FACILITIES MASTER PLAN
2015 – 2025
January 2023

Facilities Master Plan
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Hagerstown Community College
11400 Robinwood Drive
Hagerstown, Maryland 21742

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I. FACILITIES MASTER PLAN EXECUTIVE SUMMARY

Hagerstown Community College's Facilities Master Plan (FMP) is the culmination of a development process that includes academic planning, evaluating current facilities, analyzing trends, and preparing a plan for the future of the College. Due to changes in academic programming and enrollment, as well as in state and local funding, the FMP must remain flexible to align facilities planning with academic and strategic planning. Facilities and physical plant conditions are evaluated and discussed as part of the College's annual planning model. In turn, strategic plans are built on the annual analysis of facilities. This document reflects and incorporates these plans. Space allocations and the need for new facilities have been driven by program and service expansions, enrollment changes, projected needs based upon trends, and student expectations. The Facilities Master Plan, 2015 - 2025 provides a current plan for the systematic development of all major capital improvements in support of the mission, vision, goals and priorities of Hagerstown Community College (HCC). Facilities development and planning is fluid and continuous, resulting in updates to the document as necessary to support institutional planning.

The FMP establishes the framework for the systematic development of all capital improvements that support the mission, vision, values, and strategic initiatives of the college over a period of at least a decade. As college facilities change and adapt to meet both student and teacher expectations regarding instructional and non-academic spaces, as well as technology that is utilized to enhance teaching techniques and learning styles, institutional planning must incorporate modern construction methods, material, and equipment to meet energy efficiency and environmental requirements. It also includes an assessment of existing buildings and green space, utility and information technology infrastructure, environmental impact, roads and parking, as well as space needs and academic planning.

To meet the needs of its community and to remain competitive, HCC has experienced periods of significant, comprehensive, and coordinated facilities construction and renewal. As the first community college in Maryland, HCC began offering courses in September 1946, and is approaching 60 years on its current campus where the first buildings were constructed in 1966 and 1967. Over time, aging capital equipment, infrastructure, outdated technology, coupled with changes in construction, life safety and accessibility

codes necessitated the implementation of a significant renewal and renovation plan for the buildings on HCC's campus. During this time, the College facilities underwent transformation through construction of the Science, Technology, Engineering and Mathematics (STEM) Building in 2011 and in 2012, the Performing and Visual Arts Education Center, as well as renovation/renewal of the Kepler Theater, the Learning Support Center (former Science Building), the Behavioral Sciences and Humanities Building (former Classroom Building) and the addition of air conditioning in the ARCC. These facilities significantly address and enhance pathways to student success via renewed and expanded learning environments and support, while shifting the campus and instructional core to the southeastern side of campus. These facilities recognize, foster and support changes in pedagogy, teaching and learning styles, specialized learning environments, collaborative learning, and increasing student retention and completion. All of these projects, along with those proposed in this FMP help ensure that substantial investments in facilities construction and renewal contribute to the future of the College.

HCC continues to plan necessary comprehensive campus growth, coordinated facilities renewal and building construction in a way that enhances the learning environment and character of campus. HCC accomplishes this through its institutional strategic planning process, the results of which are incorporated into this FMP. These projects seek to provide needed instructional space and facilities to meet the ten-year growth of the campus.

Priority 1:	NACC Renovation Project (FY22 – FY23)
Priority 2:	Second Entrance Drive Widening Project (FY23 – FY24)
Priority 3:	Solar Project (FY23)
Priority 4:	Advanced Technology Center Renovation (FY24 – FY25)
Priority 5:	ASA Renovation (FY26 – FY27)
Priority 6:	Career Programs Roof Replacement (FY28 – FY29)
Priority 7:	ARCC Renovation (FY30 – FY31)
Renewal Grant:	Roof Replacements (FY25-FY27)

Renewal Grant: Campus Roads and Parking Lot (South/East) Overlays Project (FY29 & FY31)

Renewal Grant Chiller Replacement Project (with the next 10 years)

As an institutional plan, this document is divided into four integrated components. The first describes the College's role and mission, including the size, composition and characteristics of the College's faculty, staff, and student body. The second is an assessment and analysis of the existing facilities. The third is the plan to meet the identified needs and the fourth is the implementation strategy that describes the chronological order of the proposed capital projects.

II. OVERVIEW OF HAGERSTOWN COMMUNITY COLLEGE

Hagerstown Community College is a regional, comprehensive community college serving approximately a 50-mile radius of Washington County, in Western Maryland. The campus encompasses 319 acres of land two miles east of Hagerstown, near the junction of Interstates 70 and 81. The College has maintained accreditation by the Middle States Commission on Higher Education since its first review in 1968. HCC's unduplicated headcount enrollments peaked in FY13 and have continued a gradual decrease due to social and economic factors. HCC captures approximately 70 percent of the market share of local public high school graduates who go on to college.

Over the last decade, learning technology and pedagogy changed, along with student needs, goals, and expectations. To better meet the needs of its community and to remain competitive, HCC underwent a period of significant, comprehensive, and coordinated facilities construction and renewal. A significant renewal and renovation plan for the buildings on HCC's campus resulted from aging capital equipment, infrastructure, and outdated technology, coupled with changes in construction, life safety, and accessibility codes. Beginning in 2011, the College underwent a facilities transformation through the construction of the Science, Technology, Engineering and Mathematics (STEM) Building and the Performing and Visual Arts Education Center, as well the as renovation/renewal of the Kepler Theater, the Learning Support Center (former Science Building), the Behavioral Sciences and Humanities Building (former Classroom Building) and the addition of air conditioning in the ARCC. These renovated facilities have

aided the College in addressing and enhancing pathways to student success via modernized and expanded learning environments and support, while shifting the campus and instructional core to the southeastern side of campus. Additionally, these facilities serve to foster and support changes in teaching and learning styles, specialized learning environments, collaborative learning, and increasing student retention and completion.

Academic needs, facilities, and physical plant conditions on campus are evaluated and discussed as part of HCC's annual institutional planning model. In turn, strategic master planning builds on those annual analyses. To better meet the needs of its community and to remain competitive, HCC will continue to undergo coordinated facilities renewal through construction and renovation during the period covered by this plan.

College Mission, Vision and Values

The mission and vision statements provide a sense of direction to the College community. HCC's institutional effectiveness model is the blueprint for realizing the College's vision and attaining institutional renewal, facilities planning and development. The College's mission and vision are realized through the integrated implementation of that model, the College's strategic plan, the Student Learning Outcomes Assessment Plan, annual institutional priorities and operational plans, and other major institutional planning documents.

College Mission

Hagerstown Community College ensures equitable access to affordable, high-quality educational programs, while fostering workforce development and cultural vitality in the region.

Vision

HCC will be the college of choice through demonstration of inclusive educational excellence, transformative growth, and community enrichment.

Values

- Excellence
- Integrity
- Diversity and Inclusion
- Stewardship
- Civic Engagement
- Student Centered

Operational and Strategic Planning at HCC

The College's vision, mission, strategic goals, and institutional priorities serve as the cornerstones of HCC's planning model. The College's integrated planning, budgeting and evaluation model is the central process for the College's future growth and development. This "plan, do, assess, and adjust" model is the foundation for strengthening and continuously improving the institution. HCC strives to create a culture of evidence, built on effective planning with a focus on core processes in the areas of teaching, learning, outcomes assessment, planning, budgeting, personnel practices, curriculum development, marketing, enrollment management, student services, and enrollment trend analyses in all credit and credit-free programs. The effective use of institutional resources, including facilities, personnel, technology, and equipment, are critical to the fulfillment of the College's mission. Every fall semester, planning meetings are held in which key outcomes for each academic and non-academic unit are reviewed. Every unit presents its progress in meeting previous goals while introducing projected goals for maintaining productivity and improving results; resources needed to maintain or improve productivity (new personnel, supplies, equipment, facilities); a timeline for each goal; persons responsible; and assistance that may be required outside of the department. This information helps the administration and the Board of Trustees make resource-related decisions to better serve students and the community in a quality manner.

The planning culture and its core processes, along with the College's current strategic plan, are the foundations for facilities planning and development. The priorities and goals integrate factors such as demographic trends, community needs, current and future

programs, facilities, enrollment projections, and technology. The development and management of facilities are a critical environmental component of HCC's six strategic commitments. The commitments of the strategic plan include:

1. Ensure HCC's dedication to enrollment through excellent recruitment, outreach, and marketing strategies, guiding students to an affordable, high-quality education.
2. Design, promote, and deliver best practices of assessment and continuous improvement that are systematic, coordinated, and campus-wide.
3. Develop, strengthen, and implement focused retention strategies that foster completion and success.
4. Initiate the comprehensive integration of Workforce Solutions and Continuing Education into the culture, administration, services, and procedures of the college.
5. Develop and strengthen community partnerships to meet institutional needs and improve the economy of the region.
6. Strengthen the internal culture to enhance the campus community.

College History

Founded in 1946 as Hagerstown Junior College (HJC) as Maryland's first community college in response to the educational needs of World War II veterans, who constituted approximately 75% of its initial enrollment. HJC opened with an initial enrollment of 95 students, offering late afternoon and evening classes in the Hagerstown High School. In 1956, the College moved to a separate building on the grounds of South Hagerstown High School, making a daytime program possible. In 1965, ground was broken at the College's present location for the construction of the core campus buildings. Completed in 1966, the campus, which consisted of 129.4 acres, opened with an enrollment of 782 students. It received full accreditation from the Middle States Association of Colleges and Schools (hereafter Middle States) in April 1968.

In 1973, HJC acquired the Washington County Board of Education's Vocational Technical Center, which became the Career Programs Building, as well as 59.6 acres for its athletic fields. In 1997, the College acquired 7.9 acres for construction of a storm water management pond, which was completed in 2000. In July 1998, the College changed its name to "Hagerstown Community College" to reflect its mission and role in its community. In April 1999, the College purchased 116.8 acres that adjoin its property for

future development and to insulate it from encroaching residential development. In 2000, the College acquired 9.3 acres. Then, in 2004, HCC gave four acres of land to Washington County for future road easements and enhancements. This agreement made available county funds that would have been required to purchase the land, allowing the county to provide additional funding for construction projects at the College. With the last land transaction, the College has a total of 319 acres of land.

Six of the College's 20 buildings are original to the current campus location. Most were renovated and repurposed since 2002 for today's technology and changes in educational programs, diverse student learning styles and needs, and compliance with ADA regulations. Those renovated facilities include the Student Center (original library), Administration and Student Affairs (former Administration Building), Career Programs Building, Learning Support Center (original Science Building), Behavioral Sciences and Humanities Building (former Classroom Building) and Kepler Theater.

Unique Institutional Characteristics

HCC's location and campus is uniquely located in a tristate area of Maryland where the Washington County border touches Pennsylvania and West Virginia. Proximity to HCC makes the commuting range for out-of-state students more practical and convenient than other education/training options in the region (Map 1). Washington County residents accounted for 70.9 percent of fall 2022 enrollment, while 6.5 percent were residents from other Maryland counties. Out-of-state residents accounted for 22.7 percent of the fall 2022 credit enrollment. Of those, residents from Pennsylvania accounted for 73.4 percent of all out-of-state students. Furthermore, on average 74 percent of Washington County Public Schools (WCPS) college-going graduates attend HCC, the only institution offering the first two years of postsecondary public education in the county.

Map 1

Hagerstown Community College Commuting Region

As part of the Appalachian Regional Commission, the College participates in initiatives designed to foster increased educational opportunity in a region that's long-known for economic challenges and lower-than-average education levels. One of Washington County's challenges is the low rate of educational attainment. Based upon the latest American Community Survey, of Washington County residents aged 25 or older, 30.6 percent have at least a two-year degree, compared to 49.5 percent of Maryland residents. Only 22.6 percent of Washington County residents have bachelor's degrees, compared to 41.6 percent for Maryland as a whole and 35 percent in the nation. The county's median household income ($67,349) is below the state's ($91,431). HCC students reflect the economic challenges of the county with 73 percent of HCC credit students receiving financial aid during FY21 and approximately 32 percent receiving Pell grants.

Washington County is a commercial and major transportation "hub" in the mid-Atlantic region. As a center of north-south and east-west highways (Interstates 70 and 81) and railroads (CSX and Norfolk-Southern), the junction of these transportation hubs has enhanced the County's role in the trades and services industries in the tristate region extending from the area around Chambersburg, PA to Martinsburg, WV. HCC has had many programmatic and economic development opportunities as a result. As an example, over recent years, the number of Commercial Vehicle Transportation certificate and degree awards annually averaged approximately 60 and those completers were immediately employed in the trucking, warehousing and manufacturing businesses in the tristate region. Additionally, the interstate highways bring Washington County within a 70-mile drive from the Baltimore and Washington DC metropolitan areas. Subsequently, the Federal government has located a number of critical facilities along the I-81 corridor, including Martinsburg, WV, and Winchester, VA.

Building upon its successful early college and dual enrollment programs, HCC began its Science, Technology, Engineering, Math and Medical Middle College (STMC) in fall 2013 in partnership with Washington County Public Schools. After expanding its offerings, this program has been renamed the Early College Degree Program to better capture the nature of the program. Through the Early College Degree program, qualified high school students are given an opportunity to earn college-level certificates (approximately 30 credits) and associate's degrees (60 credits) while completing their high school graduation requirements.

Moreover, HCC is designated as one of six community colleges nationally by the National Security Agency and Department of Homeland Security as a National Center of Academic Excellence in Information Assurance Education - 2-Year (CAE2Y). This distinction enables students to transfer seamlessly from HCC to four-year institutions.

The Fletcher Faculty Development Center supports excellence in teaching by providing a place and resources to help the college's faculty maintain and continually improve a responsive, dynamic curriculum and teaching excellence. Throughout the academic year, the Center hosts workshops on innovative and effective teaching strategies and learning topics, and houses resources on such teaching and learning topics as course design, community colleges, career development, science teaching, and assessment.

The mission of the HCC Learning Support Center (LSC) is to engage and empower students to become independent, resourceful learners. The LSC is a hub where students, learning support specialists, and faculty work as a team to reach common academic goals. Fostering an optimal learning environment for supplemental instruction, the LSC provides academic support to all students taking credit and non-credit courses at HCC. LSC services include individual drop-in tutoring, workshops, and specialized assistance with specific populations, staff- and peer-led group tutoring, and a nursing simulation lab to provide nursing students with a quiet and private space to practice nursing skills and assessments.

Organizational Structure

A summary of the College's organizational structure follows. Note that the bullet indicates academic divisions or major non-academic units/areas of responsibility and circles represent departments.

Office of the President

- College Advancement
  - Grants Development
- Human Resources
  - Campus Police and Safety
- Planning and Institutional Effectiveness
- Public Relations and Marketing
- Information Technology
- CBES/David W. Fletcher Incubator & Labs
- Facilities Planning and Management

Office of the Vice President of Academic Affairs and Student Services

- **Academic Divisions**
  - Business/Social and Behavioral Sciences
  - Developmental Education and Adult Literacy Services
  - English and Humanities
  - Health Sciences
  - Mathematics and Sciences Nursing
  - Exercise Science and Health
  - Technology and Computer Studies
- **Dean of Instruction**
  - Library Services
  - Early College Degree Program
- **Dean of Distance Education**
  - Learning Technologies
  - Fletcher Faculty Development
  - Academic Testing Center
- **Dean of Student Affairs**
  - Student Financial Aid
  - Retention and Registration (credit)
  - Admissions and Enrollment Management
    - TRIO Upward Bound
  - Athletics
  - Disability Services
  - Registrar
  - Student Activities
  - Student Services Grants
  - TRIO SSS
  - Internships and Job Service
  - Veterans

Vice President for Administration and Finance

- Accounting, Finance and Budget
- Business and Procurement Services
- Campus Store
- Campus Food Services
- Digital Printing and Design Services

Dean of Planning and Institutional Effectiveness

- Institutional Research and Effectiveness
- Operational Planning
- Strategic Planning
- Facilities Planning
- Middle States Accreditation
- Federal and State Reporting

Dean of Continuing Education and Workforce Development

- Technical Innovation Center
- Adult Education
- College for Kids
- Transportation and Drivers Education
- Business and Professional Development
- Licensing and Professional Career Education
- Industrial Technology and Trades
- Health and Wellness
- Prison Programs
- Animal Care and Veterinary Office Careers
- Lifelong Learning

Curriculum

Over the last 20 years, the number of credit programs has expanded from 34 to 100 (Appendix A). Approximately 65 percent are career or occupational degree programs, certificates or letters of recognition. HCC has invested in several new high-skill, high-wage programs and facilities for dental hygiene and dental assisting, alternative energy, cybersecurity, advanced manufacturing, and biotechnology. Several of the College's programs are accredited, and include nursing, practical nursing, dental assisting, and dental hygiene.

Continued program/curriculum growth has a concomitant influence on academic planning, facilities planning, institutional priorities, student outcomes and completion, instructional design, and faculty loads and qualifications. To respond to students' and community needs and ensure proper allocation of resources, HCC programs, enrollment and curriculum are reviewed on a regular basis through the College's annual planning and evaluation process, as well as through the Curriculum Development and Review Committee. The College conducts ongoing reviews of student markets to determine whether appropriate courses and programs exist and that the necessary instructional designs, course schedules, and support services are in place. The College also must prepare to address other changes in pedagogy, including increased and earlier instructional use of specialized learning environments and a continued emphasis on collaborative learning.

Enrollment

Credit Enrollment

The student profile and mix, as well as student needs, educational aspirations, and support expectations, have changed over the decade. Approximately 41.8 percent of the College's student population has self-identified as first-generation college students, giving further evidence of the vital role the institution plays in the lives of local citizens. As Washington County's population has become more diverse, HCC has also seen its student body become more heterogeneous with an increased desire by a majority of them to use HCC as a pathway to marketable skills and satisfying careers. In fall 2022, 29.8% of HCC students were from minority backgrounds, an increase from 2012 when slightly over 20% of HCC students were ethnic minorities. For comparison purposes, about 24% of Washington County residents are from minority backgrounds, so HCC has responded effectively to the increased diversity in our service area.

In fall 2022, 32 percent of credit students were enrolled full-time and 68 percent were enrolled part-time. In fall 2022, 34 percent of students were male and 66 percent were female. Approximately 74 percent of enrolled students were 25 years of age or younger. This reflects the growth of the early college access and early college degree high school population. Marketing, recruitment, and programming efforts are targeted to attain greater penetration into this traditional age population, which impacts instructional and non-instructional spaces because young students tend to enroll for more classes and spend more time on campus.

Non-Credit Enrollments

Continuing Education (CE) student demographics for FY22 show unduplicated headcount for the year was 4,871 (775.97 eligible FTE). The average age of the CE student was 37.5, and men accounted for 46 percent of enrollees. Courses often use curriculum developed to meet industry standards, and upon successful completion of the course, students are awarded national certification. For example, HCC partners with agencies to provide nationally tested and normed curriculum for supervisory and management business programs. In other instances, curriculum is developed and submitted to agencies for approval. Examples of such

programs include nursing as well as real estate courses approved by the State real estate commission. Additionally, student evaluations within credit-free classes address questions related to quality of the instruction, course material and expected outcomes.

Off-Campus Instructional Sites

The College has offered off-campus programs for most of its history at its current location. Though off-campus sites enhance accessibility by establishing a post-secondary presence at strategic and convenient locations, many of the College's off-campus sites were established because of a lack of adequate space or facilities on-campus.

HCC has offered classes for non-credit courses since 1995 at its Valley Mall Center (VMC). The mall location, at the crossroads of Interstates 70 and 81, provides the community with a viable option for educational opportunity as accessibility is enhanced by convenience. Credit offerings began at the VMC over a decade ago.

HCC has been involved in prison education since 1969. Credit-free courses have been offered at Maryland Correctional Institution, Maryland Correctional Training Center and Roxbury Correctional Institute, all located in Washington County south of Hagerstown. Vocational programs include carpentry; basic electrical wiring; masonry; plumbing; meat cutting; HVAC; and graphic arts. Instructional programs include adult basic education; reading and basic education math; and transition and employment readiness courses.

HCC's Commercial Vehicle Training education and training program is currently located at a leased location in an industrial park near the Washington County Regional Airport with plans to move to the new NACC facility upon completion. The program helps meet the increased workforce needs of trucking, warehousing and manufacturing businesses in the service region. To date, HCC's capacity to expand programming on campus has been limited by the lack of a dedicated driving range, facilities, and insufficient equipment (e.g., tractors, trailers). The new facility will alleviate these limitations allowing the program to expand.

Distance Education and Online Learning

The College has been using information technology in instruction for many years to improve learning and curricula, as well as to increase access to higher education in the service area. Courses, as well as several programs, have been delivered in two modalities

- exclusively online and hybrid. Even before the COVID-19 pandemic, distance education allowed students to take classes that fit their schedules, alleviating the obstacles of transportation, time and space. As an institutional priority, faculty continue to expand online course and program options to meet increased student demand for distance education offerings. Similarly, student services and academic support personnel provide students with supplemental online support services needed for them to succeed. This project has brought about significant improvements in both the process and outcomes of web-based educational applications, as well as related employee professional development.

Enrollment Projections

Based upon Maryland Higher Education Commission (MHEC) enrollment projections (Table 1), the College is projected to experience from fall 2022 through fall 2032 a growth of 23 percent in overall headcount, with 37 percent in full-time headcount and 17 percent in part-time. It is expected that there will be an increase of 35 percent in full-time equivalent (FTE), and 35 percent in full-time day equivalent (FTDE) during that same period.

Funding HCC's future is complicated because it depends on a number of variables beyond the College's control. It requires reasonably accurate enrollment projections and thoughtful plans for the investments needed to support enrollment changes, new programs and services, and changes to annual institutional planning priorities and initiatives. These increases will have a definite impact on College facilities. This rate of growth is consistent with the anticipated growth in full-time students and the larger credit loads they are expected to carry. Enrollment growth is expected to come from deeper penetration into the local high school market, non-traditional aged students and migration from counties east and southwest of Washington County. Much of the County's growth will continue to be the result of affordable housing and a better quality of life as costs increase in metropolitan areas.

Table 1
MHEC Projections of Credit Headcount, Full-Time Equivalent and Full-Time Day Equivalent Enrollment

	FALL 21 FY 22 Actual	FALL 22 FY 23 Projected	FALL 23 FY 24 Projected	FALL 24 FY 25 Projected	FALL 25 FY 26 Projected	FALL 26 FY 27 Projected	FALL 27 FY 28 Projected	FALL 28 FY 29 Projected	FALL 29 FY 30 Projected	FALL 30 FY 31 Projected	FALL 31 FY 32 Projected	% Change 2022-2032
Full-time	1,136	1,519	1,527	1535	1,544	1,546	1,548	1,550	1,551	1,554	1,557	**37%**
Part-time	2,396	2,729	2,741	2,753	2,765	2,770	2,774	2,779	2,784	2,789	2,796	**17%**
Total Headcount	3,532	4,248	4,268	4,288	4,309	4,316	4,322	4,329	4,335	4,343	4,353	**23%**
FTES	2,266	2,989	3,004	3,018	3,034	3,264	3,039	3,043	3,048	3,051	3,063	**35%**
FTDES	1,355	1,787									1,831	**35%**

In addition, MHEC projects that non-credit FTE is projected to increase by 13 percent during that same period. It is hoped that with economic development and recovery, there will be greater increases as a result of expanded contract training and program offerings based upon customer/community needs and the College's environmental scanning reports.

HCC Employees

Employee classifications are analyzed in regard to verifiable outcomes produced, and adjustments may be made annually to the number and function of all classifications, especially during difficult economic times. However, what is most important is that the College continues to plan for future staffing to address priority needs within the limitation of available resources; especially in areas where understaffing may negatively impact the institutional mission. The staffing model for the future must take into account external changes to the workforce such as retirements of baby boomers and entry by millennials and gen z. These are very different types of

employees and have very different work styles, which adds to the challenge of human resource management, but also adds to the diversity of thought and potential for process improvement.

Of the 459 employees reported in MHEC's Employee Data System in fall 2022, 284 or 61.9 percent were full-time. In terms of instruction, full-time (76) and adjunct (129) credit instructional faculty account for 44.7 percent of all employee classifications. Continuing Education instructors account for 5.2 percent of all employees.

Employee Projections

With limited public funds and resources, the College has managed to keep pace with staffing, diversity and workforce development issues, including providing adequate office space and other support facilities. HCC has done a good job maintaining the correct number of faculty and non-faculty staff are needed to sufficiently support the MHEC student enrollment projections. The faculty and staff projections seen in Table 2 are based upon CCL Table 2 and parallel the anticipated enrollment and revenue increases, which drive facilities planning and needs. It is important to note that projected positions may be newly created or be created when funds are reallocated from one unit to another to support a position in a unit with greater need, regardless of employee classification. Positions or funds for positions, as well as support resources, are reallocated if they better meet students' needs, maximize efficiency and support the College's vision and priorities. As part of HCC's annual planning process, the need and prioritizations of new or replacement full-time faculty positions are reviewed and driven by institutional priorities, program growth and anticipated community needs. Although the projections reflect anticipated needs overall, growth in health sciences and new occupational programs make these high priorities in the allocation of the new faculty positions, which, in turn, impact facilities planning and budgeting. HCC maintains acceptable faculty ratios in occupational programs, i.e. health sciences, which must follow accreditation standards or where there is competition with private industry. Projections (Table 2) based upon the CCL show that within the decade full-time credit faculty are showing a slight increase of increase of new or reallocated positions. Projected growth is based on the College's goal to increase its ratio of FTE staff to FTE faculty, a staff planning goal comparable to sister institutions.

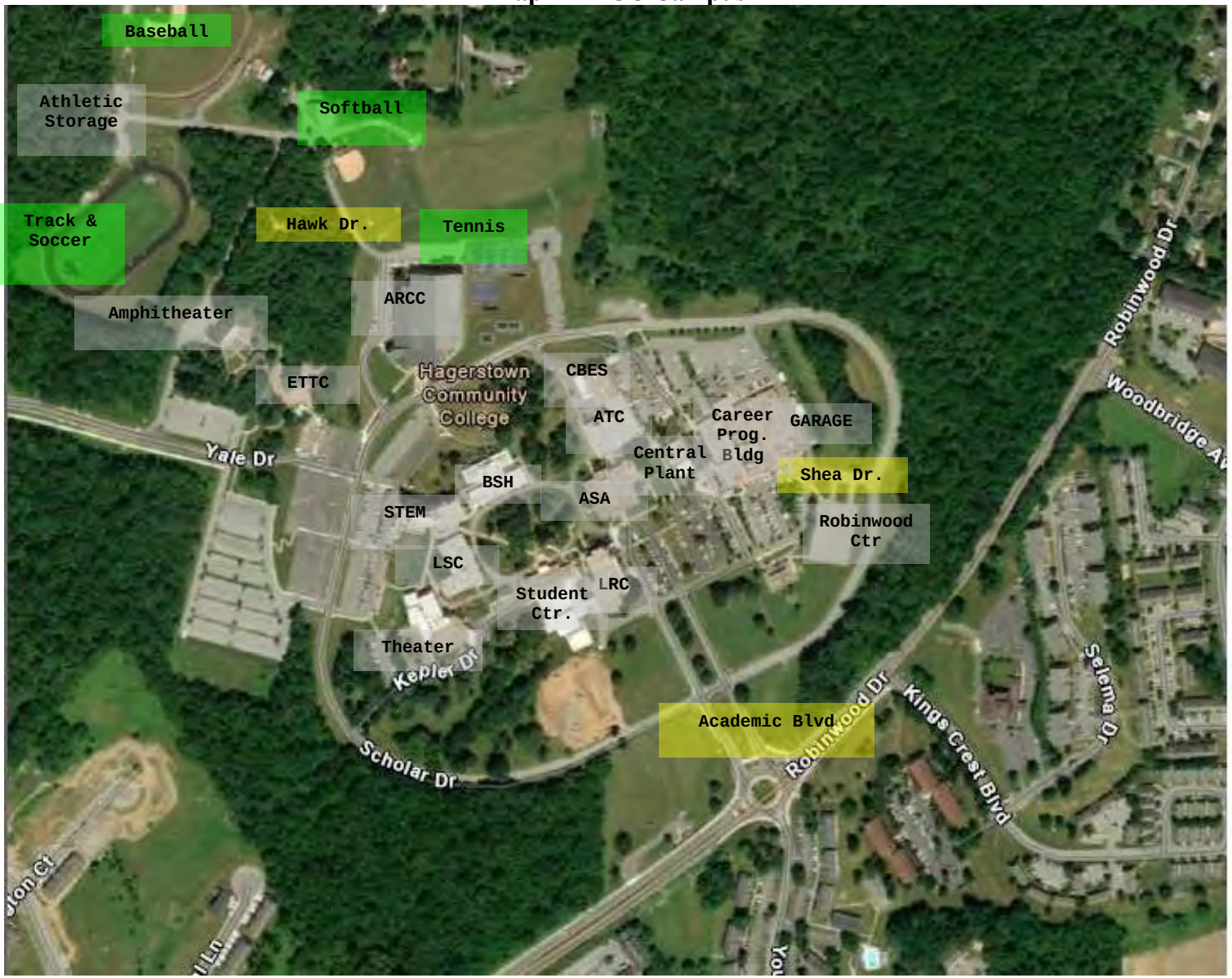
Table 2
Workforce Projections: Fall 2021 – 2031
(Based upon CCL tables, July 2022)

MHEC Planning Classification	Actual Fall 2020	Projected Fall 2030	Ten year % Change
Full-time Faculty	73	90	23%
Part-time Faculty	162	199	23%
FTE Faculty*(FTEF)	117	144	23%
Full-time Staff	209	257	23%

III. ASSESSMENT AND ANALYSIS OF LAND AND FACILITIES

Hagerstown Community College's physical plant is 55 years old and has been updated many times to keep up with new equipment. Many of the original buildings on the HCC campus were constructed in the 1960s and 1970s and reached a point in their life cycle expectancy in which major building system upgrades/ renovations were required. HCC purposefully pursued a Capital Improvement Plan (CIP) of new construction, expansion, and renovations over the last ten years to plan for new construction and renovations to address upgrades for aging capital equipment and outdated infrastructure. College facilities must change and adapt to meet both student and teacher expectation. More instructional, extra-curricular, and study spaces on campus are required to meet the needs of new programs, changing enrollments and student diversity. Technology, adjustments for updated life safety and accessibility requirements, new storm water regulations, and forestation requirements also necessitated the need for improved facilities on the HCC campus, while incorporating modern construction methods, material, and equipment to meet energy efficiency and environmental requirements. A campus map (Map 2) is found on the following page.

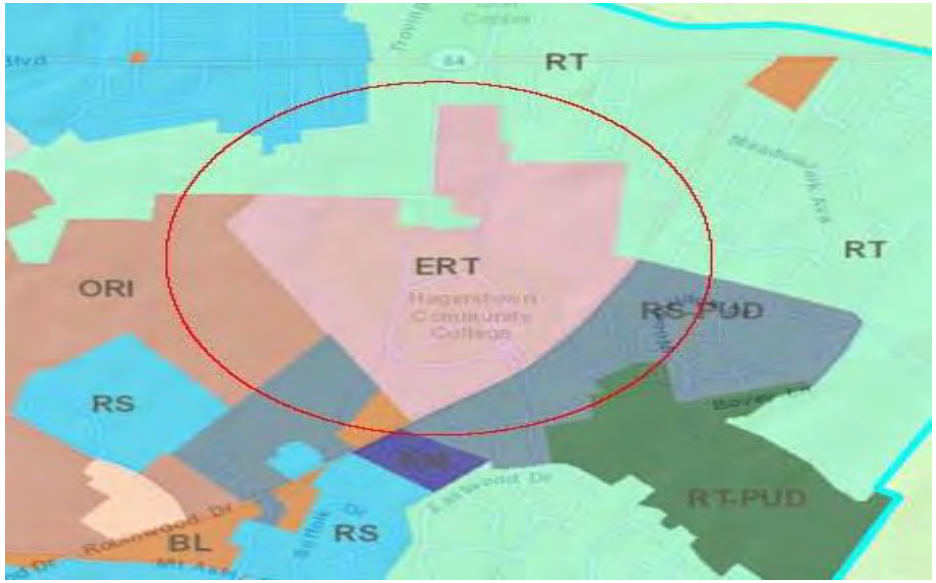
Map 2 – HCC Campus



Assessment and Analysis of Land

Zoning

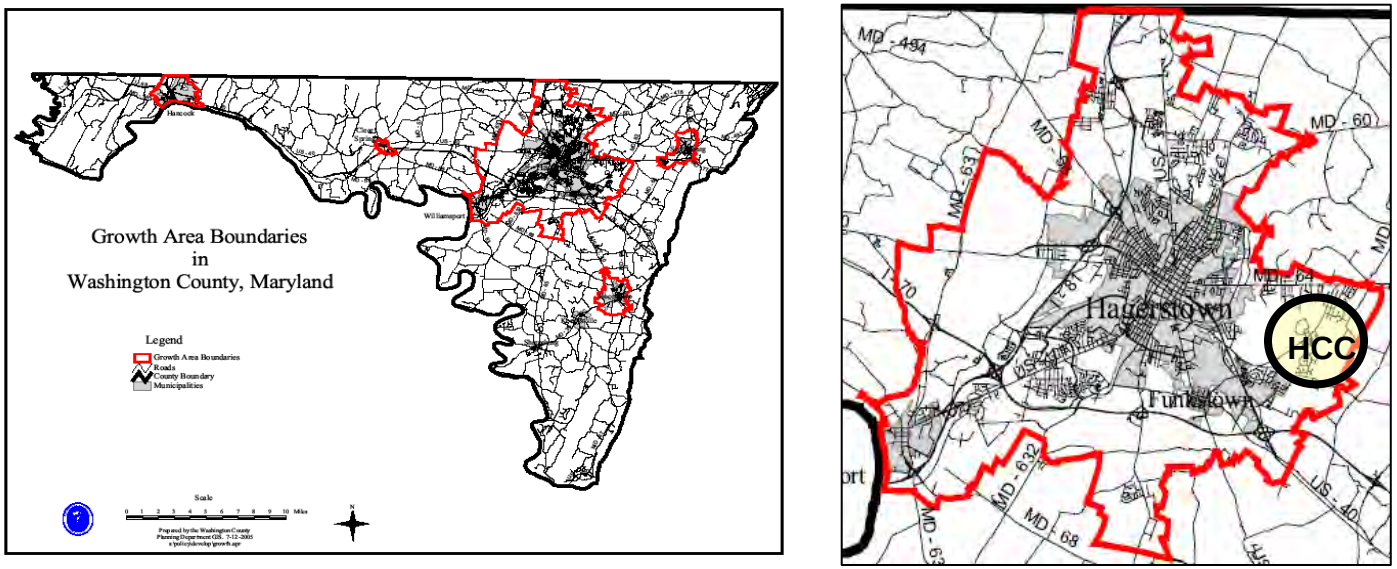
Hagerstown Community College is zoned as Education, Research and Technology (ERT) as seen below (Map 3). This zoning ordinance permits construction of all academic and academic support buildings, including classrooms, labs, athletic facilities, and food service facilities. It also permits construction of facilities for start-up businesses and business incubators. Commercial research and development facilities as part of a start-up business are permitted by special exceptions and specifically included in the zoning ordinance verbiage. Special exception must still be requested from the county before such a facility can be constructed.



Map 3 – Washington County Zoning Map

The area in which the College is located is designated as an "Urban Growth Area" (Map 4). Currently 48,237 acres or 16 percent of Washington County is designated as such. Much of the area's growth was driven by the increase of population migrating

from expensive metropolitan areas to the more affordable Washington County. Maintaining accessibility, a primary mission of community colleges, is critical to meeting enrollment goals. HCC remains the most affordable among postsecondary educational and training options in the College's service region.



Map 4 – Washington County Urban Growth Map (Urban Growth Areas outlined in red)

The Campus

Hagerstown Community College Campus initially began with 129 acres. In 1973 the campus acquired the Washington County Vocational Technical Center facility, which later became the Career Programs Building, and 59 acres were added for athletic fields. HCC purchased 116.8 acres in 1999 and 9.3 acres in 2000. In 1996 the College acquired eight more acres for eventual construction of a storm water management pond. The College gave four acres to the County for road easement and improvements, increasing the total property to approximately 319 acres. A table summarizing campus acreage follows.

Table 3
Campus Acreage

Type of Usage	Number of Acres
Buildings	**12**
Playing Fields	**10**
Lawn	**35**
Storm Water	**10**
Forest Conservation	**46**
Wetlands	**2**
Parking/Roadways	**24**
Undeveloped	**180**
TOTAL	**319**

The campus consists of 23 permanent buildings, eight storage sheds, a soccer field with a surrounding eight-lane track, a baseball field, a softball field, and six tennis courts. There are 29 gardens, 22 parking lots, and seven named roads. Most of the buildings are located in a 30-acre area inside or adjacent to the Scholar Drive loop, which constitutes the core of the campus. The exceptions are the Amphitheater and three storage/support buildings near the athletic fields. The area actually covered by buildings on campus is approximately 535,048 square feet, or 12 acres. All of the academic buildings on campus can be reached on foot, from the farthest building or parking lot, in less than fifteen minutes. The average walking time from the Student Center to any other building is approximately five to seven minutes.

Boundaries

In March 2007, HCC contracted with the civil engineering firm of TRIAD Engineering to perform property records research, complete a property survey, and mark the property lines to establish accurate campus boundaries. The property lines for the eastern campus (Map 5) and western campus (Map 6) follow.

Forest Conservation Plan

The Washington County Commissioners adopted a Forest Conservation Ordinance on in 1993, which requires compliance by all new development. The College's approved Forest Conservation Plan is recorded in the land records of Washington County. Approximately 86 acres of forest retention are required for the campus. Forty six acres are currently within easements and an additional 40 acres are held for retention. The Forest Conservation plan will be reviewed in the near future and evaluated for necessary updates. Consideration should be given for development of some of the forest retention areas along the western property line and replacing these with forest retention to the east.

Map 5
Property Line – Eastern Campus

Map 6
Property Line – Western Campus

Gardens

Hagerstown Community College is currently home to several gardens and plantings, many given in perpetuity from alumni, family, friends and supporters of HCC. The College has guidelines regarding the establishment, naming, maintenance, and discontinuance of gardens and plantings on campus. Some of the gardens are supported by the HCC Foundation through the Mabel R. Walter Arboretum Endowment. The Mabel R. Walter Arboretum includes flowerbeds and formal gardens, and is a wildlife sanctuary. Interest generated from the AEF is used for maintenance, and for the purchase of equipment, supplies, trees, plants, and replacement plantings. Older gardens that were relocated or died were combined in a Garden of Memories that includes a plaque that lists their names.

A new garden and landscaping plan is part of the Campus Development Plan that should reduce the number of maintained gardens and create some low maintenance landscaped areas. The new plan should be able to be maintained by the limited amount of staff in the Grounds Department. The new plan will be implemented over the next few years.

Waltersdorf Quad

Approximately 80 percent of the College's core buildings are located on top of the largest hill on campus. Prior to 2011, non-ADA compliant sidewalks that accessed the buildings formed a complete circle around the hill but the roadway stopped in front of the Science Building. The Waltersdorf Quad enhanced and facilitated movement among and between the Arts and Sciences Complex buildings by improving walkways. The Quad will have tribute areas throughout to encourage community involvement with the College. The first, dedicated in fall 2011, was the Waltersdorf-Henson Tribute area, in honor of Mr. Waltersdorf and Richard Henson, another prominent businessperson in the county. The second tribute area honored Margaret Hetzer, a deceased trustee of the College. A roadway named Student Circle was completed and provides road access for fire, rescue and emergency equipment to all buildings located in this area. Moreover, a series of terraced seating walls and garden walls were added. The terraced seating walls were

incorporated with improved and widened walkways designed for better pedestrian flow between Kepler Theater, the new walkways adjacent to the STEM Building, and the Student Center.

Waltersdorf-Henson Tribute Area

Hetzer Tribute Area

Wetlands

Of the College's 319 acres approximately two acres are wetlands. The primary wetland area is located behind the CBES and ARCC. The wetlands, which are part of the 100-year flood plan, resulted from underground springs and sink holes. As sinkholes are being repaired, the wetlands are dissipating.

Sink Holes / Wells

In 2007, TRIAD Engineering performed a Fracture Trace Analysis to determine the location of sink holes and potential problem areas. Ten sink holes were identified on the property. Seven are located in the woods west of the main campus and require no remediation. The other three sink holes are located along the northwest corner of campus next to the ARCC and have been remediated. Additionally, some perennially wet areas have partially or completely dried.

The fracture trace analysis also provided potential locations for wells. HCC installed two wells for general irrigation purposes for athletic fields and some gardens. An additional well was drilled near the Central Plant for the cooling towers and the CP plaza fountain. As part of the Waltersdorf Quad project, HCC ran an irrigation line to the west side for irrigation. An additional well was drilled in 2013 between the STEM and Theater to irrigate landscaping.

Geothermal wells were installed by the College for its Alternate Energy Program. The first geothermal well is located next to the STEM Building and is connected to the Alternative Energy Lab on the second floor. The second was drilled and was connected to the Energy and Trades Training Center, which was built in 2019.

Storm Water Management Areas

The Washington County Storm Water Management Ordinance requires that for any construction activity disturbing over 5,000 square feet of area, a storm water management facility must be constructed. Working with the County Engineer's Office, it was determined that large central ponds were preferable to several small storm water management ponds / basins because the campus lies principally within two different drainage areas. One drainage area flows along the north and west sides of the existing Athletic Recreation and Community Center. The other drainage area flows along the eastern boundary line across the entrance roads to Robinwood Drive. The high point of the drainage divide runs south of the Learning Resources Center.

In 1997, the College acquired 7.9 additional acres in the northwest corner of the campus to construct a regional storm water pond to satisfy current and future campus development plans. The central storm water management area is located to receive runoff at the low point of the property.

Storm Water Retention Pond

Access and Interior Roads

The College's primary entrance is on Robinwood Drive. The County completed construction in fall 2016 of the new second entrance on the northwest side of the campus, which connects the County's Yale Drive to HCC's Hawk Drive. The County started construction of a bridge that will link Yale Drive to Professional Court, which is off of Eastern Boulevard in Hagerstown. This will provide easier access to campus for those traveling from the northwestern areas of Hagerstown and Washington County, the northern I-81 corridor in Maryland and Pennsylvania. It is projected in a few years that this will become the primary entrance of the Campus. A road realignment project is planned to help keep pedestrians safe on campus away from vehicular traffic. The project calls for a circle as you enter Yale Drive onto campus the road will be rerouted behind parking Lot K and on the other side of Scholar Drive will be relocated behind the ARCC. Details of the upcoming project are listed in Section 6 Priority 2.

Once you enter campus from Robinwood Drive, the roadway tracks into and out of the parking area in front of the Administration and Student Affairs (ASA) Building and adjacent parking lots. Turning right at the end of Academic Blvd leads to Shea Drive, which passes in front of the Robinwood Childcare Center and makes a right turn at the Career Programs Building, connecting to Scholar Drive. Scholar Drive is accessed by making a left or right turn mid-way down Academic Boulevard. Scholar

Drive then loops around the campus, returning to Academic Boulevard. There is a parking lot between Scholar Drive and Lot E. The new parking lot is accessed from Shea Drive. It is also designed to serve as an instructional lot for motorcycle safety courses. The Campus Map (Map 2) shows new roads and parking lots. The improvements to the Waltersdorf Quad area created a roadway that circles in front of the Behavioral Sciences and Humanities Building, STEM, Learning Support Center and Student Center. This road, known as Student Circle, is accessed from Kepler Drive or through Parking Lot I.

Some roads on campus are deteriorating and the roads leading to the athletic fields are not paved. Heavy construction equipment, snow plowing and salt treatments are contributing to the wear on campus roads. HCC attempts to budget and schedule repair of roads annually as part of its regular maintenance requirements. This has proven difficult with budget constraints and other maintenance projects that take priority. HCC plans on using the renewal grant money as it becomes available to address road maintenance.

Sidewalks

Many pedestrian sidewalks and pathways have been upgraded, and others will be added as roads are re-paved or widened. Ramps from walk ways to pedestrian roadway crossings are being upgraded by clearly marking and texturizing the surfaces. Though not required, a sidewalk will be added along Academic Boulevard as part of the loop intersection on Robinwood Drive. The Second Entrance Project will also add sidewalks on the East side of campus along Scholar Drive since there are no sidewalks.

Parking

As part of the Career Program Building and Loop Road renovations, Academic Boulevard and Parking Lots D, E, F, G and H were completely repaved, including a new sub-base. In addition, the parking lots were reconfigured for better traffic flow. Repaving of Parking Lot I and construction of another new parking lot were completed in a separate project. As part of the site planning for the Career Programs Building Renovation, several parking lots received new letter designations to maintain consistency. HCC analyzed increasing enrollments and loss of parking lots caused by construction of the STEM Building and the addition to Kepler Theater. To solve the parking shortage, HCC constructed parking lots N and O in 2009 with a net gain of approximately 441 spaces. Once HCC

renovated the Student Center it was determined that addition parking was needed near the building for visitors to the building. Parking lot P opened in front of the Student Center in 2018, adding another 91 spaces. A summary of HCC's parking lots and spaces is found in Table 4.

Adequacy of Existing Land / Capacity for Future Development

Some of the College's 319 acres consists of wetlands found within a designated 100 year flood plain area. Of that, 35 acres is developed with buildings, playing fields, roadways and parking lots. Ten acres is storm water management, two acres are wet lands, and 46 acres are part of the Maryland Forestry Conservation Plan and must be maintained. An additional 180 acres of mostly wooded land are currently undeveloped. All of this land has flat or minimal incline, making it feasible for future development.

In 2009, the College contracted with Mahan Rykiel Associates, Inc. of Baltimore, Maryland and Triad Engineers of Hagerstown, to analyze and plan future development and land use possibilities. The Campus Development Plan (CDP) was developed to identify future development opportunities beyond 2015 and illustrates how the College's land and proposed campus facilities can be located in a way that best meets College planning goals. The study was completed in the Spring 2010 and approved by the Washington County Planning Office. The CDP and this plan, both important facilities planning resources, are well aligned to assist the College with PlanMaryland.

Table 4
Parking Lot Counts

Lot	Students	Handicap	Visitor	Staff	Reserved	Motorcycle	30 Minute Parking	TOTAL
A	0	13	0	35	13	0	2	63
B	0	0	6	49	0	0	0	55
C	0	0	0	48	0	4	0	52
D	34	3	0	0	0	0	0	37
E Lower	74	6	0	14	7	0	0	94
E Upper	71	1	0	17	1	0	0	89
F	0	4	0	91	0	0	0	102
G	0	8	0	107	9	0	0	116
H	78	0	0	0	0	0	0	78
I	0	3	0	21	0	0	0	24
J	58	3	0	6	4	0	0	71
K	193	10	0	68	0	0	0	271
L	246	7	0	270	0	0	0	253
M	0	10	0	5	0	0	0	15
N	99	4	0	0	0	0	0	103
O	380	0	0	0	0	2	0	382
P	71	4	7	18	0	0	0	100
S	0	0	0	24	0	0	0	24
TOTAL	**1,304**	**76**	**13**	**503**	**25**	**6**	**2**	**1,929**

Assessment and Analysis of Facilities

The following pages evaluate Hagerstown Community College's existing buildings, which appear in alphabetical order by building name. See Table 5 for detail.

Table 5
Hagerstown Community College Facilities

Name	Bldg	GSF	Year Built	Address	Improvements	Roof	HVAC
Administration and Student Affairs	ASA	23,972	1966	11439 Academic Boulevard	1998-Children's Learning Center (CLC) built to replace the Student Center. CLC HVAC, 2003 - Total renovation of Executive Center area completed in 2004. 2008 - New door opener and security center for CLC 2010 – New roofs on overhang to CLC and the storage building. New storage shed was also purchased 2017 – Renovation of front of building including Financial Aid, Registration and a new conference room	2004 - New roof with project, York Roofing, 20-year John Mansville Warranty Built-up asphalt	Heating/cooling supplied by central loop and monitored and controlled by energy management system. Central Separate air conditioning unit for Telecommunications closet. Electric fan-forced heaters installed in Children's Learning Center (2 classrooms) as supplemental heat (2006) 1 – Air Handler 37 - VAV boxes 1 - Air cooled condensing unit (IT Closet) 4 - Exhaust fans 2 - Chilled water pumps 2 - Heated water pumps 1 - Sewage pump 1 - Sump pump 1 - Condensate pump 2 - Water heaters 4 - Fan coil units at entrances in hallway. 1 - Hydronic unit heater
Advanced Technology Center	ATC	30,786	1966	20142 Scholar Drive	Formerly Athletic Building, converted to classrooms in 1989. Restrooms Renovated November 2008 Elevator reconditioned 2008 Redesigned and renovated skylight 2009	New roof 2005 Heidler Roofing, 20-year GAF warranty Modified 2-ply bitumen membrane	ATC attached to the Central Plant cooling loop in 2005; 3 electric heating and cooling units in offices; separate cooling unit for networking/server closet and split-unit heat pumps for south side offices and classrooms. Including: 3 – AHU 35 - VAV boxes with DDC Controllers (2016) 3 - Heating pump

Name	Bldg	GSF	Year Built	Address	Improvements	Roof	HVAC
Amphitheater	AMP	3,698	2000	11670 ARCC Lane	New fire-rated backstage rollup door 2010 Additional parking for easier access 2010	2021 Standing Seam Roof	1 - 3-ton York heat pump with AHU 1 - Water heater 2 - Exhaust fans 6 - Electric unit heaters
Amphitheater Auxiliary	AMPA	3,667	2000	11670 ARCC Lane	Windows repaired and new sills installed 2010 Updated plumbing in restrooms 2010	2021 Standing Seam Roof	Electric heaters in bathrooms; electric baseboard in concession stand and upstairs. Including 1 - PTAC unit 3 - Exhaust fans
Athletic, Recreation and Community Center	ARCC	84,976	1988	20175 Scholar Drive	Elevator reconditioned 2008 New indoor track surface (Mondo) 2010 New carpet in lobby, offices and classrooms 2012. New T5 HO lighting in the arena.	EPDM Overlay roof system with 20 year warranty (2014)	Gas furnace heaters in arena and locker and shower rooms. Condensing rooftop units replaced 2009. 13 - PTAC thru the wall units replaced 2009 6 - Arena gas furnace units 8 - Trane air handlers (heat pumps) monitored by energy management system 8 - Trane 7.5-ton condensing units 1 - Domestic hot water boiler 186000 BTU's 1 - Domestic hot water storage tank (2400-gallon) 2 - Domestic water pumps 2 - Cabinet unit heaters 2 - Return fans 2 - Heating ventilators 9 - Exhaust fans 4 - Electric baseboard heaters 2 - Unit Heaters 4 - Electric heating fans 1 - Sterling makeup air unit
Athletic Storage/Restroom	AS	1,160	1978		Restrooms renovated, October 2008	Shingle roof. Re-roofed 1996 by HCC Maintenance	3 - Electric heaters in bathrooms 1 - Water heater
Baseball Press Box	PB	324	1980's		Painted 2006	Shingle Roof	None

Name	Bldg	GSF	Year Built	Address	Improvements	Roof	HVAC
Behavioral Sciences and Humanities Building	BSH	23,396	1966	20120 Student Circle	Renovated 2012	New Roof 2012 Citi-Roof. Firestone 3 ply bitumen roof Renovations, Hess Construction	Heating/cooling supplied by central loop and zoned rooftop and air handling units. Monitored and controlled by energy management system. 1 - Convector wall hung 2 - Cabinet unit heaters hot water 1 - Propelled unit heater hot water 2 - Ductless split systems 2 - Exhaust fans 2 - Chilled water pumps 2 - Heating water pumps 2 - RTU circulating pumps 35 - VAV boxes 1 - Water heater

Name	Bldg	GSF	Year Built	Address	Improvements	Roof	HVAC
Career Programs Building	CPB	91,281	1967	20106 Shea Drive	Renovation/ Complete renewal (Jan 2007 – Feb. 2009) Increased 12,729 sf with courtyard enclosure. An addition of 2,549 GSF added to the lower level for the Dental Hygiene Program 2013.	Lower level-new roof FY 2001. Upper roof-new FY 2003. Existing roof by Kline Roofing. New Roofing by Kline to retain warranty. Built-up asphalt roof Built-up asphalt roof on over Dental addition is a Garland Roof 25 year warranty.	Heating/cooling supplied by central loop and zoned rooftop and air handling units. Monitored and controlled by energy management system. CPB has 7 RTU's and 1 AHU for the classrooms that were formally a cellar. 109 - VAV boxes 1 ½ ton - Heat pump 3 - MAU units 11 - Electric ceiling unit heaters 1 - CRAC unit 4 - Split system 2 - Electrical heaters 2 – Electric unit heaters 1 – ATC Compressor 2 – Vacuum pumps 2 – Dental air compressor 2 – Heating hot water pumps 2 – Chilled water pumps 1 – Water heater 4 – Domestic circulating pumps 2 – Sewage pumps 28 – Exhaust fans 16 - RTU circulating pumps 5 – Unit heaters 8 – Cabinet heaters 5 – Hot water unit heaters
Career Program Storage	CPS	720	2010		Originally a dumpster pad it was constructed of block and brick for storage.	Shingled Roof 2010	2 – 10KW electric heaters

Name	Bldg	GSF	Year Built	Address	Improvements	Roof	HVAC
Center for Business and Entrepreneurial Studies	CBES	34,302	1993	20140 Scholar Drive	4000 sf Wet Lab Addition Completed February 2008. Renovation 2021 Elevator reconditioned 2021 New windows north side 2008	2021 Modified Bituman 20-year – Main Roof 2008 - TPO on wet lab addition 2021-Canopy has a TPO roof. 20 – year roof	Building supplied by Central Plant heating/cooling loop. CBES attached to the Central Plant cooling loop in 2005. Rooftop units for second and third floors. Air handlers and roof top units controlled and monitored by the energy management system. RTU#1 – 1st Floor RTU #2 on roof for 2nd floor and 3rd floors AHU #3 on roof for 3rd level AHU #4 at connector bridge (ATC/TIC) in mechanical room One pump for condenser water Two sewage pumps Two chilled water pumps Two heating water pump One York roof top unit (Wet Labs) One York heat recovery ventilator (Wet Labs) Two fume hood exhaust fans Three water heaters (1 per floor) Two 75-ton York Chiller One 150-ton Evapco Cooling tower One exhaust fan Nine electric unit heaters (6 – stair towers, 3 for wet labs) 35 VAV boxes with DDC Controllers (2015)

Name	Bldg	GSF	Year Built	Address	Improvements	Roof	HVAC
Central Plant	CNP	6,826	1966	20110 Shea Drive	Renovated in 2000. 2004. TIC hooked up to central loop, 2005. CP hooked up to cooling loop 2008. Replaced McQuay with low use 350 ton York 2 rollup doors on north end installed Fall 2008. 2015-Expanded the building by 1,140 GSF 2022 – Installed 2 condensing Fulton Boilers	New roof 2005 Heidler Roofing, 20-year GAF warranty Modified Bituminous Membrane Roof	2-pipe heating loop was replaced with a 4-pipe, heating and chilled water loop (2000); 1 new 400 hp Cleaver Brookes boiler (2004); 1- 200 hp Cleaver Brookes boiler (1990); Cooling loop has two VAV drive units (2000);. Monitored and controlled by energy management system. Installed 5 small Paterson-Kelley condensing boilers and 1 650 McQuay VF Chiller (2011) Two Carrier 700-ton chillers and two 600-ton cooling towers were installed (2015) 3 – 100 HP Bell & Gossett Chilled water Pumps installed (2015) 3 – 100 HP Bell & Gossett Condenser Water Pumps Installed (2015) 2 – 200 HP Fulton Boilers and removed 400hp Cleaver Brookes Boiler (2022)
Energy and Trades Training Center	ETTC	3,666	2018	18052 Yale Drive	2018 constructed, 2019 opened for classes	Metal	Heat Pump Ground water heat pump Unit Heaters

Name	Bldg	GSF	Year Built	Address	Improvements	Roof	HVAC
Kepler Theater / Performing and Visual Arts Education Center	KEP	37,476	1978	11512 Kepler Drive	Renovated existing structure and included an addition of the Performing and Visual Arts Education Center 2012.	Existing Roof was installed in 2000, Kline Roofing, 20-year John Mansville warranty Built-up asphalt roof PVAEC Roof Original installed 2011, Kalkreuth Roofing, 20 year warranty, Firestone asphalt roofing sheets, 3 ply modified bitumen	All systems controlled by Energy Management System. 7 –Air Handling units preheat coil pumps *AHU3 and AHU7 supplies Kepler Theater* *AHU1, AHU2 and AHU4 supplies stage* *AHU5 supplies set workshop has.* *AHU 6 located in the basement and supplies black box theater and art classrooms.* 20- VAV's for classrooms and offices 3 – Separate ductless split systems 15 – Exhaust fans 3 – Return air fans 2 – Heating water pumps 2 – Chilled water pumps 6 – Cabinet unit heaters 3 – Propelled unit heaters 6 – Duct mounted heating coils
Learning Resource Center	LRC	57,741	2000	11432 Academic Boulevard	New ADA exterior doors on the 2nd floor 2010. Lobbies on 2nd and 3rd floor were updated with flooring and paint. 2012 expanded the testing center. 2017 Renovation the building which included the 2nd floor being connected to the St. Center.	2022 Garland Roof Installed 20 year built-up-asphalt roof. Snowbirds installed on metal barrel roof by Kline Roofing, FY 2007.	Building supplied by Central Plant heating/cooling loop. Monitored and controlled by energy management system. 3 air handling units with variable drives and fin tube radiant heat on outside walls of all three floors. 33 - VAV controllers replaced in 2010 on the 3rd floor. 71 - Total VAV's – 26 VAV's controllers were replaced with DDC on second Floor (2017) 2 – Heating hot water pumps 2 – chilled water pumps 2 – Baseboard heating pumps 2 – water heaters 3 – Chilled water coil recirculation pumps 3 – Propelled unit heaters 2 – Exhaust fans 1 – Split system (IT Closet) 1 – 2.5 Ton split system heat pump second floor Lecture Hall (2017)

Name	Bldg	GSF	Year Built	Address	Improvements	Roof	HVAC
Learning Support Center	LSC	17,732	1966	20108 Student Circle	Renovated 2012	New roof 2005 Heidler Roofing, 20-year GAF warranty Modified bituminous membrane roof	Building supplied by Central Plant heating/cooling loop. Monitored and controlled by energy management system. 3 - RTU's circulation pumps 2 – Chilled water pumps 2 – Heating water pumps 3 – Cabinet unit heaters 1 – Propelled unit heater 1 – ductless split system 3 – Exhaust fans 24 - VAV boxes.
Maintenance Equipment Storage	MES	3,975	2006		2 Additions added Spring 2007 (900 gsf total) Insulation and additional electric added to left wing 2010 Additional square footage was added for furniture storage - 2021	Steel Roof	Maintenance Equipment Storage
Motor Cycle Storage Building	MSB	1750	2008			Shingle (30 year Warranty)	1 – Electric Heat, ceiling mounted 1 – Exhaust fan
Northern Avenue City Campus	NACC	45,000	1962	562 Northern Ave	The building will begin a complete renovation in 2022 - 2023	New Roof Documents still pending	Unknown until renovations
Robinwood Center	RC	8,435	1970	20111 Shea Drive	Renovated 2018, Facilities Department was relocated to the building.	Shingles replaced 2018 / TPO roof	Electric heat with air conditioning and through-the-wall heating/cooling electric units: Two exhaust fans One AHU electric coil and air condition coil Ten through the wall P-TAC units

Name	Bldg	GSF	Year Built	Address	Improvements	Roof	HVAC
Science Technology Engineering and Mathematics Building	STEM	62,840	2012	20114 Student Circle	2011 Constructed and opened January 2012 for classes.	Original Roof 2011, City Roof, 20 year warranty, Firestone asphalt roofing sheets, 3ply modified bitumen	Building supplied by Central Plant heating/cooling loop. Monitored and controlled by energy management system. STEM has a custom designed rooftop air handler with 48 VAVs throughout the building Fan coil units are located in stairwells and at entrances in hallway. Four separate split system air conditioning units are located in rooftop mechanical room and Telecom closets. Two chilled water pump Two heating pumps Two AHU heating coil pumps One water heater Three updraft fume hood exhaust Three exhaust fans Two vacuum pumps One domestic dye system

Name	Bldg	GSF	Year Built	Address	Improvements	Roof	HVAC
Student Center	SC	42,522	1966	20101 Student Circle	Renovation completed in 2002. Office renovations for Dean of Students 2010	**Renovation** 2002 - New roof with renovation, Kline Roofing, 20-year John Mansville; metal roofing on upper section over Dining Area New built-up asphalt roof on sloped section installed 2005 by Heidler Roofing. **Expansion** 2015 – Carlisle Sure Flex FEE FRS White Fleece Back 115 membrane adhered with Flexible FAST or FAST Adhesive with flashing. 25-year warranty	**Renovation** One McQuay AHU Three exhaust fans (on roof) One variable refrigerant Flow System One condensing unit on Roof - Dainkin Five indoor AHU's (One TRiO and four Academic Advising) One cabinet unit heater One chilled water pumps One heating hot water pump One propelled unit heater One water heater One hot water circulating pump **Expansion** Three AHU's Two kitchen make up air units Four ductless split systems Seven exhaust Fans2 – Heating hot water pumps Two chilled water pumps Three AHU circulating pumps 27 VAV terminal units Two cabinet unit heater Six propelled unit heaters One Fin tube circulating pump One hot water heater One hot water heater circulating pump One domestic hot water recirculation pump
Vehicle Maintenance Garage	GAR	852	1978			Original metal roof	Two new Electric heaters installed 2010 One Carrier 1.5 ton split system (2014)
Truck Driver Training 1	TRK1	876	2006		Temp. Bldg.	Shingle roof-pitched.	Heating and cooling supplied by through-the-wall heat pump.
Truck Driver Training 2	TRK2	900	2015		Rental Space		Heating and cooling supplied by landlord

Name	Bldg	GSF	Year Built	Address	Improvements	Roof	HVAC
Valley Mall Center	VMC	6,411	2000	17301 Valley Mall Road	Additional space added and renovated-2004		Heating and cooling supplied by main Valley Mall central HVAC system. HCC is responsible for maintaining and repairing of 6 VAVs that are above-the-ceiling units. Automatic temperature averaging energy management system used for

ADMINISTRATION AND STUDENT AFFAIRS (ASA) BUILDING

ASA (FRONT)

ASA (BACK)

HEGIS: (ASA)		Square Footage:	
Classroom:		Net:	14,414
Lab:		Gross:	23,972
Office:	11,244	Efficiency:	.60
Study:			
Special Use:		Floors:	1
General Use:		Constructed:	1966
Support:			
Other Org:	3,170		

ASA (CHILDREN'S LEARNING CENTER)

Year Built	1966		Comments
GSF	23,972		CLC HVAC replaced in 2003.
Roof	2004 – Built-up Asphalt		Total renovation of the building completed in 2004, including new roof.
HVAC	Central Plant		
Renovations	2004		Roof installed by York Roofing 20-year John Mansville Warranty
Address	11439 Academic Blvd.		
Background: The former Administration Building, built in 1966, was renovated into the Administration and Student Affairs Building (ASA), which re-opened in Spring 2004. Enlarged from 17,000 to 23,972 square feet, the ASA is primarily dedicated to student and financial services, as well as the Children's Learning Center (CLC) and several executive offices, including the Office of the President and Board Room. In 2020 the CLC has closed and the College is looking for a tenant. 2021 HCC rented the CLC to an outside company			
Comments: Rooftop air handler with VAVs controlled by energy management system. Supplied by Central Plant heating and chilled water loop to heating and cooling coils. Fan coil units at entrances in hallway. Separate air conditioning unit for Telecommunications closet. Electric fan-forced heaters installed in Children's Learning Center as supplemental heat (2006).			
Unique functions: Child care center			

FUNCTIONS: This building houses the offices of the President and administrative staff, Admissions, Registration and Records, Financial Aid, and the Children's Learning Center.

DEFICIENCIES: No deficiencies, but the Children's Learning Center requires continual maintenance and custodial attention to meet accreditation standards.

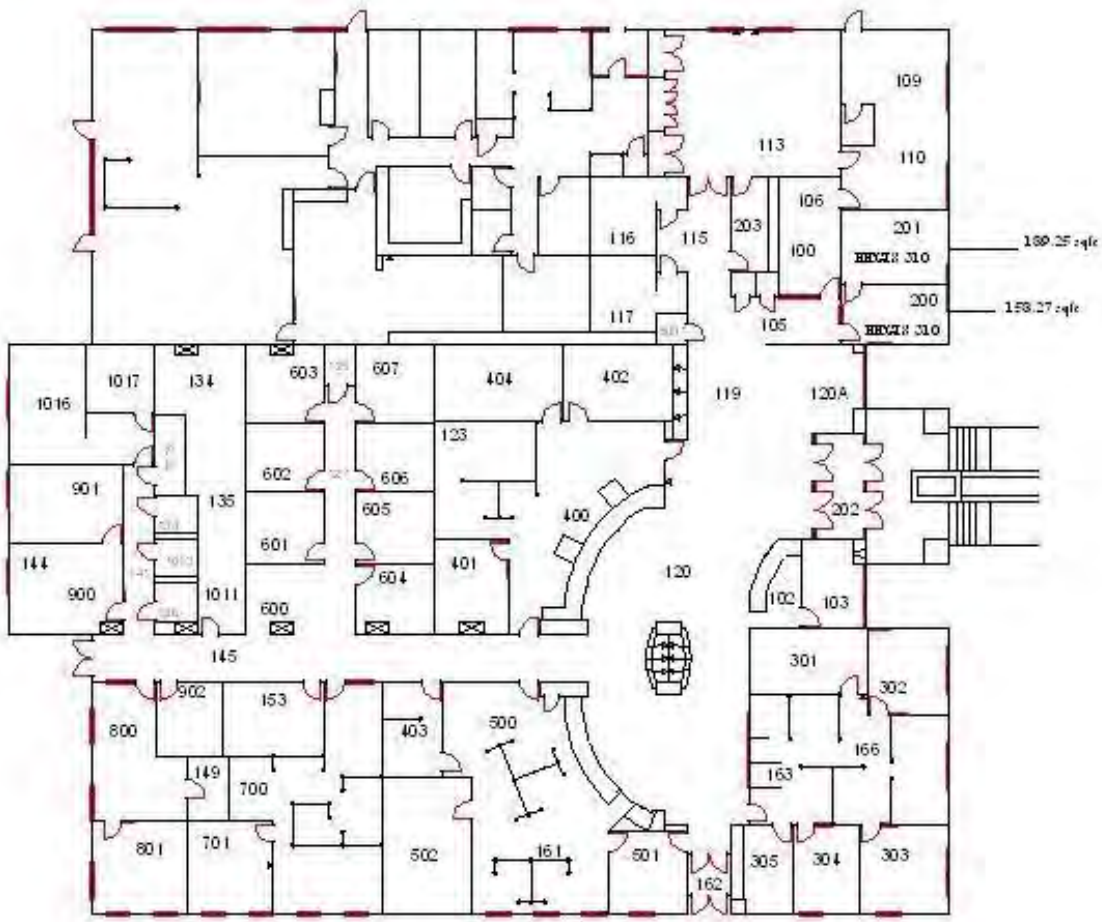
IMPROVEMENTS:

2008: New door openers and security system were installed in the CLC.
2009: New playground equipment installed in the CLC.
2010: New roof on the overhang at the entrance to the CLC, also a roof was put on the storage building at the CLC.
A new storage shed was also purchased for the CLC.
Minor office renovations were completed in Human Resources and Student Services area.
2011: Painted the hallways of the ASA and classroom area of the CLC. Power voltage meters were installed.
2013: An office was created out of half of the mailroom.
2015: Academic Advising, JTSR and the Information Center we relocated to the Student Center.
Corner molds were installed and hallways painted.

2017 Renovations to Financial Aid, Registration and newly created Conference Room

LIFE SAFETY & ADA: The building has sprinklers and was made ADA compliant during the 2004 renovations.

TEN YEAR CIP: The College is planning a renovation project for FY26 – 27. Details of the CIP plans are provided in Section 6, Priority # 5



ADVANCED TECHNOLOGY CENTER (ATC)

Year Built	1966		Comments
GSF	30786		Former Athletic Building renovated into classrooms in 1989 Roof redone FY 2006 by Heidler Roofing 20 year GAF warranty Redesigned and renovated skylight 2009
Roof	2004 - Membrane		
HVAC	Central Plant		
Renovations	1989-Building 2009-Offices		
Address	20142 Scholar Drive		

Comments:
ATC was attached to the Central Plant cooling loop in 2005
3 Air handlers supply heating and cooling from Central Plant heating and chilled water loop to heating and cooling coils. Electric heating and cooling units in offices; separate cooling unit for networking/server closet and split-unit heat pumps for offices and classrooms on the south side of the building.
HVAC squirrel cage and shaft were replaced in 2008 on AHU #3
Elevator was reconditioned in 2008
Office space created and renovated in 2009

Unique functions: Building currently houses the Technology and Computer Studies division, Facilities Department, Planning and Institutional Effectiveness division, and VP of Finance.

HEGIS: (ATC)		Square Footage:	
Classroom:	1,817	Net:	23,746
Lab**:**	11,977	Gross:	30,786
Office:	5,846	Efficiency:	.77
Study:			
Special Use:		Floors:	2
General Use:	599	Constructed:	1966
Support:	3,507		
Other Org:			

FUNCTIONS: The Advanced Technology Center (ATC) helps students to develop the knowledge and skills necessary for meeting the technological demand of today's society. The ATC, in conjunction with government and industry, plays a major role in economic development and manufacturing modernization, as well as in the training and upgrading the local workforce. The building houses the Technology and Computer Studies division, and facilities support functions. Due to limited space in the Administration and Student Affairs Building, the Planning and Institutional Effectiveness division and the VP of Finance are located in the ATC.

DEFICIENCIES: This building was originally the gymnasium. The lighting, finishes and general layout of the building need to be upgraded. While the building is ADA compliant, some areas are barely accessible. One room currently used for classes would be better suited for the maintenance department, since the handicapped access is via either an awkward wheel chair lift or a ramp in the maintenance shop. The mechanical systems of this building also needed to be upgraded due to inconsistent temperatures throughout the building. While we continue to update offices as functions change this building needs to have a major overhaul with paint, flooring and furniture.

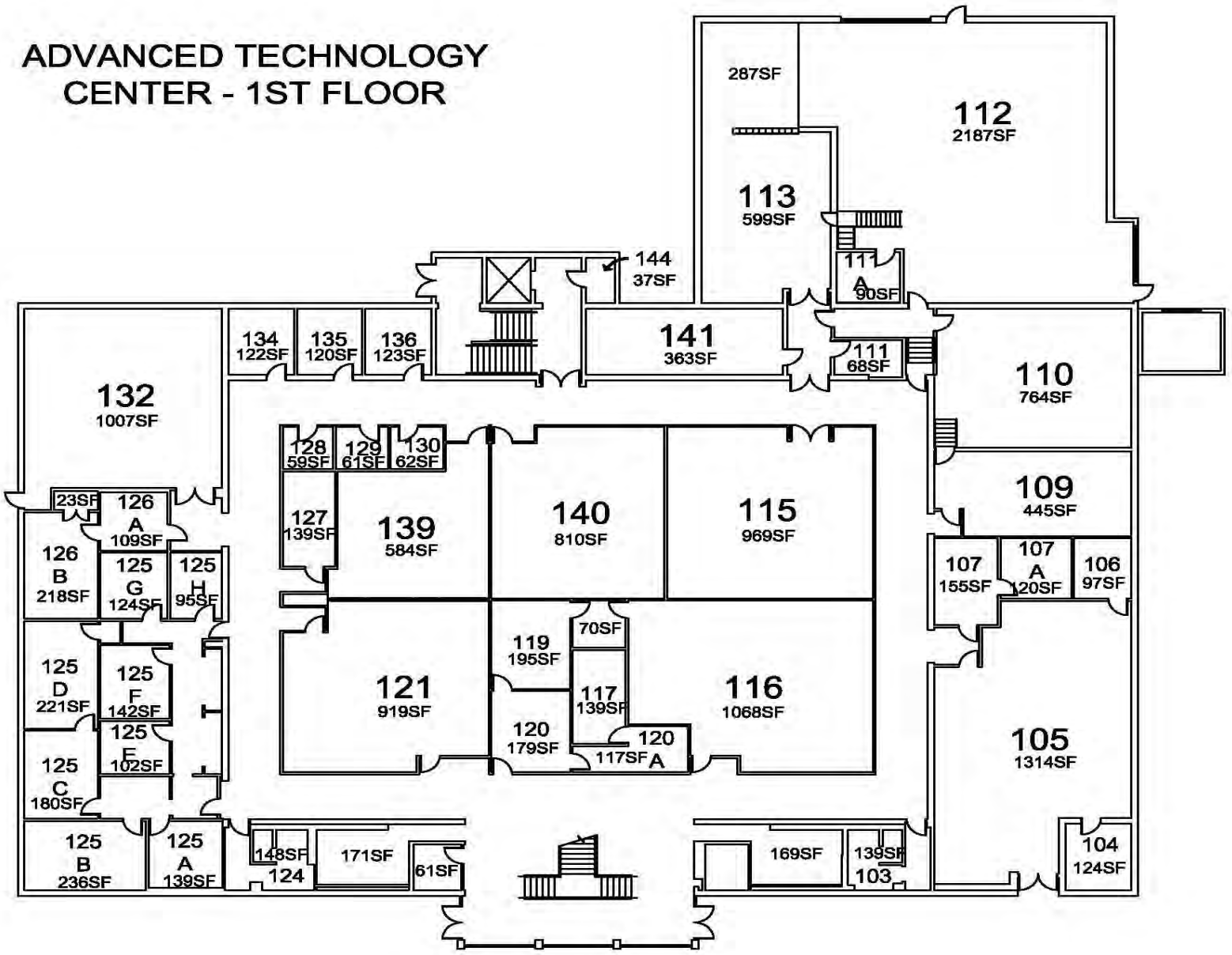
IMPROVEMENTS:

1989 The building was converted from a gym to classroom use and renovated
2008 Restrooms were renovated
2009 Skylight was reconfigured and replaced
2016. Renovation of classroom space on the second floor for Advanced Manufacturing Program that includes labs and offices. EMS was upgraded

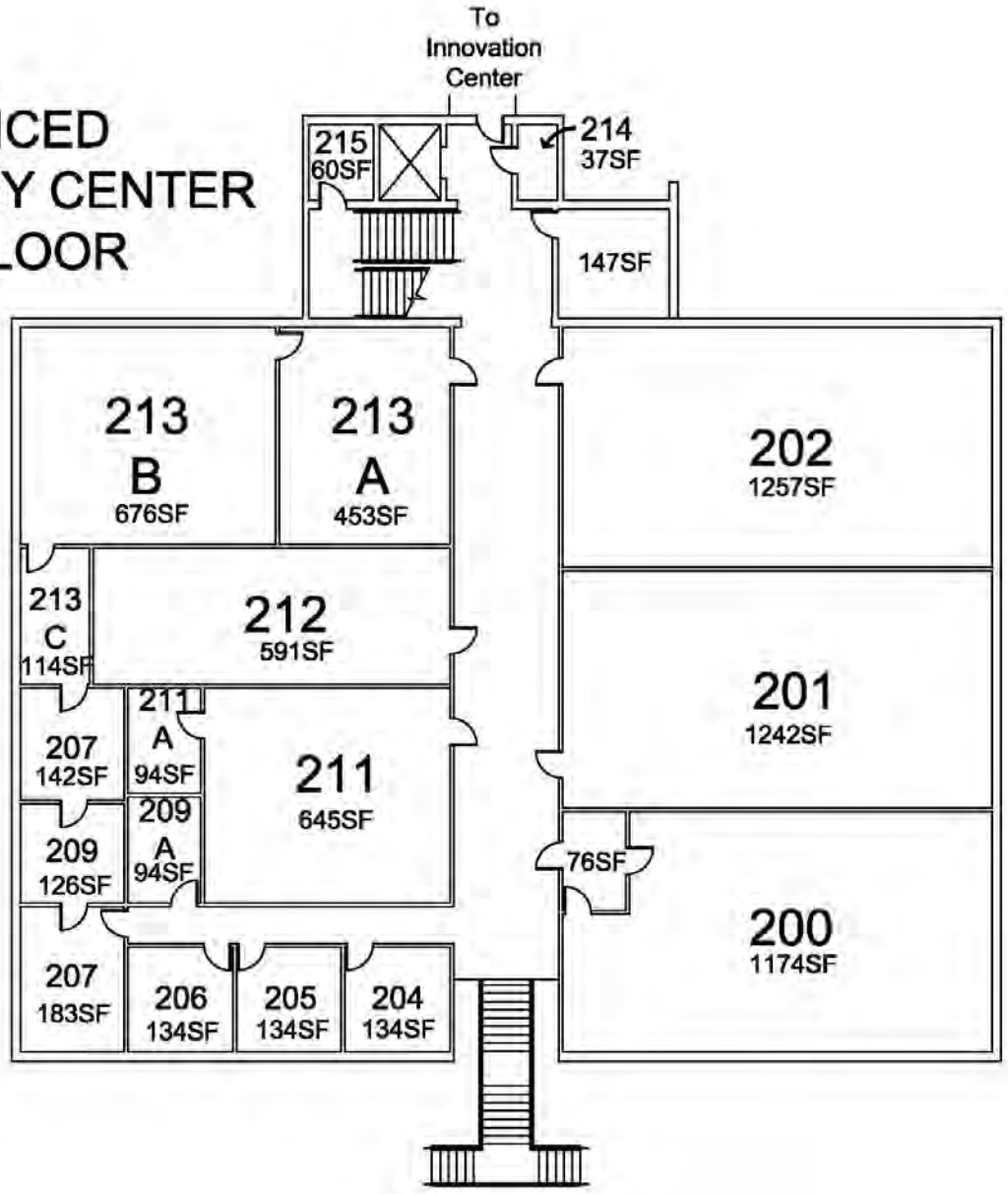
LIFE SAFETY & ADA: The building has sprinklers and was made ADA compliant during the 2004 renovations. However, some areas remain minimally accessible.

TEN YEAR CIP: The College is planning a renovation project for FY24 – 25. Details of the CIP plans are provided in Section 6, Priority #4.

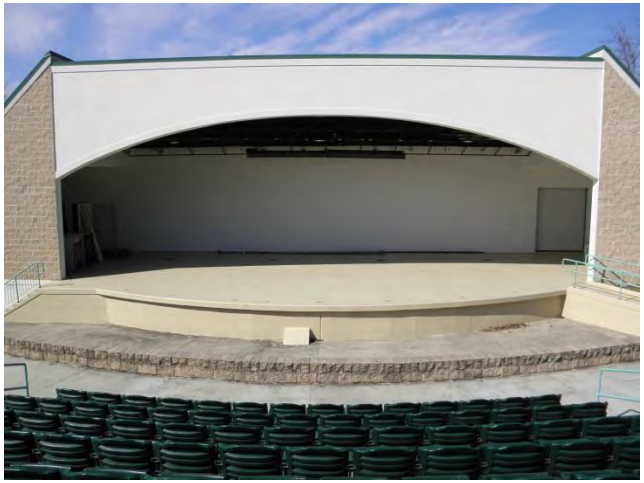
ADVANCED TECHNOLOGY CENTER - 1ST FLOOR



ADVANCED TECHNOLOGY CENTER - 2ND FLOOR



AMPHITHEATER (AMP)



STAGE

Year Built	2000		Comments
GSF	3,698		2021 – New standing seam roof. Electric heaters in bathrooms; electric baseboard in concession stand and upstairs
Roof -	Standing Seam		
HVAC	Electric		
Renovations	None		
Address	11670 ARCC Lane		
Unique functions: stage, outdoor seating			
Background: The Amphitheater was built in 2000 as a project undertaken by the HCC Alumni Association. It includes a 3,667 square foot entry building and a 3,698 square foot theater facility. It contains 672 permanent seats, 2 dressing rooms, a concession stand and ticket booth. State and County capital improvement funds, Alumni Association funds and College funds were used to construct this $1 million facility.			

AMP AUXILIARY BUILDING

Year Built	2000		Comments
GSF	3,667		2021- New Standing Seam Roof
Roof	Standing Seam		
HVAC	Electric Heat		
Renovations	None		
Address	11670 ARCC Lane		
Unique functions: none			

HEGIS: (AMP & AMPA)		Square Footage:	
Classroom:		Net:	4,206
Lab:		Gross:	7,365
Office:		Efficiency:	.57
Study:			
Special Use:		Floors:	2
General Use:	816	Constructed:	2000
Support:			
Other Org:	3,390		

FUNCTIONS: Performance Venue

DEFICIENCIES: The steps leading to the second floor does not have a handrail. The windows backstage are single pane and leak each time it rains

ADA: 2nd floor of the Auxiliary is only accessible by steps.

IMPROVEMENTS:

2010: Expanded student parking has created a parking lot next to this venue created expanded parking for easier access.
New fire rated rollup backstage door was replacement.
Window sills were replaced and caulked on the second floor due to water damage from poorly installed windows.
In the restrooms in the Auxiliary the plumbing was replaced and updated for the sinks in the restrooms.

2011: Repainted the stage floor, walls and outside of the stage

2014: Painted the hand rails.

TEN YEAR CIP: None

ATHLETIC RECREATION AND COMMUNITY CENTER (ARCC)

Year Built	1988		Comments
GSF	84,976		Metal roofing system. Gutter/ flashing repairs and snowbirds installed in FY 2007 by Kline Roofing. Heat pumps monitored by energy management system and gas furnace heaters in arena, locker and shower rooms. Installed new indoor track surface (Mondo) (2009) 8 Condensing rooftop units were replaced (2009) 13 HVAC thru the wall units were replaced (2009)
Roof	2014-EPDM		
HVAC	Natural Gas		
Renovations	None		
Address	20175 Scholar Drive		
Background: The building houses an arena with a seating capacity of 5,230, classrooms, the College's Fitness Center, and the Washington County Recreation Department. A variety of large-scale and community activities take place in the ARCC. Most of the ARCC is air-conditioned, but the arena is not, which limits opportunities for College events, as well as rental income. An upgrade to the HVAC and installation of air conditioning is being planned as CIP in the future. The surface of the indoor running track was replaced in 2010.			
Unique functions: Basketball Courts, Indoor Track, Weight, Training and Fitness rooms			

HEGIS: (ARCC)		Square Footage:	
Classroom:	2,026	Net:	65,590
Lab:		Gross:	84,976
Office:	2,134	Efficiency:	.77
Study:			
Special Use:	44,924	Floors:	2
General Use:	671	Constructed:	1988
Support:			
Other Org:	15,835		

FUNCTIONS: The ARCC accommodates cultural, community, and social events. The building houses the HCC Wellness Center and the Washington County Recreation Commission. The facility includes a 5,230 seat basketball gymnasium, 4 lane indoor track, and weight and exercise rooms.

DEFICIENCIES: Much of the building is air-conditioned. However, the gym arena, which houses commencement and many other large events, lacks air-conditioning. The facility lacks ample bleacher seating, swimming pool, racquetball courts and other common gym facilities. Lighting needs to be upgraded in the arena. The locker rooms need improved ventilation and light to cut down on mold and mildew replaced. The locker room floors were refinished in 2008. The roof has had regular leak problems mainly at the juncture of the different roof levels and also leaking VFD's.
All interior wooden doors need to be replaced with fire rated doors because the current doors are splitting. Exterior doors need to be replaced due age and usage.

IMPROVEMENTS:

2008: Installation of a new air handling unit for the second floor.
Renovations to the locker room restrooms.
Elevator was reconditioned
New lighting installed in the lobby area

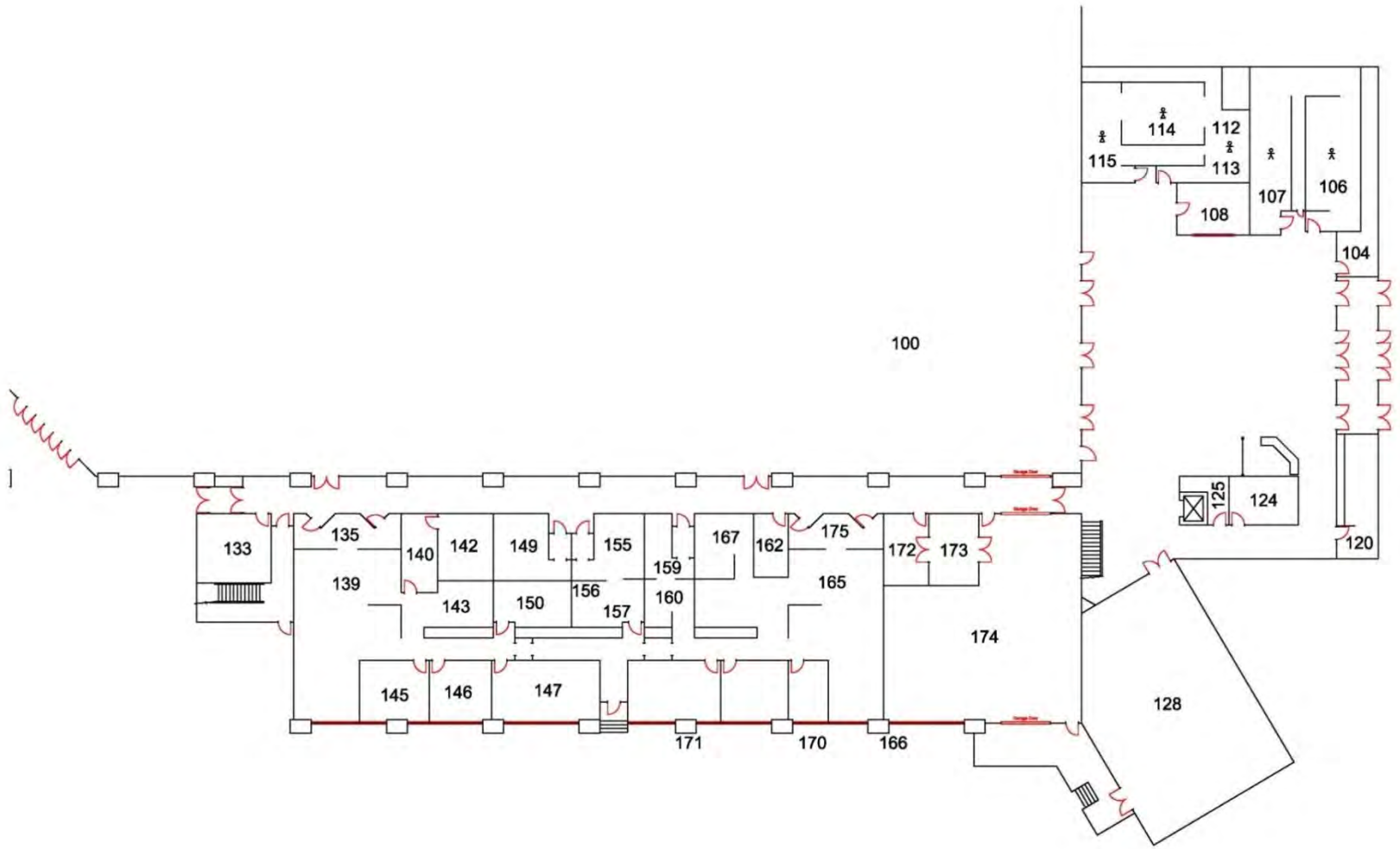
2009: Eight roof top condensing units were replaced
Thirteen HVAC through the wall units and we installed
Six 10 foot paddle fans in the arena where installed to help improve air circulation

2010: Installation of new ADA doors
New electronic lock system
Replaced indoor track surface

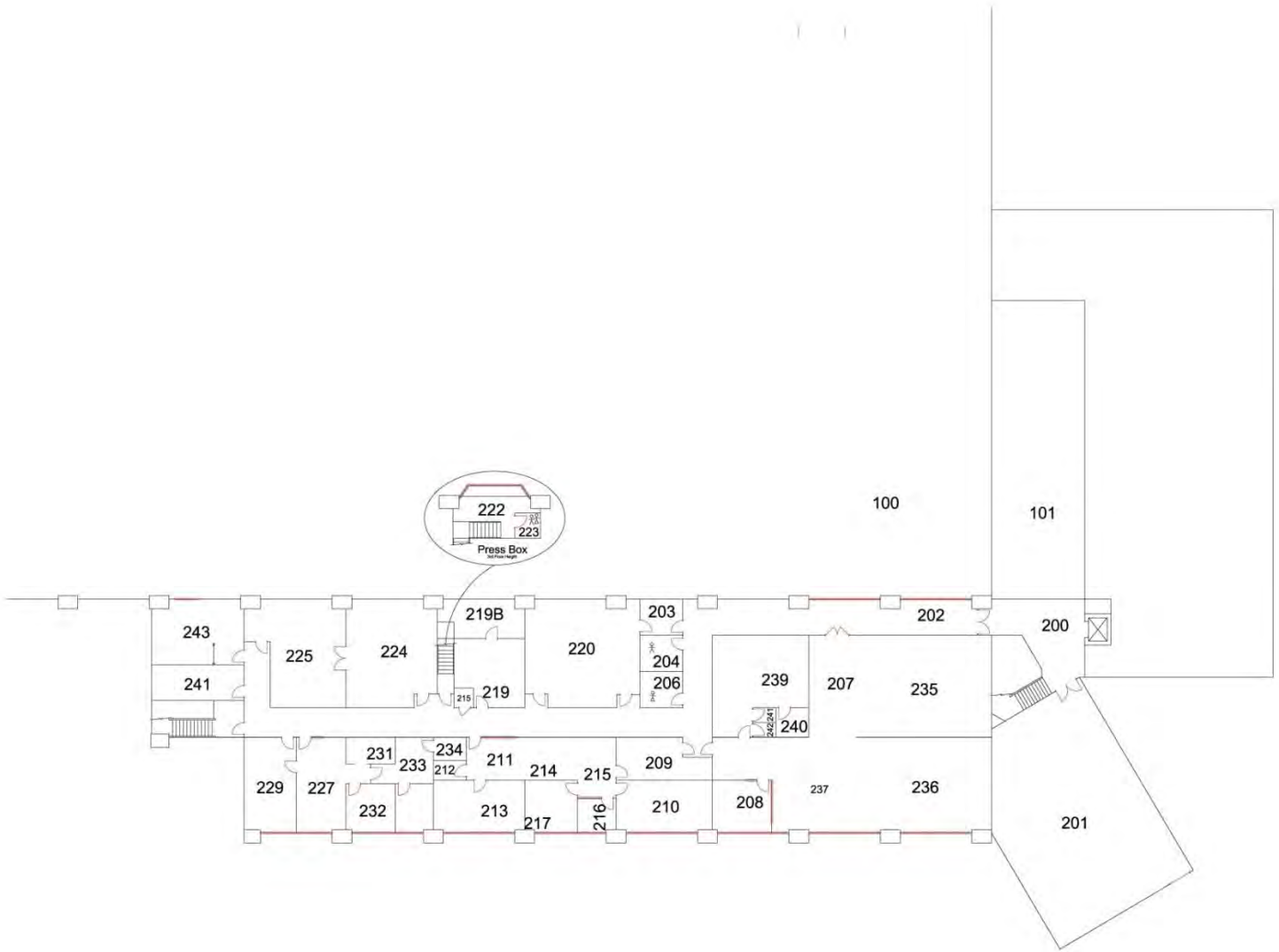
2011: Installed 5 new site lights in the ARCC parking lot

		Insulated the exterior walls Weatherproofed the downspouts to stop condensation Replaced ceiling tiles in the ARCC Business Office Painted the Fitness Center Installed a concrete dumpster pad in the ARCC parking lot
	2012	Carpeted the lobby, offices and classroom spaces Replaced heat exchangers in Arena
	2013	Replaced lighting in the Arena with T5 HO New interior doors Painted the Lobby New sidewalks installed
	2014:	Roof replacement with an EPDM Overlay New plumbing and flooring were installed in the Wellness Center New flooring installed in the men's locker room Installed new ceiling in the hi-part of the lobby New lighting installed in stairways
	2015-16	Replaced 23 interior doors
	2017	Removed the trees in the front of the building and installed updated lighting Screened the HVAC Units
	2021	Air Conditioning installed in the Arena
LIFE SAFETY & ADA:		Compliant.
TEN YEAR CIP:		The College is planning a renovation project for FY26 – 27. Details of the CIP plans are provided in Section 6, Priority # 7

Building – Athletic, Recreation and Community Center (ARCC)
First floor



ARCC Second floor



ATHLETIC STORAGE/RESTROOMS (AS)

Year Built	1978		Comments
GSF	1,160		Re-roofed 1996 by HCC Maintenance. Electric heaters in bathrooms. Restrooms Renovated Fall 2008 Exterior Painted 2006
Roof	1996 – Shingle		
HVAC	Electric Heat		
Renovations	2008 - Restrooms		

PRESS BOX (PB)

Year Built	1980's		Comments
GSF	418		Exterior Painted 2006
Roof	Original - Shingle		
HVAC	None		
Renovations	None		

HEGIS: (AS & PB)		Square Footage:	
Classroom:		Net:	711
Lab:		Gross:	1,160
Office:		Efficiency:	.61
Study:			
Special Use:	711	Floors:	1
General Use:		Constructed:	1978
Support:			
Other Org:			

FUNCTIONS: The two buildings house restrooms, sports storage, and the baseball press box.

DEFICIENCIES: The lower section of the Press Box needs to be completely gutted and renovated to make better use of the space.

ADA: The Athletic storage/restroom building is compliant; the press box is not.

CIP: The College is planning a renovation project for FY26 – 27. Details of the CIP plans are provided in Section 6, Priority # 5.

BEHAVIORAL SCIENCES AND HUMANITIES BUILDING (BSHB)

BSHB (FRONT)

BSHB (REAR)

Year Built	1966		Comments
GSF	23,396		Formally the Classroom Building it was renovated in 2012 and renamed Behavioral Sciences and Humanities Building. The building renovations consisted of new HVAC, roof, electrical, lighting, window and doors.
Roof	2012 - 3 ply Firestone Roof		
HVAC	Central Plant		
Renovations	2002, 2012		
Address	20120 Student Circle		
Unique functions: 206 seat auditorium with stage, Fletcher Faculty Development Center and foreign language lab.			

HEGIS:		Square Footage:	
Classroom:	7,781	Net:	14,252
Lab:	883	Gross:	23,396
Office:	5,588	Efficiency:	.61
Study:		Floors:	1
Special Use:		Constructed:	1966
General Use:		Renovated:	2012
Support:			
Other Org:			

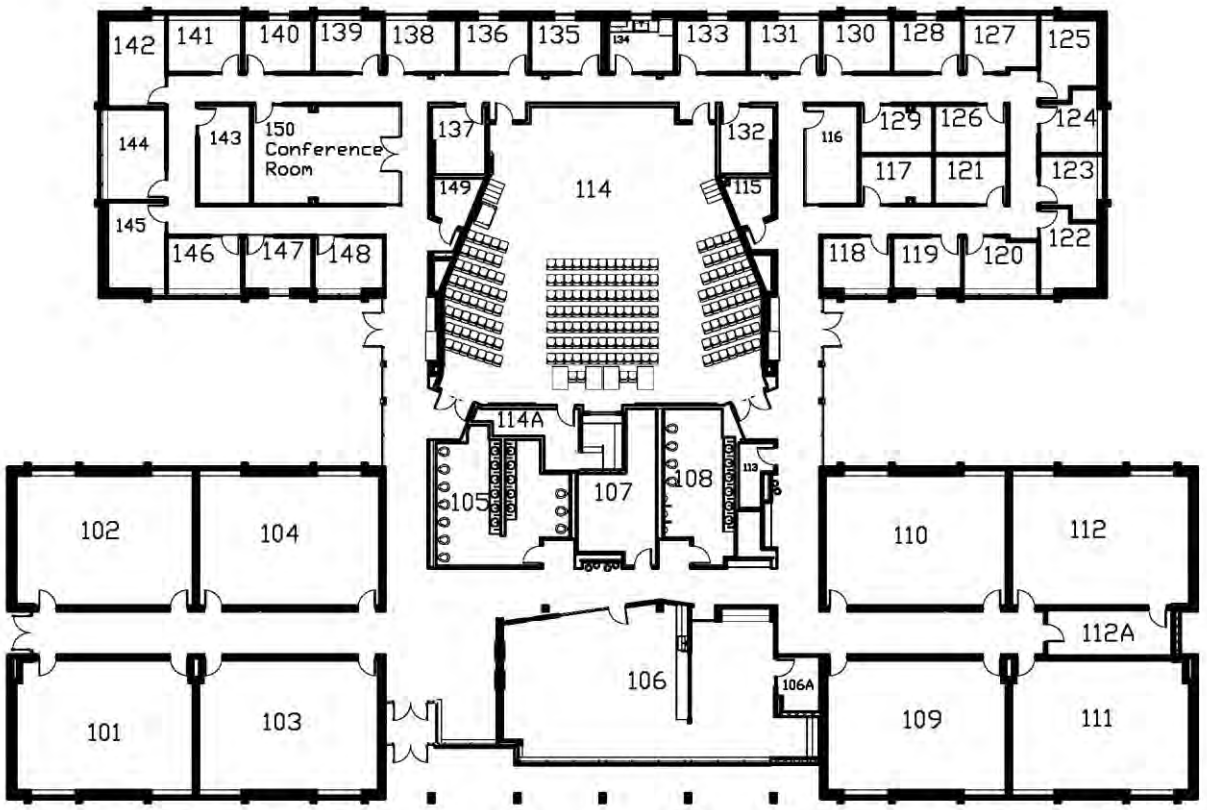
FUNCTIONS: Facilities for English, Behavioral Sciences and Humanities will be housed in the renovated building, which also houses a 206-seat auditorium. Fletcher Faculty Development Center is housed in the front of the building

DEFICIENCIES: None

ADA: Compliant

IMPROVEMENTS: The building was completely renovated in 2012; renovations included a new roof, asbestos abatement, reconfiguration of office space and updated mechanical, HVAC, and electrical systems. ADA issues were addressed during renovations. Two broken windows had to be replaced in 2015.

TEN-YEAR CIP: N/A



BEHAVIORAL SCIENCES AND HUMANITIES BUILDING
(BSH)

CAREER PROGRAMS BUILDING (CPB)



Year Built	1966		Comments
GSF	91,281		Lower level-new roof, FY 2001 Upper level – new roof, FY 2003 Roofing done by Kline Roofing - 20-year warranty Roofing of courtyard for renovation by Carson Roofing. Coordinated by Kline Roofing to retain warranty. Original building was 76,003 SF. With renovations enclosed courtyard and removed enclosed greenhouse area. Net SF gain was 12,729
Roof	2003 – Built-up Asphalt 2013 – Built-up Asphalt (Dental)		
HVAC	Central Plant Roof top		
Renovations	2003, 2007		
Address	20106 Shea Drive		

Comments:
Building Renewal began January 2007, completed February 2009.
Separate chillers served the entire building of zoned rooftop and air handling units. Heat is supplied by central loop. Fan coil units were used in offices and classrooms against exterior walls.
HVAC upgrades with renovation include placing both heating and cooling on central plant and adding energy management system control and monitoring.

Unique functions: Houses IT Department with campus servers
Houses Allied Health Sciences Department, including Nursing, Radiography, Dental Assisting, Phlebotomy, and others, with associated labs.
Houses Reprographics Department Valley Eatery, Mailroom, Central Store
Houses Bio-tech lab, Industrial Technology lab, EMT ambulance trainer, conference center, tiered lecture hall.

HEGIS: (CP-Renovated)		Square Footage:	
Classroom:	5,727	Net:	62,142
Lab:	23,945	Gross:	91,281
Office:	11,511	Efficiency:	.68
Study:		Floors:	2
Special Use:		Constructed:	1967
General Use:	11,580	Renovated:	2007-09, 2013
Support:	9,379		
Other Org:			

FUNCTIONS: This building houses Allied Health Sciences, including Nursing, Certified Nursing Assistants, Radiography, Phlebotomy, Dental Assisting and Paramedic Training. It also houses the IT Department (including servers), Reprographics, Continuing Education, the mail room and Central Store, and the Valley Eatery. It also houses Industrial Technology, and a conference/meeting center.

DEFICIENCIES: The mailroom is currently located in the center of the building making large deliveries difficult. Plans to relocate this area to a new operations building are outlined in Section 6, Priority #8. Roof leaks are also an ongoing problem in this building. The boiler drains on the chilled water loop and continuously freezes.

LIFE SAFETY & ADA: This building is fire and ADA compliant.

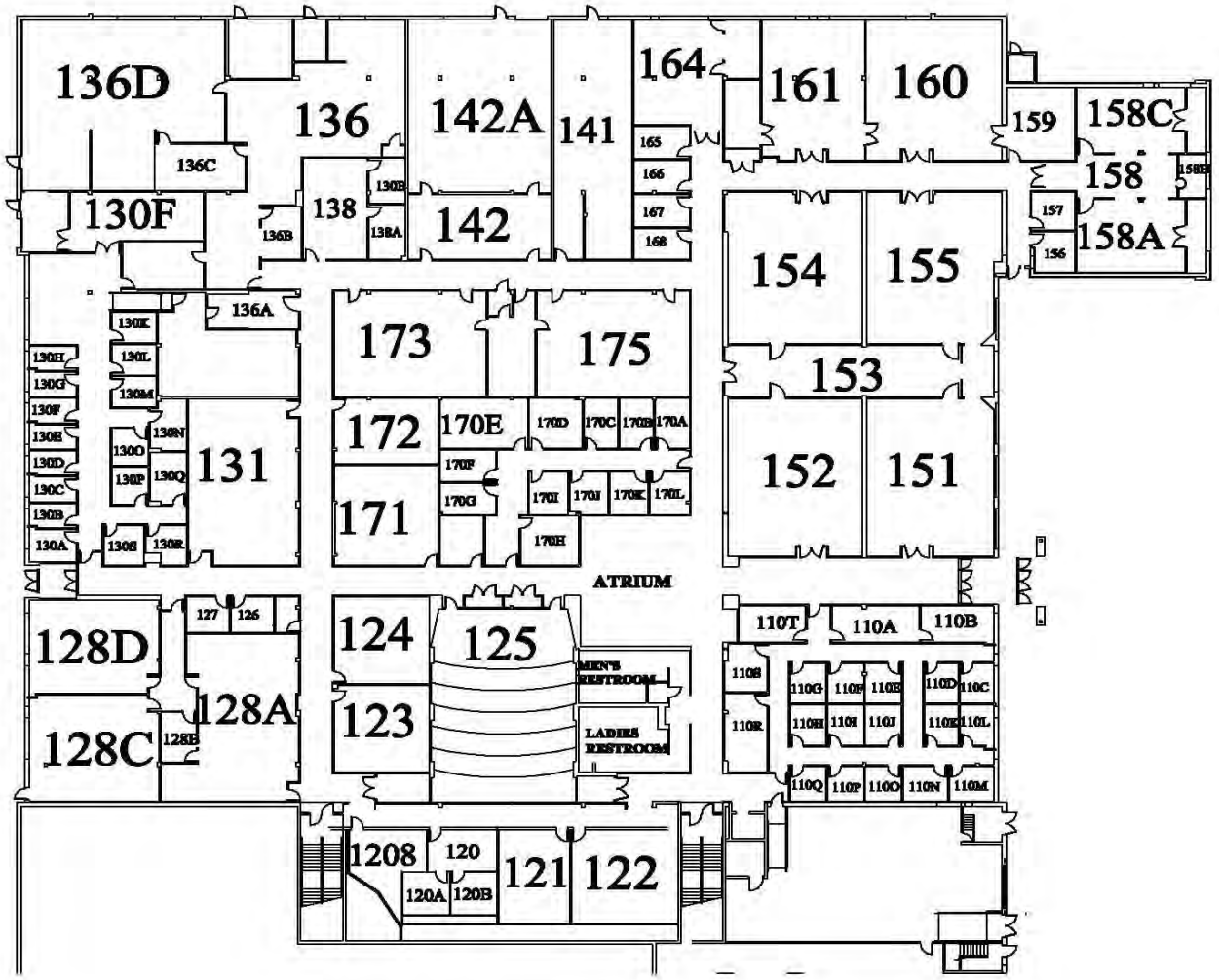
IMPROVEMENTS: Completed February 2009, the Career Programs Building was completely renewed. It was torn down to the shell in a phased project and totally renovated. As part of the renewal, all capital equipment was replaced, the building was put on the campus central heating and cooling loop and an elevator was installed. In 2011 Radiography was relocated to create a Medical Assisting classroom. A well was drilled next to the Central Plant and is used for the fountain. Construction was completed in the lower level of the CP for a Dental Hygiene Program in 2013.

2014 – Repainted the lobbies
Added an additional 20 circuits to the server room
Rebuilt the sewer pump

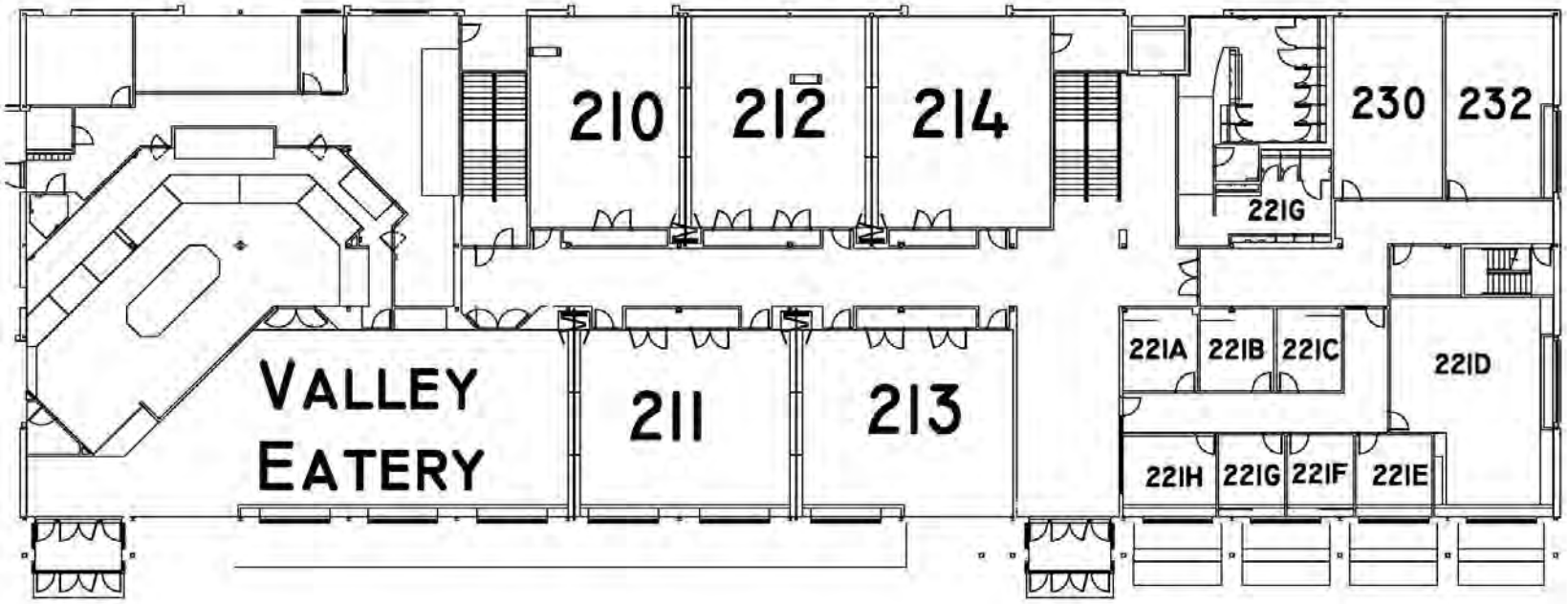
2015 Installed chair rail in the conference rooms on the second floor.

TEN YEAR CIP: The College is also planning a roof replacement in FY26 details of the project can be found in Section 6, Priority 7.

Career Programs Building (CPB)
1st Floor



CAREER PROGRAMS BUILDING
2ND FLOOR



CAREER PROGRAMS STORAGE

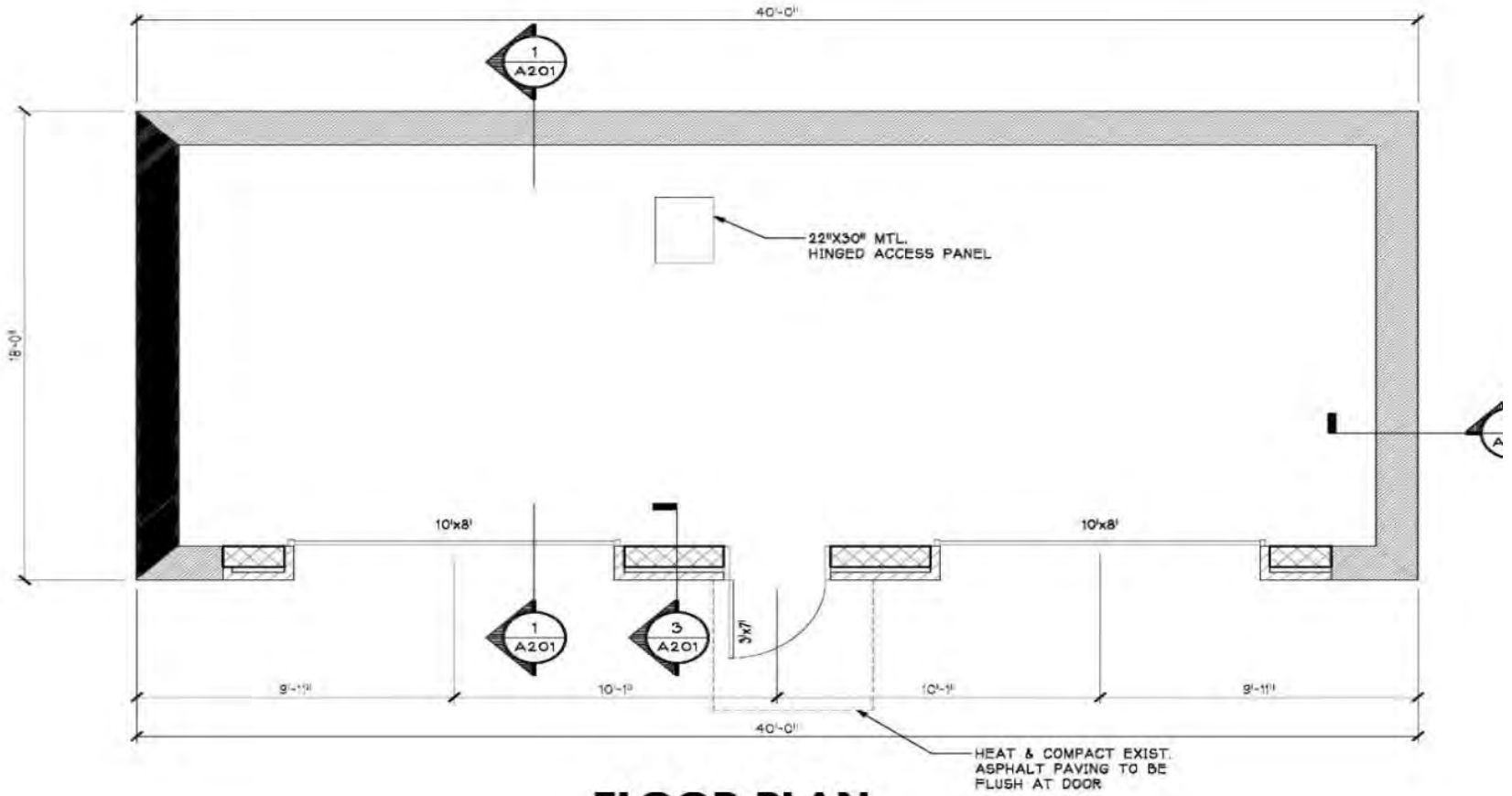
Year Built	2010		Comments
GSF	720		All concrete and cement block building. Slab on grade foundation Shingle roof Electric heat
Roof	Original - shingle		
HVAC	None		
Renovations	None		
Comments: Originally was dumpster pad for the CPB			
Unique functions: Houses the catering cart and publications			

HEGIS: (MES)		Square Footage:	
Classroom:		Net:	720
Lab:		Gross:	720
Office:		Efficiency:	1.0
Study:			
Special Use:		Floors:	1
General Use:		Constructed:	2010
Support:	720		
Other Org:			

FUNCTIONS: This structure was built to address some of the storage requirements for the Food Services and Public Information departments. One side of the building will house the food services catering cart. Electric heat has been installed in order to keep the cart from freezing during extreme cold periods.

DEFICIENCIES: The building was not intended to meet the total campus storage requirements. The building has minimal environmental controls, limiting storage of items that cannot get too hot or too cold.

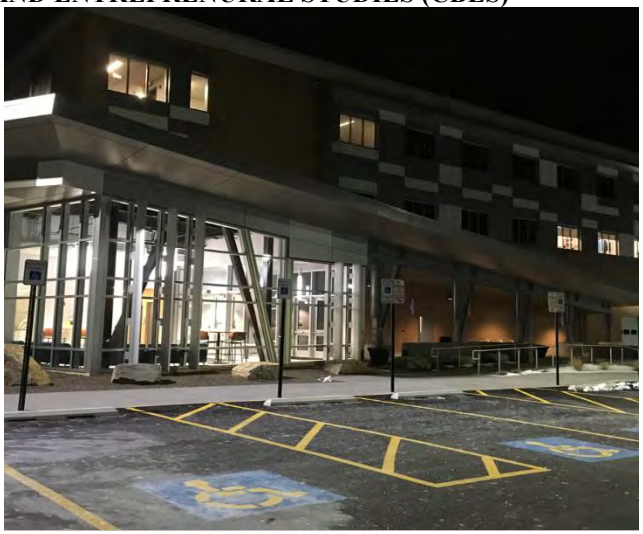
LIFE SAFETY & ADA: Compliant



FLOOR PLAN

1/4" = 1'-0"

CENTER FOR BUSINESS AND ENTREPRENURAL STUDIES (CBES)



Year Built	1993		Comments
GSF	34,302		Building supplied by Central Plant heating/cooling loop. Attached to the Central Plant cooling loop in 2005. One air handler unit supplies warehouse area; one small air handler supplies the glass walkway that attaches the ATC and TIC buildings. Stairways have electric, fan forced heaters. Air handlers and roof top units controlled and monitored by the energy management system.
Roof	2021 – Modified Bituman 2008 – TPO (wet labs)		
HVAC	Central Plant		
Renovations	2020-2022		
Address	20140 Scholar Drive		
Comments: 4000 SF wet lab addition completed February 2008 houses Bio-Tech start-up firms. Replacement of windows on the north side was completed in June 2008. TIC was connected to the Energy Management System 2011 Reconnected the chillers to a new cooling tower 2013 2020-2021 – The building underwent a complete renovation			
Unique functions: This building serves as a business incubator.			

HEGIS: (TIC)		Square Footage:	
Classroom:	2,013	Net:	20,341
Lab:	3,432	Gross:	34,302
Office:	1,084	Efficiency:	.59
Study:			
Special Use:		Floors:	3
General Use:		Constructed:	1993
Support:			2008 (Labs)
Other Org:	13,694	Renovated	2021

FUNCTIONS: The CBES offers entrepreneurs, start-up manufacturers, and technology oriented firms, low rent facilities and services for use in their first critical years. Office suites, open manufacturing space, wet labs, and conference areas are available with infrastructure support for advance telecommunications needs.

DEFICIENCIES: None

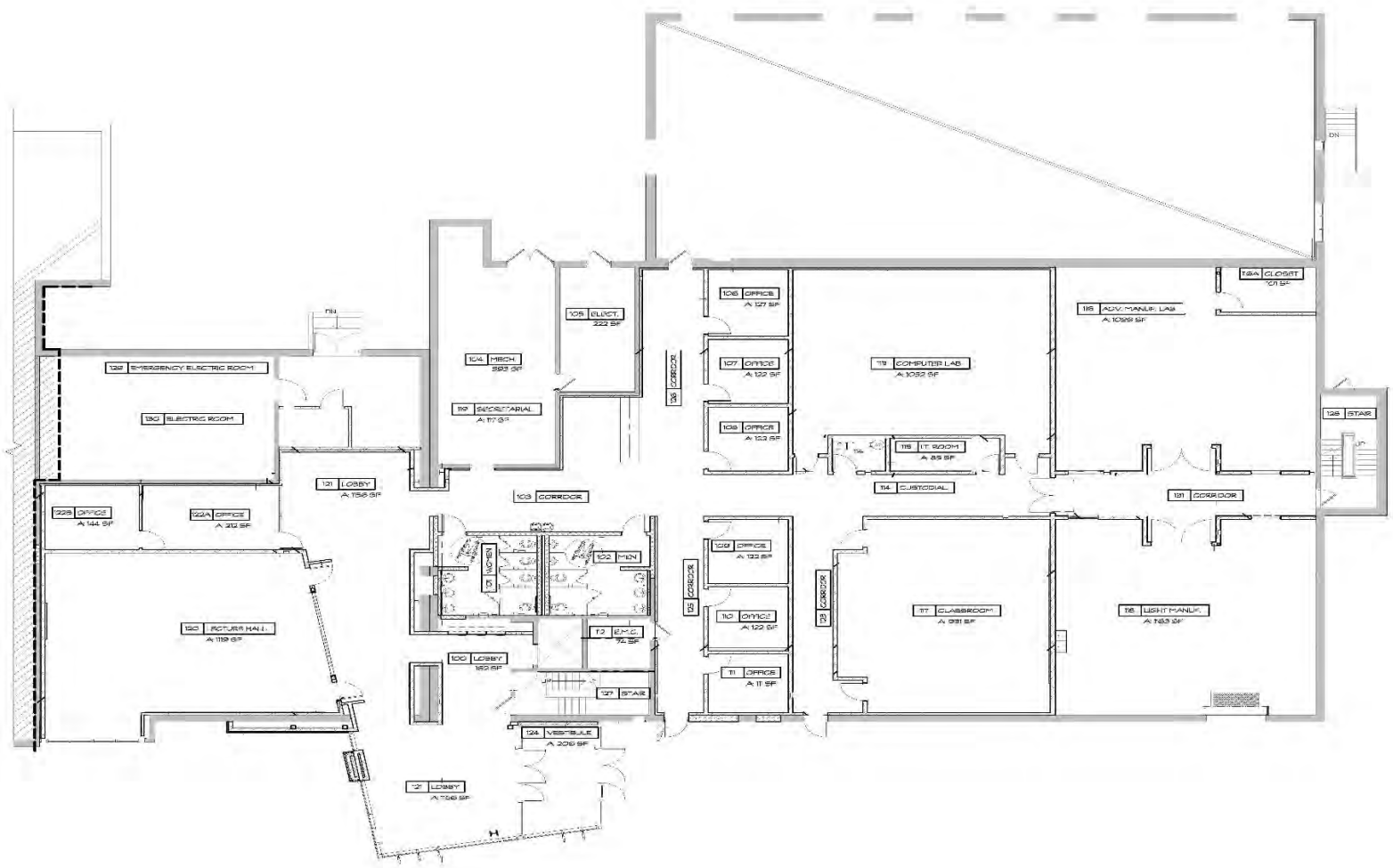
ADA: The building is ADA compliant.

IMPROVEMENTS: Windows were replaced in FY 2008 because they were fracturing from stress fatigue.
The TIC has a 4,000 GSF Wet Lab addition, which opened February 2008.

2021 – The building was completely renovated.

TEN YEAR CIP: None

Building – CBES

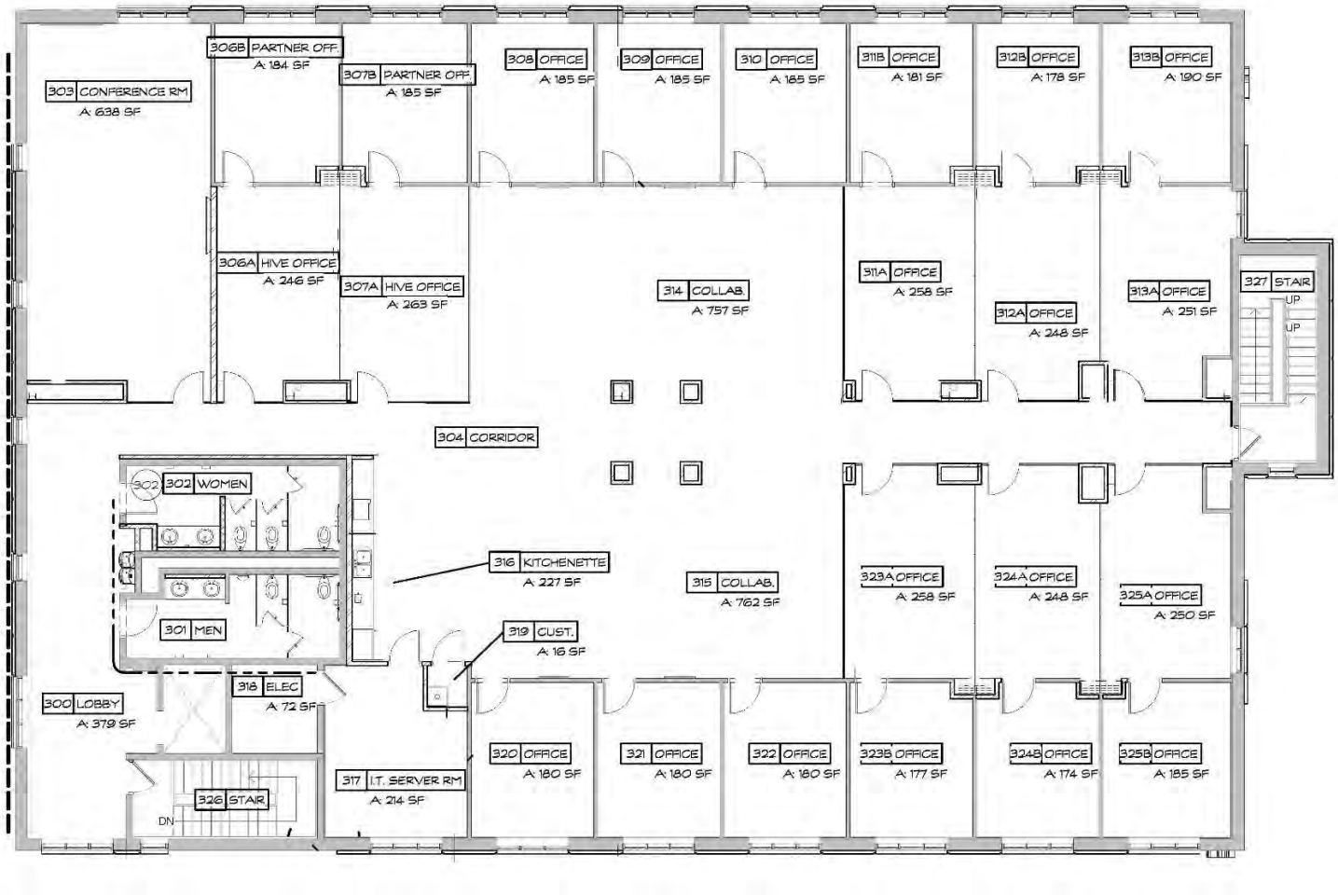


Lower Level

Building – CBES

Second Floor

Building – CBES



Third Floor

CENTRAL PLANT

Year Built	1966		Comments
GSF	3,830		2-pipe heating loop replaced with a 4-pipe, heating and chilled water loop (2000) Cooling loop Upgraded with two VAV drive units (2000) Sand filter system installed for the central loops. Stack replaced 2006 Monitored and controlled by energy management system CP hooked up to cooling loop (June 2008) 2 Rollup doors on the north end installed (2008) Drilled a 200ft. well next to the central plant to use in the cooling towers. Installed cyclone filtering system for sediment control (2012) An additional ,144 GSF was added existing building to accommodate an additional chiller A new water softener was installed for the domestic water Repair the ventilation from leaking flues into the plant (2022) **<u>Boilers</u>** 1- 200 hp Cleaver Brookes boiler Removed 2022 1- 400 hp Cleaver Brookes boiler (2004) Boiler Oil Tanks Removed (August 2008) 5 – Harsco Max C3000 condensing boilers installed (2011) 2 – 200 ton Fulton Condensing Boilers (2022)
Roof	2006 - Modified Bituminous Membrane Heidler Roofing 20-Year GAF Warranty		
HVAC	Central Plant		
Renovations	2000, 2015		
Address	20110 Shea Drive		

			Replaced #1 and #2 Harsco Heat Exchangers (2022) **Chillers** 2 – 250 ton cooling towers 1 – 300 ton cooling tower 3 – 100 HP Bell & Gossett chilled water pumps installed 2015 3 – 100 HP Bell & Gossett condenser water pumps installed 2015 2 – 600 ton cooling towers installed 2016
Comments: The Central Plant Heating and Cooling Capacity were evaluated as part of the planning for Arts and Science Complex and the addition to the Kepler Theater, and the chilling capacity was found to be deficient. Improvements were made in heating and cooling (see below). A new well was drilled and is being used in the cooling tower.			

HEGIS: (CNP)			
Classroom:	N/A	Square Footage:	
Lab:			
Office:		Net:	
Study:		Gross:	3,830
Special Use:		Efficiency:	.0
General Use:			
Support:		Floors:	1
Other Org:		Constructed:	1966

FUNCTIONS: This building houses the boilers and circulating pumps for generating and distributing hot water for heating. The chillers and circulating pumps are located in this building as well. The heating and cooling equipment support the central loop system.

DEFICIENCIES: Renovations to the Central addressed the cooling issues with addition of two new 600-ton chillers

ADA: Very tight spaces near the back area of the Central Plant can be sometimes difficult for someone with a disability.

IMPROVEMENTS:

Heating:

1966: The central plant was originally built with 2 boilers and no chiller.
1990: A third small Cleaver Brookes 200hp boiler was installed.
2004: One original boiler was replaced with a new 400 hp Cleaver Brookes boiler.
2008 Removed boiler oil tanks
2010 Removed 400hp Kewanee Boiler
2011: 5 high efficiency condensing boilers were installed that can be operated all years without using the large boiler to control the humidly problems that we have experience throughout campus with the renovated buildings.
Variable Frequency Drives were installed on the hot water pumps
Replaced 5 tubes on the 400-ton Cleaver Brooks Boiler
2012 Replaced 2 tubes on the 200-ton Cleaver Brooks Boiler
2022 Removed the 200hp Cleaver Brookes Boiler
Installed two Fulton VR20 condensing boilers
Replaced #1 and #2 heat exchangers in the Harsco condensing boilers

Cooling

2000: New central chillers and circulating pumps (900 ton) were installed.
2008: 350 ton York Chiller installed
2011: Removed two – 200 ton McQuay Chillers and the 350 ton York Chiller
2011: Installed 650 ton McQuay Variable Frequency Chiller
Installed a cyclone loop filtering system
Changed the medium in the large cooling system
2012: A 200 ft. well drilled to be used in the cooling towers
Water installed to be used along with a new water softener.
2013 New piping and valve system for the ASA / LRC / CP
2014 Installed an I-Beam
Removed 350-ton York Screw Chiller due to catastrophic failure
Started planning process with A/E to install two new chillers and towers
2016 Installed two Carrier 700 ton chillers. The new chillers along with the existing McQuay chiller has combined total of 2,050 cooling capacity
Installed two 600 ton cooling towers and reconfigured the three existing cooling towers for a combined total of 2,150-ton condensing cooling capacity

TEN YEAR CIP: The College is also planning a roof replacement and also a chiller replacement using the renewal funds provided to the College's every 2 years. See Section 6, Priority #8 and #10.

Energy and Trades Training Center

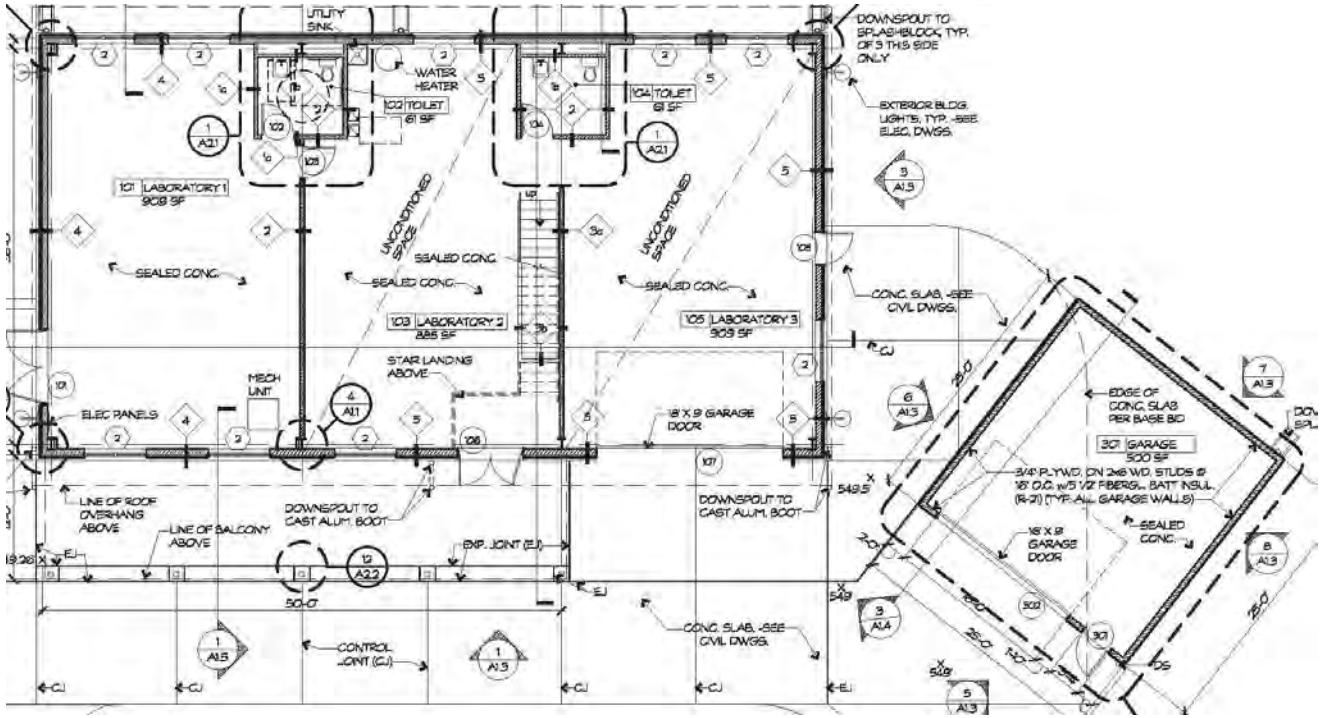
Year Built	2018		Comments
GSF	3,600		Solar Panels and Solar domestic hot water Collection to be installed in 2019
Roof	2018		
HVAC	Heat Pump Ground Water Heat Pump Unit Heaters		
Address	18052 Yale Drive		
Unique functions: The building consists of 1 classroom and 2 labs for trades related to the solar, wind, geothermal, plumbing and electric.			

HEGIS: (KPR)		Square Footage:	
Classroom:		Net:	
Lab:	3,203	Gross:	3,666
Office:		Efficiency:	.89
Study:			
Special Use:		Floors:	1
General Use:		Constructed:	2019
Support:			
Other Org:			

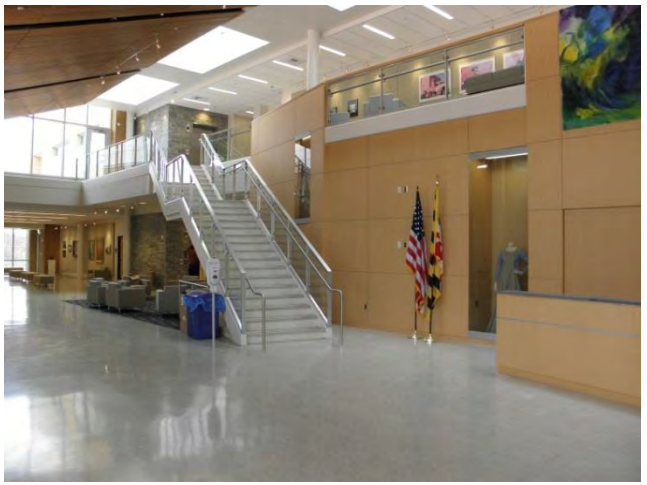
FUNCTIONS: The Energy and Trades Training Center will offer a variety of courses from solar, wind and geothermal. Along with plumbing, electrical and HVAC.

DEFICIENCIES: None

ADA: Compliant



Kepler Theater / Performing and Visual Arts Education Center



Year Built	1978		Comments
GSF	37,476		New roof by Kline Roofing, 20-year John Mansville warranty over existing theater structure (house and backstage) (2004) Original roof on the Performing and Visual Arts Education Center (PVAEC) by Kalkrueth Roofing, 20-year Firestone warranty, 3 ply modified bitumen. (2012) A new PVAEC addition was added to the existing Kepler Theater in 2012.
Roof	2004 – Built-up Asphalt (Theater) 2011 – Built-up Asphalt (PVAEC)		
HVAC	Central Plant		
Renovations	2004, 2012		
Address	11512 Kepler Drive		

Comments:
Kepler has two rooftop units AHU 3 and AHU 7
Stage set workshop has AHU 1, AHU 2, AHU 4.
AHU 6 is in the basement and it supplies black box theater and art classrooms.
Classrooms and offices use VAV's to supply heating and cooling.
All systems controlled by Energy Management System.
Fan coil units in the entrances to the building.

Unique functions: 500 seat auditorium, dance studio/black box and the campus gallery

HEGIS: (KPR)		Square Footage:	
Classroom:	4,016	Net:	23,252
Lab:	6,117	Gross:	37,476
Office:	1,976	Efficiency:	.62
Study:			
Special Use:		Floors:	2
General Use:	11,143	Constructed:	1978
Support:		Renovated:	2012
Other Org:			

FUNCTIONS: The Atlee C. Kepler Theater houses a stage, music practice rooms, dressing rooms, and a workshop. The theater seats approximately 500 persons. The PVAEC supports the humanities department with art studios, dance studio/black box theater, music rooms both individual and ensembles. The humanities faculty has been relocated to the building. The lobby also doubles as the College's gallery with special walls and display cases.

DEFICIENCIES: None

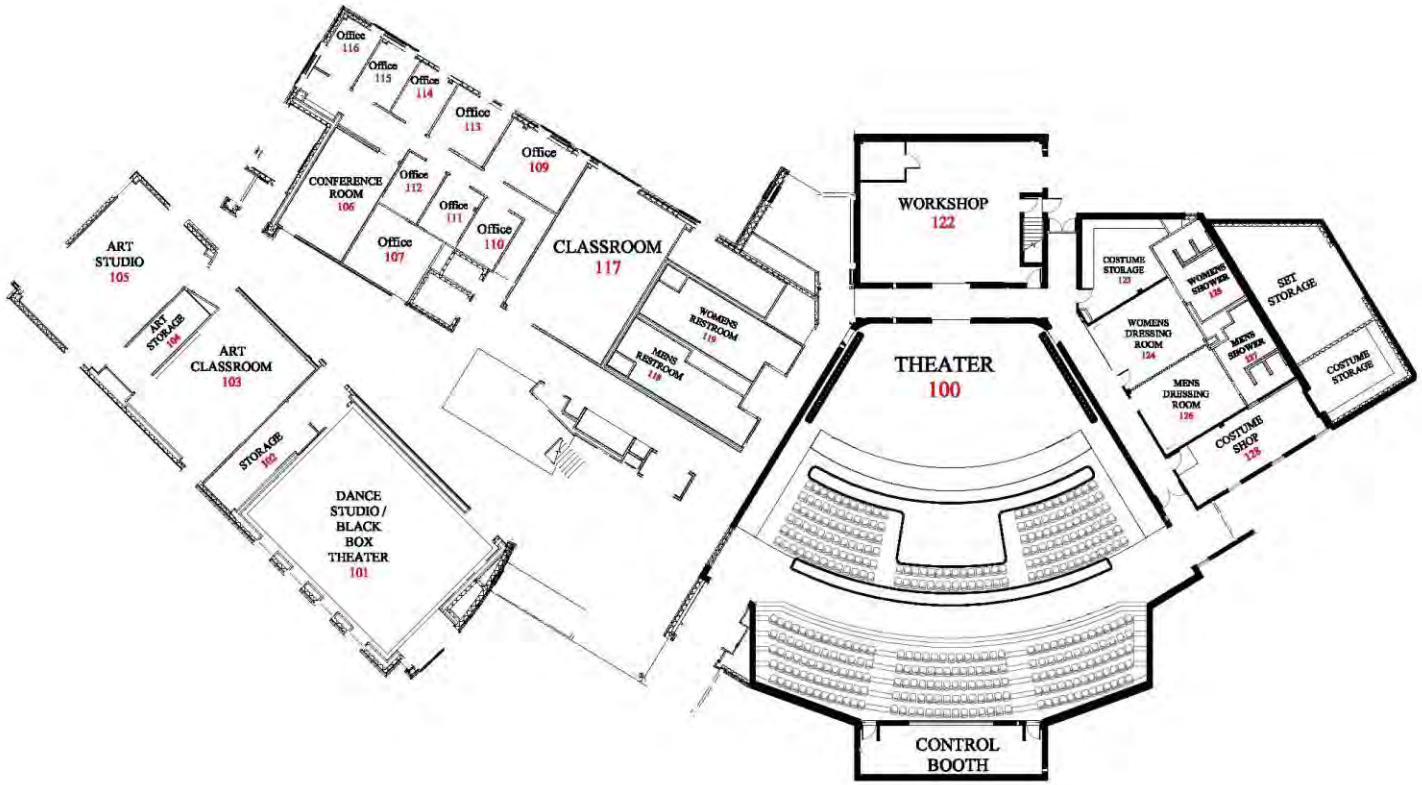
ADA: Compliant

IMPROVEMENTS: 2004: A new roof was installed over the original Kepler Theater.

2012: A complete renovation of the existing theater and an addition was added to the theater.

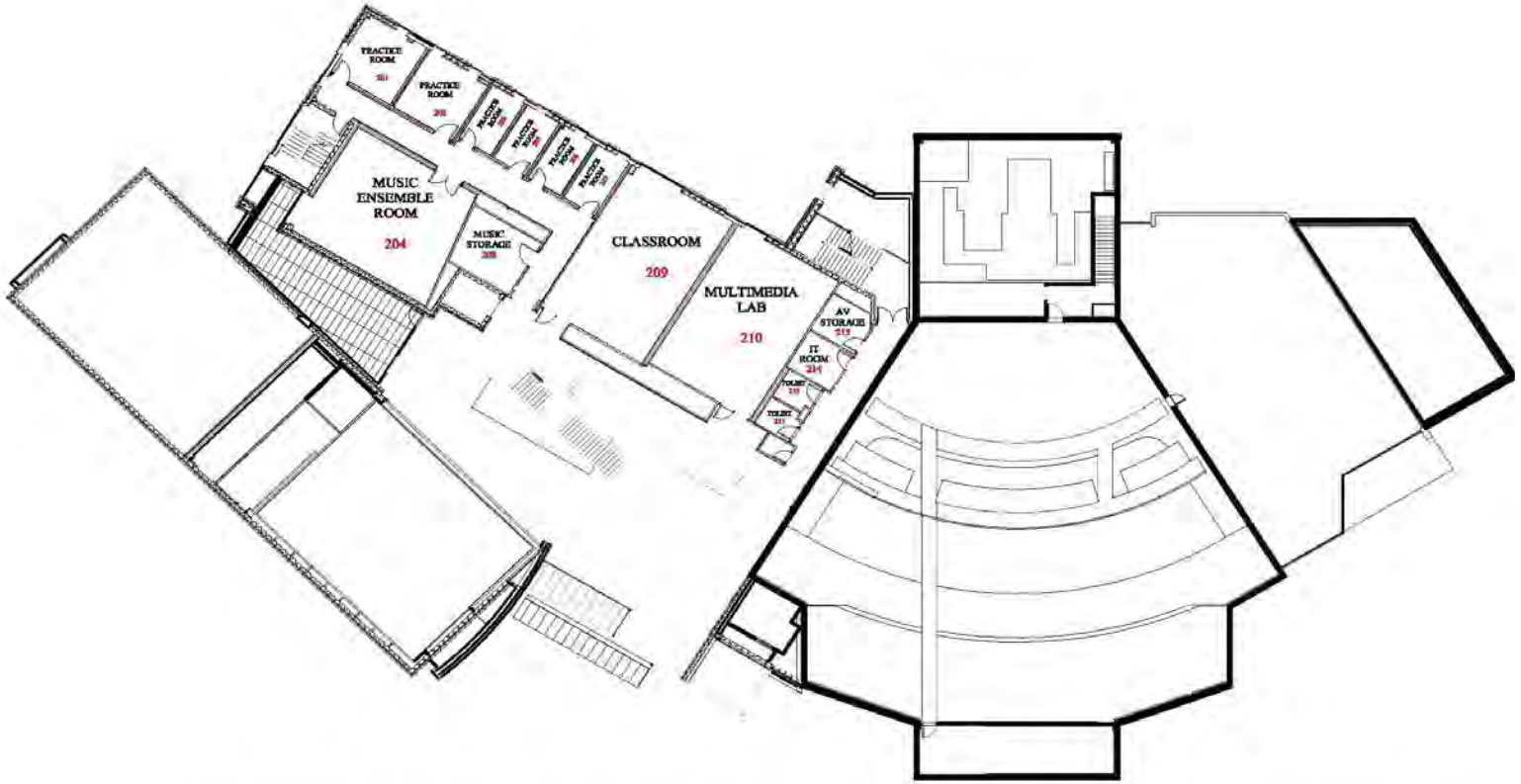
TEN-YEAR CIP: The College will be installing a new roof over the original building in the Spring of 2023 with the Facilities Renewal Grant. Section 6, Priority #8.

Building – Theater



PERFORMING AND VISUAL ARTS EDUCATION CENTER
AT KEPLER THEATER
1ST FLOOR

Building – Theater



PERFORMING AND VISUAL ARTS EDUCATION CENTER
AT KEPLER THEATER
2ND FLOOR

LEARNING RESOURCE CENTER

Year Built	2000		Comments
GSF	57,741		Roof by Garland roofing. Snowbirds installed on metal barrel roof by Kline Roofing, FY 2007 Houses the campus library and the testing center.
Roof	2022– Built-up Asphalt		
HVAC	Central Plant		
Renovations	2004, 2017		
Address	11432 Academic Blvd.		
Comments: All heating and chilled water supplied by Central Plant 4-tube loop system. 3 air handling units with variable drives and fin tube radiant heat on outside walls of all three floors. Monitored and controlled by energy management system.			
Unique functions: None			

HEGIS: (LRC)		Square Footage:	
Classroom:	11,413	Net:	34,207
Lab:	2,149	Gross:	57,741
Office:	8,850	Efficiency:	.59
Study:	6,866		
Special Use:	250	Floors:	3
General Use:	40	Constructed:	2000
Support:	4,639		
Other Org:			

FUNCTIONS: The building houses the William M. Brish Library, the Testing and Tutoring Center, with placement testing areas, basic skills laboratories and tutoring rooms, Firearm Simulation System and general instruction space with nine classrooms and three computer and one distance learning laboratories. The building cost roughly $8.3 million to build.

DEFICIENCIES: The barrel roof leaks and needs to be repaired. The HVAC controls of the building need to be upgraded for better energy efficiency.

IMPROVEMENTS:

2009: Roof leaks were addressed and repaired in the area of room 201.

2010: New ADA exterior doors were replaced on the 2nd floor.
Thirty three VAV controllers on the 3rd floor were replaced.

2011: New ADA exterior doors were replaced on the 1st floor.
New firearms simulation classroom was created
Vice President of Academics office was renovated

2012 1st Section of the Testing Center was expanded

2013 2nd Section of Testing Center was expanded
New section of sidewalk installed from front of campus to LRC
LRC installed piping system for HVAC

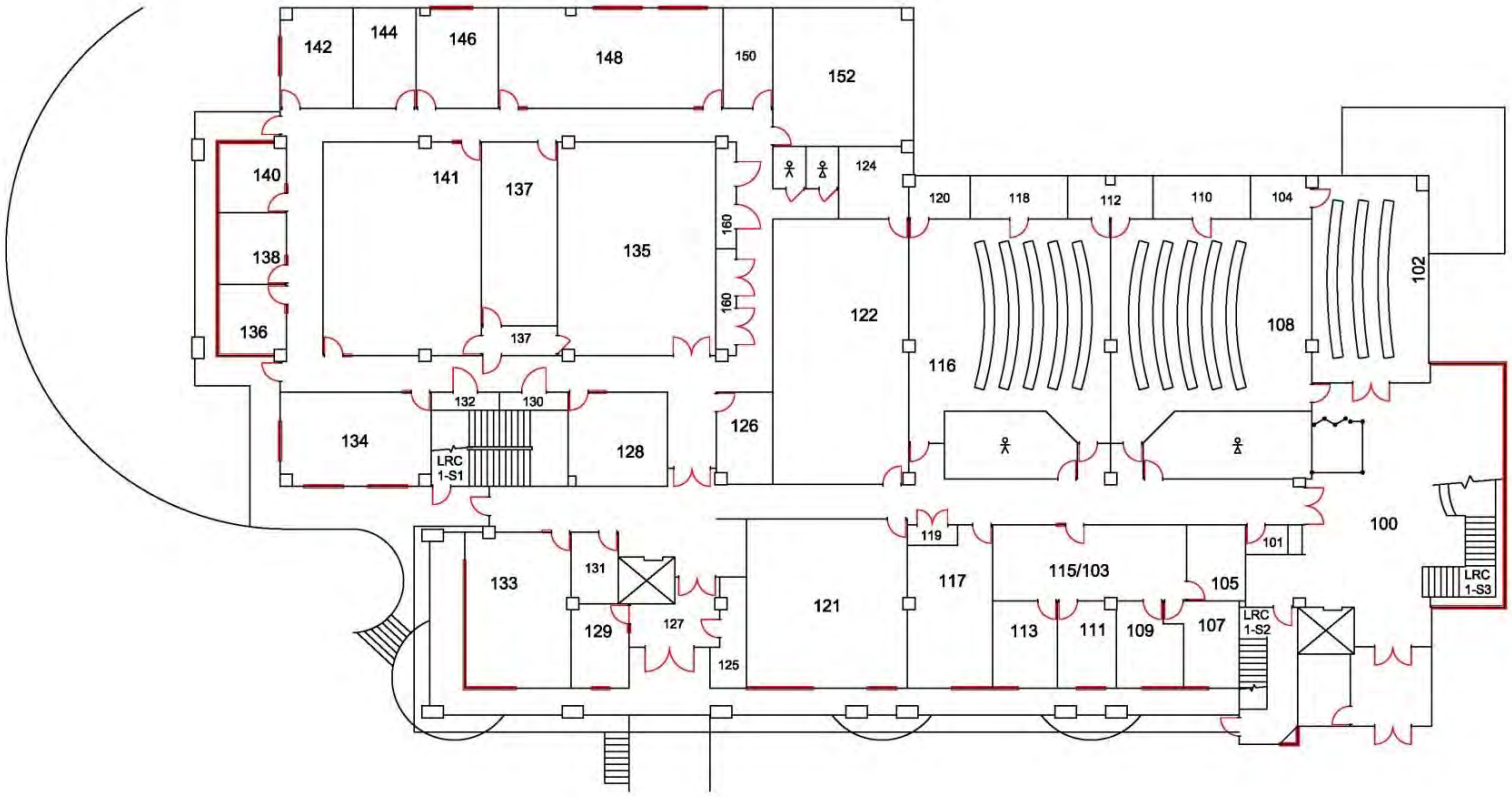
2015 Repaired second floor conference room and stairway roof along with the downspouts of the barrel roof.
Installed split system HVAC units in the three testing center rooms and the computer lab.
The renovated Student Center is now connected to the LRC in location of the former stacks of the Library. Until this area is renovated for the Middle College we have created a walkway to the elevator to maintain pedestrian flow for ADA compliancy.

2016	Renovations of the LRC that included a complete renovation of the second floor that included connecting the LRC to the Student Center, downsizing the Library and creating Middle College Space, and four classrooms. First floor renovations were an expanded Campus Police office suite and three new offices. All other areas of the building were cosmetic with new flooring, paint and furniture.
2019	Remaining classroom and office furniture were replaced.
2022	Installed a new roof and metal panel replacement.

LIFE SAFETY & ADA: Compliant

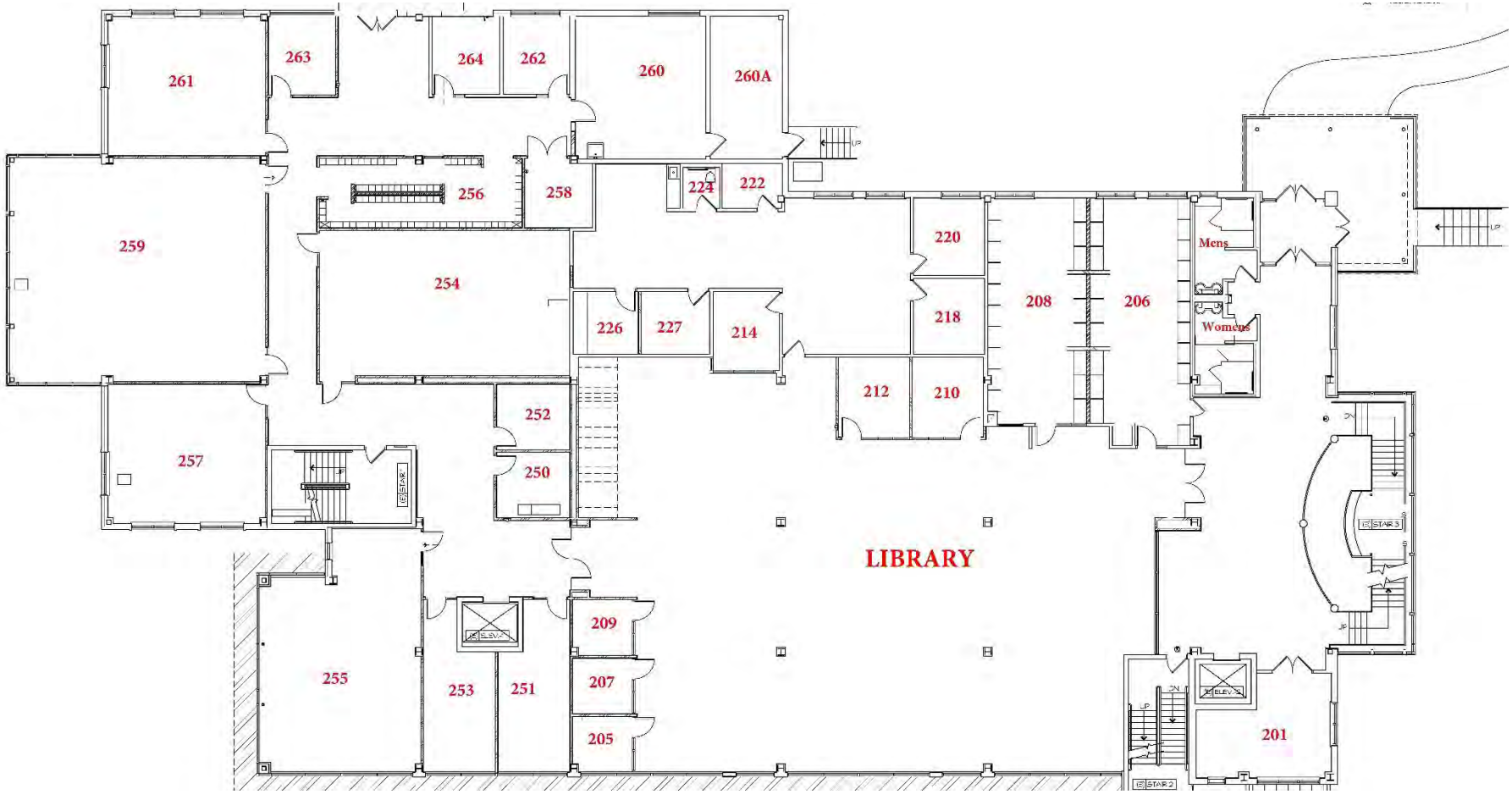
10 YEAR CIP: None

Building – Learning Resource Center



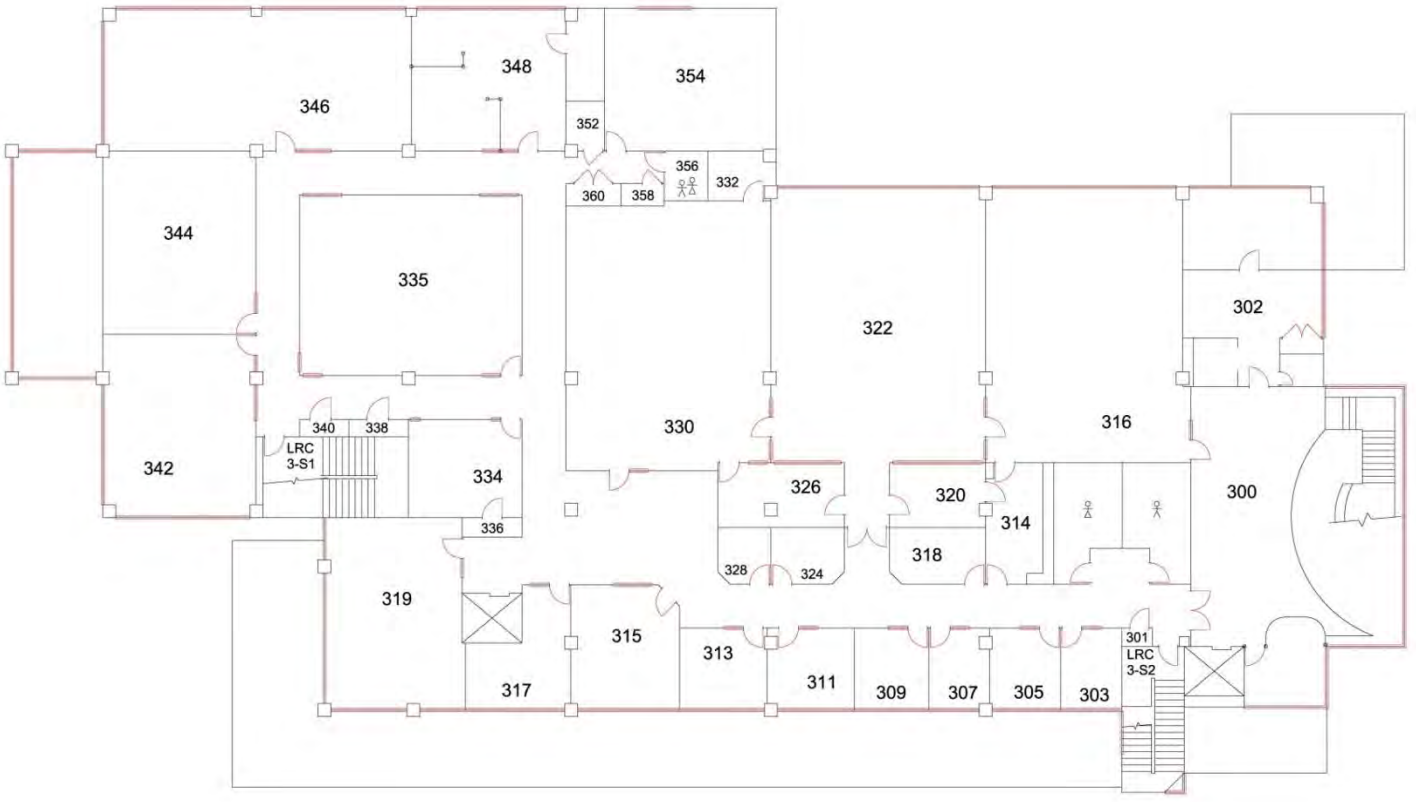
LRC 1st Floor

Building – Learning Resource Center



LRC 2nd Floor

Building – Learning Resource Center



LRC 3rd Floor

LEARNING SUPPORT CENTER

Year Built	1966		Comments
GSF	17,732		New roof 2006 Heidler Roofing, 20-year GAF warranty
Roof	2006 - Membrane		Through-the-wall fan coil units on outside walls and air handling unit supplied by Central Plant heating and chilled water loop to heating and cooling coils. Monitored and controlled by energy management system. Complete renovation began January 2012 to convert the building into a College Learning Center
HVAC	Central Plant		
Renovations	1992, 2012		
Address	20108 Student Circle		
Unique functions: The new Learning Center will house all of the different learning centers across campus including Science, Mathematics, English and Computer.			

HEGIS: (SCI)		Square Footage:	
Classroom:	2,615	Net:	10,973
Lab:		Gross:	17,732
Office:	1,311	Efficiency:	.62
Study:	7,047		
Special Use:		Floors:	1
General Use:		Constructed:	1966
Support:		Addition:	1990
Other Org:		Renovated	2012

FUNCTIONS: The building houses all of the different learning centers across campus in one location (Mathematics, Science, IT, and English). The Learning Center will hold over 200 students at one time. There is also a tiered classroom in the building for 60 people.

DEFICIENCIES: None

ADA: Compliant

IMPROVEMENTS: 1990 Addition added to the building

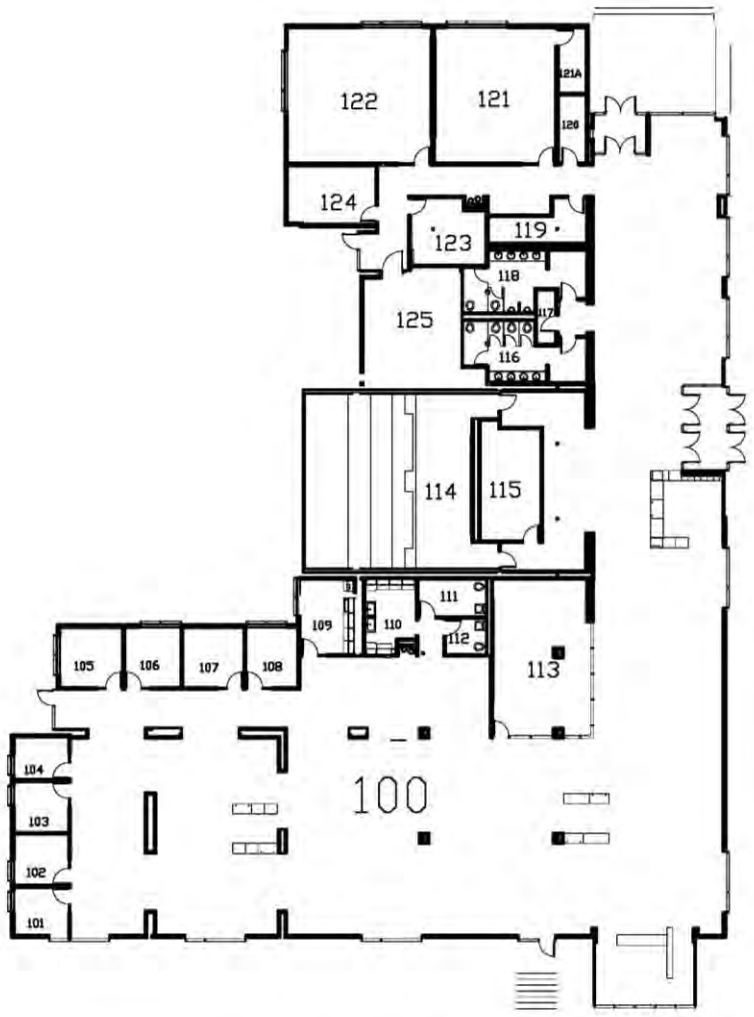
2006 roof replaced

2012 complete renovation of the building.

2013 Room 121 was divided into 3 seminar rooms

TEN YEAR CIP: The College is also planning a roof replacement using the renewal funds provided to the College's every 2 years. Details of the CIP are provided in Section 6, Priority # 4.

Building – Learning Support Center



LEARNING SUPPORT CENTER
(LSC)

MAINTENANCE EQUIPMENT STORAGE

Year Built	2006		Comments
GSF	6,375		All metal building, including roof. Slab on grade foundation Two side extensions which were added 15'x 45' (675 sf) and 15' x 60' (900 sf) in the 2007 Electric heat, installation and additional electrical outlets installed on left extension in 2010 New ceiling was installed in 2013 Gas Heat installed in 2013 in main section Building was installed next to main building 20' x 40' (2,400 sf) (2021)
Roof	Original - metal		
HVAC	Gas Heat		
Renovations	None		
Comments: Includes original 40' x 60' plus side extensions which will be 15'x 45' and 15' x 60'			
Unique functions: Grounds equipment storage			

HEGIS: (MES)		Square Footage:	
Classroom:		Net:	6,375
Lab:		Gross:	6,375
Office:		Efficiency:	1.0
Study:			
Special Use:		Floors:	1
General Use:		Constructed:	2006
Support:	6,375	Renovations:	2010
Other Org:			2022

FUNCTIONS: This structure was built to address some of the storage requirements of the facilities department, as well as the need for space to store equipment and furniture due to the increased Facilities workspace after the move to the Robinwood Center. The left wing is the carpenters workspace, the right wing houses grounds small equipment, the main portion is storage for large items and available for large projects, and the additional building houses furniture with small cages for different departments. All spaces are heated to maintain climate control.

DEFICIENCIES: The building was not intended to meet the total campus storage requirements. The building has no air conditioning, limiting storage of items that cannot get too cold. Due to the limited amount of space for maintenance equipment, a separate building would be useful to store the grounds equipment. Due to construction there has been a need for specialized ground equipment to be purchased and a need for storage of this equipment.

LIFE SAFETY & ADA: Compliant

10 YEAR CIP: NA

MOTORCYCLE STORAGE BUILDING

Year Built	2008		Comments
GSF	1,750		Storage for motorcycles for Motorcycle Training Course, Art, Industrial Technology, and College for Kids.
Roof	Original – Shingle		
HVAC	Forced Fan Electric Heat		
Renovations	None		
Unique functions: None			

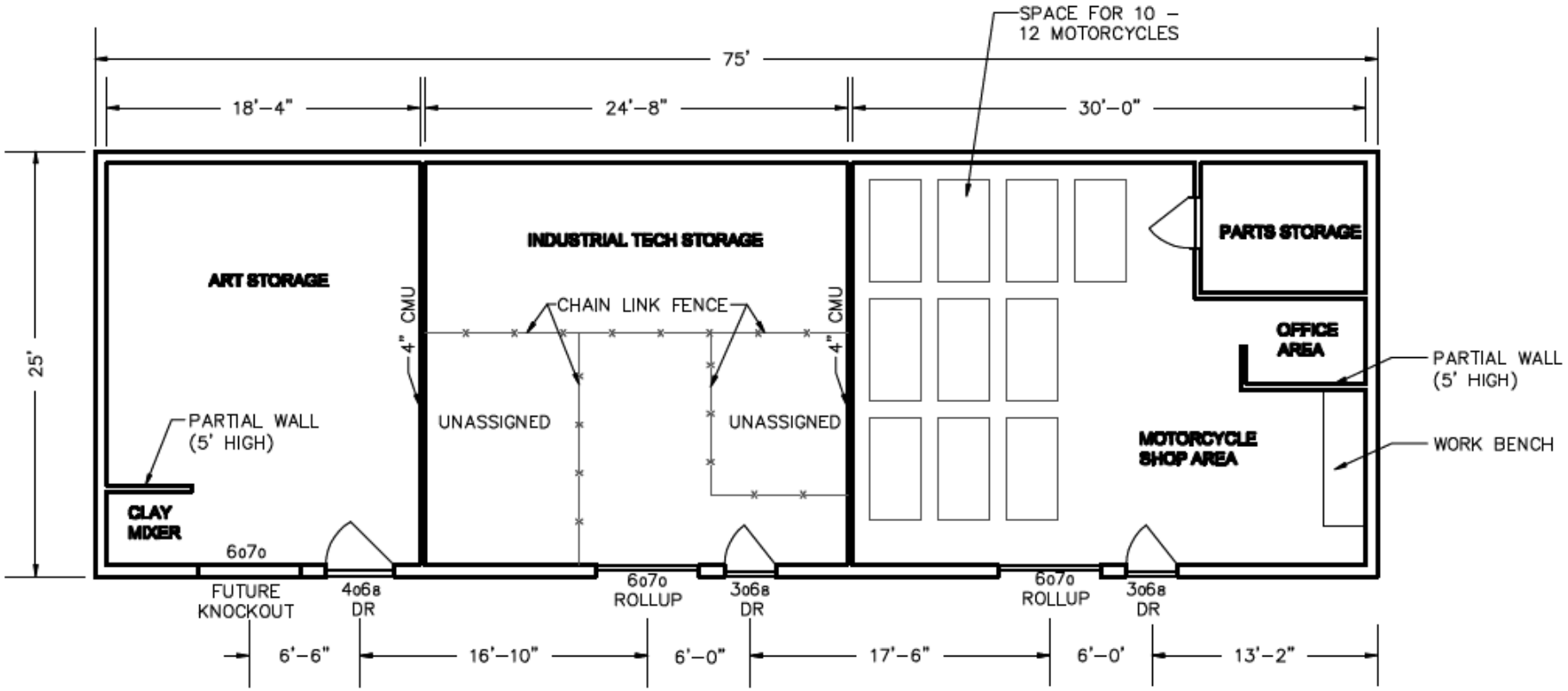
HEGIS: (MSB)		Square Footage:	
Classroom:		Net:	1,455
Lab:	598	Gross:	1,750
Office:		Efficiency:	.83
Study:			
Special Use:		Floors:	1
General Use:		Constructed:	2008
Support:	857		
Other Org:			

FUNCTIONS: This structure was built to address the need for secure storage of motorcycles used in the motorcycle training course. It also provides storage for Art and the Industrial Technology Program, which are immediately adjacent in the CP Building. This Building is sectioned off into 3 separate areas.

DEFICIENCIES: None

IMPROVEMENTS: 2011: Emergency lighting and exhaust fans were installed for motorcycle repair classes
Concrete pad installed next the building for motorcycle repair classes and also to house the kiln for the art classes
The building was rezoned to have motorcycle repair classes in this space

LIFE SAFETY & ADA: Compliant


SPACE FOR 10 – 12 MOTORCYCLES
75'
18'–4"
24'–8"
30'–0"
25'
ART STORAGE
INDUSTRIAL TECH STORAGE
PARTS STORAGE
4" CMU
CHAIN LINK FENCE
4" CMU
OFFICE AREA
PARTIAL WALL (5' HIGH)
PARTIAL WALL (5' HIGH)
UNASSIGNED
UNASSIGNED
MOTORCYCLE SHOP AREA
WORK BENCH
CLAY MIXER
6o7o
FUTURE KNOCKOUT
4o6s DR
6o7o ROLLUP
3o6s DR
6o7o ROLLUP
3o6s DR
6'–6"
16'–10"
6'–0"
17'–6"
6'–0'
13'–2"

FLOOR PLAN

ROBINWOOD CENTER

Year Built	1970		Comments
GSF	8,435		Shingles were replaced in 1992 Electric heat with air conditioning and through-the-wall heating/cooling electric units; new electric baseboard heat in pre-K classroom by offices. Windows were replaced in 2008 Roof replaced 2018 during building renovations
Roof	2018 - Shingle		
HVAC	Electric		
Renovations	1992 2008 – Windows Replaced 2018-Renovation of the building 2019 – Enclosed back patio area		
Address	20111 Shea Drive		
Comments: The Washington County Board of Education for Pre-K and Kindergarten classes vacated the building in the Summer, 2011. In 2018 the building was renovated for the Facilities Department			
Unique functions: Houses the Facilities Department			

HEGIS: (RCC)			
Classroom:		Square Footage:	
Lab:			
Office:	2,030	Net:	4,389
Study:		Gross:	8,435
Special Use:		Efficiency:	0.52
General Use:			
Support:	2,359	Floors:	1
Other Org:		Constructed:	1970

FUNCTIONS: Originally this building was used by the Washington County Board of Education (WCBE) for Pre-K and Kindergarten education. In 2011 the Building has changed functions several time it is currently being used for the Facilities Department.

DEFICIENCIES: None

IMPROVEMENTS:

1992 Renovated

2010 Replaced seven through the wall HVAC units

2013 Designed ADA bathrooms
Reused exterior doors from renovated buildings
Replaced ceiling tiles

2014 Moved Bookstore to Robinwood Center until Student Center expansion is complete in Summer 2016.
Renovated adult restrooms
New lighting installed in the lobby and bathrooms
Installed new paneling

2015 Moved the Campus Store to the Student Center

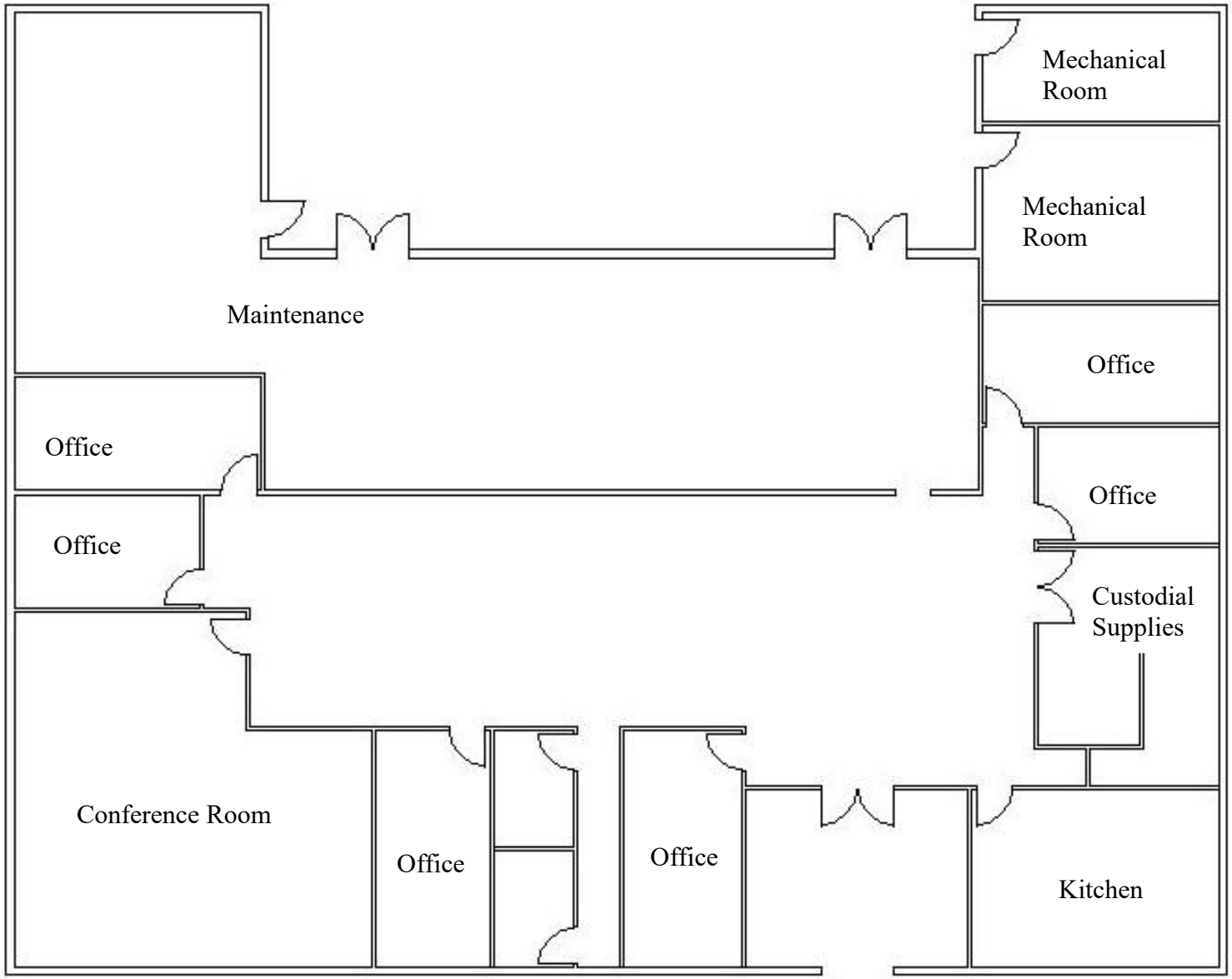
2016 Converted the area to office space for grant funded positions that they occupied until 2017

2018 Building completely renovated with new roof, offices and storage for the Facilities Department

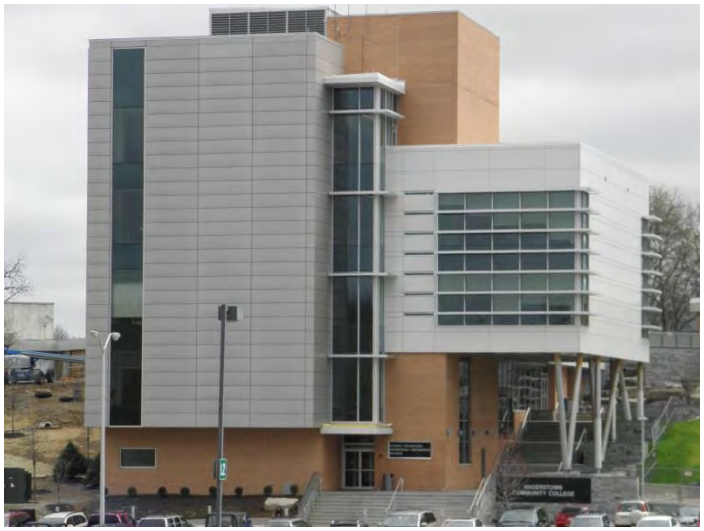
2019 Enclosed the back patio

2022 Created more office space

LIFE SAFETY & ADA: ADA access is barely minimal and will need to enter from the upper E parking lot


Mechanical Room
Mechanical Room
Maintenance
Office
Office
Office
Office
Custodial Supplies
Conference Room
Office
Office
Kitchen

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS (STEM) BUILDING



Year Built	2012		Comments
GSF	62,840		Original Roof 2011, City Roof, 20-year warranty, Firestone asphalt roofing sheets, 3ply modified bitumen. STEM has a custom designed rooftop air handler with VAVs on each floor (controlled by energy management system). The rooftop unit is supplied with chilled water and hot water from the Central Plant. Fan coil units are located in stairwells and at entrances in hallway. Separate split system air conditioning units are located in rooftop mechanical room and Telecom closets.
Roof	2012 - Membrane		
HVAC	Central Plant		
Renovations	None		
Address	20114 Student Circle		
Unique functions: Science Labs, Computer Labs, Alternate Energy Lab, Digital Instrumentation Lab and Classrooms			

HEGIS: (SCI)		Square Footage:	
Classroom:	7,555	Net:	35,737
Lab:	21,676	Gross:	62,840
Office:	5,060	Efficiency:	.57
Study:			
Special Use:		Floors:	5
General Use:	1,452	Constructed:	2012
Support:			
Other Org:			

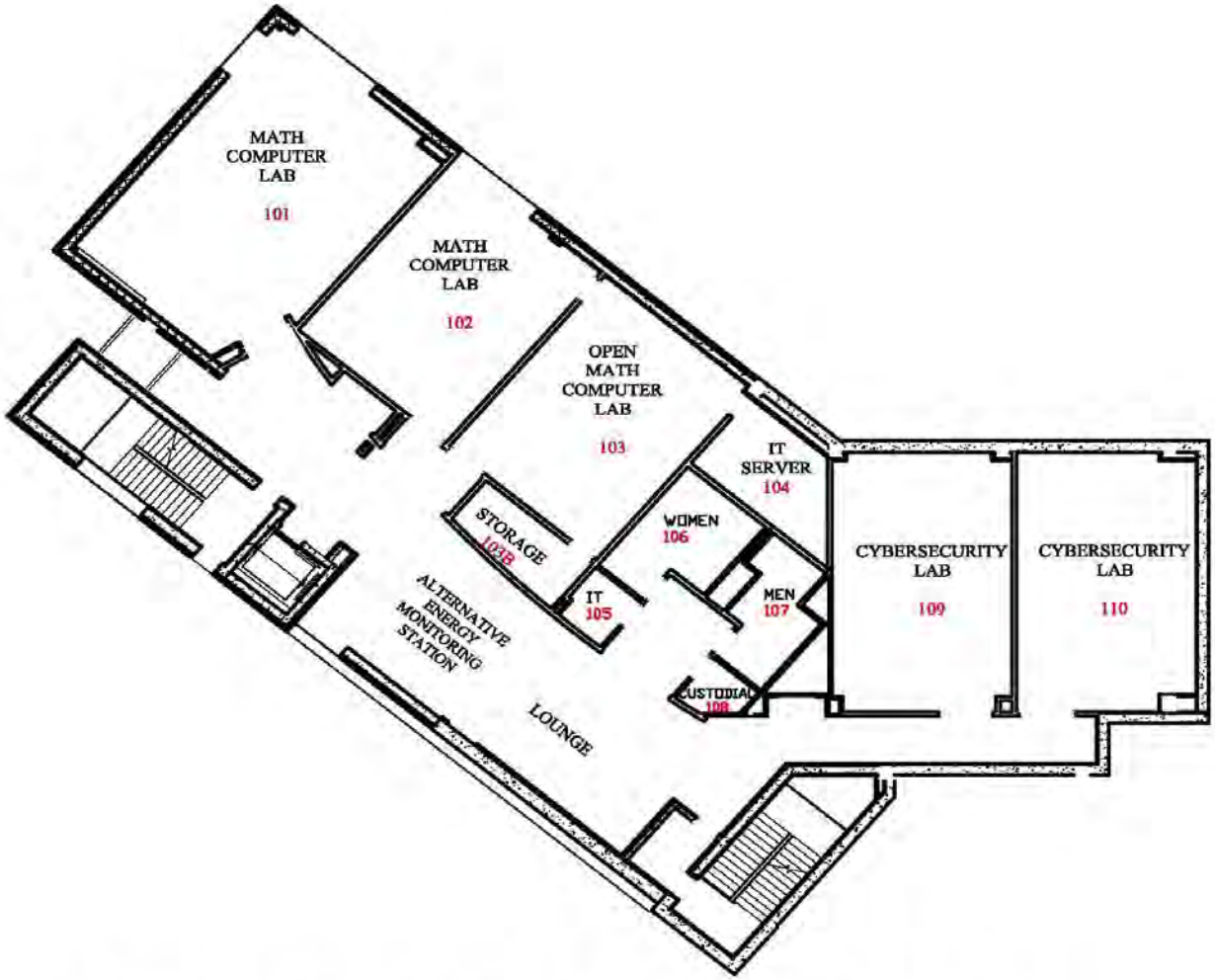
FUNCTIONS: This building contains 9 Science Labs: Engineering, Physics, Biology, Microbiology, Biotechnology, 2-Anatomy and Physiology, Organic Chemistry, and General Chemistry Labs. STEM also houses other labs that include Cybersecurity, Alternate Energy and Digital Instrumentation Lab along with 3 Computer labs. The remainder of the building is classrooms and faculty offices.

The STEM building is a state-of-the-art building with green features throughout that includes two green roofs on the 3rd and 5th floors, water cisterns that are used for gray water in the restrooms on floors 3 – 5. Geothermal well was drilled for teaching in the Alternate Energy Lab. Solar panels are scheduled to be installed within the near future.

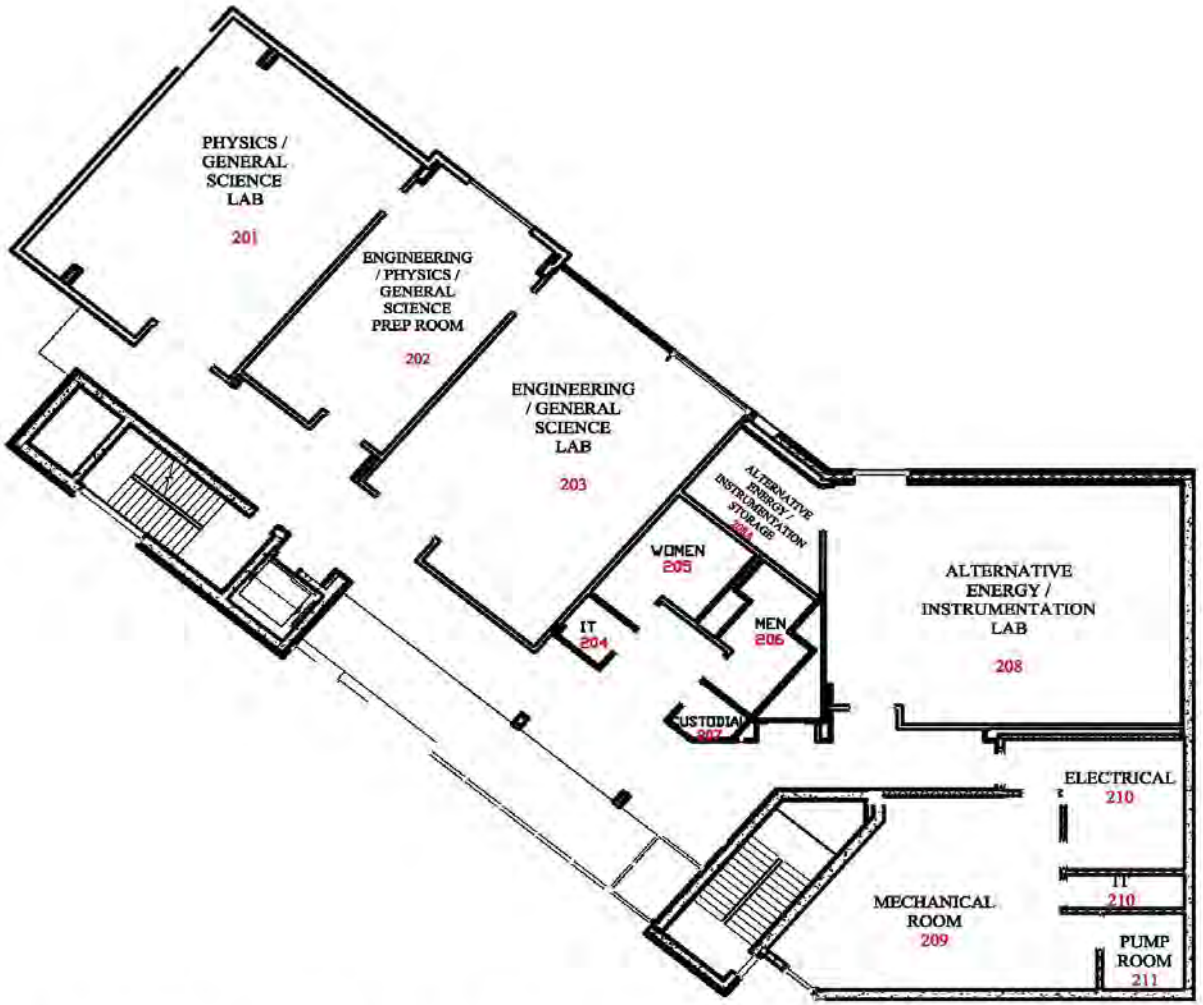
DEFICIENCIES: None

ADA: Compliant

IMPROVEMENTS: None

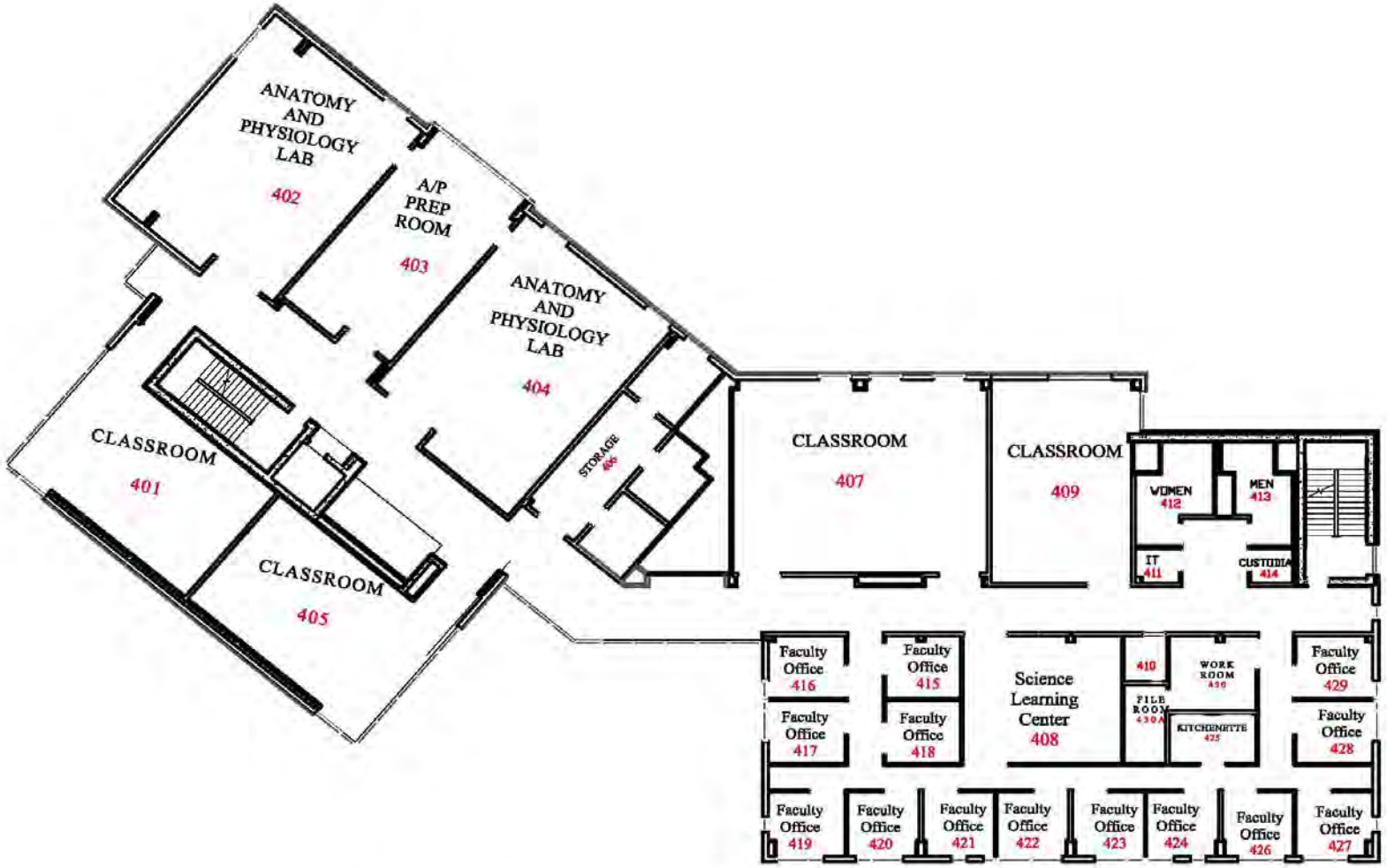


STEM 1ST FLOOR



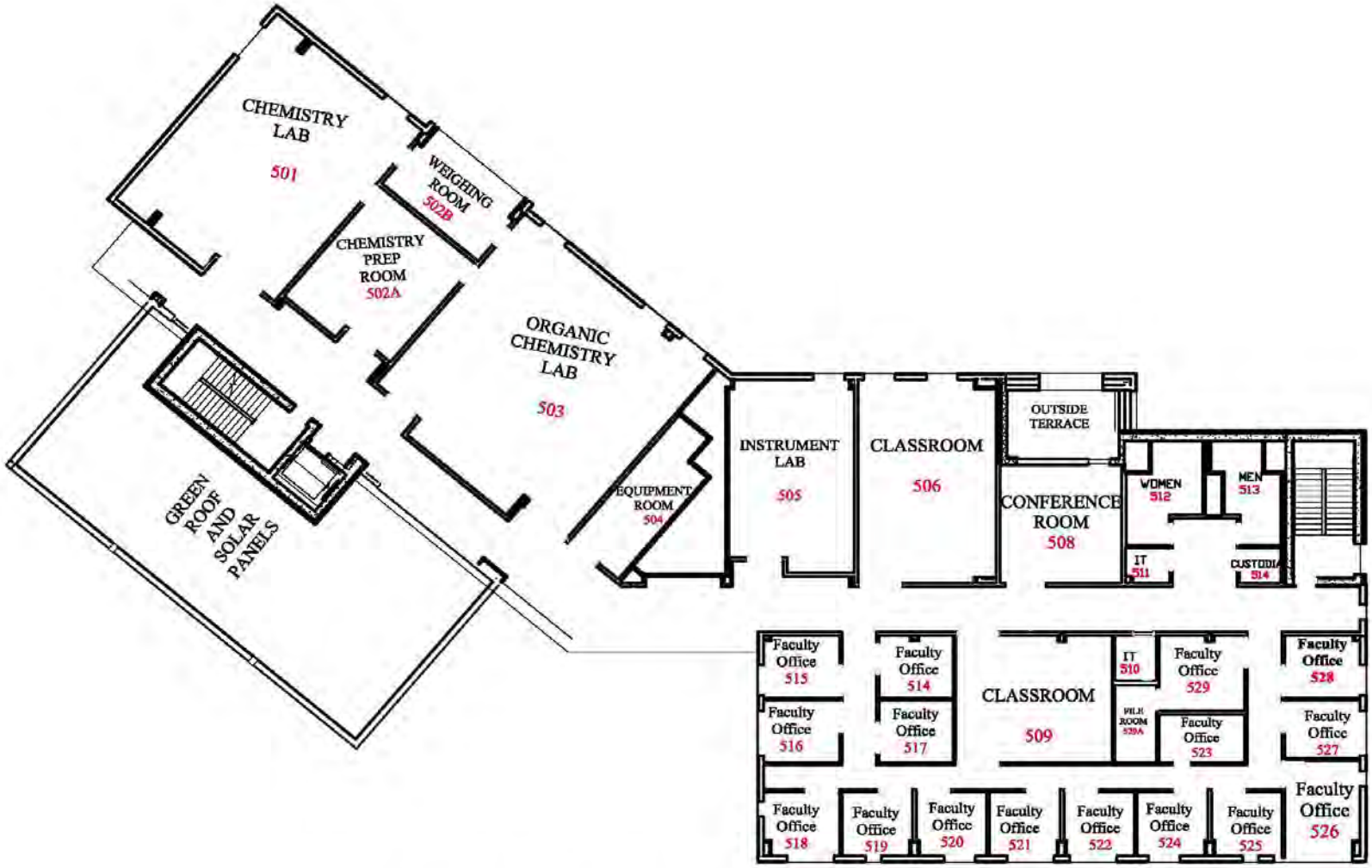
STEM 2ND FLOOR

STEM 3RD FLOOR



STEM 4TH FLOOR

Building – STEM



STEM 5TH FLOOR

STUDENT CENTER

Year Built	1966		Comments
GSF	13,293 – Original 29,229 – Expansion (2015)		Houses Academic Advising, Campus Store, Hilltop Café and Hawk Eatery, and Student Government Association. Renovated 2002, 2015
Roof	2002 – Built-up Asphalt 2015 – PVC Fleece Backed (expansion)		
HVAC	Central Plant		
Renovations	2002, 2015		
Address	20101 Student Circle		
Comments: 2002 - The roof was replaced during renovations (2002) by Kline Roofing 20-year John Mansville warranty 2015 – The roof on the expansion is a single membrane PVC fleece backed roof manufactured by Carlisle Roofing 2015 - The HVAC was completely updated and all through the wall units were removed and replaced with air handler units. Monitored and controlled by energy management system.			
Unique functions: Only Student non-academic space on campus			

HEGIS: (SC)		Square Footage:	
Classroom:		Net:	23,522
Lab:	565	Gross:	42,522
Office:	6,491	Efficiency:	.55
Study:	350		
Special Use:		Floors:	2
General Use:	14,598	Constructed:	1966
Support:	1,518	Renovated:	2002, 2015
Other Org:			

FUNCTIONS: In 2015 a two story expansion was added to the existing building that houses Hawk Café, Hilltop Grill, expanded dining, Campus Store and Student Government Association. The existing building was renovated during at the same time and Academic Advising was relocated to the building. Also located in the building is the Dean of Student Affairs. The building now has a connector bridge to the LRC. In the expansion there is a basement that houses the air handler units and several storage areas.

DEFICIENCIES: None.

IMPROVEMENTS: In 2015 the building was complete renovated and an 29,229 GSF addition added.

ADA: The building is ADA compliant.

TEN YEAR CIP: The College will be installing a new roof over the original building in the Spring of 2023 with the Facilities Renewal Grant. Section 6, Priority #8.

Building – Student Center

VEHICLE MAINTENANCE GARAGE

Year Built	1978		Comments
GSF	852		Electric heater installed 2010 Installed new lighting 2013 Air Conditioning Installed 2014
Roof	Original - metal		
HVAC	Propane		
Renovations	None		
Unique functions: Vehicle lift, vehicle repair equipment, fuel pumps adjacent to building			

HEGIS: (GAR)		Square Footage:	
Classroom:		Net:	852
Lab:		Gross:	852
Office:		Efficiency:	1.0
Study:			
Special Use:		Floors:	1
General Use:		.0	
Support:	852	Constructed:	1978
Other Org:			

FUNCTIONS: The facility has two repair bays.

DEFICIENCIES: The building, which is just a metal shell, is too small. There is no storage area and no pit. There is barely enough space to work around vehicles inside the garage, particularly maintenance trucks. The pumps located adjacent need to be updated with a tracking device to maintain accurate records.

ADA: The building is compliant.

IMPROVEMENTS: A lift was added in the right side bay. In 2010 we installed new rollup doors, new lighting and painted the outside of the building.

A new roof was installed on the small storage area adjacent to the Garage in 2011.

Electric heat replaced the propane heater. A/C was installed with an existing unit from one of the buildings recently renovated.

TEN YEAR CIP: N/A

Campus Outdoor Athletic Facilities

Outdoor athletic facilities include six tennis courts, one baseball field, a softball field, and an eight lane all-weather track and infield (for soccer). The tennis courts were patched in 2006 through Project Open Space (POS) funding and lighting was added in 2007. The surface of the Tennis Courts is showing signs of deterioration and in need of resurfacing. The second entrance widening project will reduce the number of current tennis courts and some will be relocated. The athletic fields, constructed in 1974, have had some upgrades. The softball field also received new a scoreboard in 2008, and the outdoor track was resurfaced in the spring 2009. Baseball field received a new scoreboard in fall 2009. A new electronic scoreboard was installed in 2013 at the track infield, which is used for soccer. The softball dugout roof was raised and pitched when rebuilt in 2014-15. The Soccer field as part of POS funds received new sod, arrogation, drainage and new bleachers in 2017.

TENNIS COURTS

TRACK AND SOCCER FIELD

SOFTBALL FIELD

BASEBALL FIELD

IV. PLAN TO MEET IDENTIFIED NEEDS

Planning Strategy

One of the major goals of the College is to establish through the Facilities Master Plan a program that satisfies student and instructional needs and demands over the next decade. For the plan to be successful, the campus must be appealing and readily accessible to everyone in the service area. The previous sections of this document clearly demonstrate the broad spectrum of programs now offered by the College in response to community needs.

Technological advancements necessitate additional program and course development, and campus buildings must have the capability to allow interaction through technology and telecommunications. The College continues to expand its technology base to meet the needs and requirements of diverse learners and teaching methodologies. HCC's library facilities provides through a renovation project convenient and ready access to learning resources, such as computers, software, the internet, and a broad range of web-based services and databases. All of this requires access to software, the hardware to support the material, and a strong campus infrastructure that is equipped for state-of-the-art telecommunications.

Through facilities planning, HCC has been able to consistently provide opportunities for social interactions in a community setting, which traditionally include formal academic interactions in classrooms, labs, the library and study areas. Informal social interactions typically occur at the expanded Student Center, sporting events, theater performances, eateries, and impromptu gatherings. The College has increased its commitment to providing informal settings to encourage student participation in on-campus activities as well. Some of these efforts include Waltersdorf Quad, the gazebo outside of the Administration Student Affairs Building, the outdoor plaza at the Career Programs Building, landscape wall seating at the entrances to buildings, outdoor eating patios, picnic tables in grassy areas around the campus, and other areas to encourage interaction.

Overall, the buildings on campus are well maintained and suitable for their current function with the exceptions of the deficiencies cited in Section 3 and/or the following Infrastructure and Telecommunications reviews. The sequence of projects in Section 6 presents a logical solution for solving the most pressing needs.

Infrastructure

HVAC

Most buildings on campus are on the central heating and chilled water loop, with the exception of the Robinwood Center, the ARCC, ETTC and the Amphitheater. Buildings not on the loop are typically added as renovations take place. Through the years, HCC has upgraded its Central Plant to keep up with campus demand. For example, as part of the Performing and Visual Arts Education Center (PVAEC), two small chillers were removed in 2011 and a new 650 ton McQuay chiller was installed in the Central Plant. On the heating side, humidity issues existed throughout campus, HCC addressed this problem by removing the original boiler that was no longer operable and replaced it with five small high condensing boilers that can take care of different areas of campus being more energy efficient by not running the large boilers all year long. The Central Plant upgrade and expansion project in FY16 improve campus cooling. In 2023 we replaced the large McQuay boiler with 2 smaller energy efficient Fulton boilers. The College is also installing the latest BAS controllers in each building so that the Energy Management System (EMS) can also monitor HVAC and utilities

Utilities

Sewage, water, and electric utilities are sufficient to satisfy projects proposed within the City of Hagerstown's planning cycle. Three other utility issues are currently being addressed by the College: shut off valves, electric and water metering of each building, and monitoring water leaks around the campus. With increased projects and construction, HCC Facilities Department needs to ensure that each building has a separate accessible and properly functioning water shut off valve.

To address concern of rising energy costs, electric usage meters are being installed across campus to monitor excessive electrical use power. This also allows HCC to demonstrate its desire to be more energy efficient with our buildings. Table 6 shows the last five years of utility consumption on the main campus of the College. The College is also working a solar project (project is listed in Section 6, Priority 3), that will help generate approximately 1.6mw to help lower the rising costs of electric. In addition to the solar HCC is in the process of changing all of its lighting to LED.

Table 6

Utility Consumption on Main Campus, FY17 – FY22

Utilities	FY17	FY18	FY19	FY20	FY21	FY22
Electricity (kWh)	9,228,843	9,576,129	8,316,376	7,921,637	7,733,054	8,475,724
Water/Sewer (gallons)	5,941,500	4,074,000	3,804,000	3,342,000	3,606,000	3,361,000
Natural Gas (McF)	26,460	29,204	31,544	28,920	28,082	30,901

Access and Interior Roads

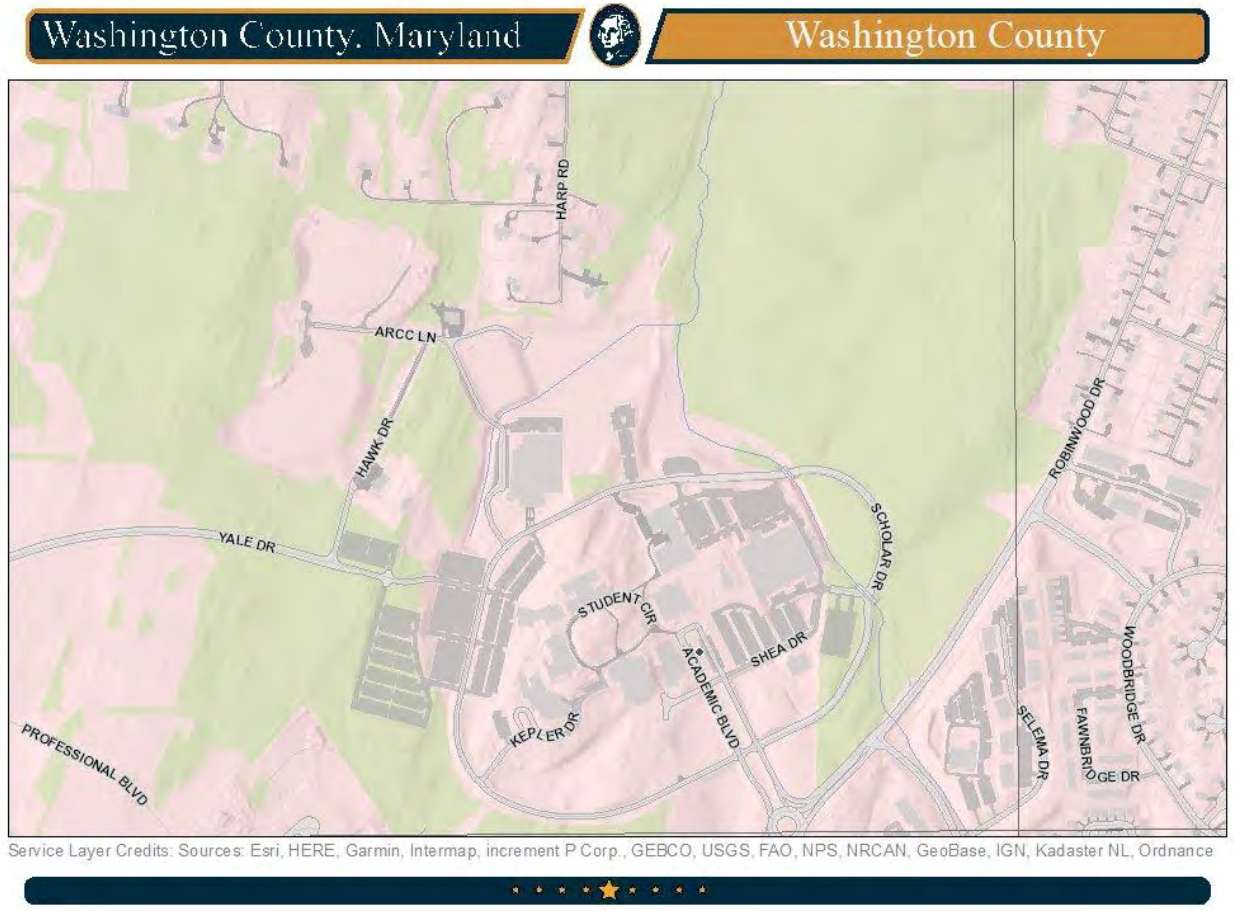
Scholar Drive extends from Academic Boulevard, behind the Robinwood Center and the Career Programs Building to the rear of the campus, thereby creating a loop road around the campus to enhance traffic and pedestrian safety by lessening traffic flow on the interior roads. The extension of Academic Boulevard allowed the College to eliminate through traffic in the interior of the campus, making it more pedestrian friendly and safe.

As discussed earlier, the County completed the College's second entrance on the northwest side of the campus, which connects the County's Yale Drive to HCC's Hawk Drive. Eventually, Yale Drive will connect to Professional Court, which is off of Eastern Boulevard in Hagerstown. This will provide easier access to campus for those traveling from the northwestern areas of Hagerstown and Washington County, the northern I-81 corridor in Maryland and Pennsylvania.

As part of safety for pedestrians Scholar Drive will be relocated as discussed above. This will allow for our pedestrians to stay away from the main traffic flow and will keep our pedestrians safer as they access their buildings. This project is listed in Section 6, Priority 2.

The continued growth along the Eastern Boulevard corridor of Hagerstown has created a demand for improvement of the roads in that area as well. HCC has been in discussion with Washington County to include plans that include an additional access point for the College off of Eastern Boulevard. See the map on the following page for locations.

Map 8
Named Campus Roads



Sidewalks and Pedestrian Access

The pedestrian walkway system will continue to be developed. The needs include sidewalks along perimeter roadways where none exist now, more gradual grades, clearly marked ramps at crosswalks, and textured pavement at crosswalks. Existing sidewalks will need repair and in some cases will be rerouted as projects are completed and the layout of the campus changes. When second entrance widening being planned on campus sidewalks and pedestrian flow will continue to be addressed.

Bicycle Access Plan

In compliance with State law to address bicycle and pedestrian circulation on and around the HCC campus, the College is planning improvements in bicycle infrastructure. Additionally, the College will research and assess needs in these areas, including routes selected for the recommended bicycle transportation and pedestrian network. Recommended routes will be identified to facilitate bicycle access to the campus core and other major facilities. Improvements will be recommended that will benefit the greatest number of people. Where direct, convenient and logical connections require using roads that are poor for bicycles today; appropriate upgrades are recommended to create better bicycling conditions in the future. Solutions may include bicycle lanes and shared-lane markings.

Parking Strategies

Campus parking requirements are regularly evaluated to determine the needs of the students and employees. Parking lots are used for a number of purposes. Lots A, B, C, and D were constructed adjacent to the Scholar Drive extension, south east of the CP Building, as part of the loop road project. The lots provide additional parking on the east side of campus. Lots E, F and G and H were modified and resurfaced as part of the Career Programs Building Renovation site work, adding spaces (Table 9).

Aside from daily parking requirements, parking lots are used for special events in the Theater and ARCC. When K and L lots reached maximum capacity, two new lots (N and O) were constructed in 2010 to give an additional 456 spaces to lower the deficit and the loss of parking due to the construction of STEM and Kepler Theater. The O lot gave the College the much needed handicapped

accessible needed for the Amphitheater. Both N and O are strategically placed on campus to provide parking for the Amphitheater, the planned Smart House, and overflow for large crowds at the ARCC.

In 2018 Parking Lot P was completed in front of the expanded Student Center. It gives the mobility impaired access to enter and exit from this building with having to take the long circuitous route that consisted of elevation changes and two elevators to access the building easily.

At this point some of the campus roadways and parking lots need to be milled and resurfaced due to deterioration from age and use. The College will develop and institute a long range site improvement plan to correct current deficiencies and meet future repair requirements.

Telecommunications

The campus telecommunication infrastructure is operating at capacity and will require upgrading and expansion. New voice, data, and video connections and associated wiring are being included in the planning and design of all renovations and new construction. Telecommunication closets are being provided to house equipment racks, servers, and associated equipment. All campus buildings will be addressed in the same fashion to maintain the integrity of the system.

Environmental Initiatives

HCC strives to maintain up-to-date facilities, incorporating energy efficient equipment and construction techniques, and utilizing green design, construction and materials. A proposed State of Maryland mandate could require projects utilizing state funding to achieve LEED Silver Certification. LEED (Leadership in Energy and Environmental Design) assigns points in required categories. Building to LEED requirements costs more money in up-front construction costs, but the costs should be recouped over time through reduced operating costs. HCC is committed to protecting the environment, will continue to incorporate energy efficient and environmentally safe design into new construction and renovations, and will meet any State LEED requirements. Intrinsic to the success of this policy is the support and funding from both the State and County.

HCC has incorporated green roofs, gray water, solar lighting, wind turbines, daylight harvesting, and auto-shades. Geothermal wells were built as part of the STEM and Smart House/Energy Efficiency Training Center projects. Instructional components of wind power and solar panels will be added. HCC is currently working with solar companies to install parking lot canopies to generate electric on campus.

V. ANALYSIS OF CURRENT AND PROJECTED SPACE DEFICIENCIES: CCL TABLES

Analysis of current and projected space deficiencies were developed from the State's space planning guidelines for community colleges. Table 7 presents the overall College's facility needs relative to its current space needs (2021) and projected inventory (2031) for HCC and the State's allowances for each type of space. Table 8 summarizes the enrollment statistics used for the inventory.

Table 7
Computation of Space Needs for Hagerstown Community College,
Actual 2021 and Projected 2031
July 2022

HEGIS CODE	HEGIS CATEGORY	Need 2021	Inventory 2021	Surplus/ (Deficit)	Need 2031	Inventory 2031	Surplus/ (Deficit)
100 (110-115)	**CLASSROOM**	**30,597**	**43,617**	**13,020**	**37,625**	**49,921**	**12,296**
200	**LABORATORY**	**15,977**	**74,877**	**58,900**	**19,646**	**68,426**	**48,780**
210-15	Class Laboratory	9,723	69,717	59,994	11,956	63,266	51,310
220-25	Open Laboratory	6,254	5,160	(1,094)	7,690	5,160	(2,530)
250-55	*No Allowance*						
300	**OFFICE**	**56,736**	**61,614**	**4,878**	**69,352**	**66,466**	**(2,886)**
310-15	Office/ Conf. Room	55,236	61,614	6,378	67,686	66,466	(1,220)
320-25	Testing/Tutoring	1,500	0	(1,500)	1,666	0	(1,666)
350-55	*Included w/ 310*						
400	**STUDY**	**13,572**	**14,263**	**691**	**17,132**	**14,263**	**(2,869)**
410-15	Study	9,306	13,489	4,183	11,444	13,489	2,045
420-30	Stack/Study	3,047	296	(2,751)	4,063	296	(3,767)
440-55	Processing/Service	1,219	478	(741)	1,625	478	(1,147)
500	**SPECIAL USE**	**36,600**	**46,433**	**9,833**	**40,175**	**46,433**	**6,258**
520-23	Athletic	34,000	46,005	12,005	37,310	46,005	8,695
530-35	Media Production	1,600	428	(1,172)	1,865	428	(1,437)
580-85	Greenhouse	1,000	0	(1,000)	1,000	0	(1,000)
600	**GENERAL USE**	**33,086**	**40,681**	**7,595**	**36,825**	**42,681**	**5,856**
610-15	Assembly	12,000	11,961	(39)	12,662	11,961	(701)
620-25	Exhibition	1,500	1,366	(134)	1,666	1,366	(300)
630-35	Food Facility	9,262	15,434	6,172	11,383	15,434	4,051
640-45	*No Allowance*						
650-55	Lounge	2,724	2,638	(86)	3,348	2,638	(710)
660-65	Merchandising	1,600	2,870	1,270	1,766	2,870	1,104
670-75	*No Allowance*						
680-85	Meeting Room	6,000	6,412	412	6,000	8,412	2,412
700	**SUPPORT**	**14,398**	**23,418**	**9,020**	**15,795**	**23,140**	**7,345**
710-15	Data Processing	2,500	2,183	(317)	2,500	2,044	(456)
720-25	Shop/ Storage	7,743	12,527	4,784	9,113	12,388	3,275

730-35	*Included w/ 720*						
740-45	*Included w/ 720*						
750-55	Central Service	4,000	8,708	4,708	4,000	8,708	4,708
760-65	Hazmat Storage	155	0	(155)	182	0	(182)
800	**HEALTH CARE**	**500**	**0**	**(500)**	**566**	**0**	**(566)**
900	***No Allowance***						
050-090	***No Allowance***						
	Total NASF:	**201,466**	**304,903**	**103,437**	**237,116**	**311,330**	**74,214**

Table 8
Enrollment Statistics for Computation of Space Needs
Actual 2021 and Projected 2031
July 1, 2022

Enrollment Statistics	Fall 2021 (based on S-6)	Fall 2031 (MHEC)
FTDE-Credit	1,409	1,839
WSCH-Lecture: Credit Total	20,393	25,083
WSCH-Lab: Credit Total	1,389	1,708
FTE Students	2,047	3,063
Bound Volume Equivalents	30,470	40,630
FT Faculty	73	90
FT Librarian	3	4
PT Faculty	162	199
FTE Faculty	117	144
FT Staff	209	257
Planning Head Count	908	1,116
Student Headcount	3,532	4,353

VI. SEQUENCING OF PROJECTS

The College is proposing the following sequencing for its CIP. The recommended sequencing is based upon an impact analysis, which considered institutional needs and priorities, projected enrollment, analysis of current facilities, and the County CIP program.

Priority 1:	NACC Renovation Project (FY22 – FY23)
Priority 2:	Second Entrance Drive Widening Project (FY23)
Priority 3:	Solar Project (FY23)
Priority 4:	Advanced Technology Center Renovation (FY24 – FY25)
Priority 5:	ASA Renovation (FY26 – FY27)
Priority 6:	Career Programs Roof Replacement (FY28 – FY29)
Priority 7:	ARCC Renovation (FY30 – FY31)
Renewal Grant:	Campus Roads and Parking Lot (South/East) Overlays Project (FY29 & FY31)
Renewal Grant:	Roof Replacements (FY25 & FY27)
Renewal Grant	Chiller Replacement Project (Within 10 Years)

Priority 1 **NACC Renovation Project**

FY 2022 – FY2023

Projected Cost **$ 14,000,000**

Project Description:

HCC recently purchased a new property on the north side of Hagerstown. The property known as NACC (Northern Avenue City College) will require extensive renovation of the building due to age and condition of the building. The proposed project will house the Commercial Vehicle Training (CVT), Forklift Training, Mechanical Trades, along with a partnership with ABC School and BARR Institute. Eventually the Valley Mall Campus will be relocated to the new property.

The building was an old gym that is currently large open spaces that allow for bigger pieces of equipment to be housed for the many programs, that our current buildings cannot handle. The building will be set up for labs, classrooms and offices. Updated HVAC, utilities and controls are part of the project. A driving range for our Trucks will be created.

The property will allow HCC to terminate their leases for the CVT program and also the Valley Mall where we are paying large rental fees.

Impact if not funded: The NACC received a federal grant as well as county funds to help offset the capital outlay from HCC. If the building does not get funded it will become an underutilized building that will remain largely unused if funding is not available. The College will be unable to offer additional classes in the mechanical trades, students will be forced to go to other institutions to fulfill their educational requirements causing declines in enrollments of these trades.

HCC will still be forced to pay high rents at our other locations such as the Valley Mall and the CVT driving range. HCC will also lose revenue of rent from ABC School and BARR Institute helping to offset expenses.

Operating Cost Impact: N/A
Staff expense: 150,000
Other Operating Costs: 100,000
Utilities - $200,000

Priority 2 **Second Entrance Drive Widening Project**

FY 2023

Projected Cost **$ 6,099,000**

Project Description:

The project includes relocating Scholar Drive on the North/West portion of campus away from pedestrians, new signage and sidewalks. When the campus's new second entrance off of Yale Drive was completed it connected HCC through existing parking lots that does not have sidewalks and was very narrow and intersects with Scholar Drive in front of the STEM Building causing bottlenecks for drivers and pedestrians.

The project will include a traffic circle once you enter campus off of Yale Drive on the west side of Campus, Scholar Drive will be relocated behind the L and O Parking Lots and connect to Scholar Drive across from Kepler Drive Entrance. On the North Side of the traffic circle will be located behind the Amphitheater and continue behind the ARCC joining up to Scholar Drive at H Parking Lot across from the CBES Building. By relocating Scholar Drive it will keep all pedestrian traffic within the core away from vehicles. This is especially helpful when we have large events at the ARCC or when classes are at their prime time since 54% of the campus parking is located in this area. See Map 9 for the new road configuration.

Also included in this project is new exterior signage for campus, the current signage is outdated and is hard to read when you arrive on campus causing confusion when trying to locate parking lots and buildings.

Impact if not Funded: If this project is not funded pedestrians will have to be careful when they are walking to their cars. Wrecks in this area will continue to happen due to poor sightlines and pedestrians having to walk in areas where there is no sidewalks or cross walks. Also, visitors will continue to have trouble navigating our campus with outdated signage.

Operating Cost Impact: N/A

Map 9
Second Entrance Widening Project

Priority 3 **Solar Project**

FY 2023

Project Cost **$4,500,000**

Project Description:

This project involves the installation of solar canopies in some of the parking lots around campus. There will be approximately three acres needed to reach the desired 1.6mw of power needed for the campus. The project aligns with Governor's initiative for renewable energy on college campuses in the state of Maryland. With the installation of the solar canopies this project will help lower the College's electrical costs.

Impact if not funded:

If the project is not funded HCC will continue to pay high electrical costs and lose the opportunity for grant money that is currently available through the state of Maryland.

Operating Cost Impact: N/A

Staff expense: N/A

Other Operating Costs:

Utilities - $-150,000

Priority 4 **Advanced Technology Center**

FY 2024 – FY 2025

Projected Cost **$ 7,113,500**

Project Description:

This renovation project of the 30,786 GSF Advanced Technology Center (ATC) will consist of renovating and configuring the building for use as offices, classrooms and labs. The project will include upgrades to the HVAC system; reconfiguring the classroom core on the first floor of the building for a more efficient layout and use; improving lighting and the classrooms and labs on the second floor of the building; and a general updating of the interior finishes. The bridge connecting the CBES Building also needs to be updated or removed. Security will also be improved with addition of the secure room access and security cameras. Technology will also be addressed and updated to meet the ever-changing needs in the classrooms.

Impact/Impact if not funded: The ATC will be the last academic building on the main campus to receive a major renovation. Without the renovation the building will continue to age and become outdated with the lack an efficient HVAC system and newer technology. The building's inefficient layout will also become a problem and will make teaching in this building less attractive.

Impact on Enrollment: Without relevant and up-to-date facilities and equipment, program enrollments will decline. HCC's long-established early college programs housed in the ATC, will provide opportunities for talented high school students to complete degree programs while still in high school. The programs administered in this facility help employees already in the workforce, as well as students, gain industry certifications and/or prepare for jobs in advanced manufacturing environments.

Operating Cost Impact:

Staff expense: None

Other Operating Costs: Greater efficiencies and cost savings will be realized when the building will be upgraded

Priority 5 **Administration and Student Affairs Building Renovation and Addition**

FY 2028 – FY 2029

Projected Cost **$ 5,875,000**

Project Description:

This renovation project of the 23,972 GSF Administration and Student Affairs Building (ASA) will consist of renovating and updating the building that house the President, Public Information, Finance, HR, Financial Aid, Registration and Records. The project will include upgrades to the HVAC system; replace roof, reconfiguring the building for a more efficient layout for students to move efficiently throughout the building, reconfigure and update offices, improve lighting and a general updating of the interior finishes. Technology will also be address and updated to meet ever changing needs. Included in this project will be an addition that will allow for expanded office space to accommodate additional Student Services Staff to make the building a one stop shop.

Impact/Impact if not funded: The ASA has not been renovated in over twenty-years. Without the renovation the building will continue to age and become outdated with the lack an efficient HVAC system, utilities, roof and newer technology. The building's inefficient layout will also become a problem as students try to find their way around the building. Currently some departments are not seating close by and it can be challenging working together.

Impact on Enrollment: The ASA building is one of the first buildings that students and visitors see when entering the campus. It can be sometimes difficult for visitors to navigate the building with the way it has been designed. More confidential office space is needed to meet the ever-changing needs of the College because of Finance and Finical Aide need to have private meeting spaces. This would allow for students to feel confident that their information is not being shared where others can hear. This becomes an issue for students enrolling and seeing advisors for the first time when they have to travel to different buildings they get frustrated and may decide it is not worth the effort and will not enroll.

Operating Cost Impact: N/A

Staff expense: None

Other Operating Costs: Greater efficiencies and cost savings will be realized when the building will be upgraded

Priority 6 **Career Programs Building Roof Replacement**

FY 2030 – FY 2031

Projected Cost **$ 1,562,101**

Project Description:

The project calls for the replacement of the 91,281 SF Career Programs Building (CPB) roof. The lower level roof was installed in 2001 and the upper level roof was installed 2003. The roof at the time of replacement will be out of warranty and reaching the end of its lifespan. The roof will be replaced with an Energy Star rated modified bitumen system also included with will be new flashing and gutters.

Impact if not Funded:

Without this project, HCC will continue to make costly repairs to the roof that has exceeded the 20 year lifespan and an expired warranty. Water damage to floors, ceilings, infrastructure, and equipment continues and the costs of repairs will continue to grow.

Operating Cost Impact: Money will be saved in the operating budget because expensive repairs will no longer be necessary.

Priority 7 **ARCC Renovation**

FY 2026 – FY 2027

Projected Cost **$ 15,050,000**

Project Description:

This renovation project of the 87,976 GSF Athletic, Recreation and Community Center (ARCC) will consist of renovating the existing indoor and outdoor facilities. The College has not had any upgrades to the outside fields and facilities since the 1970's. The outside renovations will consist of converting the baseball and softball fields to artificial turf, update the ancillary athletic support facilities that consists of a storage/restroom building, along with the baseball press box. The project will also update the soccer field to regulation dimensions, resurface the track, and relocate the tennis courts and add a few pickleball courts.

The indoor of the ARCC has been left mostly untouched and not upgraded since the building was built in 1988. The ARCC is the largest gathering spot in Washington County and can accommodate up to 5,230 individuals. Along with HCC's Athletic Department, the Washington County Recreational Commission has offices in the building and hosts many county events. Besides sports most of the county graduations are held in there along with large community functions.

The indoor renovations would consist of updating the arena with a new hardwood floor, a new running mondo for the indoor track and updating the bleachers for safety and bring them into regulation. Also included as part of the indoor upgrades the lobby needs refreshed along with the second-floor classrooms, aerobic and strength training labs, and offices.

Impact/Impact if not funded: The ARCC outdoor facilities and fields will continue to go mostly unused since they do not meet the standards and regulations for events. With our Second Entrance Widening Project part of the new road will be located next to all of these fields and will highlight the poor condition of them. Student Athletes will look at other Colleges where the fields and facilities are in better shape and enrollments of student athletes will continue to decline. Without the indoor renovations the condition of the floor and mondo will become unsafe and indoor sports may have to be limited. The bleachers since they are not

regulation for events will have to be removed or replaced limiting spectators for sports, graduations, and other events in the arena. Overall revenue will be reduced for events because of the lack of modern facilities.

Impact on Enrollment: Without relevant and up-to-date facilities and fields HCC will continue to lose student athletes to other local community college's that have more up-to-date sports. The programs administered in this facility help students to either move on to four-year schools to continue exceling in their sports.

Operating Cost Impact:
Staff expense: None
Other Operating Costs: Greater efficiencies and cost savings will be realized when the building will be upgraded

Priority 8 or Facilities Renewal Grant **Roof Replacements Projects (Student Center, Kepler Theater, Central Plant, Learning Support Center, Administration and Student Affairs Building)**

FY 2023 - FY27

Projected Cost $ 1,550,000

Project Description:

The College has several roof replacement projects that include Student Center, Kepler Theater facility, Learning Resource Center (LRC), Central Plant, Learning Support Center (LSC), Administration and Student Affairs Building (ASA). As part of the Facilities Renewal Grant Program the roofs will be replaced every two years by determining which roof is the poorest condition and/or is eligible for replacement. Most show signs of age and are beginning to have recurring problems, which HCC's Maintenance Department addresses as necessary. The roofs listed below will be older than twenty years old and their warranties will expire by the anticipated project year:

- Student Center (original building) – Built-up asphalt roof, last replaced in 2002 and is scheduled for replacement Spring 2023
- Kepler Theater (original building) – Built-up asphalt roof, last replaced in 2004 and is scheduled for replacement Spring 2023
- Central Plant - Modified bituminous membrane roof, last replaced in 2005
- Learning Support Center - Membrane roof, last replaced in 2005
- Administration and Student Affairs Building (ASA) – Built-up asphalt roof, last replaced in 2004

Impact if not Funded:

Without this project, HCC will continue to make costly repairs to roofs that exceed their lifespan of 20 years with expired warranties. Water damage to floors, ceilings, infrastructure, and equipment continues and the costs of repairs will continue to grow.

Operating Cost Impact: Money will be saved in the operating budget because expensive repairs will no longer be necessary.

Priority 9 or Campus Road and Parking Lot Overlays Project

Renewal Grant

FY29 and 2031

Projected Cost $ 2,000,000

Project Description:

This project is needed to repair years of damage to campus roads caused by traffic volume and heavy construction vehicles, along with normal wear usage and weather. Some of these areas will be thirty years old and have been patched and restriped. The roads included are on the North and East portion of campus. At the time of the project the Scholar Drive, Shea Drive, Academic Blvd, Student Circle and Kepler Drive. Some of these roads will require a fill rebuild. Parking lots that need to be resurfaced to fix cracks and potholes are lots A, B, C, D, L, and K.

Impact if not Funded:

This project is vital to the upkeep of the roads on campus as they continue to age and deteriorate. Repairing roadways and parking lots is costly and time consuming. If the project is not funded, the College may need to limit traffic on the east side of campus because the poor condition of the asphalt may jeopardize the tires, wheel alignments and undercarriages of vehicles. The new entrance on the east side of campus will add an influx of cars onto these parking lots and roads, thereby causing additional wear and damage. Student, employee and community dissatisfaction will occur as the poor condition of roads may cause vehicle damage.

Operating Cost Impact: N/A

Priority 10 or Chiller Replacement Project

Renewal Grant

Within the next 10 years

Projected Cost $ 500,000 - $1,500,000

Project Description:

This project is a chiller replacement project in the Central Plant. The project will include replacing the outdated equipment with new energy efficient chillers. Our oldest chiller was installed in 2011 and will be nearing the end of its lifespan within the next 10 years even with proper maintenance. The project will also include any needed updates that will be needed to the cooling towers.

Impact if not Funded:

This project is vital to maintain cooling of the buildings on campus. As the equipment is ages the repairs are becoming expensive or harder to get replacement parts. If the project is not funded the cooling capacity will not be there to maintain the buildings. HCC is planning on replacing the chillers as necessary using Renewal Grant funding.

Operating Cost Impact: Savings on energy efficient equipment

APPENDIX

APPENDIX A
Programs of Study
2022-2023 Catalog

AA Associate of Arts degree
AAS Associate of Applied Science degree
AAT Associate of Arts in Teaching degree
AS Associate of Science degree

Accounting
- Accounting and Business, A.A.S.

Administration of Justice
- Administration of Justice Concentration, Arts and Sciences, A.A.
- Administration of Justice, A.A.S.

Advanced Manufacturing Systems
- Advanced Manufacturing Systems, A.A.S.
- Industrial Technology, Certificate
- Welding and Fabrication, Letter of Recognition

Alternative Energy Technology
- Alternative Energy Technology, A.A.S.
- Solar Energy Installation and Service, Alternative Energy Technology, Certificate

Art
- Visual Arts Concentration, Arts and Sciences, A.A.

Arts and Sciences
- Arts and Sciences, A.A.
- Arts and Sciences, A.S.

Biology
- Biology Concentration, Arts and Sciences, A.S.

Biotechnology
- Biotechnology, A.A.S.
- Biotechnology, Certificate

Business
- Administrative Assistant, Certificate
- Administrative Assistant, Letter of Recognition
- Business Administration, A.S.
- Entrepreneurship, Certificate

Chemistry
- Chemistry Concentration, Arts and Sciences, A.S.

Computer Tomography Imaging
- Computer Tomography Imaging, Certificate

Cybersecurity
- Cybersecurity and Network Security, Certificate
- Cybersecurity, A.A.S.
- Cybersecurity, A.S.

Dance
- Dance Concentration, Arts and Sciences, A.A.

Dental Assisting
- Dental Assisting, Certificate

Dental Hygiene
- Dental Hygiene, A.A.S.

Education

- Childcare Professional, Certificate
- Childcare Professional, Letter of Recognition
- Early Childhood Education/Early Childhood Special Education, A.A.T.
- Early Childhood/Primary Grades Education, A.A.S.
- Education, A.S.
- Elementary/Special Education, A.A.T.
- Secondary Education-English, A.A.T.

Engineering Science
- Engineering Science, A.S.

Engineering Technology
- Computer-Aided Design Concentration, Mechanical Engineering Technology, A.A.S.
- Computer-Aided Design, Certificate
- Computer-Aided Design, Letter of Recognition
- Digital Instrumentation and Process Control, A.A.S.
- Electrical Engineering Technology, A.A.S.
- Electronics Technician, Certificate
- Mechanical Engineering Technology, A.A.S.
- Unmanned Aerial Systems (UAS) Technician, Certificate

English
- English Concentration, Arts and Sciences, A.A.

Environmental Studies
- Environmental Studies, A.S.

Exercise Science
- Community Health Concentration, Exercise Science and Health, A.S.
- Exercise Science and Health, A.S.
- Fitness Training, Letter of Recognition

General Studies
- General Studies, A.A.

Graphic Design
- Computer Graphic Artist, Graphic Design Technology, Letter of Recognition
- Graphic Design Concentration, Arts and Sciences, A.A.
- Graphic Design Technology, A.A.S.
- Graphic Design Technology, Certificate
- Graphic Production Specialist, Graphic Design Technology, Letter of Recognition

Health Information Management
- Electronic Health Records, Certificate
- Health Information Management, A.A.S.

History
- History Concentration, Arts and Sciences, A.A.

Human Services
- Human Services Concentration, Arts and Sciences, A.S.
- Human Services Technician, A.A.S.
- Human Services, Letter of Recognition

Information Systems Technology
- Computer Science, A.S.
- Computer Support Specialist Concentration, Information Systems Technology, A.A.S.
- Digital Forensics Concentration, Information Systems Technology, A.A.S.
- Interactive Design and Game Development Concentration, Information Systems Technology, A.A.S.
- Network Administration Concentration, Information Systems Technology, A.A.S.
- Network Administration, Certificate

Languages
- Foreign Language Concentration, Arts and Sciences, A.A.

Magnetic Resonance Imaging
- Magnetic Resonance Imaging, Certificate

Mammography
- Mammography, Letter of Recognition

Management
- Management, A.A.S.
- Management, Certificate
- Management, Letter of Recognition

Marketing
- Marketing Concentration, Management, A.A.S.
- Marketing, Certificate
- Marketing, Letter of Recognition

Mathematics
- Mathematics Concentration, Arts and Sciences, A.S.

Medical Laboratory Technician
- Medical Laboratory Technician, A.A.S.

Music
- Commercial Music, Certificate
- Music Concentration, Arts and Sciences, A.A.

Nursing
- LPN to RN Transition Program
- Military Medic/Corpsman to RN Transition Program
- Nursing (Practical Nursing), Certificate
- Nursing (Registered Nurse), A.S.
- Paramedic to RN Transition Program

Paralegal Studies
- Paralegal Studies Concentration, Arts and Sciences, A.A.
- Paralegal Studies, Certificate

Physics
- Physics Concentration, Arts and Sciences, A.S.

Political Science
- Political Science Concentration, Arts and Sciences, A.A.

Psychology
- Psychology Concentration, Arts and Sciences, A.A.

Radiography
- Radiography, A.A.S.

Sociology
- Sociology Concentration, Arts and Sciences, A.A.

Substance Abuse Counseling
- Substance Abuse Counseling, A.A.S.
- Substance Abuse Counseling, Certificate

Technical Studies
- Technical Studies, A.A.S.

Theater
- Theater Concentration, Arts and Sciences, A.A.

Transportation
- Commercial Transportation Administration, A.A.S.
- Commercial Transportation Management, Certificate
- Commercial Vehicle Transportation Specialist, Certificate

Web Design and Development

- Web and Multimedia Technology, A.A.S.
- Web Site Development, Web and Multimedia Technology, Letter of Recognition
- Web/Multimedia Development, Certificate