/Security

- Fire sprinklers, hydrants, smoke detectors, fire alarm system, extinguishers, security cameras, security door card readers and an emergency phone
- Generator for emergency power

Building Summary

The Conference Center houses six flexible conference rooms, general classrooms, a catering kitchen, and CEWD office space.

The building is in fair condition. Due to its age, the interior finishes are beyond useful life and require replacement. Additionally, changes in user groups may require renovations of portions of the building. The fire alarm panel is original to the building and has surpassed its useful life and requires replacement. Also, the building is not equipped with an emergency generator.



CONFERENCE CENTER & SWEADNER HALL

BUILDINGS E & S - FIRST FLOOR PLAN

Not To Scale

Visual & Performing Arts - Building F

Quick Facts

Building Type/Use

- Theater/offices/classrooms/music and art labs

Building Area

- Net Assignable SF – 23,124
- Gross SF – 35,872
- Number of Stories – 1

Constructed

- 1988

Renovated

- 2002 – Addition (~1,250 SF art room support areas)
- 2011 – Kiln building built
- 2011 – Renovation of 3 rooms (F102-F104) for music programs
- 2012 – Renovation of 4 rooms (F105-F108) for music programs and Black Box Theater

Construction Type

- Primary building - Concrete slab on grade, structural steel frame with masonry bearing walls, open web roof joists and metal decking; roof areas are flat built up membrane roof
- Exterior walls are masonry with brick veneer and precast concrete accents
- Addition – similar construction as primary building; roof areas are steel framed hipped roofs with standing seam metal roof panels

Mechanical Systems

- The building is supplied heated and chilled water from the central plant and is equipped with high capacity air handling units, variable air volume (VAV) boxes and fan coil units (FCU)
- Control Room: One split system unit ventilator with roof-mounted condenser
- Electric Rooms: Unit heaters supplied hot water from the central system

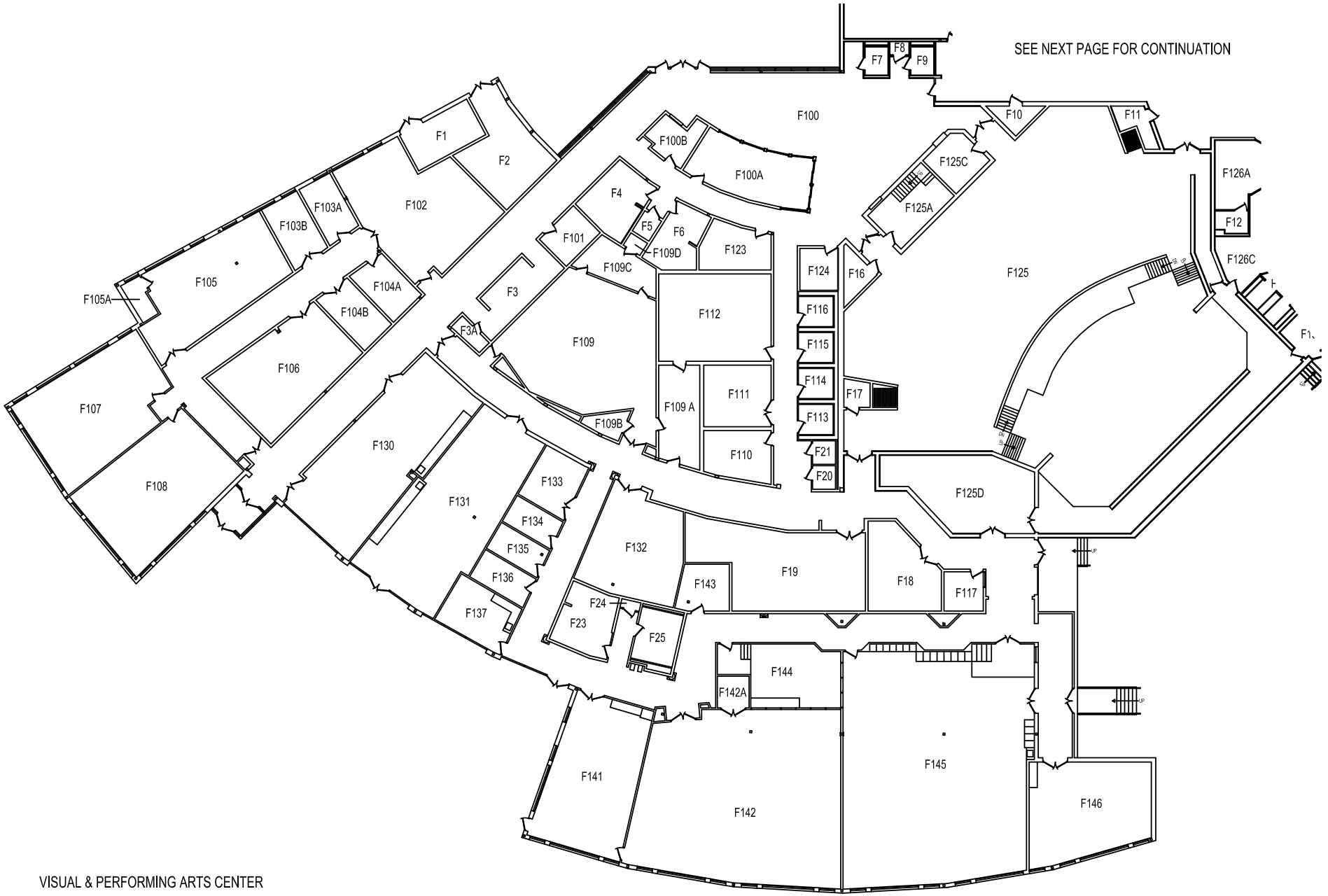
Life Safety/Security

- Fire sprinklers, hydrants, fire alarm system, extinguishers, security cameras, security door card readers and an emergency phone
- Generator for emergency power

Building Summary

The Visual & Performance Arts Building contains the JBK Theater with support spaces, an art gallery, music classrooms and labs, ceramics classrooms with kiln and support spaces, art classrooms, general classrooms, and offices.

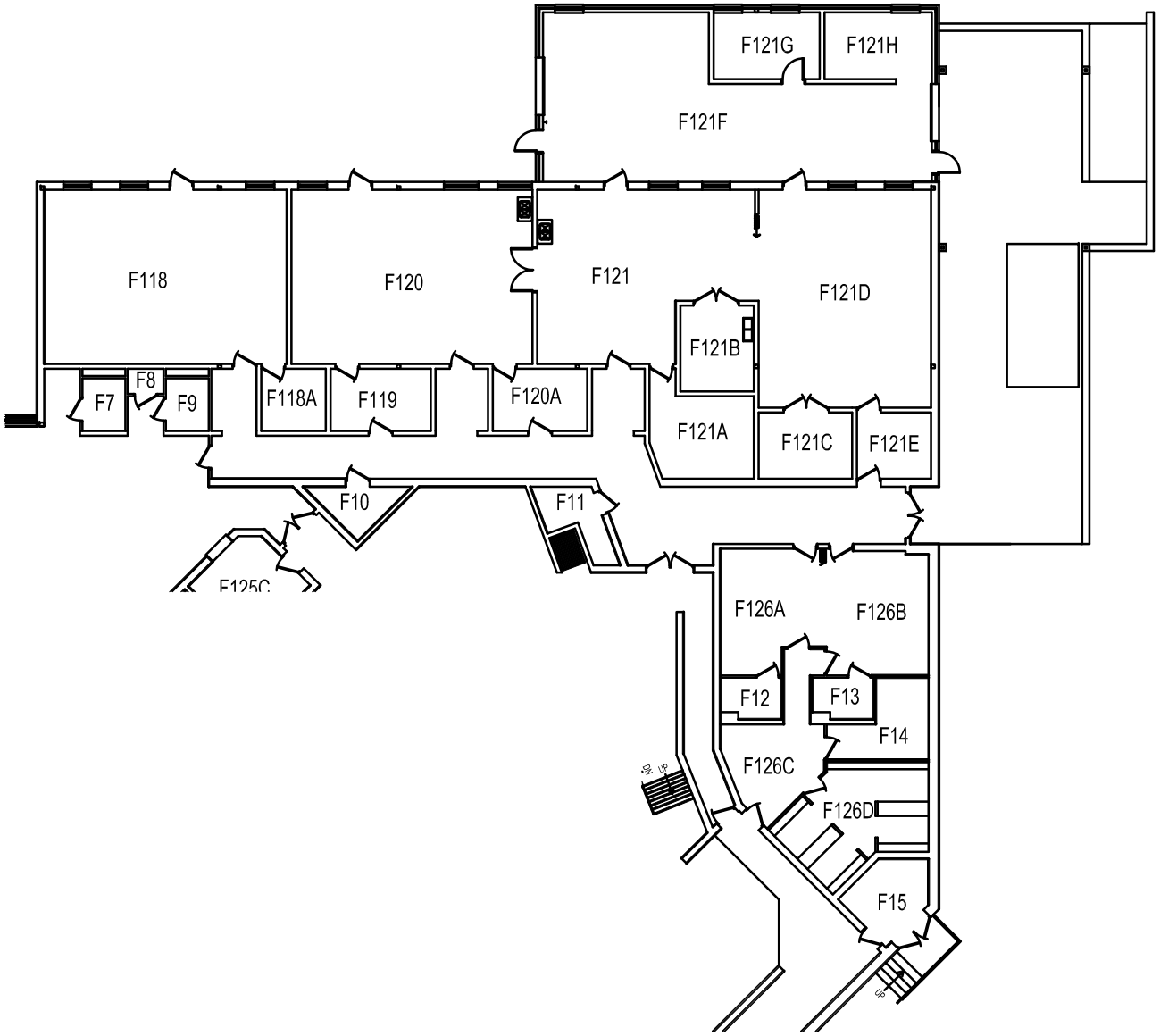
The building is in fair condition. Due to its age, the interior finishes of the non-renovated areas are beyond useful life and require replacement. The fire alarm panel is original to the building and has surpassed its useful life and requires replacement. Also, the building is not equipped with an emergency generator.



VISUAL & PERFORMING ARTS CENTER

BUILDING F - PARTIAL FIRST FLOOR PLAN

Not To Scale



VISUAL & PERFORMING ARTS CENTER

BUILDING F - PARTIAL FIRST FLOOR PLAN

Not To Scale

Gambrill Hall - Building G

Quick Facts

Building Type/Use

- Administrative/Office

Building Area

- Net Assignable SF – 10,541
- Gross SF – 16,020
- Number of Stories – 2

Constructed

- 2007

Renovated

- No renovations to date

Construction Type

- Concrete slab on grade and slab on deck, structural steel frame with masonry bearing walls, open web roof joists and metal decking; primary roof areas are steel framed hipped roofs with standing seam metal roof panels; secondary roof areas are flat built up membrane roof
- Exterior walls are metal studs with brick veneer, cast stone detailing up to 2nd floor sill elevation; metal studs with EIFS above to soffit elevation

Mechanical Systems

- Common areas/Offices/Conference room: Stand alone, gas-fired packaged air handling units circulate conditioned air to VAV boxes throughout the building. Each VAV box contains electric reheat and is controlled by local thermostats
- Stairwells/Entrance vestibules: Unit heaters provide heat at these locations
- Server/Hub room: Split system air-conditioning units with air cooled condensers mounted to roof

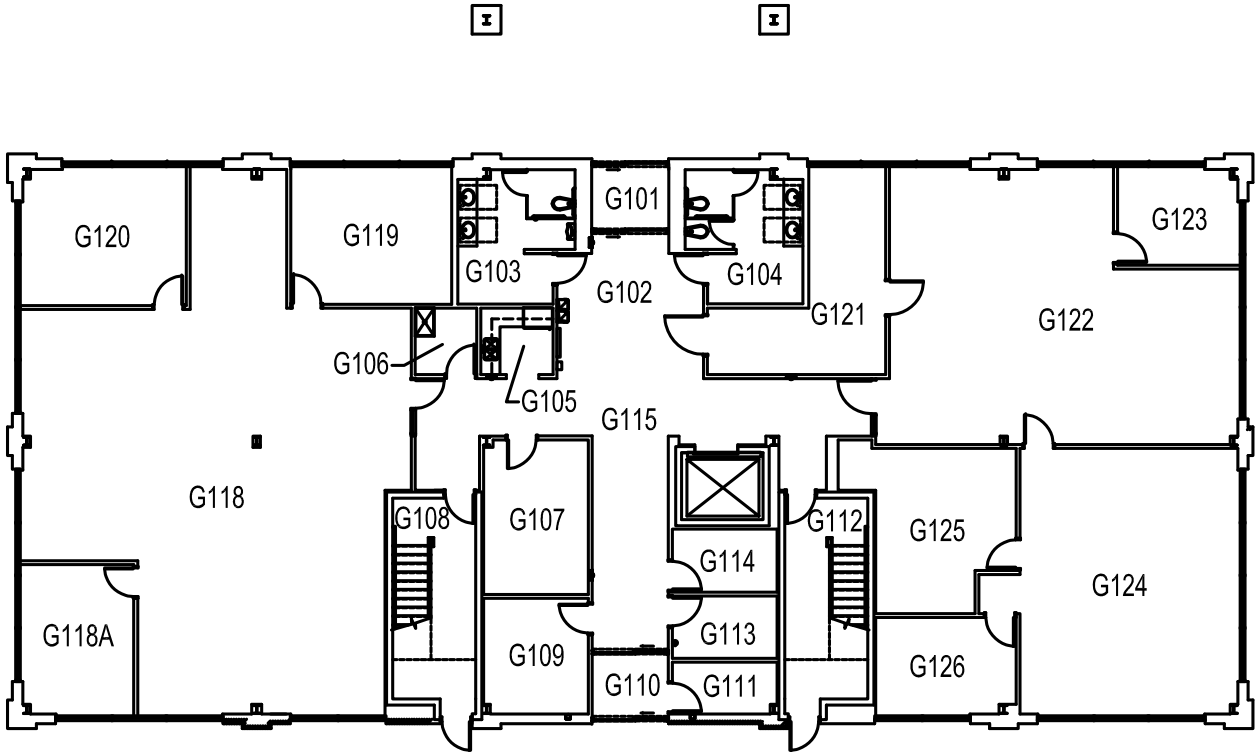
Life Safety/Security

- Fire sprinklers, hydrants, fire alarm system, extinguishers, security cameras, security door card readers and an emergency phone
- Generator for emergency power

Building Summary

Gambrill Hall houses Human Resources, Finance, and IT offices with a shared conference room.

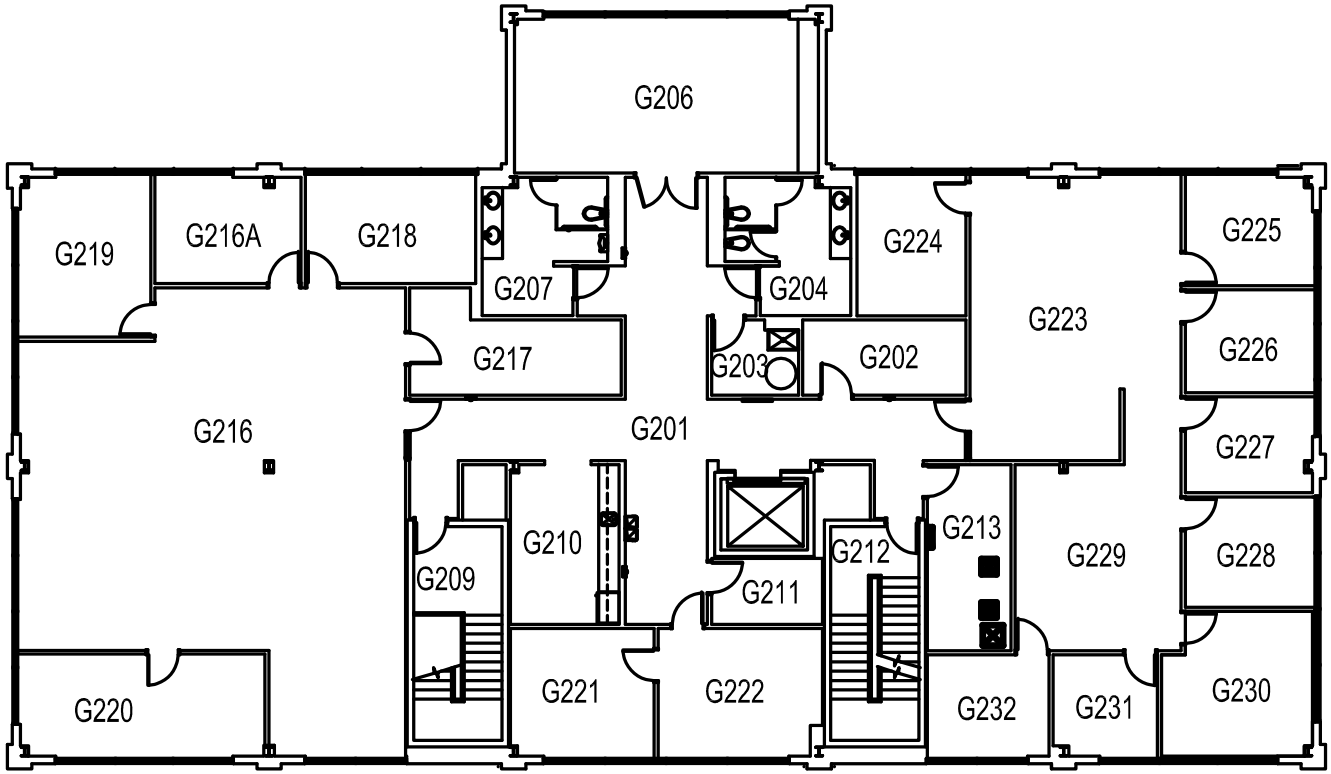
Due to its age, the building is in good condition requiring only regular sustained maintenance. The flat roof will be replaced in the near future due to early failure of the roofing membrane beyond repair.



GAMBRILL HALL

BUILDING G - FIRST FLOOR PLAN

Not To Scale



GAMBRILL HALL

BUILDING G - SECOND FLOOR PLAN

Not To Scale

Student Center - Building H

Quick Facts

Building Type/Use

- Academic/Student Government/Auxiliary Services

Building Area

- Net Assignable SF – 50,312
- Gross SF – 76,987
- Number of Stories – 2

Constructed

- 2009

Renovated

- No renovations to date

Construction Type

- Concrete slab on grade and slab on deck, structural steel frame, open web roof joists and metal decking; perimeter roofs are steel framed hip style mansard roofs with standing seam metal roof panels; the center roof area is flat built up membrane roof with white coating
- Exterior walls are masonry and metal studs with brick veneer, cast stone detailing up to 2nd floor window head elevation; metal studs with metal sandwich panels above to soffit elevation

Mechanical Systems

- The building is equipped with high capacity air handling units, variable air volume (VAV) boxes and fan coil units (FCU) supplied with heated and chilled water by the central plant. In addition, split system air-conditioning units provide cooling to hub rooms, electrical rooms, and elevator rooms. An energy recovery ventilator provides conditioned air to the cafeteria. Make up air units are provided for the kitchen hood

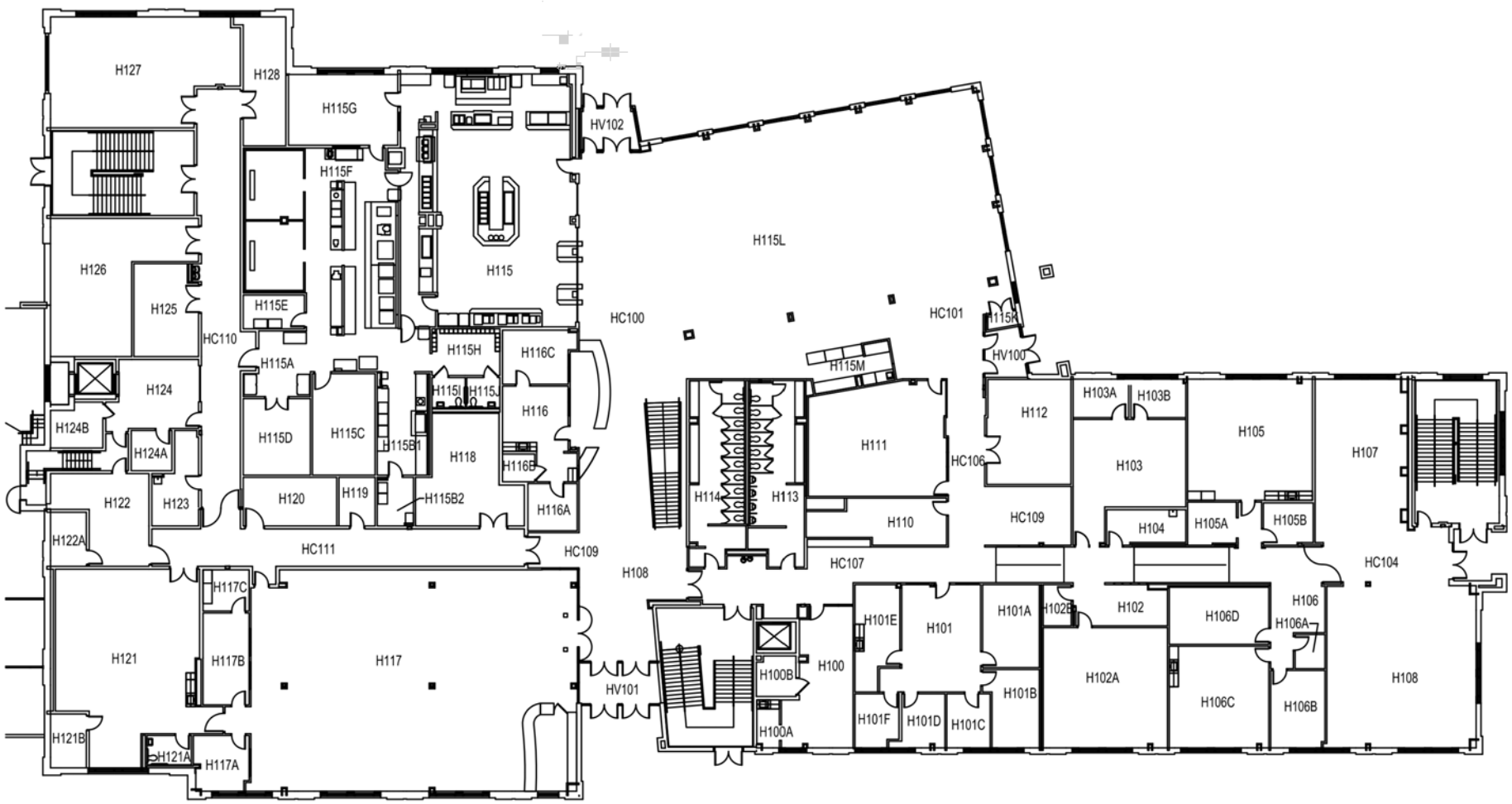
Life Safety/Security

- Fire sprinklers, hydrants, fire alarm system, extinguishers, security cameras, security door card readers and an emergency phone
- Generator for emergency power

Building Summary

The Student Center houses the Cougar Grille, dining hall, bookstore, Multicultural Student Services, Security, Center for Student Engagement, Office of Diversity, Equity, and Inclusion, Student Government Association, Honors College classroom and lounge, general classrooms, student lounges, receiving/loading dock, storage areas, large meeting rooms, and offices.

The building is in good condition requiring only sustained maintenance and minor renovations for user group changes.



STUDENT CENTER

BUILDING H - FIRST FLOOR PLAN

Not To Scale

STUDENT CENTER

BUILDING H - SECOND FLOOR PLAN

Not To Scale

Jefferson Hall - Building J

Quick Facts

Building Type/Use

- Administrative / Office

Building Area

- Net Assignable SF – 12,752
- Gross SF – 24,000
- Number of Stories – 3

Constructed

- 2012

Renovated

- No renovations to date

Construction Type

- Concrete slab on grade and slab on deck, structural steel frame, open web roof joists and metal decking; roof area is flat built up membrane roof.
- Exterior walls are metal studs with brick veneer, cast stone detailing; metal sandwich panels band at roof elevation and entrances

Mechanical Systems

- Common areas/Offices/Conference room: Stand alone Air handling units circulate conditioned air to VAV boxes throughout the building. Each VAV box contains electric reheat and is controlled by local thermostats
- Stairwells/Entrance vestibules: Unit heaters provide heat at these locations
- Server/Hub room: Split system air-conditioning units with air cooled condensers mounted to roof

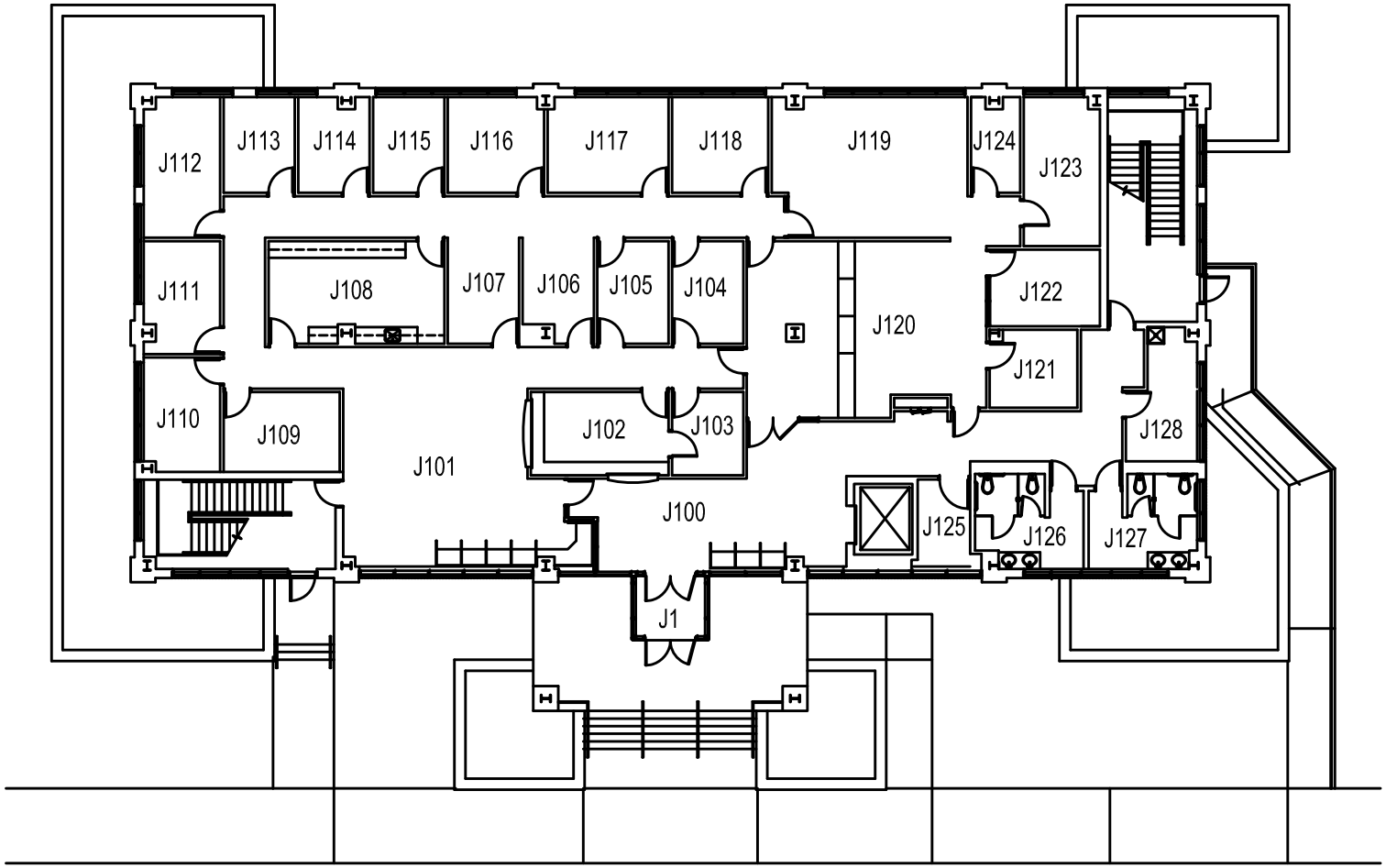
Life Safety/Security

- Fire sprinklers, hydrants, fire alarm system, extinguishers, security cameras, security door card readers and an emergency phone
- Generator for emergency power

Building Summary

Jefferson Hall houses Admissions, Registration and Records, Student Accounts, Counseling and Advising, the Career and Transfer Center, Financial Aid, Learning Support, meeting rooms, and offices.

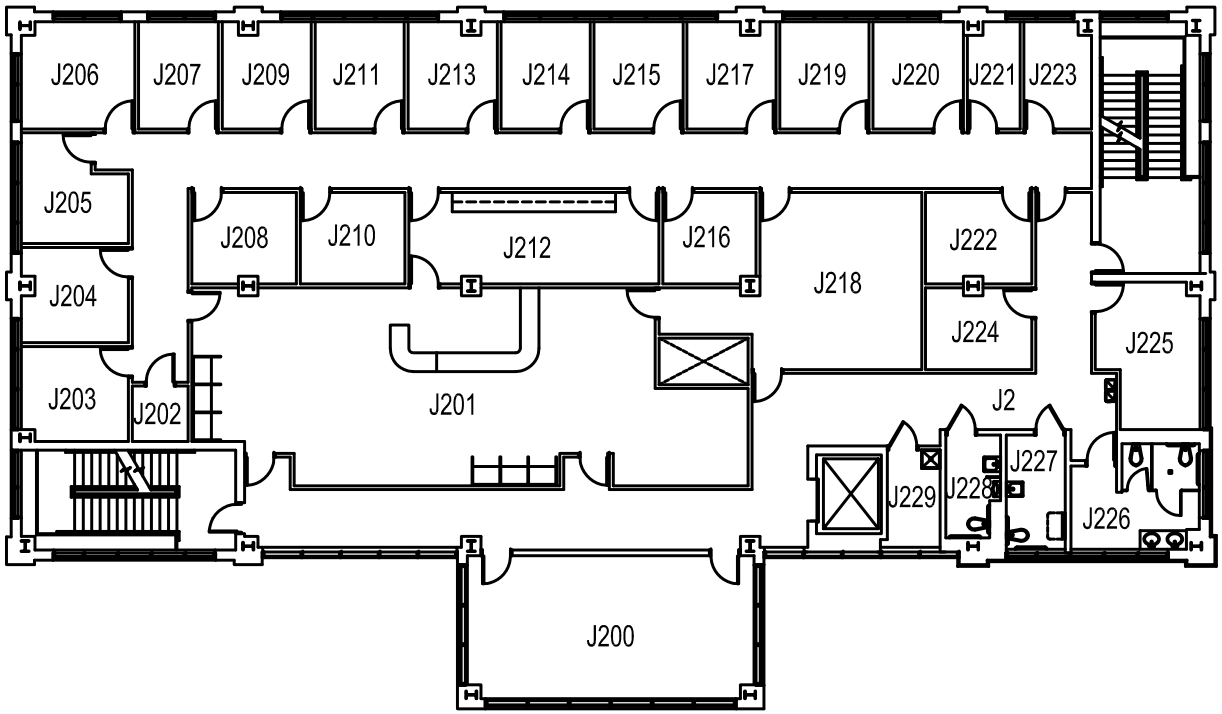
The building is in good condition requiring only sustained maintenance and minor renovations for changing/expanding needs of the programs in this building.



JEFFERSON HALL

BUILDING J - FIRST FLOOR PLAN

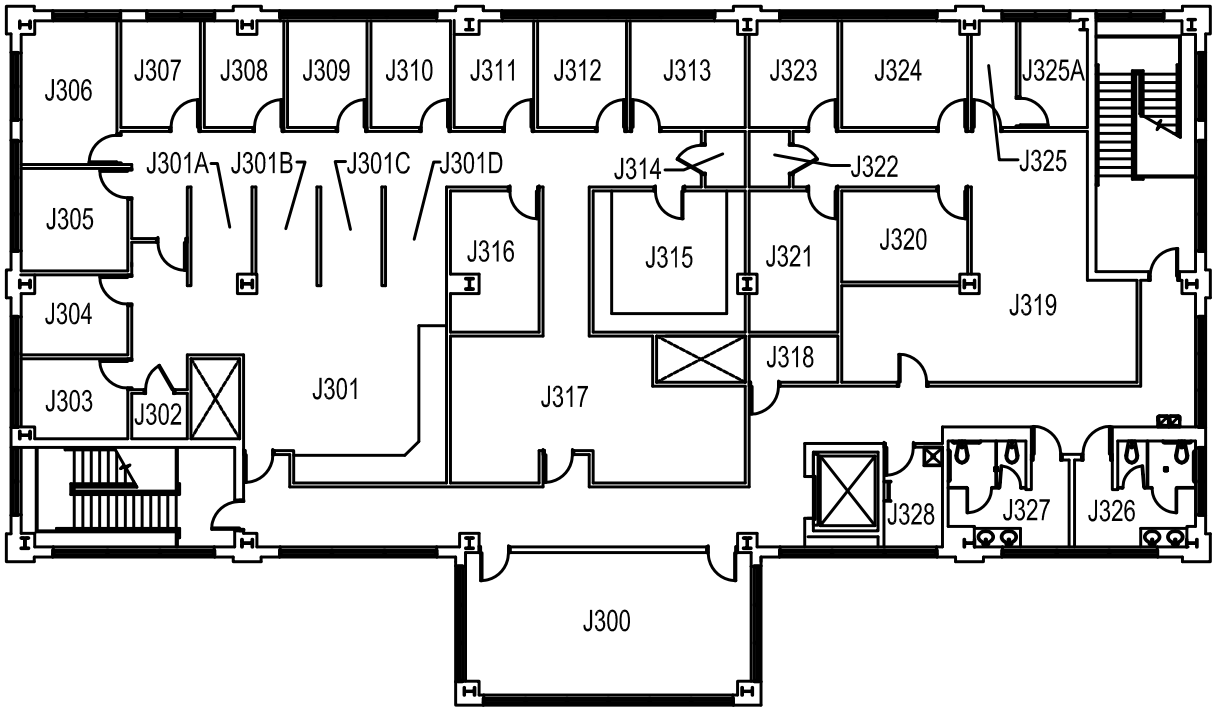
Not To Scale



JEFFERSON HALL

BUILDING J - SECOND FLOOR PLAN

Not To Scale



JEFFERSON HALL

BUILDING J - THIRD FLOOR PLAN

Not To Scale

Mercer-Akre Kiln – Building K

Quick Facts

Building Type/Use

- Kiln

Building Area

- Net Assignable SF – 897
- Gross SF – 960
- Number of Stories – 1

Constructed

- 2011

Renovated

- No renovations to date

Construction Type

- Wood framed structure on a concrete slab on grade; exterior walls are metal panels; roof structure is pitched with a standing seam metal roof with a covered porch

Mechanical Systems

- No heating or cooling provided for this building

Life Safety/Security

- Battery backup exit lights, illuminated exit signs, portable fire extinguishers and emergency phone

Building Summary

The Mercer-Akre Kiln Building houses a wood-fired kiln and storage space for the arts programs.

The building is in fair condition requiring only regular sustained maintenance.

Athletic Field Restroom Facility

Quick Facts

Building Type/Use

- Game concessions/restrooms/storage

Building Area

- Net Assignable SF – 665
- Gross SF – 800
- Number of Stories – 1

Constructed

- 2004

Renovated

- 2014 – Converted from storage only to a restroom building with storage

Construction Type

- Cast in place footings with CMU foundation and concrete slab on grade, wood truss with tongue and grove plywood roof structure covered asphalt shingles, CMU exterior bearing walls with painted finish; stand-alone hot water heater and septic system

Mechanical Systems

- No heating or cooling

Life Safety/Security

- None

Building Summary

The Athletic Field Restroom Building houses restrooms, utility space, storage, and a ticket booth.

The building is in good condition only requiring regular sustained maintenance. The existing septic system is aging and the capacity of the holding tank is undersized for actual use which may require replacement with a sewage grinder pump to tie into site sanitary lines.

Linganore Hall – Building L

Quick Facts

Building Type/Use

- Learning Commons/TV studio/classrooms/offices

Building Area

- Net Assignable SF – 38,156
- Gross SF – 54,014
- Number of Stories – 2

Constructed

- 1995

Renovated

- 2010 – Renovation of Room L104
- 2014 – Renovation of Room L205
- 2014 – Renovation of library to Learning Commons
- 2016 – Renovation of Rooms L208, L209 to Respiratory Care suite

Construction Type

- Concrete slab on grade and slab on deck, structural steel frame, open web roof joists and metal decking; primary roof area is steel framed hipped roof with standing seam metal panels, secondary roof area is flat built up membrane roof
- Exterior walls are metal studs with brick veneer, cast stone detailing up to 2nd floor sill elevation; metal sandwich panels band at roof elevation and entrances

Mechanical Systems

- High capacity air handling units, variable air volume (VAV) boxes and fan coil units (FCU) supplied with heated and chilled water by the central plant
- Rooms L102, L206 and L207: self-contained precision cooling glycol-cooled air conditioners
- Control Room: One split system unit ventilator with roof-mounted condenser
- Rooms L101E, L101F, L104A, L105, L109, L110, L114E, L114F, L202, L203, L208, L209, L216: Electric, baseboard heaters
- Mechanical rooms: Unit heaters supplied hot water from the central system

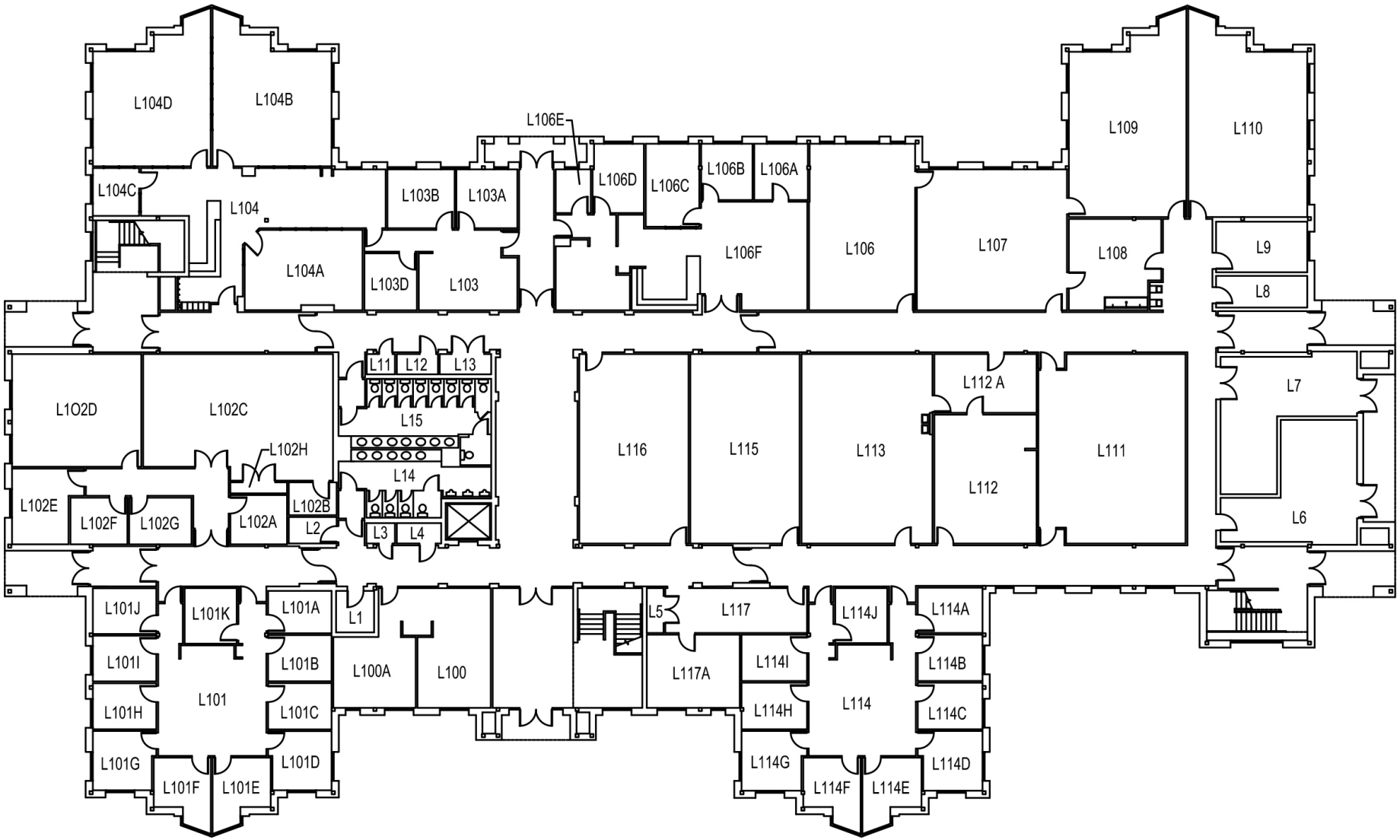
Life Safety/Security

- Fire sprinklers, hydrants, fire alarm system, extinguishers, security cameras, security door card readers and emergency phones

Building Summary

Linganore Hall houses the Learning Commons (Library, Tutoring & Writing Center, and Center for Teaching & Learning), Allied Health and Nursing Labs, Testing Center, Video Production Classroom and Lab, general classrooms, and offices.

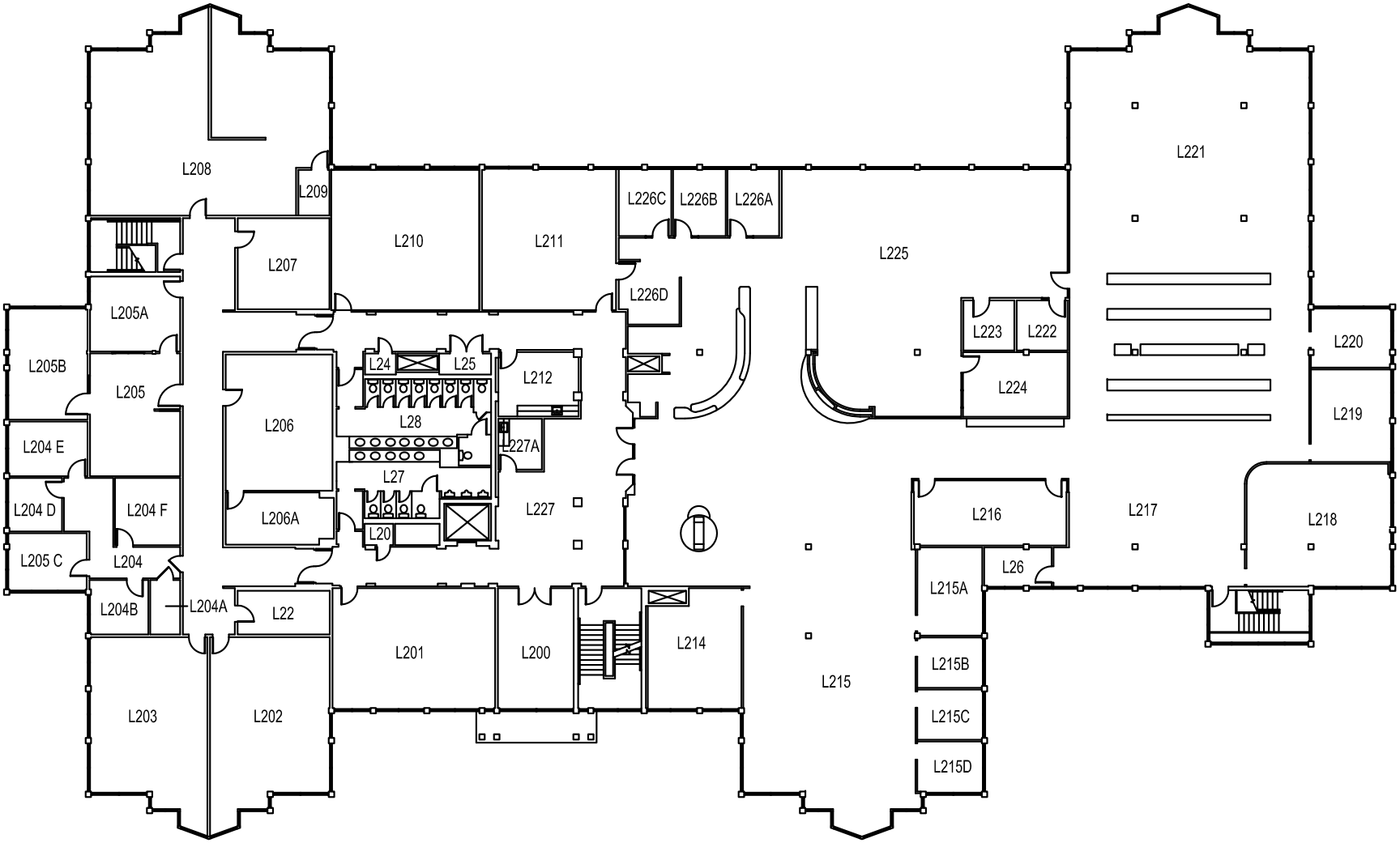
The building is in fair condition overall. The building exterior is in good condition. The Learning Commons was recently renovated as well as other smaller spaces encompassing more than three-fourths of the second floor. The first floor finishes, portions of the mechanical system, and elevator are beyond their useful life and will require replacement.



LINGANORE HALL

BUILDING L - FIRST FLOOR PLAN

Not To Scale



LINGANORE HALL

BUILDING L - SECOND FLOOR PLAN

Not To Scale

The Carl and Norma Miller Children's Center – Building M

Quick Facts

Building Type/Use

- Child Care Center

Building Area

- Net Assignable SF – 6,349
- Gross SF – 8,572
- Number of Stories – 1

Constructed

- 1994

Renovated

- 2002 – Addition and full renovation
- 2009 – Shed construction

Construction Type

- Original Building - Concrete slab on grade, conventional wood frame structure with wood trussed roof
- Addition – Concrete slab on grade, conventional metal stud frame structure with steel trussed roof
- Primary roof area is steel framed hipped roof with standing seam metal panels, secondary roof area connecting the original building to the new addition is flat built up membrane roof
- Exterior walls are brick veneer with EIFS on the fascia and soffit

Mechanical Systems

- Common areas: Air handling units, unit heaters
- Classrooms: Split system heat pumps with DX cooling/electric heat, energy recovery ventilators

Life Safety/Security

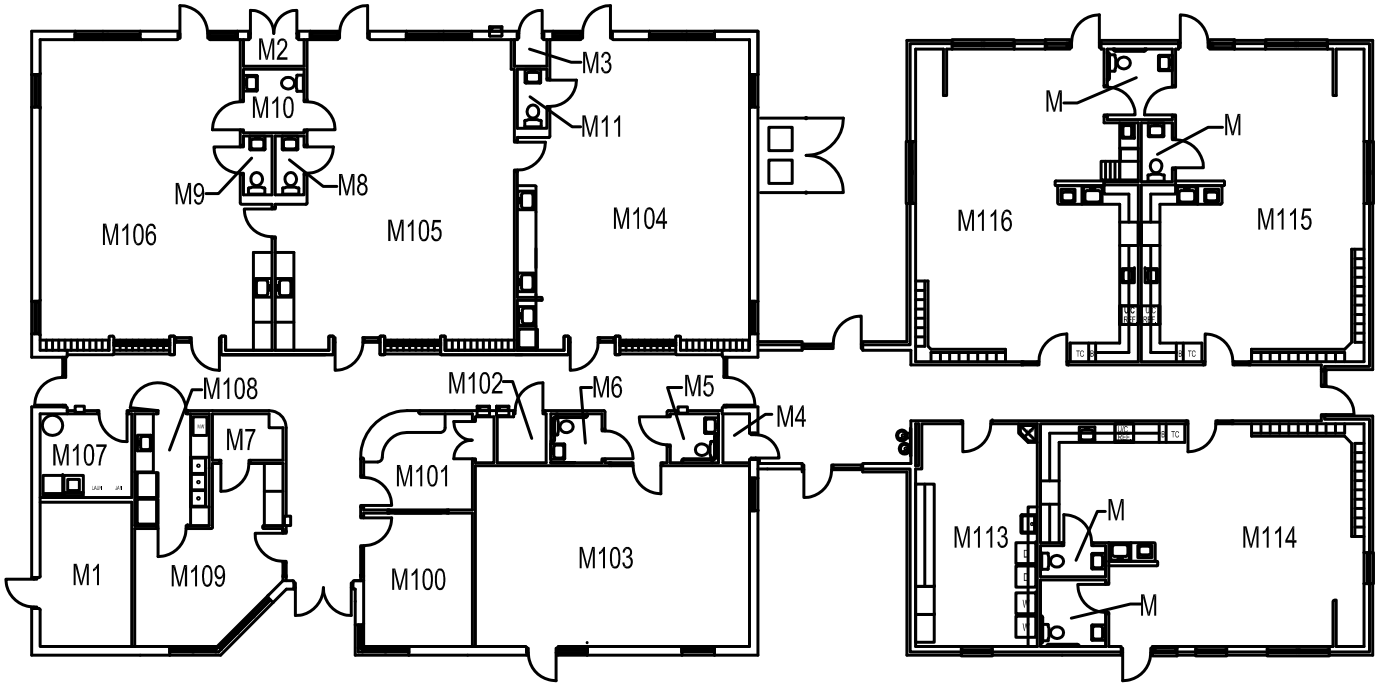
- Fire sprinklers, hydrants, fire alarm system, extinguishers, security cameras, security door card readers and emergency phones

Building Summary

The Carl and Norma Miller Children's Center houses child care classrooms, offices, work rooms, a small kitchen, and exterior playground equipment.

The building is in good condition requiring only regular sustained maintenance. Due to its age, the interior finishes are approaching the end of their useful life and will require replacements in a few years.

The fire alarm panel is original to the building and has surpassed its useful life and requires replacement. Also, the building is not equipped with an emergency generator.



MILLER CHILDREN'S CENTER

BUILDING M - FIRST FLOOR PLAN

Not To Scale

The Monroe Center - MC

Quick Facts

Building Type/Use

- Building Trades and Culinary Arts Programs classrooms/labs/offices

Building Area

- Net Assignable SF – 39,376
- Gross SF – 55,342
- Number of Stories – 1

Constructed

- 1969 – original building constructed
- 2009 – leased space by FCC
- 2010 – property purchased by FCC

Renovated

- 2008 – CETEC and SCIF grant upgrades
- 2010 – Culinary Arts renovations
- 2012 – Interior fit out and renovation
- 2017 – Renovation planned completion (in bid award phase)

Construction Type

- Concrete slab on grade with structural steel frame with open web roof joists and metal decking; roof areas are flat built-up modified bitumen membrane
- Building exterior walls are masonry walls with brick veneer with metal panel soffits

Mechanical Systems

- Stand alone system consisting of gas fired roof mounted air handling units; kitchen area contains make up air units associated with the kitchen hood, exhaust fans, and gas fired air handling units

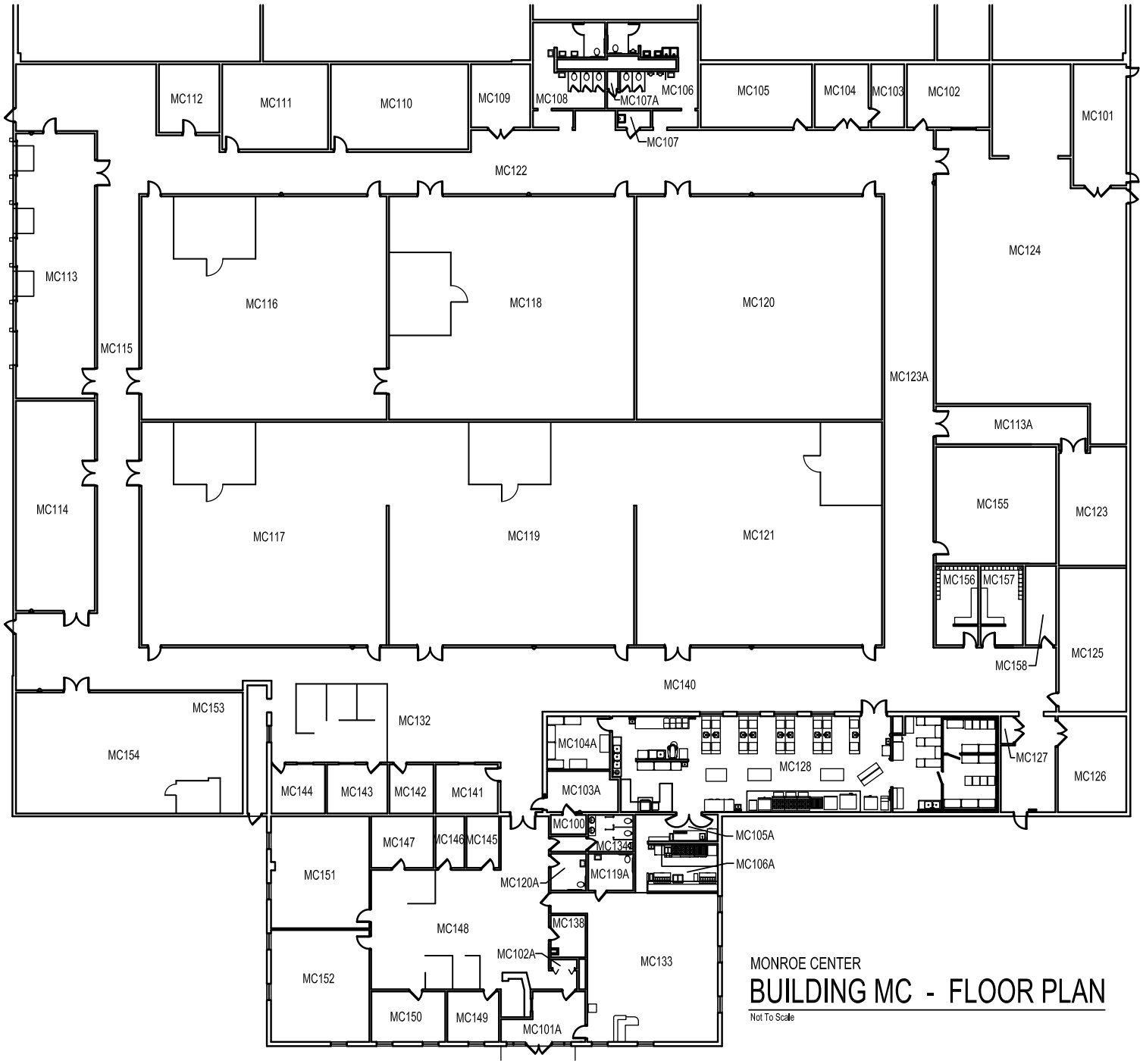
Life Safety/Security

- Fire sprinklers, hydrants, fire alarm system, extinguishers, emergency disconnects and shutoffs for lab equipment, security system, generator for emergency power

Building Summary

The Monroe Center houses offices, classrooms, and labs for Construction and Building Trades, Health Care and Wellness, and the Hospitality, Culinary, & Tourism Institute, including a commercial kitchen and demonstration restaurant.

The building exterior is in fair condition and is owned by the business condo association. The interior is beyond its useful life and no longer meets programmatic changes. A full interior renovation with some exterior updates began in fall of 2016.



MONROE CENTER

BUILDING MC - FLOOR PLAN

Not To Scale

Plant Operations - Building P

Quick Facts

Building Type/Use

- Maintenance/Storage

Building Area

- Net Assignable SF – 3,494
- Gross SF – 4,920
- Number of Stories – 2

Constructed

- 1996

Renovated

- 2003 – Addition
- 1980 – Community Center Storage (approx. date)

Construction Type

- Primary Building - Concrete slab on grade and slab on deck and slab on deck, structural steel frame, steel roof framing and metal decking; roof area is gabled roof with standing seam metal panels. Exterior walls are factory finished preformed metal panels and partially exposed concrete foundation with epoxy coating and brick veneer on original side at lower level.
- Community Center Storage – concrete slab on grade with conventional wood frames structure; wood framed hipped roof with asphalt shingles. Exterior walls are painted T1-11 plywood.

Mechanical Systems

- Stand alone system with an air handling unit, unit heaters, through wall air-conditioning; shop areas have heat only with mechanical ventilation

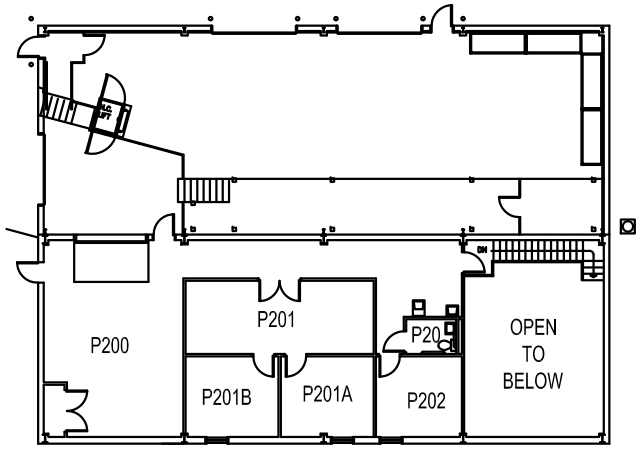
Life Safety/Security

- Fire sprinklers, hydrants, fire alarm system, extinguishers, security cameras, security door card readers and emergency phones
- Generator for emergency power

Building Summary

The Plant Operations building houses work bays with overhead coiling doors and office space for plant operations staff.

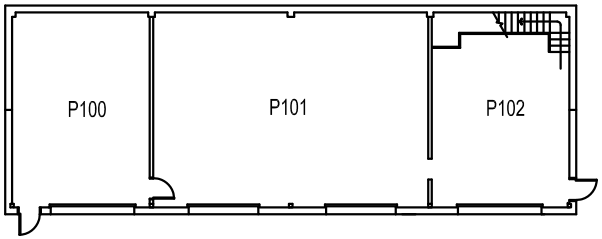
The building is in fair condition but entering into a deferred maintenance stage. Due to its age, the interior finishes are beyond useful life and require replacement. The fire alarm panel is original to the building and has surpassed its useful life and requires replacement. Also, the building is not equipped with an emergency generator.



PLANT OPERATIONS

BUILDING P - SECOND FLOOR PLAN

Not To Scale



PLANT OPERATIONS

BUILDING P - FIRST FLOOR PLAN

Not To Scale

Parking Deck

Quick Facts

Building Type/Use

- Parking Deck

Building Area

- Gross SF – 115,200
- Number of Stories – 4 parking levels, 365 parking spaces

Constructed

- 2012

Renovated

- None

Construction Type

- Cast-in-place concrete foundation and columns with precast double tee concrete deck and masonry walls. The exterior is precast concrete walls panels with architectural metal grilles, storefront entrances and standing seam metal roof panels on the stair towers

Mechanical Systems

- None

Life Safety/Security

- Sprinkler system, fire alarm, security cameras, emergency phone

Building Summary

The Parking Deck houses 365 parking spaces with associated support spaces.

The Parking Deck is in good condition requiring only sustained maintenance.

Storage Facilities

Quick Facts

Building Type/Use

- Modular trailers/storage

Building Area

- Net Assignable SF – 675
- Gross SF – 712
- Number of Stories – 1

Constructed

- 1970

Renovated

- No renovations to date

Construction Type

- Former double wide classroom modular converted to storage. Conventional manufactured wood frame structure supported by CMU piers; gabled roof with asphalt shingles

Mechanical Systems

- Modular 1: Window A/C units for cooling; electric baseboard for heating (not used at this time)
- Modular 2: Window A/C units for cooling; electric baseboard for heating

Life Safety/Security

- Modular 1: None (used as remote storage away from campus buildings)
- Modular 2: Dry pipe sprinkler system from adjacent Central Plant Building, fire alarm

Building Summary

Modular 1 & 2 is utilized for furniture and miscellaneous storage.

Modular 1 is located near the Parking Deck and is utilized for furniture and miscellaneous storage.

Modular 2 is located adjacent to Central Plant and is utilized for Plant Operations storage of painting and electrical supplies.

The buildings are in fair condition. The exterior will require regular sustained maintenance. The interior does not contain finishes that need to be maintained.

Quick Facts

Building Type/Use

- Maintenance and Tennis Storage

Building Area

- Net Assignable SF – 800
- Gross SF – 1,008
- Number of Stories – 1

Constructed

- 1993

Renovated

- None

Construction Type

- Concrete footings with masonry foundations and concrete slab on grade; conventional wood construction with painted T1-11 plywood exterior walls, soffits and fascia; hipped roof with asphalt shingles

Mechanical Systems

- None

Life Safety/Security

- None (remote storage building)

Building Summary

The Community Storage Building is used for grounds and athletic equipment storage.

The building is in fair condition requiring only sustained maintenance on the exterior.