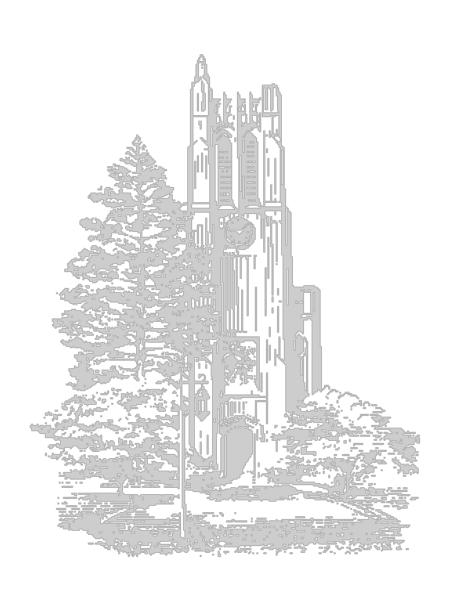
# Fiscal Year 2022 Budget Information 5-Year Capital Plan



Submitted by:



## MICHIGAN STATE

October 30, 2020

Mr. Chris Kolb State Budget Director State Budget Office State of Michigan Lansing, Michigan 48909

Dear Mr. Kolb,

In accordance with the State Budget Office instructions, an update of Michigan State University's Five-Year Capital Plan is posted at the following institutional website: <a href="https://opb.msu.edu/info-insight.html">https://opb.msu.edu/info-insight.html</a>. The Five-Year Capital Planning document follows from your instructions and the academic direction of the university.

In as much as the State of Michigan and Michigan State University have and continue to face hardships created by the pandemic, the SFY2022 Five-Year Capital Plan is primarily a continuation of the SFY2021 submission with a few exceptions including a Multicultural Center and renovations for the African American and African Studies Department. The Greenhouses – Renovation of Existing and Addition – Research Expansion and Learning continue as a high priority.

The university's Five-Year Capital Plan brings forward projects that support programs with strong national reputations, expanding research bases, and high enrollment demand that will advance the university and sustain its contributions to Michigan. Emphasis is placed on renovation and addition of facilities that focus on supporting current and future programmatic initiatives with an emphasis in science, technology, engineering and mathematics, including biomedical, biological and engineering sciences; computation and data sciences; water and energy; and advancing our commitment to diversity, equity and inclusion.

Since my arrival at MSU just over a year ago the university has filled a number of key leadership positions including the Provost and Executive Vice President for Academic Affairs, the Executive Vice President for Administration, the Vice President and Chief Diversity Officer, a newly created position, as well as an upcoming national search for a Senior Vice President and Chief Financial Officer. In addition to filling these leadership positions the university is and will be embarking on a number of university strategic planning efforts that will create the framework, guiding principles and strategies for the next 5-10 plus years. These strategic planning efforts include a new MSU Strategic Plan, a Diversity, Equity, and Inclusion Plan, Relationship Violence and Sexual Misconduct Plan , and a new Academic Plan. These strategic plans will provide the foundation and framework for the development of an updated MSU Comprehensive Land Use and Capital Plan.

Lastly, the STEM Teaching and Learning Facility that was authorized as part of Public Act 207 of 2018, is on schedule for completion Spring 2021. The building has many compelling stories from intentional curricular planning and re-envisioning the student experience for STEM gateway courses, to the transformation of a former power plant and the use of mass timber construction that reflects our commitment to sustainability. The project reflects innovation both programmatically, and in its design and construction. We sincerely appreciate the state's partnership with this project and look forward to its opening next year.

We remain committed to Michigan businesses, students, and families, and continue to be a critical partner in advancing Michigan's economic development.

Sincerely,

Samuel L. Stanley Jr., M.D. President

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C: Provost and Executive Vice President for Academic Affairs Teresa K. Woodruff, Executive Vice President for Health Sciences Norm Beauchamp, Executive Vice President for Administration and Chief Information Officer Melissa Woo, and Senior Vice President for Government Relations Kathleen M. Wilbur



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# Fiscal Year 2022 Budget Information Michigan State University Five-year Capital Plan

#### **Preface**

The Capital Planning Framework and the Campus Land Use Master Plan guide Michigan State University's capital planning. The Capital Planning Framework integrates academic, support, human resources, fiscal, and facility infrastructure planning and informs the Campus Land Use Master Plan. This Plan provides a flexible framework for guiding the physical organization of the MSU campus, and includes overarching campus planning principles, specific system recommendations, the University Zoning Ordinance; and works in concert with other planning frameworks such as utilities and infrastructure, energy conservation, and mobility. Institutional participation in the planning process ensures consideration is given to relevant issues and that decisions reflect the fundamental mission and direction of the university.

The planning process includes near to long-term strategy development to ensure the university has the space and facility resources necessary to carry out its mission. This is accomplished within the context of continuing to identify ways to best utilize our resources of people, dollars, and space. Strategy development takes into consideration internal and external challenges and opportunities, the capacity to be flexible and nimble allowing for responsiveness to new opportunities, and the dynamic and evolving nature of higher education.

The following Capital Planning Principles are guided by the Core Values of the university: Quality, Inclusiveness, and Connectivity and the six imperatives of the Bolder by Design strategic framework: Enhance the Student Experience; Enrich Community, Economic, and Family Life; Expand International Reach; Increase Research Opportunities; Strengthen Stewardship; and Advance our Culture of High Performance.

#### **Guiding Principles and Overarching Goals**

Create an Environment that Supports Research, Innovation, and Scholarship –
MSU continues to ensure that research programs grow, providing an impetus for
economic development and graduate education while creating a culture of
innovation and creativity that advances the University's international
competitiveness. Intention-based research is central to MSU's mission. Thus,
MSU must provide state-of-the-art facilities and infrastructure that will help attract
and retain top-quality faculty and researchers and provide the necessary tools to
continue to be competitive now and well into the future.

- Create an Environment that Supports Teaching, Learning and Student Success

   MSU is committed to providing world-class opportunities for success and to making those opportunities available to a broad spectrum of talented students from across Michigan and around the world. MSU provides increasingly diverse learning experiences that blend the theoretical with the practical. The educational experience is focused on preparing "T-shaped" graduates who are prepared not just for their first job, but for a lifelong career. The approach to teaching has become more interactive across all disciplines. There is active promotion and use of technology-enabled teaching/learning models as well as an initiative to provide facilities that support evolving pedagogies including student-centered and collaborative learning.
- Create an Environment that Supports Safety, Security, and Health and Wellness

   MSU will advance its commitment to fostering a healthier, more diverse and inclusive community by developing and sustaining a campus environment that encourages and cultivates health, wellness, and resilience among its students, staff, and faculty.
- Create an Environment that Supports Stewardship, Sustainability, and a High Performing Culture – New construction and renovation of existing facilities are planned so a project's financial investment actively reflects the life cycle of the facility in relation to the needs of the program, while providing flexibility in the structure to accommodate potential changes over time. Emphasis is placed on strategic allocation of space to meet program objectives, inclusive design, accessibility, integration of technology, and energy conservation. Attention is given to creating places that are welcoming, inspiring, promote the exchange of ideas, and enhance the Spartan Experience.

#### I. Mission Statement

For more than 160 years, Michigan State University has been advancing knowledge and transforming lives through high-impact, innovative teaching, research, and outreach initiatives. Today, as it continues to help students become responsible, knowledgeable, and productive citizens, MSU is a major public research university with global reach and extraordinary impact.

We are an inclusive, academic community known for our traditionally strong academic disciplines and professional programs and our liberal arts foundation. Our cross- and interdisciplinary enterprises connect the sciences, humanities, and professions in practical, sustainable, and innovative ways to address society's rapidly changing needs.

As a public, research-intensive, land-grant university, funded in part by the State of Michigan, our mission is to advance knowledge and transform lives by:

 providing outstanding undergraduate, graduate, and professional education to promising, qualified students in order to prepare them to contribute fully to society as globally engaged citizen leaders

- conducting research of the highest caliber that seeks to answer questions and create solutions in order to expand human understanding and make a positive difference, both locally and globally
- advancing outreach, engagement, and economic development activities that are innovative, research-driven, and lead to a better quality of life for individuals and communities, at home and around the world.

Since the mid-1960's, MSU has been recognized as a top academic institution and is a member of the prestigious Association of American Universities, consisting of a group of elite research universities in the United States and Canada. MSU is one of only 17 public land-grant universities with membership in the Association of American Universities. MSU's success is further evidenced by its consistent inclusion among the top 100 universities in the world, and in its acclaimed programs - with 34 featured in the top 25 nationally, including ten rated number one.

In 2005, at the launch of our 150<sup>th</sup> Anniversary, we made a commitment to be recognized worldwide as the leading land-grant research university in the nation. This commitment was framed in our Boldness by Design strategy. Beginning in 2012, we refined and expanded this framework to refresh our strategic vision, now articulated as Bolder by Design. At the heart of Bolder by Design are the original five imperatives of Boldness by Design, plus a sixth one that reflects the urgency and acceleration demanded by today's higher education environment to maintain a culture of high performance. This sixth imperative applies to every area of our mission providing high-impact, high-value results, experiences, and services. Together, we will focus and excel in:

- Enhancing the student experience
- Enriching community, economic, and family life
- · Expanding international reach
- Increasing research opportunities
- Strengthening stewardship
- Advancing our culture of high performance

In addition, we continuously re-affirm our commitment to the land-grant movement through: **access** to a quality post-secondary education; **inclusion**, not only of diverse populations, but of practical, applied knowledge with the classics throughout the curriculum; and **connectivity** with society to disseminate knowledge widely to meet the needs of individuals, communities and the world at large.

MSU's full impact is often immeasurable but can be quantified in one sense with an annual economic impact of more than \$5.8 billion. That economic impact was recognized by a study released this year by Business Leaders for Michigan. The study concludes that the specific entrepreneurship and development work being done at Michigan's University Research Corridor (URC) institutions, including Michigan State University, will be essential to Michigan's emergence from this year's pandemic-induced recession. The study analyzed achievements of the major research universities in three key areas: talent, innovation, and location to determine that Michigan's URC institutions

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<sup>&</sup>lt;sup>1</sup> See https://trustees.msu.edu/about/mission.html

deliver powerful economic assets that will be key during this time of unprecedented change and opportunity.

MSU continues to ensure that research programs grow, providing an impetus for economic development while creating a culture of innovation and creativity that maintains the University's international competitiveness. MSU is a leader in creating knowledge for the 21st century, routinely receiving in excess of \$600 million in sponsored awards annually, focused in areas such as food systems; plant sciences; health sciences; computational sciences emphasizing biology and food/food-chain; and population and the environment, including food, water, and energy. In addition, MSU's research expenditures have trended upward for over a decade. According to the National Science Foundation Higher Education Research and Development data, MSU's research expenditures for 2018 were \$715 million, rising from \$695 million in 2017. To enhance these efforts and maintain its position as a world-class research university, in 2014 MSU committed to hiring approximately 100 additional faculty members over the five-year period with 85 hired to date. These faculty are being hired in some of the highest demand disciplines and research areas to help accelerate finding solutions to the world's "Grand Challenges" in areas including: computation (aka "Big Data"), advanced engineering, cybersecurity, genomics, plant sciences, antibiotic resistance, and precision medicine.

Our value proposition is to make high-quality education accessible to qualified students. ensuring access and investing in Michigan's future. This fall, MSU enrolled 30,799 instate resident undergraduate students. At the same time, MSU draws students from all over the state, country, and world. This year, MSU enrolled individuals from all 83 counties in Michigan, all 50 states in the United States, and 120 countries. ongoing effort to uphold its commitment to access, MSU has established strong and substantial financial aid programs to assure student access to high-quality MSU programs. MSU routinely enrolls in excess of 8,500 Pell Grant recipients, representing 22 percent of the undergraduate population, while at the same time keeping both the average debt amount and the proportion of students graduating with debt below state and national averages. MSU administers in excess of \$700 million in financial aid annually, with more than 65 percent of freshmen receiving some form of aid. Budgetary increases to financial aid routinely outpace increases to tuition as MSU carefully monitors family income distribution, financial aid distribution, debt measures, and other financial aid metrics. Despite financial challenges for the university this year, MSU increased student financial aid by four percent this year.

MSU is committed to creating a national model for student success with particular emphasis on closing the opportunity gaps for lower-income, first-generation, and underrepresented minority student populations.

Additionally, we remain focused on helping students reduce the time to and cost of their degree. The Go Green Go 15 initiative is one way we are tackling these challenges, seeking to create higher rates of credit momentum (i.e., enrolling in 15 credits per semester) among our students that strongly correlates to higher levels of student academic success. The percent of first-semester students attempting 15 or more credits increased from 28% to more than 50% since the launch of the campaign. This initiative is simply the latest in a comprehensive set of projects under the university's Student

Success Collaborative focused on delivering high quality educational experiences for all students. To reinforce the momentum of our programs and our students' success, the university implemented it's first-ever two-year budget for academic years 2018-19 and 2019-20. This two-year budget included a tuition freeze for all resident undergraduates. In Spring 2020, it was announced that the tuition freeze would continue for a third year (FY 2020-2021). MSU has also adopted a flat-rate tuition structure beginning with the 2019-20 academic year, a structure that incentivizes students to complete their degrees in four years and, thereby, keeping expenses as low as possible.

MSU provides diverse learning experiences that blend the theoretical with the practical, combines curricular and co-curricular experiences, and instills an entrepreneurial mindset in its students. Student learning experiences include study abroad, hands-on research engagement, service learning, internships, co-ops, field placement, student teaching, and clinical placement during their degree program. All complement a variety of classroom experiences to provide rich learning opportunities. The entrepreneurial ethos fits hand-in-glove with our progressive pedagogy and approach to developing "citizen scholars" and students who are prepared for real-world careers demanding both technical and disciplinary expertise along with connective soft skills. Curricular and co-curricular experiences aim to help students develop both deep knowledge within a specific content area as well as a broad set of skills across content areas focused on critical thinking, analytical reasoning, and communication.

To ensure MSU remains at the forefront of innovation, the Hub for Innovation in Learning and Technology (The Hub), launched in 2015, creates and accelerates new ways to collaborate, learn, research, and deliver instruction. Ongoing projects include launching a cohort-based, interdisciplinary learning experience for first year students, linking math, arts and humanities, social science, and biological courses in a themed sequence to create a common intellectual experience for students; development of quantitative literacy courses; moving to a proactive student advising environment; and the launch of a Learning Analytics Group to use quantitative and qualitative methods to examine MSU's policies, practices and norms that may undermine student success. Additionally, MSU continues to enhance its offerings to students interested in entrepreneurship. In 2019, MSU launched the Burgess Institute for Entrepreneurship & Innovation, a more streamlined and holistic resource for students to provide them with tools through training, coursework, experiential programs and direct mentorship and coaching, and in 2020 the Institute launched its' Entrepreneur-in-Residence Program. MSU's position as an entrepreneurship and innovation hub earned global accolades by the 2018 Global Consortium of Entrepreneurship Centers, earning its prize for Outstanding Contributions to Venture Creation, surpassing nationally recognized entrepreneurship centers.

Our collective efforts aimed at enhancing the student experience has resulted in MSU's graduation increasing to a record high of 81% in 2019. Additionally, more than 90% of MSU graduates are employed or continuing their education within nine months of graduation. Further, MSU's efforts have been recognized nationally. MSU is ranked 55th by Money Magazine based upon the combination of educational quality, affordability, and alumni success, placing us 6<sup>th</sup> among Big Ten Universities and ahead of such institutions as Cornell, Columbia, Dartmouth, and Georgetown.

MSU fulfills the mission of the Morrill Act in the 21<sup>st</sup> century by taking the best of Michigan to the world and bringing the best of the world to Michigan. Thinking globally has always been a priority at MSU. MSU is recognized as a top 100 global university, helping MSU recruit top students and faculty from around the world, generate revenue and funding from international and internationally focused donors, and position MSU as a leader on the world stage. MSU ranks twelfth in the nation for study abroad participation and ranks twentieth in the country for international student enrollment. MSU's international student population contributes more than \$340 million to the Greater Lansing economy. More than 1,400 faculty members are involved in international research, teaching, and service projects and programs, and MSU maintains partnerships with more than 325 international institutions in 80 countries. We continue to expand our reach around the globe through:

- The Alliance for African Partnership is developing a collaborative and cross-disciplinary platform for addressing today's global challenges. The Alliance is developing new models of engagement for shared research while enhancing the resources and capacities of African universities, institutions, and scholars. Formally launched in May 2016, this alliance builds off MSU's longstanding work in Africa and will serve as a model for Africa-led partnerships, cross-disciplinary research, and applying science and the humanities to development challenges.
- The Global Youth Advancement Network (GYAN) is a coordinating platform for research and engagement activities related to the education, mentorship, and leadership training of young people around the world. GYAN's three core objectives are convening youth around the world for thought leadership, capacitating youth-serving institutions, and content/knowledge development through action-oriented research. GYAN connects faculty at MSU with faculty in partner countries to engage in collaborative research and program development related to youth employment and entrepreneurship.
- MSU plays a leading role in the federal government's Feed the Future initiative to help fight global hunger and poverty and create sustainable and safe agricultural opportunities in developing countries. A few examples of MSU's work in this area include a \$10 million grant from the U.S. Agency for International Development (USAID) to lead the Feed the Future Innovation Lab for Food Security Policy through 2020. This is a partnership with the International Food Policy Research Institute in Washington, D.C. and South Africa's University of Pretoria; a \$16.3 million federal grant from the Borlaug Higher Education Agricultural Research and Development program to train a new generation of agricultural scientists in developing countries; and a \$13.6 million research and capacity building program funded by USAID grant that focuses on grain legumes.
- An interdisciplinary team of MSU faculty and staff is working to foster environmental justice in Southeast Asia. The Henry Luce Foundation's Initiative on Southeast Asia, or LuceSEA, is providing \$1 million in funding to help create the Mekong Culture WELL (water, ecology, land, and livelihoods) project. The partnership with the LUCE foundation helps MSU expand work that is critical to forging sustainable futures in Southeast Asia and beyond. The project will

advance educational initiatives through assistantships and internships abroad, workshops, interdisciplinary training, and expanded Southeast Asia-focused courses.

Michigan State University is committed to providing world-class opportunities for success and to making those opportunities available to a broad spectrum of talented students from across Michigan and around the world. The institution manages its resources effectively to ensure it continues to provide an education that allows graduates to take on leadership roles in the 21st century and be a successful "citizen scholar."

#### II. Instructional Program and Structural Needs

As one of 65 members of the prestigious Association of American Universities in the U.S. and Canada, a Carnegie Research University (highest research activity) institution, and Michigan's land-grant university, Michigan State is dedicated to reflecting its mission in its instructional offerings.

The continuing high quality of MSU's educational offerings has led to a steady increase in demand from students in Michigan and around the world. Indicators of this increased demand include:

- MSU received 45,426 first time undergraduate applications this year, exceeding last year's 44,321 during the initial use of the Common App. MSU's total enrollment for fall 2020 is 49,695, down -1.7% from last year, faring better than the national average -3.0% decline among post-secondary institutions as reported by The National Student Clearinghouse Research Center.
- Median high school grade point average (GPA) of entering students is 3.74 and reflects a steady increase over the past five years.
- MSU welcomed 8,228 undergraduate students, including a record 2,155 students
  of color and 4,453 women, continuing the steady upward trajectory seen in recent
  years. Total graduate enrollment, including graduate professional students, is
  11,204, of which 1,803 are new graduate masters and PhD students and 794 are
  new graduate-professional students.
- MSU continues to have an outstanding record of students earning prestigious national and international scholarships. MSU has produced 20 Rhodes Scholars, 47 Goldwater Scholars, 16 Churchill Scholars, 18 Marshall Scholars, 16 Truman Scholars, 12 Udall Scholars, 7 Hollings Scholars, 4 Gates Scholars, 4 Mitchell Scholars, and 9 Presidential Fellows.

Michigan State offers more than 200 programs of study, many of them nationally ranked, to meet the needs of Michigan citizens and students from across the country and around the world. MSU's undergraduate Supply Chain Management Program ranks #1 and the Broad College of Business is ranked 14<sup>th</sup> among public universities for undergraduate business programs according to *U.S. News & World Report*. Eight MSU graduate programs: African history, elementary education, secondary education, rehabilitation counseling, curriculum and instruction, industrial/organizational psychology, nuclear physics, and supply chain/logistics are ranked #1 nationally by *U.S. News & World* 

*Report.* In its 2020 ranking for online graduate programs, U.S. News & World Report ranked three of Michigan State University's participating online graduate programs in the top 20 and four specific disciplinary areas in the top 10.

To ensure MSU remains a best value for students and other stakeholders, the university monitors its standing against relevant regional, national, and international peers. Areas of importance include academic quality, efficiency and value, affordability and access, and economic impact. To remain competitive, MSU must be an effective steward of its resources. As an operational baseline, in addition to targeted reductions, MSU imposes a one percent funding reduction annually on all units to encourage operating efficiency and create resources to invest in new initiatives. MSU is actively monitoring the impact that the COVID-19 pandemic has had on its operations and adjusts its operational planning as conditions change. As an initial step towards mitigating the financial impacts of the pandemic, MSU's FY21 operating budget included a three percent reduction to operating units, the application of one-time resources from deferred and delayed capital projects and institutional reserves, as well as temporary salary and benefits concessions from faculty and staff. With resources focused on mission-centric areas of the institution, MSU continues to preserve its academic rigor with a competitive student-faculty ratio (16:1) that is consistent with the Big Ten public universities' average. Major initiatives supported through strategic investments include: reforming the developmental and gateway mathematics courses at MSU; restructuring and reforming MSU's new student orientation program; and replacement of MSU's decades old, home-grown student information system for student records, while also launching a new co-curricular record system. These reforms will impact thousands of students yearly. Further investments include: expansion of our medical colleges' programs, including developing deeper ties in Flint, Grand Rapids, and metro Detroit along with creating the new MSU Health Care entity, which can now partner with area hospitals and health systems; creation of two new academic departments - the Department of African American and African Studies, and the Department of Orthopedics; integration of the College of Law into the university; and creation of the Prevention, Outreach and Education Department, and opening of the Sexual Assault Healthcare Program center - two recommendations from MSU's Relationship Violence and Sexual Misconduct Expert Advisory Workgroup.

As we maintain and enhance the academic quality of our program offerings, we must also be vigilant about the quality, flexibility, and expansion needed for our academic and instructional space. Intention-based research is central to MSU's mission and to building a mid-Michigan "talent center" as is providing learning opportunities that take place in and outside of the classroom and employ progressive pedagogy. MSU must provide state-of-the-art facilities and infrastructure that will help attract and retain top-quality students, faculty, and researchers. This is vital to remaining competitive in key fields, both nationally and internationally. Through entrepreneurship and a systems approach, MSU research moves rapidly from classrooms and laboratories to create new products, new industries, and new jobs. Examples of facilities that are attracting researchers and professionals include:

 The new Interdisciplinary Science and Technology Building opened in September of 2019. Construction began on the project in August 2017. This \$100 million, 170,000 square-foot facility is crucial to attracting top researchers and in landing multidisciplinary grants from the National Science Foundation and the National Institutes of Health. The building's six stories include wet bench laboratories, computational research space, offices, core and collaborative space, including areas for shared equipment. Its location, adjacent to the Bio Engineering and Life Science buildings and other core research facilities on campus, will allow the new facility to play an integral role in MSU's development of a neighborhood of scientific research in the biomedical and biological sciences.

- In Summer of 2020, construction was completed on renovations to approximately 24,000 square feet of space at Wonders Hall. The renovations provide undergraduate instructional space that supports teaching and learning experiences both in and out of class. The "Toolbox" for the College of Engineering Residential Experience (CoRE) includes spaces where ideas can be generated and fabricated in a hands-on approach to learning. The renovations also provide opportunities for experimental teaching and learning as curriculum and pedagogy continue to evolve.
- In August of 2018, MSU broke ground on a new STEM Teaching and Learning Facility. The facility will include modern teaching laboratories that incorporate active learning principles and foster cross-disciplinary teaching and learning, as well as support developing and evolving changes in related curriculum and its delivery. The project is part of the Strategic Academic Development Initiative a framework to continue investments supporting student success, aligning with state and national priorities to graduate more students in STEM-related fields. The facility is funded in part through the state capital outlay appropriation, which awarded \$29.9 million for construction costs.
- In conjunction with the STEM Teaching and Learning Facility, MSU also commenced the renovation of the former Shaw Lane Power Plant. The power plant will serve as the central core of the complex bookended by the STEM facility on its north and south facades. The renovations will return a building to active use and functionally provide a shared commons area with the STEM facility. It will also include a student help center for multiple disciplines, student studio space for self-guided and hands-on learning, as well as a new home for MSU's HUB for Innovation in Learning and Technology. The former Shaw Lane Power Plant also includes an addition that will house two large format learning spaces that will support curriculum revision, emerging teaching and learning methods, and improve the overall university learning environment.
- Demonstrating the breadth of programs and people at Michigan State are two significant facilities projects in our professional programs. The Minskoff Pavilion, named after alumnus Edward J. Minskoff, opened in the fall of 2019 at the Broad College of Business. The \$62 million Business Pavilion covers 100,000 square feet and houses undergraduate and graduate programs. The Pavilion is designed around spaces dedicated to collaboration, teamwork, and state-of-the-art technology that reflect changes in curriculum and pedagogy. The Minskoff Pavilion was recently awarded the Project Leadership Award from the Construction Owners Association of America (COAA) and has received LEED

Gold Certification. In 2018 we broke ground on the 37,000-square-foot Billman Music Pavilion that increased the total facility space by more than 40 percent. The last major addition to the Music Building was in 1956. This new Pavilion was completed in the Fall of 2020 and coupled with renovations to Cook Recital Hall and Fairchild Theatre on campus, creates high-quality teaching, practice, rehearsal, and research spaces that meet the needs of 21st century musicians.

- Michigan State University will broaden its research and education partnership with McLaren Health Care, as the medical provider builds a new hospital near the university's campus. McLaren is combining two of its Lansing hospitals into a new \$450 million facility that will be located on land purchased from the MSU Foundation in the University Corporate Research Park. This new facility will help MSU recruit top physicians and researchers to the region by providing access to tools and data that will build a healthier society and develop new life-saving therapies and treatments. The facility is currently expected to open by early 2022.
- Construction of the first building of the MSU Detroit Partnership for Food, Learning and Innovation, at the site of the former Houghton Elementary School in the Riverdale neighborhood, was completed in February 2020, and progress on the outdoor space development was made over the summer. Urban-focused research areas envisioned for the center include soil sampling and pollution cleanup, pest and crop disease management, forestry, innovative growing systems and community food systems development. The center enhances efforts to open opportunities for urban agriculture entrepreneurship and offer new partnerships for community and youth development. Although this is the university's first urban-based center focused on food research, MSU Extension offers educational opportunities at 14 other AgBioResearch centers throughout the state as well as at numerous locations in every Michigan county. The new center is the fourth MSU Extension office in Detroit.
- The University has identified a need for additional Biological Safety Level-3 (BSL-3) research laboratory capacity. Harmful pathogens have emerged in recent years that affect both animals and humans and are a cause for concern for the health of the nation and world. To support the current growth of research in this area, additional BSL-3 capacity has been created by leveraging the utilization of existing space through renovation and Campus Animal Resource operations. Construction began in Fall of 2019 and was completed in the summer of 2020.
- In 2019, MSU announced moving forward with the next phase of its Grand Rapids Research and Innovation Park. A ground lease was signed for continued development of the MSU's Grand Rapids Research Center site. This includes construction of a medical innovation building and parking structure, scheduled to open in late 2021. The new building will focus on driving innovation through public-private partnerships by encouraging relationships across tenants, and as a result, bring new discoveries to market. Anticipated outcomes of the collaboration include research, testing and commercialization of new therapies and devices. A gift from Doug Meijer and the Meijer Foundation will fund the establishment of a radiopharmacy that will serve as the foundation for a new

Molecular Imaging and Translational Theranostics program. This program will provide groundbreaking, world-class research leading to transformative health care related to oncology, neuroscience, and mental health.

In 2020 MSU was named one of the fastest rising research universities in the U.S. MSU was ranked 5<sup>th</sup> according to the Nature Index, which tracks contribution to primary articles in some of the most prestigious scientific journals in the world. MSU's faculty bring in significant new grants for far-reaching projects. Most have substantial implications for lab space, equipment, and facilities. Examples include:

In 2009, MSU's National Superconducting Laboratory was awarded the Department of Energy federal science project in nuclear research titled: Facility for Rare Isotope Beams (FRIB). The centerpiece of the new user facility will be a superconducting linear accelerator that will increase dramatically the reach of rare isotope research in the United States. The accelerator will produce isotopes that normally exist only in the most extreme environments in the universe and will expand the usefulness of isotopes in a broad range of applications from modeling stars to understanding the workings of nanoscale electronic devices.

FRIB is a critical project for American science and the State. It not only will keep MSU on the cutting edge of nuclear science but will also ensure the training of the nuclear scientists of tomorrow while bolstering the economies of mid-Michigan and the entire State. FRIB will cost \$730 million to design and build. In FY14, the State made a commitment to bond and service the community cost share of \$94.5 million. Construction began in 2014 and is more than 94% complete, with completion expected in early 2022. The project reached a significant milestone in 2020 with its designation by the U.S. Department of Energy as a DOE Office of Science user facility. The designation demonstrates a substantial commitment by the sponsoring program, which provides oversight and works with the facility to maximize scientific impact and productivity. The FRIB is projected to create hundreds of jobs in mid-Michigan while bringing in more than \$1 billion of economic activity to Michigan in the next 10 years. MSU looks forward to continuing its partnership with the State of Michigan to assure the successful completion of this project.

- MSU AgBioResearch encompasses the work of more than 330 scientists in seven colleges with 3-year average annual grant expenditures of more than \$77 million. These researchers, in on-campus laboratories and at 13 outlying research centers across the state, investigate topics that range from agricultural production, alternative energy and biofuel production, food safety and environmental stewardship to childhood obesity, community development, and the quality of life of Michigan youth and families.
- MSU, along with the University of Michigan and Wayne State University, is receiving \$9 million through 2021, as part of a new statewide center dedicated to understanding the treatment of Alzheimer's disease and related dementia, with funding coming from the U.S. National Institutes of Health.
- MSU and the University of Wisconsin-Madison continue to partner in the Great Lakes Bioenergy Research Center. The GLBRC was established in 2007 and in

- 2017 was awarded an additional 5 years of Department of Energy funding to develop sustainable alternatives to transportation fuels and products currently derived from petroleum. Since its inception, the GLBRC has received roughly \$267 million in DOE funding.
- In 2019, the Michigan State University Food Security Group (FSG), based in the MSU Department of Agricultural, Food and Resource Economics, has received an \$11 million grant from the U.S. Agency for International Development (USAID) to implement a new Feed the Future Innovation Lab for Food Security Policy Research, Capacity and Influence. With additional funding from USAID offices in Africa, Asia and Latin America, the total value of this five-year award could reach \$38 million. The new lab builds on previous work done by FSG, but takes a big step forward in working with local agricultural policy research organizations to strengthen their ability to carry out rigorous research on food security policy, and incorporate this research into policymaking.
- In September 2019, Michigan State University plant scientists were awarded a
  four-year \$2.6 million National Science Foundation grant to study tuber evolution.
  The study labs will use cutting-edge genomics tools to unearth the mechanisms
  of tuber development. The grant will support undergraduate researchers as well
  as outreach activities at MSU's 4-H Children's Garden.
- Michigan State University was awarded a four-year, \$2.5 million grant in 2019 from The Andrew W. Mellon Foundation to support further development in the research and teaching of less commonly taught languages (LCTLs), with an emphasis on Indigenous languages. The multi-university initiative seeks to transform the way LCTLs are taught by leveraging cutting-edge research and advances in instructional technology with the aim of creating sustainable and effective models of instruction.
- An MSU researcher was awarded a five-year \$5 million NIH grant in 2019 to investigate the role pesticides might play in olfactory impairment and their relevance to diseases such as Alzheimer's and Parkinson's. This research will aid in the ultimate goal of understanding the early stages of neurodegenerative diseases and factors involved.
- An MSU researcher will direct a team awarded a five-year \$9.8 million grant from the U.S. Department of Agriculture National Institute of Food and Agriculture (USDA NIFA) to study reducing threats of pathogens in low-moisture foods, like cereals, flour, dried fruits, and nuts. The multi-disciplinary team will work to reduce the risk of Salmonella, E. coli, and Listeria throughout the production and supply chain for these foods.
- In 2020, MSU researchers were granted nearly \$2.6 million from the USDA's Natural Resources Conservation Service. MSU scientists will work with farmers across the country to make their fields more eco-friendly while boosting their farms' bottom lines. The project encourages conservation practices that cut losses on unproductive plots and make the most out of fruitful fields.

- An interdisciplinary team of MSU researchers were awarded a nearly \$2.6 million grant in 2020 from the National Institute of Health for their work on developing breast cancer treatments. The team is developing nano-therapy to treat breast cancer without the usual side effects by using nanoscopic particles to turn the body's own cells into weapons that cancer will not see coming.
- A multi-disciplinary team of Michigan State University scholars has been awarded \$3.2 million from the National Science Foundation (NSF) to deliver renewable energy to off-grid communities. This five-year project will deliver transformative advances in science and technology to communities where energy is too expensive or unreliable. These energy solutions could transform the lives of over 650 million people across the globe who are currently saddled with expensive and unsustainable off-the-grid energy options.
- The Michigan State University Construction Management program in the School
  of Planning, Design and Construction received a \$1.2 million grant from the
  National Science Foundation to develop a research model of intelligent social
  network interventions. The research project will create a model to offer a practical
  system to equip individuals and organizations with the means to facilitate multiteam coordination and project effectiveness.
- Michigan State University researchers received \$2 million in grant funds to develop computing-integrated teaching for K-12 classrooms. Two separate grants will fund the research. One project will help special education teacher candidates learn computational thinking and computing tools to help them bring computer science to their students. The other project develops teacher capacity to incorporate computation thinking into middle school social studies, English and art classrooms.

Our continued success in meeting our value proposition of high-quality programs with access to qualified students demands that we continue to provide high quality, collaborative, flexible, technology enabled and expanded academic and instructional spaces. These teaching and learning environments need to support emerging pedagogies including those that support development of the "T-shaped" scholar, curriculum revisions, student-centered, collaborative learning, and self-guided learning. The learning environments coupled with the changing pedagogies and curriculums provide opportunities for research on and leadership in instructional methods and foster innovation through a technology-rich environment.

The approach to teaching has become more interactive across all disciplines, and the use of instructional technology has changed significantly what faculty and students accomplish in classrooms, teaching labs, and informal learning environments. All areas of research, instruction, and outreach incorporate technology and the underlying infrastructure that makes them possible. There is active promotion and use of technology-enabled teaching/learning models for on-campus and off-campus students, as well as an initiative to provide facilities that support evolving pedagogies including student-centered, collaborative, and self-guided learning. Over 100 university classrooms have been renovated to support active learning principles and emerging technology that are necessary to facilitate the exchange of ideas and collaborative

interactions that are essential to engaged learning and facilitating student success. Quality support services, such as libraries, technology integration, specialized labs, field stations, clinics, informal learning areas, and state-of-the-art equipment also need to be sustained at a level commensurate with support of nationally competitive research and scholarship efforts that are consistent with instructional goals. The convergence of these factors calls for increased investment in the facilities and equipment that support these developments. It also calls for the creation of new learning environments that support our commitment to educate, train, and graduate more students in STEM, as well as provide more opportunities for informal and self-guided learning. The STEM Teaching and Learning Facility that broke ground in August 2018 begins, in a more significant way, to address this need.

As a result of these many factors, MSU has examined the capital assets necessary to support academic programs and identified needs that involve renovation, additions, new construction, comprehensive renewal, reprogramming of selected facilities, and renewal of major subsystems in other facilities.

The institution's assessment of existing facilities shows that the infrastructure components of many campus buildings have aged significantly. Despite ongoing maintenance and repair, which in most cases has extended the expected usable life of components well beyond the industry standard, many buildings are now at a point where they require significant investment or may need to be replaced.<sup>2</sup>

The demands placed upon building systems by updated building codes and more sophisticated programs, many of which are equipment and ventilation-intensive, have resulted in facilities that act as a barrier rather than a support to program success. For example, higher environmental protection and safety standards place pressure on day-to-day maintenance and in some cases exceed the capacity of particular systems.

The proliferation and advancements in technology across disciplines requires updating of data resources and distribution systems. The configuration of older building spaces limits the efficient use of the areas available to programs and can hinder collaboration and interactions, which is increasingly important in today's learning, research, and work environments. Increasingly complicated and environmentally sensitive equipment places higher demands on power for operating and climate control for proper functioning.

In summary, renovation and additions are necessary to provide capacity, improve quality, and align infrastructure and programmatic needs for both instruction and research. This is especially true when current facilities are either too costly to renovate compared to the benefits realized and/or inadequate in the amount of space provided.

The needs for existing facilities include repairing and replacing internal building systems, such as electrical, plumbing, mechanical, and structural renewal; reworking interiors to increase the utilization and functionality of the space; and attending to the building envelope in order to maintain the integrity of the building. In some cases, the improvements are needed for only selected aspects of a facility; in others, total renovation and/or replacement of the building is warranted.

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<sup>&</sup>lt;sup>2</sup> See Appendix C: Map of Campus Buildings by Age.

Following a very detailed and carefully conceived master planning process, it was estimated that the University would need a 10 percent increase in building space over the next 20 years. The growth in space is driven by a planned increase in the number of faculty and increase in funded scientific research, new academic programs, increased enrollments, selective and qualitative changes in academic teaching programs, the enhancement of common facilities that enrich campus life and the sense of community, and the consolidation and upgrading of operational support facilities.

#### III. Staffing and Enrollment

For 2020, fall enrollment at Michigan State University totaled 49,695. These numbers represent careful and deliberate enrollment management in an effort to maintain academic quality and to continue to provide the optimal classroom and laboratory environments for all students. 74% percent of the overall students at MSU are Michigan residents, representing every county in the state; 80% percent of the undergraduate students are Michigan residents.

A summary of enrollments for fall 2020 by college and level can be found in Appendix D. Based on Michigan demographic data, enrollment management practices at the University, and current faculty/staff and physical infrastructure resources, enrollment patterns over the next five years are projected to remain stable.

While the University currently offers bachelor's or bachelor's completion programs and master's programs off campus and the Virtual University continues to increase access to programs through web-supported and entirely web-based courses, it is important to note that the vast majority of students utilize the facilities of MSU's East Lansing campus to complete their degree programs. The University will continue to expand opportunities to offer instruction that complements more traditional academic programs, but it is expected that the majority of enrolled students will continue to utilize the main campus.

The full-time equivalent faculty and academic staff count for fall 2020 is approximately 5,390. Of that total, a significant percentage is engaged in instruction, with the rest distributed across research, public service, academic and student support services, and other institutional support areas. To enhance these efforts and maintain its position as a world-class research university, in 2014 MSU committed to hiring approximately 100 additional faculty members over the five-year period of 2015-2020, with 85 hired to date.

Average class size for lower division undergraduate classes is approximately 47 students. The average class size is approximately 34 for upper division undergraduate classes and 15 for graduate classes. The most recent calculation of the student/faculty ratio is 16:1, which is consistent with the Big 10 public average.

#### IV. Facilities Assessment

In addition to seeking and retaining high-quality faculty, staff, and students, MSU recognizes that its physical infrastructure requires ongoing evaluation, maintenance, and renovation in a manner that is consistent with the high quality of its personnel and programs. As one of MSU's most important assets, the built environment supports the institution's academic mission of teaching, research, and outreach, creates a sense of place for the campus and surrounding communities, and facilitates the successful

performance of students, faculty, and staff. Perceptions of the built environment are a significant component in the overall campus experience.

- The physical infrastructure of Michigan State University broadly encompasses buildings; the utility generation and distribution system; the campus grounds, including the natural and built landscape, sidewalks, roadways, and paved parking; and the electronic network and security systems.
  - To better understand and plan for the campus capital infrastructure, a Geographic Information System (GIS) is utilized. This spatial and tabular database tool brings together, in a logical framework, data that record a description of the capital infrastructure. The GIS continues to evolve and increase in sophistication. At present, data such as condition, use, special planning characteristics, and other related information support ongoing assessment, cross-unit planning, and more effective allocation of limited dollars to institutional priorities.
- The campus grounds, including the natural and built landscape, are a principal aspect of the campus infrastructure. The main East Lansing campus approximates 5,200 acres, or eight and a half square miles. The developed campus approximates 2,000 acres, and the experimental research farm area approximates 2,700 acres with the remaining supporting auxiliary activities.
  - Yet, despite this rich land area, the master planning process recognizes that land resources are finite and should be conserved for future generations. As a result, the Campus Land Use Master Plan adopted an approach of compact campus development. While allowing for some horizontal expansion across the campus, this approach protects the capacity and contiguity of the farm areas and uses a strategy of carefully conceived "infill" on the developed campus.
- The developed campus is recognized as one of the nation's most beautiful campuses. This is particularly true of the North Campus "Circle Area" where the University first developed. The open space quality of this area, the Red Cedar River corridor, and the Sanford and Baker woodlots is very highly regarded and reinforces the social and intellectual vitality of the campus. Currently, the campus arboretum has over 960 different taxa, represented by more than 21,345 individual trees, and innumerable shrubs and vines, which serve as a vast collection for research, teaching, and demonstration, as well as to provide landscape value.

The developed landscape has an estimated replacement value exceeding \$381 million.

- There is also an extensive transportation system of approximately 82 lane miles
  of university-owned roadways with a replacement value of \$45 million. Currently,
  the condition of the roads is estimated to be 1 percent poor; 18 percent fair; 23
  percent good; and 58 percent excellent. A significant emphasis is put on
  improving safety for vehicles, pedestrians, bicyclists, and other motorized
  transport as streets are rebuilt.
- The University owns eight bridges on campus; three are for pedestrians only, three are for both vehicles and pedestrians, and two are for trains. The bridges

have a replacement value of \$21 million. One bridge is in fair condition, four are in good condition, and three are in excellent condition.

- There are 125 miles of walkways valued at \$47.8 million.
- As a continuation of the planning process, the All University Traffic and Transportation Committee addresses the issues related to parking access, the associated cost implications, and ways to increase use of mass transit and non-motorized transportation. MSU continues its partnership with the Capital Area Transport Authority to provide service for on-campus and surrounding area routes, a collaboration that first began in 1998 and that now provide free on-campus transportation for all students, faculty, and staff. In early 2017, the Executive Vice President for Administration initiated a mobility planning effort that is working to develop a robust campus mobility plan that connects current initiatives, engages stakeholders, builds on the Campus Land Use Master Plan, and provides the framework to improve campus mobility for all. This mobility master plan aims to position MSU to take a leadership role in giving the State of Michigan economy an edge in the global competition for transportation solutions.
- Main campus inter-building communications is comprised of an underground fiber optic distribution system that supports network data, VoIP telephone, contact center, cable television, cellular, two-way radio dispatch and other specialized services. The fiber optic system interconnects 236 unique structures on campus. Wireless equipment provides connections for additional structures in the south-campus farm district and is currently undergoing a hardware refresh. While planning was under way to replace this legacy service with direct fiber optic connections, funding was not approved and this project is on hold This effort will also include well water pump facilities and other critical infrastructure equipment and will bring the total unique structures with high capacity underground fiber optic connections to 297.

In addition to the fiber optic distribution system, each building has internal cabling infrastructure and equipment with approximately 75 percent in need of significant infrastructure and equipment upgrades to keep up with operational demands. WiFi service is provided by over 12,000 wireless access points. Approximately 50 percent of main campus buildings have full WiFi coverage, 30 percent have partial WiFi coverage and 20 percent have little or no Wi-Fi coverage. All residence halls have WiFi service in student rooms, cafeterias and related gathering places.

The estimated replacement value of campus data network infrastructure is over \$82 million and annual maintenance costs exceed \$10 million.

Off-campus sites in the Lansing metropolitan area are connected to the MSU data network via a 45-mile fiber optic ring operated by Zayo Enterprise Networks. Facilities across the state, those outside of Lansing, are connected via Merit Network, Inc. or other local service providers.

External data network connectivity from the main East Lansing campus is provided via redundant links to the commodity Internet and to the research-focused Internet2 network via Merit Network, Inc.

Two-way radio services were transitioned from a stand-alone system to the State of Michigan MPSCS hosted two-way radio system this year.

- Cellular infrastructure from all four national cellular carriers is installed on a myriad of main campus building rooftops and other structures. This carrier-owned equipment provides enhanced service coverage and capacity for the public and university employees alike, including during large campus events.
- Michigan State University's campus comprises approximately 24.5 million gross square feet of building space in 564 structures, including both general-fund and self-supporting facilities. The replacement cost of the buildings is calculated at \$5.29 billion. University general-fund buildings account for approximately 13.8 million square feet of space representing \$3.50 billion in replacement cost, and Residential and Hospitality Services and other self-supporting facilities account for approximately 10.7 million square feet and the remaining \$1.79 billion.

Facility condition appraisals, including the utility distribution system, are updated on an ongoing basis using input from University maintenance and custodial staff, as well as the users of the buildings. College and program units also provide programmatic facility reviews and forward needs through the annual program planning and review process.

Building capital renewal needs are identified on many campuses utilizing the "industry-expected useful life" of the various significant building components. At MSU, this approach substantially overstates needs, since the effective maintenance program typically results in building components lasting much longer than the industry standard.

MSU manages and forecasts major maintenance needs through its capital renewal program. The program prioritizes facility needs that address life safety, accessibility, asset performance, resource efficiency, and renewal of critical building systems. This process considers the age of major building components, adjusted to account for each component's maintenance history and current condition based on field observations. The five-year major maintenance facility needs (apart from the utility distribution system) for general-fund facilities is approximately \$570 million<sup>3</sup>, or an average of \$114 million per year.

• The utility generation and distribution systems are also major components of the campus infrastructure. The generation system includes the T. B. Simon Plant, a modern gas-fired cogeneration power plant with an interconnection to the national electrical power grid that serves the campus energy needs. This utility generation approach coupled with the stoppage of coal use in 2017 are key contributors to our decrease in greenhouse gas emissions. The replacement value of this facility is approximately \$311 million.

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<sup>&</sup>lt;sup>3</sup> See Appendix E for capital renewal needs.

At present, forthcoming state and federal regulatory changes are being evaluated for their impact on power plant systems. The distribution system includes approximately 74 miles of water lines, approximately 27 miles of steam lines in tunnels, approximately 3 miles of direct buried steam lines, of approximately 168 miles electrical conduit and cable, approximately 112 miles of communication cable and fiber, approximately 154 miles of storm and sanitary sewers, and more than 7 miles of chilled water distribution. The replacement value of the utility system is approximately \$334 million.

While we have made significant investment to update the north campus steam and electric utility systems, the south campus systems have deteriorated and need repairs to provide reliable service, and meet the service demands of the overall campus community. Improvement needs over the next five-year period are calculated at approximately \$124.7 million; and power plant modernization at approximately \$90 million.

MSU has a long history of demonstrated energy conservation. Since the energy crisis of the 1970's the university has continued to reduce consumption using a central building energy management system, combined heat and power energy generation with an underground utility micro-grid on the main campus, and enhanced construction standards which incorporate the United States Green Building Council Leadership in Energy and Environmental Design requirements for sustainability. In 2017, MSU entered into a power purchase agreement to purchase the electricity generated by a 10.5-megawattsolar array constructed as carports over five parking lots on campus. This photovoltaic array was completed and commissioned in December 2017. In recognition of this effort the U.S. Environmental Protection Agency awarded MSU with a 2018 Green Power Leadership award. In February 2020 the MSU Board of Trustees authorized the installation of a 20-megawatt solar array, adding to the portfolio of renewable energy. The array will be located on 100 acres just south of MSU's main campus and will triple MSU's use of renewable energy.

In April of 2012 the MSU Board of Trustees adopted the Energy Transition Plan setting goals to reduce greenhouse gas emissions 30 percent by 2015 and increase renewable energy 15 percent by 2015. The long-range energy strategy approved by the MSU Board of Trustees will help prepare the University to be a responsible global citizen and become a model community of economic sustainability. As a commitment towards this sustainable model, the university had its last firing of coal as a fuel source in spring of 2016. Progress on the energy transition plan includes reduced greenhouse gas emissions by over 34 percent since 2010 and uses 30 percent less heating units (BTU) per person than it did in 2006. Upon completion of the solar carport arrays 11.3 percent of campus power came from renewable sources.

As part of its environmental stewardship, the university participates in the Department of Energy's (DOE) Better Buildings Challenge (BBC), which is an initiative to reduce energy consumption in commercial buildings across the nation. The university has achieved the goal to reduce energy consumption by 20 percent in 20 million square feet of facilities by the year 2020. As part of this

commitment, MSU along with the other Better Building partners, publish their goals and yearly progress updates on the DOE's Better Buildings website. To date, through a comprehensive approach to energy efficiency and conservation, the university has reduced campus-wide energy use intensity by approximately 22 percent (weather adjusted).

A ten-year plan to retro-commission 115 major campus buildings in approximately 16 million square feet of space was completed at the end of FY2018. The scope of work for building analysis included mechanical system retro-commissioning and whole building energy audits. The program was successful in identifying and facilitating the approval of over \$20M in energy conservation measures resulting thus far in a greater than 20% reduction in utilities (steam and electricity) across the fleet of buildings included in the analysis. Further, the program was instrumental in the development of a campus-wide steam trap management program whereby device failures were improved from a 20 percent rate of failure to less than 3% over a 6-year period across a steam trap population of 14,000 devices. Collectively, this work has driven an avoidance of over \$7M in utility costs based on fuel-only rates. Additionally, in preparation for the future, and through leveraging our existing HVAC building control system, an analytics-based fault detection and diagnostics (FDD) software platform has been connected to 20 campus facilities for the real-time identification and monetization of maintenance and energy related mechanical system issues. Through an alignment of focused recommissioning and FDD technology, a robust foundation to ongoing commissioning has been laid to retain the significant reduction in energy consumption across campus.

All major buildings on campus have smart electrical metering for viewing real time data at http://energydashboard.msu.edu. In addition, an interactive energy dashboard is available in the lobby of Emmons Hall and Brody Hall to raise student awareness of consumption. On-line access to monthly and annual reports on energy consumption and waste/recycling efforts by building are also available.<sup>4</sup> Access to this data is part of the University's effort to educate the campus community about its consumption and encourage conservation.

MSU is committed to being good stewards of our resources by reducing consumption and greenhouse gas (GHG) emissions and increasing recycling. The commitment to recycling is supported by the MSU Surplus Store and Recycling Center that has facility capacity to support a comprehensive recycling program and will allow the university to expand recycling collection to all occupied buildings on campus.

 The college and program units provide programmatic facility reviews and forward space needs, including alteration and improvement requests, and major capital planning needs through the annual program planning and review process. This process identifies the high-priority programmatic needs of the campus through an annual, systematic approach.

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<sup>&</sup>lt;sup>4</sup> See http://energydashboard.msu.edu/

Because of the dynamic nature of academic and academic-support programs, the planning horizon for these requests is typically five years. The types of projects forwarded through this process include, for example, the comprehensive renovation of a research lab to support current research foci and sophisticated research equipment and modifications to office and dry research space for improved efficiency and program functionality. This process also helps inform the broader capital needs by identifying programmatic areas that would benefit from new construction or major renovations.

Based on the most recent planning cycle, approximately \$14 million is needed in fiscal year 2020 to address high priority, selected programmatic improvements. It is anticipated that this magnitude of annual funding need will continue through fiscal year 2026 and beyond, given the limited resources, age of the physical plant, growth in research, and changes in curriculum and evolution of teaching and learning methods and student learning experiences.

This also enables the University to coordinate projects and assemble the work scope in a way that reduces overall project costs by coupling programmatic alteration needs with infrastructure improvements and the removal of maintenance items. As a result, limited building improvement funds are expended more effectively.

A primary component of the teaching and learning environment is the University's instructional space. The University maintains approximately 320 centrally scheduled classrooms and lecture halls, and approximately 700 departmentally assigned instructional spaces. These spaces range from centrally scheduled classrooms that can be utilized by any discipline to more specialized spaces, such as teaching laboratories with fume hoods and wet-bench space. As part of the University's main campus facilities, the instructional space accounts for approximately 1 million assignable square feet.

For fall semester 2019, utilization of these instructional spaces by scheduled instructional periods ranges as high as 76 percent of the available hours, and averages 64 percent across all rooms for centrally scheduled classrooms, excluding events. The seat utilization ranges as high as 70 percent of the available capacity and averages 62 percent across all rooms. One-time events, such as help sessions, department and student organization meetings, on average typically increases utilization by over 10 percent.

Departmentally scheduled class laboratory spaces that are scheduled regularly for courses averages 33 percent across all rooms and disciplines and ranges as high as 46 percent of the available hours. This utilization does not include prep or clean-up time, open lab time for tutoring, or student research use. The seat utilization ranges as high as 84 percent of the available capacity and averages 40 percent across all rooms and disciplines. The level of utilization is indicative of the highly specialized nature of these room types.

Currently, approximately 40 percent of the instructional space is in fair condition and 10 percent in poor condition, with the remaining in good to excellent condition. Rooms in need of upgrade require either comprehensive or selected

renovation, and may include replacement of furniture, ceiling, and lighting, painting; upgrade of power and data; and replacement of lab benches and fume hoods. Rooms requiring upgrades are identified through a multiyear improvement plan that is informed by on-site reviews of each room, input from users, and analysis of room utilization, as well as the academic program planning process. In addition to these needs, the investments in instructional space must incorporate the shift to more learner-centric environments; curriculum revision, the continuous evolution of technology and its role in teaching and learning; variations in pedagogy and delivery methods such as hybrid, flipped, self-guided, and engaged and active learning.

The quality of these rooms is essential to the teaching and learning process. These rooms are intended to support a range of learning methods from lecture to active learning environments; curricular and co-curricular activities; and self-guided learning. While the university continues to make significant improvements, further investment is necessary in order to keep pace with the changes in learning methods, to continue to add value, and remain competitive in our recruitment and retention of high quality students and faculty and increase participation at both the undergraduate and graduate levels. To address these needs, it is estimated that \$60M over 5 years, or \$12 million annually, would make a substantial improvement in the condition of the existing university instructional environment through renovation and or replacement and improve alignment with changes in curriculum and learning methods.

• University properties beyond the East Lansing campus cover more than 21,000 acres and contribute to the built environment with 15 AgBioResearch research centers across the state (the Kellogg Biological Station and Saginaw Valley Research and Extension Center are examples). Other agricultural field research locations include the South Campus Farms teaching and research centers. Sites supporting other programs include facilities for engineering research in Okemos; the BioEconomy Research and Development Center in Holland; conference facilities, such as Tollgate Education Center in Novi, the Management Education Center in Troy, and WaWaSum in Grayling; Hidden Lake Gardens in Tipton; and the Secchia Center and Grand Rapids Research Center in Grand Rapids. The replacement value for the facilities located at these sites is calculated in excess of \$360 million.

At nearly all the research facilities, there is a continuing need to upgrade existing research space to meet current technological, regulatory, and operational requirements of researchers and funding organizations. Research maintenance items consist of both wet and dry lab upgrades and equipment replacement, while conference facilities require continual improvements and expansion as they relate to extension and outreach. General Maintenance and infrastructure improvements include exterior repair/replacement, technology and security upgrades, environmental enhancements directed at storm water and process water management, energy efficiencies, regulatory requirements and mechanical upgrades that include electrical, plumbing, and heating, ventilation, and air conditioning (HVAC). Other facility repairs include well and septic systems that

require continual maintenance and periodic repair of roadways and parking areas. With more than 265 buildings located at various off-campus research, teaching, and extension facilities, the items listed above are placed on a 5 to 10-year maintenance schedule, valued at approximately \$1.5M per year.

While the University has obtained facility improvement funds by issuing bonds, the University's general revenues secure these debt instruments, and the facilities are not encumbered. The exceptions to this are the completed Chemistry Building renovations; Biomedical and Physical Sciences Building; Diagnostic Center for Population and Animal Health (now named the Veterinary Diagnostic Laboratory) laboratory building; Bio Engineering Facility; and the STEM Teaching and Learning Facility. These facilities were funded in part with bonds issued by the Michigan Department of Treasury, State Building Authority (SBA) and secured by mortgages on the facilities.

#### V. Implementation

Michigan State University's approach to capital planning employs a continuous process that integrates academic, support, human resources, fiscal, and facility infrastructure planning. Institutional participation in the planning process ensures that consideration is given to relevant issues and that decisions reflect the fundamental mission and direction of the University.

Capital needs are informed by the University's Capital Planning Framework, Campus Land Use Plan, and planning activities that occur within major components of the institution at regular cycles throughout the year. These components include the annual academic program planning and review, administrative support planning and review, deferred capital renewal, technology, utility systems, energy and sustainability planning, as well as planning for transportation (roads and sidewalks), parking, and open space. Within this context, budgetary and fiscal analyses at the local, state, and federal levels are considered.

Within each component of planning, several more detailed issues are reviewed and examined relative to their impact on facilities over the short- and long-term. One approach used for this more detailed planning is the Campus Infrastructure Planning Work Group. Bringing together a comprehensive cross section of University constituents, the group evaluates infrastructure projects on several dimensions to ensure thoroughness of planning, conformance with master planning principles adopted by the MSU Board of Trustees, and impact across the University.

As a matter of operating philosophy and practice, facility planning encompasses the following issues:

- Renovations, as well as maintenance of existing campus facilities, and new construction are focused to support programs that are central to the academic mission of the University.
- A fundamental guiding principle is that planning is holistic and comprehensive. In addition to capital renewal of existing facilities, academic program needs are considered, and facility adaptation is planned accordingly. A premium is placed on reuse of existing facilities, on conservation of open space, energy

conservation, and on health, safety, security, and regulatory requirements. Barrier-free modifications are given priority, and needs related to technology are incorporated. Where appropriate, fixed building equipment, particularly for laboratories and instructional spaces, is included in the plans.

- New construction, additions and renovation of existing facilities are planned so a
  project's financial investment actively reflects the life cycle of the facility in relation
  to the needs of the program, while providing flexibility in the structure to
  accommodate potential changes over the longer term. Through the least life cycle
  cost analysis, facilities are positioned to be responsive to immediate
  programmatic needs, as well as longer-term adaptation needs brought about by
  changes in programs, advances in technology, and related issues.
- The least life cycle cost analysis also enables project development to focus on designs that reduce the ongoing maintenance cost of facilities. Within this context, MSU's high-quality construction standards intentionally create plans and assemble materials that "design out" as much near and long-term maintenance as possible.

In summary, the anticipated expenses of a facility over its life cycle are carefully considered in relation to the initial investment in design and materials.

Through facility-planning activities, Michigan State University recognizes that campus programmatic and facility capital renewal issues are significant and constantly changing. As a result, needs exist simultaneously in three major areas:

- 1. Renovations and Additions
- 2. New Construction
- 3. Major Systems Maintenance and Utilities

Many more needs exist than can be addressed at any one time. However, within this context and informed by the planning processes described above, the "Greenhouses - Renovation of Existing and Addition - Research Expansion and Learning" remains a high priority and was last year's capital project request. Other projects included in Section I of the table reflect the institutions anticipated capital project needs during the upcoming 5-year planning framework. Projects listed in Section II are currently in active planning or in process, with funding primarily from institutional resources.

## Capital Planning and Major Maintenance SFY22 Planning Timeframe: One to Five Years

Section I: MSU Capital Outlay SFY22 5-Year Planning		Y20 Est. (mil.)
Capital Outlay Priority – Renovation and Addition		120 LSt. (IIII.)
Greenhouses - Renovation of Existing and Addition - Research Expansion and Learning	\$	22.0
- Greenhouses - Renovation of Existing and Addition - Research Expansion and Learning	Ψ	
MSU 5-Year Capital Planning (Alphabetical Order)		
Renovations and Additions		
African American and African Studies - Renovation of Space - New Department		TBD
Biomedical Frontier	-	
<ul> <li>○ Biomedical Animal Resources – Provision for Large Animal (\$16.5M – 23.0M)</li> </ul>		
<ul> <li>Housing and Surgery</li> </ul>	\$	11.9 – 17.3
<ul> <li>Imaging</li> </ul>	\$	4.6 - 5.7
<ul> <li>Clinical Center A-Wing – Renovate for Research Expansion</li> </ul>	\$	68.3 - 78.8
<ul> <li>Clinical Center B-Wing – Renovate for Research Expansion &amp; Learning</li> </ul>	\$	15.8 – 21.0
<ul> <li>Research Laboratory Renovation – Various (STEM and ISTB Related Backfill)</li> </ul>	\$	15.8 – 18.9
BSL-3 - Research Expansion Multi-Species Flexible Housing/Procedure Space (Ph. 2)	\$	10.0 – 11.0
Detroit Initiative - MSU Places of Learning		TBD
Engineering - New Construction/Addition/Renovation		TBD
Large Animal - Teaching and Learning Support		TBD
Learning Spaces		
<ul> <li>Learning Space Improvements – Annual Investment for Updates and Improvements (5-</li> </ul>		
Year need, \$12.0 annually)	\$	60.0
<ul> <li>Library Improvements – Learning and Collections Support</li> </ul>	\$	5.3 - 8.4
Life Science Building ( A & B) HVAC replacement and related (phased approach)	<u> </u>	TBD
Multicultural Center		TBD
Music Building – Renovation of Existing for Improved Program Support	\$	9.9 – 35.0
Old Botany – Comprehensive Renovation	\$	10.0 – 11.
Plant Biology Building – Comprehensive Renovation	\$1	26.0 – 136.
Single Occupant/ADA Restrooms - High Priority Buildings		TBD
• 600 Crescent Road - Modifications to 1st and 2nd floors for IT Services space consolidation		TBD
Student Services Building – Renovate for Student Support	\$	9.2 – 37.3
N. A. A. N. B.III		
New Construction - New Building		
MSU Health Care - Medical Services Building	_	TBD
Transportation Services and Mobility Research Center	\$	21.0 – 23.
Major Systems Maintenance & Utilities (Alphabetical Order)		
Capital Renewal (5-Year need, \$35.0 annually)	\$	175.0
Farm Lane Infrastructure and Mobility Upgrades including Bridge Replacement	\$	36.8 – 42.0
Utilities (5-year) – Power Plant Modernization		
Battery Energy Storage System		TBD
○ Electrical Centrifugal Chillers – 8,400 tons		TBD

Projects Authorized by the Board of Trustees for Construction (Arranged Alphabetically)   Administration Building – Renovations to the Third Floor (selected area) \$ 3.8	Section II: Projects in Active Planning or In Process/Funding from Other Resources						
Biochemistry - Replace Power Service - Capital Renewal   \$ 1.3 - 1.4	Projects Authorized by the Board of Trustees for Construction (Arranged Alphabetically	<u>')</u>					
Biochemistry - Upgrade PCB Transformers and Electrical Equipment   \$ 1.6	Administration Building – Renovations to the Third Floor (selected area)						
* Business College Complex - Eppley: HVAC Capital Renewal and Undergraduate Advising Consolidation - 1st, 2nd, and 4th Floor Renovations * 0.1 July Daugherty - SAAC - Alterations to Skandalaris Football Offices and the Demmer \$ 5.8 Family Hall of History * Electrical Distribution - Duct bank Expansion and Cast Iron Water Main Replacement Along Service Rd * Eli Broad College of Business - Addition No. 2 - Pavilion \$ 62.0 * FRIB - Cryogenic Assembly Building \$ 12.4 * FRIB - High Rigidity Spectrometer and Isotope Harvesting Experimental Vault \$ 22.5 * Munn Ice Arena - Expansion \$ 23.2 * STEM Teaching and Learning Facility (\$72.5M) and Former Shaw Lane Power Plant \$ 110.1 * Renovation (\$25.0M) - Strategic Acad. Development Initiative * T.B. Simon Power Plant - Reconfigure House Service and Install Spare Breakers \$ 1.8 * Utilities - Power Plant Modernization * Reciprocating Internal Combustion Engines (RICE) \$ 47.0 * Veterinary Medical Center - Alterations to Second Floor Locker Rooms \$ 1.6 * Water Distribution - Campus Water System Improvements \$ 23.0 * Wells Hall - Replace Induction Units in Building Sections C and D (16-17 Major Maint.) \$ 6.0 * Wonders Hall - Teaching, Learning, Student Support Renovation \$ 10.6 * Veterinary Medical Center replacement and Programmatic Renovation \$ 10.6 * Projects Authorized for Planning (In Design, Arranged Alphabetically) \$ 2.2 * Engineering Student Activities Building - Construct \$ 4.0 * Elibrary - West Wing HVAC Zone Level Upgrade \$ 1.5 * Engineering Student Activities Building - Construct \$ 3.0 * Engineering Student Activities Building - Construct \$ 3.0 * Engineering Student Activities Building - Construct \$ 3.0 * Engineering Student Activities Building - Construct \$ 3.0 * Engineering Student Activities Building - Construct \$ 3.0 * Engineering Student Activities Building - Construct \$ 3.0 * Engineering Student Activities Building - Construct \$ 3.0 * Engineering Student Activities Building - Construct \$ 3.0 * Engineering Student Activities Building - Construct \$ 3.0 * Engineer	Biochemistry - Replace Power Service - Capital Renewal	\$	1.3 – 1.4				
**Business College Complex - Eppley: HVAC Capital Renewal and Undergraduate Advising Consolidation - 1st, 2nd, and 4th Floor Renovations  **Duffy Daugherty - SAAC - Alterations to Skandalaris Football Offices and the Demmer Family Hall of History  **Electrical Distribution - Duct bank Expansion and Cast Iron Water Main Replacement Along Service Rd  **Eli Broad College of Business - Addition No. 2 - Pavilion  **Eli Broad College of Business - Addition No. 2 - Pavilion  **Eli Broad College of Business - Addition No. 2 - Pavilion  **ERIB - Cryogenic Assembly Building  **ERIB - Cryogenic Assembly Building  **ERIB - High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  **FRIB - High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  **Expansion  **STEM Teaching and Learning Facility (\$72.5M) and Former Shaw Lane Power Plant  **Renovation (\$25.0M) - Strategic Acad. Development Initiative  **T.B. Simon Power Plant - Reconfigure House Service and Install Spare Breakers  **I.B. Simon Power Plant - Reconfigure House Service and Install Spare Breakers  **T.B. Simon Power Plant Modernization  **Reciprocating Internal Combustion Engines (RICE)  **Veterinary Medical Center - Alterations to Second Floor Locker Rooms  **Year Institution - Campus Water System Improvements  **Water Distribution - Campus Water System Improvements  **Water Distribution - Campus Water System Improvements  **Veterinary Medical Center replacement and Programmatic Renovation  **Wells Hall - Replace Induction Units in Building Sections C and D (16-17 Major Maint.)  **Outdoor Scapital Renewal Program - Projects  **Veterinary Medical Center replacement and Programmatic Renovations  **Description - Projects Authorized for Planning (In Design, Arranged Alphabetically)  **2.04MW Solar Array Installation (material change to the landscape and long-term lease)  **2.3  **Engineering Student Activities Building - Construct  **A.0  **Library - West Wing HVAC Zone Level Upgrade  **Library - West Wing HVAC Zone Level Upgrade  **Library	Biochemistry - Upgrade PCB Transformers and Electrical Equipment	\$	1.6				
- Duffy Daugherty - SAAC – Alterations to Skandalaris Football Offices and the Demmer Family Hall of History  - Electrical Distribution - Duct bank Expansion and Cast Iron Water Main Replacement Along Service Rd  - Eli Broad College of Business - Addition No. 2 - Pavilion  - FRIB – Cryogenic Assembly Building  - FRIB – Cryogenic Assembly Building  - FRIB – High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  - FRIB – High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  - FRIB – High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  - FRIB – High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  - FRIB – High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  - FRIB – High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  - FRIB – High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  - FRIB – High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  - FRIB – High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  - FRIB – High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  - FRIB – High Rigidity Spectrometer Intinative  - T.B. Simon Power Plant Modernization  - Reciprocating Internal Combustion Engines (RICE)  - Veterinary Medical Combustion Engines (RICE)  - Veterinary Medical Combustion Engines (RICE)  - Veterinary Medical Center - Alterations to Second Floor Locker Rooms  - Veterinary Medical Center Internations to Second Floor Locker Rooms  - Veterinary Medical Center replacement and Programmatic Renovation  - Roomed Rigidity Spectrometer Internations of Special Renewal Program – Projects  - Veterinary Medical Center replacement and Programmatic Renovations  - Veterinary Medical Center replacement and Programmatic Renovations  - Projects Authorized for Planning (In Design, Arranged Alphabetically)  - 20MW Solar Array Installation (material change to the landscape and long-term lease)  - Engineering Student Activities Building - Construct  - Hidden Lake Garde	Business College Complex - Eppley: HVAC Capital Renewal and Undergraduate Advising	\$					
Family Hall of History  • Electrical Distribution - Duct bank Expansion and Cast Iron Water Main Replacement Along  • Ele Broad College of Business - Addition No. 2 - Pavilion  • Eli Broad College of Business - Addition No. 2 - Pavilion  • FRIB – Cryogenic Assembly Building  • FRIB – High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  • PRIB – High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  • TRIB – High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  • TRIB – High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  • TRIB – High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  • TRIB – High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  • TRIB – High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  • TRIB – High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  • TRIB – High Rigidity Spectrometer Shaw Lane Power Plant  • TRIB – Trib Pack India Pack Indi							
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Service Rd  Eli Broad College of Business - Addition No. 2 - Pavilion  FRIB - Cryogenic Assembly Building  FRIB - Cryogenic Assembly Building  FRIB - High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  FRIB - High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  Service According to the According to the Interest of Service and Install Spare Breakers  The According and Learning Facility (\$72.5M) and Former Shaw Lane Power Plant Renovation (\$25.0M) - Strategic Acad. Development Initiative  The According the House Service and Install Spare Breakers  The Simon Power Plant - Reconfigure House Service and Install Spare Breakers  The Simon Power Plant Modernization  Reciprocating Internal Combustion Engines (RICE)  Veterinary Medical Center - Alterations to Second Floor Locker Rooms  The Water Distribution - Campus Water System Improvements  Wells Hall - Replace Induction Units in Building Sections C and D (16-17 Major Maint.)  Wells Hall - Replace Induction Units in Building Sections C and D (16-17 Major Maint.)  Conditions of the According Student Support Renovation  Projects Authorized for Planning (In Design, Arranged Alphabetically)  2017-2018 Capital Renewal Program - Projects  Veterinary Medical Center replacement and Programmatic Renovations  Projects Authorized for Planning (In Design, Arranged Alphabetically)  2018 Septimenting Student Activities Building - Construct  Hidden Lake Gardens - Observation Tower and Canopy Walk  Library - West Wing HVAC Zone Level Upgrade  Hidden Lake Gardens - Observation Tower and Canopy Walk  Subject of Project Security Renovation Security Renovation  Subject Security Resemble Studion - Frootprint Change  Subject Security Resemble Studion - Frootprint Change  The Swine Teaching and Research Center Addition - (Footprint Change)  Subject Security Fence/cameras  The Ower Plant Modernization  Reverse Osmosis Sytem  The Ower Plant Modernization  Reverse Osmosis Sytem  The Design Project Subject Subject Subject Subject Subject Subject Subject Subjec		<u> </u>	4.0				
Eli Broad College of Business - Addition No. 2 - Pavilion FRIB — Cryogenic Assembly Building \$12.4 FRIB — High Rigidity Spectrometer and Isotope Harvesting Experimental Vault \$22.5 Munn Ice Arena — Expansion \$23.2 STEM Teaching and Learning Facility (\$72.5M) and Former Shaw Lane Power Plant Renovation (\$25.0M) — Strategic Acad. Development Initiative *1.B. Simon Power Plant — Reconfigure House Service and Install Spare Breakers *1.8 Utilities — Power Plant Modernization Reciprocating Internal Combustion Engines (RICE) Veterinary Medical Center - Alterations to Second Floor Locker Rooms *1.6 Water Distribution - Campus Water System Improvements Water Distribution - Campus Water System Improvements Wonders Hall — Replace Induction Units in Building Sections C and D (16-17 Major Maint.) *0 Veterinary Medical Center replacement and Programments Veterinary Medical Center replacement and Programmatic Renovation *10.6  **Wonders Hall — Teaching, Learning, Student Support Renovation *10.6  **Projects Authorized for Planning (In Design, Arranged Alphabetically) *2.0MW Solar Array Installation (material change to the landscape and long-term lease) *1.0  **Engineering Student Activities Building - Construct *1.6  **Hidden Lake Gardens - Observation Tower and Canopy Walk *1.6  **Library — West Wing HVAC Zone Level Upgrade *1.8  **Kellogg Biological Station - Bird Sanctuary Renovation *1.6  **Sume Teaching and Research Center Addition - (Footprint Change) *1.8  **Owen Graduate Hall — Visiting Scholars Housing Project *1.5 – 2.0  **Swine Teaching and Research Center Addition - (Footprint Change) *1.8  **Descrity fence/cameras *1.0  **Utilities - Power Plant Modernization **Prep site for RICE engine installation **Open Plant Modernization **Open Plant Moderniz		Φ	4.0				
• FRIB — Cryogenic Assembly Building • FRIB — High Rigidity Spectrometer and Isotope Harvesting Experimental Vault • FRIB — High Rigidity Spectrometer and Isotope Harvesting Experimental Vault • Stepansion • The Simon Power Plant Learning Facility (\$72.5M) and Former Shaw Lane Power Plant Renovation (\$25.0M) — Strategic Acad. Development Initiative • The Simon Power Plant Pactor Flant Modernization • Reciprocating Internal Combustion Engines (RICE) • Veterinary Medical Center - Alterations to Second Floor Locker Rooms • Under Distribution - Campus Water System Improvements • Veterinary Medical Center - Alterations to Second Floor Locker Rooms • Veterinary Medical Center - Alterations to Second Floor Locker Rooms • Under Distribution - Campus Water System Improvements • Veterinary Medical Center of Initia in Building Sections C and D (16-17 Major Maint.) • Outline Hall - Replace Induction Units in Building Sections C and D (16-17 Major Maint.) • Outline Hall - Teaching, Learning, Student Support Renovation • Veterinary Medical Center replacement and Programmatic Renovation • Veterinary Medical Center replacement and Programmatic Renovations  • Veterinary Medical Center replacement and Programmatic Renovations  • Projects Authorized for Planning (In Design, Arranged Alphabetically) • 20MW Solar Array Installation (material change to the landscape and long-term lease) • 2.3 • Engineering Student Activities Building - Construct • 1.6 • Uniden Lake Gardens - Observation Tower and Canopy Walk • 2.2 • IM West Outdoor Pool Replacement (on-hold planning completed) • 1.5 • Library - West Wing HVAC Zone Level Upgrade • Kellogg Biological Station - Bird Sanctuary Renovation • Seasonal Ice Rink • 2.3 – 3.0 • Outdoor Seasonal Ice Rink • 2.3 – 3.0 • Outdoor Seasonal Ice Rink • 1.5 • Outdoor Seasonal Ice Rink • 1.5 • Descrit fence/cameras • TBD • Utilitities - Power Plant Modernization • Reverse Osm		\$	62.0				
• FRIB – High Rigidity Spectrometer and Isotope Harvesting Experimental Vault  • Munn Ice Arena – Expansion  • STEM Teaching and Learning Facility (\$72.5M) and Former Shaw Lane Power Plant Renovation (\$25.0M) – Strategic Acad. Development Initiative  • T.B. Simon Power Plant – Reconfigure House Service and Install Spare Breakers  • Utilities – Power Plant Modernization • Reciprocating Internal Combustion Engines (RICE)  • Veterinary Medical Center - Alterations to Second Floor Locker Rooms  • Water Distribution - Campus Water System Improvements  • Water Distribution - Campus Water System Improvements  • Water Distribution - Campus Water System Improvements  • Wonders Hall – Replace Induction Units in Building Sections C and D (16-17 Major Maint.)  • Wonders Hall – Teaching, Learning, Student Support Renovation  • Veterinary Medical Center replacement and Programmatic Renovations  • Veterinary Medical Center replacement and Programmatic Renovations  • Veterinary Medical Center replacement and Programmatic Renovations  • 2017-2018 Capital Renewal Program – Projects  • Veterinary Medical Center replacement and Programmatic Renovations  • 203 • Engineering Student Activities Building - Construct  • 10.6  • Water Distribution - Support Replacement (on-hold planning completed)  • 15.0  • Library – West Wing HVAC Zone Level Upgrade  • Kellogg Biological Station - Bird Sanctuary Renovation  • Nower Graduate Hall – Visiting Scholars Housing Project  • TBD  • TBD  • TBD  • Utilities - Power Plant Modernization  • Reverse Osmosis Sytem  • 1.0  • Medium Pressure Steam Boiler							
• Munn Ice Arena – Expansion       \$ 23.2         • STEM Teaching and Learning Facility (\$72.5M) and Former Shaw Lane Power Plant       \$ 110.1         Renovation (\$25.0M) – Strategic Acad. Development Initiative       11.8         • T.B. Simon Power Plant – Reconfigure House Service and Install Spare Breakers       \$ 1.8         • Utilities – Power Plant Modernization       \$ 47.0         • Veterinary Medical Center - Alterations to Second Floor Locker Rooms       \$ 47.0         • Water Distribution - Campus Water System Improvements       \$ 23.0         • Wells Hall – Replace Induction Units in Building Sections C and D (16-17 Major Maint.)       \$ 6.0         • Wonders Hall – Teaching, Learning, Student Support Renovation       \$ 18.0         • 2017-2018 Capital Renewal Program – Projects       \$ 10.6         • Veterinary Medical Center replacement and Programmatic Renovations       \$ 10.6         Projects Authorized for Planning (In Design, Arranged Alphabetically)         • 20MW Solar Array Installation (material change to the landscape and long-term lease)       \$ 2.3         • Engineering Student Activities Building - Construct       \$ 4.0         • Hidden Lake Gardens - Observation Tower and Canopy Walk       \$ 2.2         • Library - West Wing HVAC Zone Level Upgrade       \$ 15.0         • Kellogg Biological Station - Bird Sanctuary Renovation       \$ 2.5 – 3.5         • Outdoor Seaso							
STEM Teaching and Learning Facility (\$72.5M) and Former Shaw Lane Power Plant Renovation (\$25.0M) — Strategic Acad. Development Initiative  *T.B. Simon Power Plant — Reconfigure House Service and Install Spare Breakers  *I.8  *Utilities — Power Plant Modernization  Reciprocating Internal Combustion Engines (RICE)  *Veterinary Medical Center - Alterations to Second Floor Locker Rooms  *Utilities — Power Plant Modernization  Reciprocating Internal Combustion Engines (RICE)  *Veterinary Medical Center - Alterations to Second Floor Locker Rooms  *Utilities — Power Plant Modernization  *Veterinary Medical Center - Alterations to Second Floor Locker Rooms  *Utilities — Replace Induction Units in Building Sections C and D (16-17 Major Maint.)  *Utilities — Replace Induction Units in Building Sections C and D (16-17 Major Maint.)  *Utilities — Replace Induction Units in Building Sections C and D (16-17 Major Maint.)  *Utilities — Replace Induction Units in Building Sections C and D (16-17 Major Maint.)  *Utilities — Replace Induction Units in Building Sections C and D (16-17 Major Maint.)  *Utilities — Replace Induction Units in Building Sections C and D (16-17 Major Maint.)  *Utilities — Replace Induction Units in Building Sections C and D (16-17 Major Maint.)  *Utilities — Replace Induction Induction Inductions Induction Inductio							
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<ul> <li>Utilities – Power Plant Modernization         <ul> <li>Reciprocating Internal Combustion Engines (RICE)</li> <li>Veterinary Medical Center - Alterations to Second Floor Locker Rooms</li> <li>Water Distribution - Campus Water System Improvements</li> <li>Water Distribution - Campus Water System Improvements</li> <li>Walls Hall – Replace Induction Units in Building Sections C and D (16-17 Major Maint.)</li> <li>6.0</li> <li>Wonders Hall – Teaching, Learning, Student Support Renovation</li> <li>2017-2018 Capital Renewal Program – Projects</li> <li>Veterinary Medical Center replacement and Programmatic Renovations</li> </ul> </li> <li>Projects Authorized for Planning (In Design, Arranged Alphabetically)</li> <li>20MW Solar Array Installation (material change to the landscape and long-term lease)</li> <li>Engineering Student Activities Building - Construct</li> <li>Hidden Lake Gardens - Observation Tower and Canopy Walk</li> <li>2.2</li> <li>IM West Outdoor Pool Replacement (on-hold planning completed)</li> <li>Library – West Wing HVAC Zone Level Upgrade</li> <li>Kellogg Biological Station - Bird Sanctuary Renovation</li> <li>2.5 – 3.5</li> <li>Outdoor Seasonal Ice Rink</li> <li>Owen Graduate Hall – Visiting Scholars Housing Project</li> <li>Swine Teaching and Research Center Addition - (Footprint Change)</li> <li>Ts. 5 – 0.8</li> </ul> <li>TBD</li> <li>Beverse Osmosis Sytem</li> <li>Medium Pressure Steam Boiler</li>		\$	1.8				
o Reciprocating Internal Combustion Engines (RICE)  • Veterinary Medical Center - Alterations to Second Floor Locker Rooms  • Water Distribution - Campus Water System Improvements  • Wells Hall − Replace Induction Units in Building Sections C and D (16-17 Major Maint.)  • Wonders Hall − Teaching, Learning, Student Support Renovation  • 2017-2018 Capital Renewal Program − Projects  • Veterinary Medical Center replacement and Programmatic Renovations  • 2018 Capital Renewal Program − Projects  • Veterinary Medical Center replacement and Programmatic Renovations  • 2018 Capital Renewal Program − Projects  • Veterinary Medical Center replacement and Programmatic Renovations  • 10.6  • Projects Authorized for Planning (In Design, Arranged Alphabetically)  • 20MW Solar Array Installation (material change to the landscape and long-term lease)  • Engineering Student Activities Building • Construct  • Hidden Lake Gardens • Observation Tower and Canopy Walk  • 1.2.2  • IM West Outdoor Pool Replacement (on-hold planning completed)  • Library − West Wing HVAC Zone Level Upgrade  • Kellogg Biological Station • Bird Sanctuary Renovation  • Library − West Wing HVAC Zone Level Upgrade  • Kellogg Biological Station • Bird Sanctuary Renovation  • Owen Graduate Hall − Visiting Scholars Housing Project  • Swine Teaching and Research Center Addition • (Footprint Change)  • TBD  • Security fence/cameras  • TBD  • Utilities • Power Plant Modernization  • Reverse Osmosis Sytem  • Medium Pressure Steam Boiler							
Veterinary Medical Center - Alterations to Second Floor Locker Rooms     Water Distribution - Campus Water System Improvements     Wells Hall - Replace Induction Units in Building Sections C and D (16-17 Major Maint.)     Wonders Hall - Teaching, Learning, Student Support Renovation     2017-2018 Capital Renewal Program - Projects     Veterinary Medical Center replacement and Programmatic Renovation     Veterinary Medical Center replacement and Programmatic Renovations  Projects Authorized for Planning (In Design, Arranged Alphabetically)     20MW Solar Array Installation (material change to the landscape and long-term lease)     Engineering Student Activities Building - Construct     Hidden Lake Gardens - Observation Tower and Canopy Walk     Substancy - West Wing HVAC Zone Level Upgrade     In West Outdoor Pool Replacement (on-hold planning completed)     Subject Station - Bird Sanctuary Renovation     Subject Station - Site Modifications     Prep site for RICE engine installation     Security fence/cameras     Utilities - Power Plant Modernization     Reverse Osmosis Sytem     Subject Station - Bird Sanctuary Renovation     Reverse Osmosis Sytem     Subject Station - Bird Sanctuary Renovation     Reverse Osmosis Sytem     Subject Station - Bird Sanctuary Renovation     Reverse Osmosis Sytem     Subject Station - Bird Sanctuary Renovation     Reverse Osmosis Sytem     Subject Station - Bird Sanctuary Renovation     Reverse Osmosis Sytem     Subject Station - Bird Sanctuary Renovation     Reverse Osmosis Sytem     Subject Station - Bird Sanctuary Renovation     Reverse Osmosis Sytem     Subject Station - Bird Sanctuary Renovation		\$	47.0				
<ul> <li>• Water Distribution - Campus Water System Improvements</li> <li>• Wells Hall − Replace Induction Units in Building Sections C and D (16-17 Major Maint.)</li> <li>• Wonders Hall − Teaching, Learning, Student Support Renovation</li> <li>• 2017-2018 Capital Renewal Program − Projects</li> <li>• Veterinary Medical Center replacement and Programmatic Renovations</li> <li>• Projects Authorized for Planning (In Design, Arranged Alphabetically)</li> <li>• 20MW Solar Array Installation (material change to the landscape and long-term lease)</li> <li>• Engineering Student Activities Building - Construct</li> <li>• Hidden Lake Gardens - Observation Tower and Canopy Walk</li> <li>• Library – West Wing HVAC Zone Level Upgrade</li> <li>• Kellogg Biological Station - Bird Sanctuary Renovation</li> <li>• Kellogg Biological Station - Bird Sanctuary Renovation</li> <li>• Owen Graduate Hall – Visiting Scholars Housing Project</li> <li>• Swine Teaching and Research Center Addition - (Footprint Change)</li> <li>• T.B. Simon Power Plant - Site Modifications</li> <li>• Prep site for RICE engine installation</li> <li>• Security fence/cameras</li> <li>• Utilities - Power Plant Modernization</li> <li>• Reverse Osmosis Sytem</li> <li>• Medium Pressure Steam Boiler</li> </ul>			1.6				
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Wonders Hall – Teaching, Learning, Student Support Renovation     2017-2018 Capital Renewal Program – Projects     ○ Veterinary Medical Center replacement and Programmatic Renovations  Projects Authorized for Planning (In Design, Arranged Alphabetically)      20MW Solar Array Installation (material change to the landscape and long-term lease)     \$ 2.3     Engineering Student Activities Building - Construct     \$ 4.0     Hidden Lake Gardens - Observation Tower and Canopy Walk     \$ 2.2     IM West Outdoor Pool Replacement (on-hold planning completed)     \$ 15.0     • Library – West Wing HVAC Zone Level Upgrade     \$ 1.8     Kellogg Biological Station - Bird Sanctuary Renovation     \$ 2.5 - 3.5     • Outdoor Seasonal Ice Rink     \$ 2.3 - 3.0     • Owen Graduate Hall – Visiting Scholars Housing Project     • Swine Teaching and Research Center Addition - (Footprint Change)     • T.B. Simon Power Plant - Site Modifications     ○ Prep site for RICE engine installation     ○ Security fence/cameras     • Utilitities - Power Plant Modernization     ○ Reverse Osmosis Sytem     \$ 1.0     ○ Medium Pressure Steam Boiler							
Oveterinary Medical Center replacement and Programmatic Renovations     Veterinary Medical Center replacement and Programmatic Renovations     10.6  Projects Authorized for Planning (In Design, Arranged Alphabetically)     20MW Solar Array Installation (material change to the landscape and long-term lease)     Engineering Student Activities Building - Construct     Hidden Lake Gardens - Observation Tower and Canopy Walk     15.0     Hidden Lake Gardens - Observation Tower and Canopy Walk     15.0     Hidden Lake Gardens - Observation Tower and Canopy Walk     Sellory - West Wing HVAC Zone Level Upgrade     Nellogg Biological Station - Bird Sanctuary Renovation     Nellogg Biological Station - Bird Sanctuary Renovation     Outdoor Seasonal Ice Rink     Owen Graduate Hall - Visiting Scholars Housing Project     Swine Teaching and Research Center Addition - (Footprint Change)     T.B. Simon Power Plant - Site Modifications     Orep site for RICE engine installation     Security fence/cameras     TBD  Utilities - Power Plant Modernization     Reverse Osmosis Sytem     Severse Osmosis Sytem     Medium Pressure Steam Boiler  **TBD**							
o Veterinary Medical Center replacement and Programmatic Renovations  Projects Authorized for Planning (In Design, Arranged Alphabetically)  • 20MW Solar Array Installation (material change to the landscape and long-term lease)  • Engineering Student Activities Building - Construct  • Hidden Lake Gardens - Observation Tower and Canopy Walk  • IM West Outdoor Pool Replacement (on-hold planning completed)  • Library − West Wing HVAC Zone Level Upgrade  • Kellogg Biological Station - Bird Sanctuary Renovation  • Outdoor Seasonal Ice Rink  • Owen Graduate Hall − Visiting Scholars Housing Project  • Swine Teaching and Research Center Addition - (Footprint Change)  • T.B. Simon Power Plant - Site Modifications  • Prep site for RICE engine installation  • Security fence/cameras  • Utilities - Power Plant Modernization  • Reverse Osmosis Sytem  • Medium Pressure Steam Boiler							
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<ul> <li>Library – West Wing HVAC Zone Level Upgrade</li> <li>Kellogg Biological Station - Bird Sanctuary Renovation</li> <li>Outdoor Seasonal Ice Rink</li> <li>Owen Graduate Hall – Visiting Scholars Housing Project</li> <li>Swine Teaching and Research Center Addition - (Footprint Change)</li> <li>T.B. Simon Power Plant - Site Modifications</li> <li>Prep site for RICE engine installation</li> <li>Security fence/cameras</li> <li>Utilities - Power Plant Modernization</li> <li>Reverse Osmosis Sytem</li> <li>Medium Pressure Steam Boiler</li> </ul>		\$	15.0				
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Owen Graduate Hall – Visiting Scholars Housing Project     Swine Teaching and Research Center Addition - (Footprint Change)     T.B. Simon Power Plant - Site Modifications     Prep site for RICE engine installation     Security fence/cameras     Utilities - Power Plant Modernization     Reverse Osmosis Sytem     Medium Pressure Steam Boiler      1.5 – 2.0      TBD      TBD      TBD      TBD		\$	2.5 - 3.5				
Swine Teaching and Research Center Addition - (Footprint Change)     T.B. Simon Power Plant - Site Modifications     ○ Prep site for RICE engine installation     ○ Security fence/cameras     Utilities - Power Plant Modernization     ○ Reverse Osmosis Sytem     ○ Medium Pressure Steam Boiler     Swine Teaching (Footprint Change)     TBD      TBD	Outdoor Seasonal Ice Rink	\$	2.3 - 3.0				
◆ T.B. Simon Power Plant - Site Modifications     ○ Prep site for RICE engine installation     ○ Security fence/cameras     ◆ Utilities - Power Plant Modernization     ○ Reverse Osmosis Sytem     ○ Medium Pressure Steam Boiler     ◆ T.B. Simon Power Plant - Site Modifications     ▼ TBD      ★ 1.0	Owen Graduate Hall – Visiting Scholars Housing Project	\$	1.5 – 2.0				
<ul> <li>○ Prep site for RICE engine installation</li> <li>○ Security fence/cameras</li> <li>O Utilities - Power Plant Modernization</li> <li>○ Reverse Osmosis Sytem</li> <li>○ Medium Pressure Steam Boiler</li> </ul>		\$					
<ul> <li>○ Security fence/cameras</li> <li>◆ Utilities - Power Plant Modernization</li> <li>○ Reverse Osmosis Sytem</li> <li>○ Medium Pressure Steam Boiler</li> </ul>	T.B. Simon Power Plant - Site Modifications						
◆ Utilities - Power Plant Modernization     ○ Reverse Osmosis Sytem \$ 1.0     ○ Medium Pressure Steam Boiler TBD	Prep site for RICE engine installation		TBD				
<ul><li>○ Reverse Osmosis Sytem</li><li>○ Medium Pressure Steam Boiler</li><li>\$ 1.0</li><li>TBD</li></ul>	Security fence/cameras		TBD				
○ Medium Pressure Steam Boiler TBD							
○ Medium Pressure Steam Boiler TBD	Reverse Osmosis Sytem	\$	1.0				
○ Replace U4 Cyclone Refractory \$ 1.0 – 1.5			TBD				
	o Replace U4 Cyclone Refractory	\$	1.0 – 1.5				

Addressing the above projects within the next five-year timeframe is extremely important, not only to the effectiveness of the academic programs but also to the operational efficiency of the institution. Finally, funding these projects is consistent with the University's commitment to responsible stewardship of critical state resources. It will also ensure that the capital infrastructure is available to carry out our commitment to intellectual leadership in developing new knowledge and to conveying and applying that knowledge to students and the public in practical ways.

#### VI. Capital Outlay Planning

The capital planning priorities support programs that have strong national reputations, expanding research bases, and high enrollment demand that will sustain the university and its contributions to Michigan. Funding of these requests will provide economic development in the state, now and in the long term.

#### Renovations and additions

Renovations and/or additions address extensive programmatic and maintenance improvements required by buildings previously funded by the state. They are necessary to reconfigure and or expand space in order to support the work of the programs housed in those facilities; create core/shared research support facilities and modern learning spaces; and in some instances, adaptive re-use or modernization of aging buildings including alignment with current codes and provisions for accessibility.

Major renovations and/or additions include the plant sciences-bioeconomy, biological and biomedical sciences, music and learning facilities.

#### Major systems replacement

Current forecasts anticipate general fund capital renewal (deferred maintenance) and utility needs of approximately \$401 million over the next five years. In view of the extensive facility needs it faces, MSU has drawn upon an increasing amount of internal university resources to address the most critical facility maintenance and programmatic requirements. Self-funding these capital improvements is not sustainable without negative impacts on other programs.

The university seeks funding for more targeted and specific building systems maintenance and utilities. Examples of systems in need of repair or replacement include roofing, windows, electrical, mechanical, chiller, refrigeration, steam, fire, security, and barrier-free access.

#### VII. Conclusion

Michigan State University's programmatic strategy is premised on the foundation of advancing the common global good with the uncommon will and seeks to further education and research in Science, Technology, Engineering, and Math as well as other curricular priorities to expand economic impact locally, regionally, and internationally. MSU routinely receives more than \$600 million in sponsored awards annually, focused in areas such as food systems; plant sciences; health sciences; computational sciences emphasizing biology and food/food-chain; and population and the environment, including food, water, and energy. Additionally, MSU's programmatic investments seek

to improve technology and teaching, prioritize interdisciplinary study, the narrowing of graduation gaps amongst various student groups, and fostering a healthier campus.

More than 90 percent of MSU's graduates were employed or continuing their education within nine months of graduation. Of 2018 graduates with employment, approximately 60 percent remained in Michigan, with an additional 16 percent employed in other Midwestern states.

Michigan State University has an annual economic impact of more than \$5 billion statewide and seeks to instill an entrepreneurial and high-performance mindset in its students, faculty, and staff.

MSU is deeply engaged in the cities of Flint, Detroit, and Grand Rapids, working collaboratively to provide expertise and a network of resources in education, food, water, health, and sustainability. MSU Extension's presence extends to all 83 Michigan counties, availing all Michigan residents to the resources and expertise they need to advance the state and its economy. Agribusiness is among the fastest growing economic sectors in the state, and the MSU AgBioResearch and MSU Extension contribute to Michigan's economy with significant research, educational programs and a community presence to boost economic development and growth related to agriculture and natural resources, community vitality, entrepreneurship, and career preparation for young people.

Michigan State University is recognized around the world as a leading academic institution with world-class faculty, top graduate school programs, a powerful research portfolio, and an engaged, entrepreneurial spirit. To maximize its impact and fiscal responsibility, MSU continues to build on its partnerships with local, state and federal government agencies and with the private sector while maintaining its core values and commitments. Leadership continues to balance increasing the value of MSU's work and ensuring it matches the high quality expected of MSU. We engage our partners, our students, our faculty and the stakeholders and communities we serve, both locally and globally, to shape a shared future of sustainable prosperity.

## **Appendices**

**Appendix A: Mission Statement** 

**Appendix B: Campus Land Use Master Plan Update 2017** 

Appendix C: Buildings by Age

Appendix D: Student Enrollments – Fall Semester 2019

**Appendix E: Building Condition Assessment** 

**Appendix F: Utilities** 

### Fiscal Year 2022 Budget Information

5-Year Capital Plan

Submitted by:



# **Appendix A: Mission Statement**

### Fiscal Year 2022 Budget Information

5-Year Capital Plan

Submitted by:

MICHIGAN STATE UNIVERSITY

#### **MSU Mission Statement**

The following statement was approved by the Board of Trustees on April 18, 2008

Michigan State University, a member of the Association of American Universities and one of the top 100 research universities in the world, was founded in 1855. We are an inclusive, academic community known for our traditionally strong academic disciplines and professional programs, and our liberal arts foundation. Our cross- and interdisciplinary enterprises connect the sciences, humanities, and professions in practical, sustainable, and innovative ways to address society's rapidly changing needs.

As a public, research-intensive, land-grant university, funded in part by the State of Michigan, our mission is to advance knowledge and transform lives by:

- providing outstanding undergraduate, graduate, and professional education to promising, qualified students in order to prepare them to contribute fully to society as globally engaged citizen leaders
- conducting research of the highest caliber that seeks to answer questions and create solutions in order to expand human understanding and make a positive difference, both locally and globally
- advancing outreach, engagement, and economic development activities that are innovative, research-driven, and lead to a better quality of life for individuals and communities, at home and around the world

Fall 2020

## Appendix B: Campus Land Use Master Plan

**Update February 2017** 

### Fiscal Year 2022 Budget Information

5-Year Capital Plan

Submitted By:

MICHIGAN STATE UNIVERSITY

# Michigan State University

Campus Land Use Master Plan: Update 2017



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## **PREFACE**

#### PURPOSE OF THE CAMPUS LAND USE MASTER PLAN

The Campus Land Use Master Plan provides a flexible framework for guiding the physical organization of the Michigan State University (MSU) campus. The plan includes overarching campus planning principles, specific system recommendations, and the University Zoning Ordinance. The plan is updated every five years to provide University administration with a current and relevant decision-making tool in concert with additional planning documents that include but are not limited to:

- Mobility Plan (under development)
- Five-Year Plan and Capital Outlay Request
- Capital Renewal (deferred maintenance) Priorities
- Residential and Hospitality Services Strategic Plan
- Utility and Infrastructure Plans (water, steam, electric, gas, storm water)
- Power Plant Master Plans
- Storm Water Permit
- Barrier Free Accessibility Plan
- Energy Conservation Plan
- Well Head Protection Plan

Given the size and complexity of the campus's physical composition, coordinating the land use plan with a mobility plan will facilitate the University's ability to achieve its mission within a culture of high performance. Together, the land use and mobility plans will enable the connections, collaboration, and conversations required to drive academic success and research innovation. To this end, President Simon has directed the Executive Vice President for Administrative Services to lead the effort in developing a mobility plan.

## SIGNIFICANT ACCOMPLISHMENTS SINCE THE 2011 UPDATE

Over the past five years, the Campus Land Use Master Plan: Update 2011 informed the implementation of the following major projects.

- Major building projects completed or under construction include: NSCL/FRIB (various projects), Brody Neighborhood (various projects), Bott College of Nursing Education, Case Hall Addition and Renovation, Shaw Hall Addition and Renovation, Old College Field (various projects), Wells Hall Addition, Molecular Plant Science, Landon Hall Addition and Renovation, Endocrine Research, Spartan Stadium North End Zone Addition, MSU Performing Arts and Teaching Lab, Parking Ramp 7, Bio Engineering Research, Breslin Center Upgrades and Hall of History, Intercollegiate Golf Facility, Poultry-Laying Hen Research, Sheep Lambing and Research, and 1855 Place.
- Close adherence to the University Zoning Ordinance, with only 5 projects requiring a zoning variance.
- Completion of the RHS Dining Services Master Plan.
- Major enhancements to the campus open space system including removal of parking to create open space adjacent to Shaw Hall and the Munn Field artificial turf field.

- Receipt of a Silver Bicycle Friendly University Award from the League of American Bicyclists. Today more than 68% of campus roads have bike lanes. The campus has six do-it-yourself fix-it stations in the residential neighborhoods and two secure bicycle storage facilities with fix-it stations (Grand River and Communication Arts Garages) and one secure storage facility within the FRIB complex. Nearly 60% of the MSU River Trail (dedicated bicycle and pedestrian trail) has been constructed from Harrison Road to Farm Lane.
- Completed the four-year West and East Circle Drive infrastructure enhancement project that improved non-motorized and motorized circulation within the North Academic District.
- Completed the Chestnut Road reconstruction from Shaw Lane north to Red Cedar Road.
- Reconfigured the Bogue Street and Shaw Lane intersection, removing the last vehicular traffic circle on campus along with closing the Bogue Street segment between Shaw Lane and Wilson Road to accommodate the FRIB project.
- Completion and full operation of the Capital Gateway Multimodal Transit Center operated by CATA.

# CAMPUS PLANNING PRINCIPLES

#### INTRODUCTION

The University is committed to a comprehensive and continuous land use planning process that results in a flexible framework to guide future decision making. The University will consider the use of resources from environmental, regulatory, operational, economic, historic, and cultural perspectives in support of its teaching/learning, research, and outreach mission.

The following planning principles will guide future planning for, and development on, the Michigan State University campus. The principles are organized in the following categories: General Principles, Land Use and Facilities, Environmental Sustainability, Open Space, Parking, Circulation, and Utility Infrastructure.

#### **GENERAL PRINCIPLES**

- Arrange campus buildings, open space, circulation and utility systems to:
  - establish positive interactions among academic, research, outreach, cultural, and operational activities;
  - protect and strengthen the campus as a living-learning resource integral to the University's mission;
  - protect and enhance campus beauty;
  - enhance environmental stewardship;
  - minimize energy impacts and increase/retain energy efficiencies; and
  - optimize safety and facilitate risk management.

#### PLANNING PRINCIPLES RELATED TO LAND USE AND FACILITIES

- Organize the campus in logical districts of compatible land uses.
- Implement compact campus development to achieve the following benefits:
  - preserve and protect existing natural areas and systems to support teaching and research;
  - conserve land and maximize land productivity:
  - protect contiguous agricultural teaching and research land;
  - encourage social interactions and vitality;
  - encourage collaboration, partnering, and interdisciplinary connections;
  - reinforce ties between research and undergraduate teaching;
  - control utility, transportation, parking, and infrastructure costs;
  - enhance functional efficiencies:
  - maximize efficient energy use; and,
  - minimize utility distribution extensions, which are inefficient and costly to maintain.
- Provide intramural recreation fields in locations that balance accessibility for both onand off-campus participants.

- Protect and enhance campus open space, providing an appropriate balance (qualitative and quantitative) to the built environment.
- Protect the land south of Mount Hope Road from development to support AgBio Research and the College of Agriculture and Natural Resources' teaching, research, and outreach mission.
- Protect existing and future drinking water well locations in the Agricultural District in accordance with the Well Head Protection Plan.
- Favor reuse, renovation, and repurposing of existing buildings after carefully assessing programmatic alignment, functionality, long-term capital renewal (deferred maintenance), historic significance, location, energy efficiency, and replacement costs.
- Organize the arrangement and design of campus buildings and exterior spaces to
  encourage human interaction and to foster a sense of shared community among the
  University's diverse population. This may include, for example, incorporating
  "transitional spaces" outside of classrooms for pre- and post-class collaboration and
  "blended spaces" where food service, study space, and general meeting resources
  coexist.
- Design new buildings and renovations to be architecturally compatible with the best features of existing adjacent buildings and to be harmonious with their contextual surroundings.
- Maximize flexibility in the design of new and renovated space to accommodate changing needs and functions over time.
- Recognize historically significant aspects of the campus and the heritage of the campus as a park and as a living and learning laboratory.
- Acknowledge that the campus is part of the larger surrounding community. Build compatible land use relationships and circulation patterns.
- Consolidate support service facilities into the Services District as defined by the University Zoning Ordinance.
- Organize land uses, facilities, and infrastructure to encourage physical activity.

#### PLANNING PRINCIPLES RELATED TO ENVIRONMENTAL SUSTAINABILITY

- Minimize environmental impacts and maximize resource conservation through prudent and compact land use, protecting sensitive environmental systems, and incorporating low-impact development guidelines.
- Minimize negative impacts to the water quality of the Red Cedar River Watershed; incorporate Best Management Practices for storm water.

- Acknowledge the intrinsic value of biodiversity and enhance natural system integrity by creating, restoring, and maintaining large-block natural areas and improving their interconnections.
- Provide a suite of transportation options that maximize the movement of people and minimize the movement of cars, thus reducing congestion, vehicle miles traveled, and greenhouse gas emissions.
- Continuously pursue building and utility systems that encourage renewable resource use and that decrease waste and hazardous materials.
- Recognize land use issues associated with climate vulnerability including storm water management, flooding, snow removal, temperature extremes, and storm intensity.

#### PLANNING PRINCIPLES RELATED TO OPEN SPACE

- Protect and extend the park-like character of the historic circle campus in order to reinforce and enhance the University's distinctive physical identity.
- Enhance the landscape quality south of the Red Cedar River.
- Promote efficient land use that protects existing, and creates new, green space.
- Protect, maintain, and develop the campus as an arboretum to support the University's teaching/learning, research, and outreach mission.
- Provide opportunities for academic and social interaction.
- Provide a variety of open spaces that accommodate the full range of outdoor activity, for example, large athletic fields to intimate spaces for personal reflection and meditation.
- Preserve and protect existing natural areas and enhance their interconnectivity.
- Integrate public art appropriate to surrounding context (excluding Natural Areas).

#### PLANNING PRINCIPLES RELATED TO PARKING

- Safely and efficiently meet the parking needs of faculty, staff, students, and visitors.
- Integrate parking facilities into the campus setting in an aesthetically pleasing manner consistent with its park-like setting.
- Utilize a variety of parking resources including surface lots, decks, and parking garages; emphasize parking on the campus perimeter.
- Provide conveniently located barrier-free spaces across campus.

- Reclaim surface lots for green space and future building sites when appropriate.
- Relocate parking that contributes to unsafe traffic, bicycle, and pedestrian conditions.
- Minimize the loss of open space for small inefficient surface parking lots.
- Connect the campus transit system to major parking facilities.

#### PLANNING PRINCIPLES RELATED TO CIRCULATION

- Emphasize personal safety in the circulation system's planning and design.
- Design all roads as complete streets (designed and operated to enable safe, attractive, and comfortable access and travel for all legal users).
- Provide a safe, efficient, and effective transportation network that enhances the overall quality of life on the campus.
- Incorporate traffic-calming measures where appropriate.
- Plan and design for the following circulation priorities:
  - pedestrians first;
  - bicycles and other forms of non-motorized transportation second;
  - mass transit and service vehicles third; and,
  - private vehicles last.
- Design for the safety of persons with disabilities in accordance with the Americans with Disability Act.
- Reduce private vehicular traffic in academic and residential districts.
- Effectively integrate with the regional transportation system.
- Establish a coordinated bicycle system including bike lanes within roadways, dedicated pathways and/or shared-use pathways, and convenient and appropriately sized storage facilities where appropriate.
- Enable an effective and efficient mass transit system including developing residential neighborhood transit centers to gain transit efficiencies.

# PLANNING PRINCIPLES RELATED TO UTILITY INFRASTRUCTURE

- Develop campus buildings and infrastructure to foster energy conservation.
- Use centralized utility systems wherever feasible to maximize production efficiencies and to minimize life-cycle operational costs.

- Establish consolidated distribution corridors that co-locate utilities and accommodate maintenance with minimal campus disruptions.
- Provide adequate protection and security for critical system components including electric, steam, chilled water, potable water, existing and future water wells, fiber, and natural gas.
- Provide redundancy for steam, electric, water, and communication utilities.
- Enable resource conservation and management through appropriate system design and controls.
- Prepare for developing technologies and their integration into the campus infrastructure.
- Implement practices, install systems, and develop procedures that prolong the capacity of the power plant, increase reliability, protect health and wellness, reduce greenhouse gas emissions, while managing affordability.

## LAND USE RECOMMENDATIONS

#### PROGRAMS AND FACILITIES

# **Academic and Planning Imperatives**

The University's Bolder by Design strategic initiative employs six imperatives to guide the institution's teaching/learning, research, and outreach mission. The campus's physical organization directly and indirectly supports these imperatives.

- Enhancing the student experience
- Enriching community, economic, and family life
- Expanding international reach
- Increasing research opportunities
- Strengthening stewardship
- Advancing a culture of high performance

The Campus Land Use Master Plan recognizes that land utilization must be optimized to support the academic mission; that extensive infrastructure systems are expensive to maintain; and that land conservation, especially in the research farms area, is mission critical. As a result, the plan centers on these smart growth principles:

- Establishing a compact campus composition
- Providing a variety of transportation choices
- Preserving open space, farmland, and critical environmental areas
- Developing a mix of land uses
- Creating a walkable community

# **Facilities Planning Principles**

The University continually examines the capital assets necessary to support academic programs and physical needs that involve new construction, comprehensive renewal, renovation, reprogramming of selected facilities, and renewal of major subsystems in other facilities. The assessment of existing facilities shows that the infrastructure components of many campus buildings have aged significantly. Despite ongoing maintenance and repair that extends the expected usable life of components well beyond industry standards, many buildings are now at a point where they require either significant investment or replacement.

Space planning seeks to support student success, growth of the research enterprise, infrastructure stewardship, and operational efficiencies by:

- aligning space resources with academic framework;
- allocating and utilizing space strategically;
- supporting a range of teaching and research methodologies;
- leveraging emerging technology;
- effecting operational efficiencies and cost effectiveness;
- anticipating evolving teaching and research environments;
- forecasting changes in demand and aging infrastructure;
- providing accessibility based on universal design and inclusion; and
- assessing strategic property acquisitions.

# **Projected Facility Needs**

Michigan State University, through the Office of Planning and Budgets, employs a continuous capital planning process that integrates academic, support, fiscal, and physical planning. Institutional participation in the planning process ensures that consideration is given to relevant issues and that decisions support the University's direction and mission.

Following a very detailed and carefully conceived planning process, it was estimated that the University will need a 10 percent increase in building space over the next 20 years. The growth in space is driven by a planned increase in the number of faculty and the anticipated increase in funded scientific research, selective and qualitative changes in academic teaching programs; enhancement of common facilities that enrich campus life and community; and consolidation and upgrading of operational support facilities.

Capital needs are informed by the Campus Land Use Master Plan and planning activities that occur within major components of the institution at regular cycles throughout the year. These components include the annual academic program planning and review, administrative support planning and review, deferred capital renewal, technology, utility systems, energy and sustainability planning, as well as planning for motorized and non-motorized circulation and open space. In this context, budgetary and fiscal analyses at the local, state, and federal levels are taken into account.

Within each component of planning, a number of more detailed issues are reviewed and examined relative to their impact on facilities over the short and long term. One approach used for this more detailed planning is the Campus Infrastructure Planning Work Group. Bringing together a comprehensive cross section of University constituents, the group evaluates major construction projects on a number of dimensions to ensure conformity with the Campus Land Use Master Plan's planning principles, physical recommendations, and the University Zoning Ordinance as adopted by the Board of Trustees.

As a matter of operating philosophy and practice, facility planning encompasses the following issues:

- Renovations, as well as maintenance of existing campus facilities and new construction, are focused to support programs that are central to the University's academic mission.
- A fundamental guiding principle is that planning is holistic and comprehensive. In addition to capital renewal of existing facilities, academic program needs are considered and facility adaptation is planned accordingly. A premium is placed on reuse of existing facilities, on conservation of open space, energy conservation, and on health, safety, security, and regulatory requirements. Barrier-free modifications are given priority, and needs related to technology are considered. Where appropriate, fixed building equipment, particularly for laboratories and classrooms, is included in the plans.
- New construction and renovation of existing facilities are planned so a project's
  financial investment actively reflects the life cycle of the facility in relation to the
  needs of the program, while providing flexibility in the structure to accommodate

- potential changes over the longer term. Through the "least life cycle cost analysis," facilities are positioned to be responsive to immediate programmatic needs, as well as longer-term adaptation needs brought about by changes in programs, advances in technology, and related issues.
- The least life cycle cost analysis also enables project development to focus on designs that reduce the ongoing maintenance cost of facilities. Within this context, MSU's high-quality construction standards intentionally create plans and assemble materials that "design out" as much near and long-term maintenance as possible. In summary, the anticipated expenses of a facility over its life cycle are carefully considered in relation to the initial investment in design and materials. Project decisions made within the context of MSU's construction standards may, in some cases, be viewed as more expensive initially but, in practice, actually reduce the total cost of ownership.

# **Future Building Opportunities**

Future building opportunities are depicted on two graphics. The first entitled Building Framework, illustrates future opportunities that do not require major demolition of existing facilities. The second graphic, entitled Major Redevelopment Opportunities, explores additional development parcels that will require careful assessment of existing facilities relative to highest and best land use, program relocation, deferred maintenance needs, and facility replacement costs. Both graphics employ the smart growth strategy of carefully conceived building "infill" to maximize land use capacity through greater building density.

The plans illustrate where future buildings can be assimilated into the campus context while reinforcing the Campus Planning Principles and University Zoning Ordinance. As such, the plans do not dictate when and where growth will occur, rather they identify development opportunities that can be evaluated to address specific programmatic needs when a project is identified and funding secured.

Each numbered site is measured and a potential building gross square foot yield is estimated by incorporating zoning allowances and important contextual features. Where development opportunity land areas are too large, and architectural speculation is not definable, a floor area ratio planning metric is assigned to estimate future building square footage.

Based on this assessment, the following quantifies future building opportunities for the campus lands north of Mount Hope Road. The estimated net potential represents future building opportunities less any existing building demolition. The campus has historically added, on average, approximately 2.0 million gross square feet (MGSF) every decade. At that rate, the net opportunities support nearly 58 years of future growth assuming each site is developed to its optimal capacity and all redevelopment zones are strategically implemented.

The following identifies future development potential based on opportunities that do not require significant redevelopment or removal of existing facilities.

Zoning Designation	<b>Estimated Gross Potential</b>	<b>Estimated Net Potential</b>
North Academic District	405,350 GSF	405,350 GSF
Central Academic District	1,832,615 GSF	1,832,615 GSF
South Academic District	2,457,686 GSF	2,457,686 GSF
Mixed Use District	4,538,950 GSF	3,733,890 GSF
Athletic/Recreation District	429,800 GSF	429,800 GSF
Service District	835,100 GSF	824,235 GSF
Residential District East	130,000 GSF	130,000 GSF
Total Opportunity (w/o re	development) 10,638,715 GSF	9,813,576 GSF

Adding in all redevelopment opportunities, the estimated future development potential increases as noted below.

Zoning Designation	<b>Estimated Gross Potential</b>	<b>Estimated Net Potential</b>
North Academic District	845,350 GSF	532,340 GSF
Central Academic District	3,560,115 GSF	3,169,583 GSF
South Academic District	2,457,686 GSF	2,457,686 GSF
Mixed Use District	4,538,950 GSF	3,733,890 GSF
Athletic/Recreation District	524,300 GSF	524,300 GSF
Service District	901,850 GSF	873,143 GSF
Residential District East	642,750 GSF	231,582 GSF
Total Opportunity (with r	redevelopment) 13,480,215 GSF	11,522,524 GSF

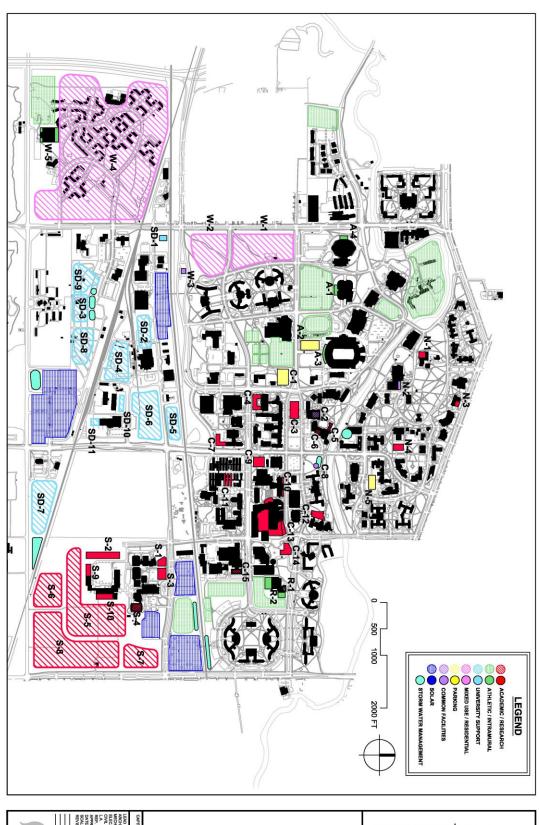
## STRATEGIC LAND ACQUISITION

The University continually assesses land adjacent to the campus for acquisition to meet academic and research needs. The existing USDA Avian Disease and Oncology Lab at Harrison and Mount Hope Roads is a land acquisition priority due to its strategic location within the contiguous campus boundary. The University has communicated its intent to reacquire this parcel to congressional representatives and will communicate with the United States Department of Agriculture when a formal decision to relocate the facility is announced.

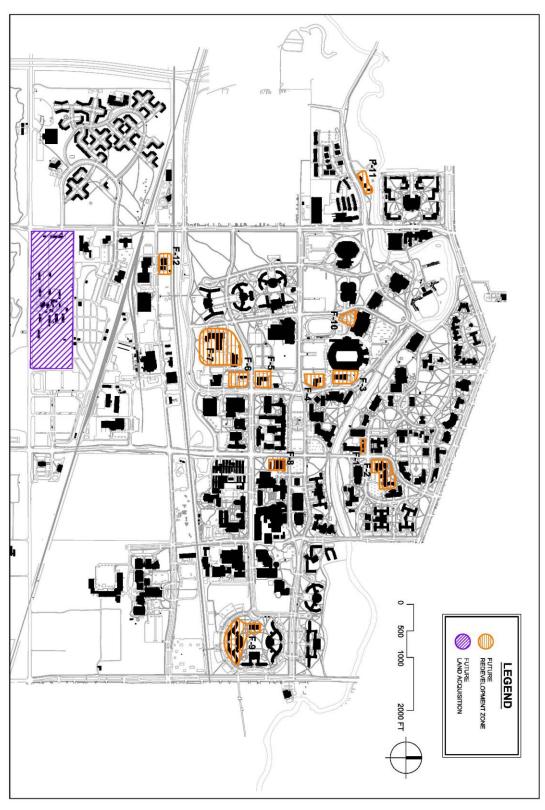
# 100-YEAR FLOODPLAIN AND STORM WATER MANAGEMENT

Campus land is reserved to provide future storm water management facilities that will address municipal storm water regulations under the Clean Water Act. Individual building projects are evaluated by the University Engineer and a technical work group to assess its ability to meet current storm water management regulations on site. If a project cannot meet its requirements on site, due to existing development constraints or other unique project attributes, then the University has the option of utilizing a sub watershed facility in another location on campus per Michigan Department of Environmental Quality agreements.

Two important Campus Land Use Master Plan recommendations will help reduce the impact on the Red Cedar River. First, the removal/relocation of Parking Ramp #2 (Auditorium Road) will convert a sizeable amount of land back to its function as floodplain. Second, the removal and relocation of approximately 1,000 surface parking spaces in the Central Academic District will remove an existing land use that has negative impacts both in terms of storm water quantity and quality.





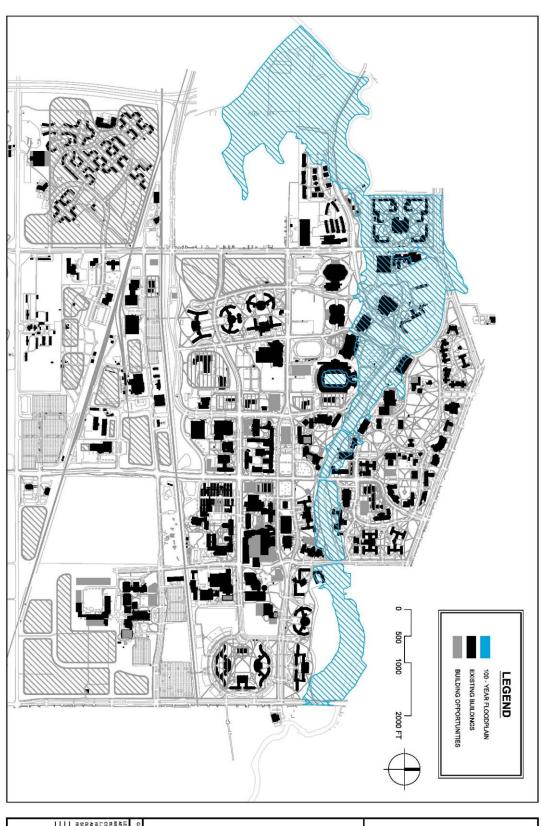




Control   Cont											
Common   C			Estimated	Proposed	Potential	Footprint	Proposed	Potential	GSF	GSF	Notes
NORTH ACADEMIC OST RICET	District	# Project	Envelope	Utilization (%)	Footprint	Demolition	Height	GSF			Notes
Celebro of Manch Addition  1, 14,000  1, 14,000  1, 17,				(,							
Library Addition	N		14 200	0.75	10.650		4	53.250		53.250	Restrict buildings from Adams Field
Annual Entities   1,700   1   7,700   1	N	2 Library Addition	8,400	1	8,400		4	42,000		42,000	
1   1   2   Anhroy Carage   15   500   50   50   50   50   50   5	N		7,700		7,700						
Center full Office Wing Reperceptance   1	N		22,000		17,600		4	88,000			
The Authority   17,000   2.4   60,000   69,994   4   340,000   593,000   5	N										
Control Published	F				20,000			100,000			Demolish Bessey Hall north wing
CENTRAL ACADEMIC OST RICET	F	2 New Academic Building	170,000	0.4	68,000	-55,974	4	340,000	-253,010	86,990	Demolish Giltner Hall
CENTRAL ACADEMIC OST RICET		District Subtotal			162 050			945 250		F22 240	
Company   Comp	CENTRA				102,930			645,330		332,340	
Particularional Center Verf. Fearmison   10,000   1   10,000   1   10,000	CENTRA		63 000	0.0	E6 700		6	240 200		240 200	1100 encess envis
Teller Assemble Building	C	2 International Center Vert Evnansion									1100 spaces approx.
Comparing Addition   175,000   176	č	3 New Academic Building		0.75							
Circles Conflow Vertical Expension	c t	4 Engineering Addition									
Erickson Front Vertical Eparesion 7,000 1 1 7,000 2 1 14,000 1 14,000 1 16,	c	5 Erickson Office Vertical Expansion		1	8,800		2	17,600		17,600	
Company   Comp	C	6 Erickson Front Vertical Expansion						14,000			
New Auderina Building	С			0.9							
Chemistry Additions (Earl & West)	С	8 Special Feature	6,000	1	6,000						Possible amphitheater/stage
Greenbouse Expansion	С						6	199,500			
Business College Granulate Parvision   24,000   1   24,000   4   06,000   56,000   75   15   15   15   15   15   15   15	C	10 Chemistry Additions (East & West)									
File Expension	6	Greennouse Expansion			28,000					28,000	Per I MN program
New Academic Building   32,000   0.75   24,000   0.15,700   73,0	č	13 FRIR Expansion		1							Per R. Rull
Veterinary Oncology Vet. Espansion	c l		32 000	0.75	24 000			168 000		168 000	. G. S. Dull
Part   Section	c										
	F	3 New Redevelopment Zone							-70,035		Demolish Central Service, per HOK study
F   New Academic Building   \$7,000   0.25   23,750   45,700   6   102,720   10,808   12,555   6	F	4 Shaw Power Plant Redevelopment	80,000	0.25	20,000	-13,234		140,000	-40,661	99,339	Repurpose or demolish existing plant
New Academic District	F		87,000	0.25	21,750	-18,634		152,250	-47,013	105,237	Demolish existing UPLA building
B New Academic Dubling (	F					-6,700			-19,896		
District Substoad   Self-197	F					-88,371			-131,298	591,702	Demo IPF and LS
SOUTH ACADEMIC DISTRICT  9	F	8 New Academic Building	61,000	0.75	45,750	-47,352	6	274,500	-81,629	192,871	Demolish Farrall Hall and Storage Building
SOUTH ACADEMIC DISTRICT  9	_				004407			0.500.445		0.400.500	
Life Science Addition	-				684,137			3,560,115		3,169,583	
New Academic Building	SOUTH		22 222		20.700			444.000		444.000	
New Academic Expansion   30,000   11   30,000   15   30,000   10   30,000	8										Assume the standard block to a second
Radiology Verbrail Expansion   30,000   1   30,000   1   30,000	•									171,000	Assume two-story or high-bay massing
New Academic Zone	2		30,000	1							
New Academic Zone	s			0.75							Assume FAR @ 0.75 with surface parking
New Academic Zone	S		300,000	0.75			1				
Automotive Research Addition	S		234,000		58,500			175,500		175,500	Assume FAR @ 0.75 with surface parking
Fraunhofer Addition	8		1,085,000		271,250	-3,724	1		-9,214	804,536	Assume FAR @ 0.75, remove misc. structures
District Subtotal   S14,700   2,466,900   2,457,686	S										
RESIDENTIAL DISTRICT EAST   4,000	S	10 Fraunhofer Addition	34,000	0.9	30,600		1	30,600		30,600	No basement
RESIDENTIAL DISTRICT EAST   4,000											
R         1 IM East Vertical Expansion         4,000         1 d,000         1 d,000         4,000 l         2 IM East Additions         42,000         0.75         31,500         3 128,000         128,000         128,000         Per	DECIDE				814,700			2,466,900		2,457,686	
R         2   M East Additions         42,000         0.75         31,500         3 120,000         128,000         128,000         District Subtoral         10,555         6 512,750         411,168         101,582         District Subtoral         10,8750         484,750         231,582         District Subtoral         48,750         483,500         483,500         Assume FAR @ 0.75 with surface parking         Assume	RESIDE		4.000		4.000			4.000		4.000	
Per Hall Redevelopment   293,000	R	1 IM East Vertical Expansion		0.75	4,000						
District Subtotal   108,750   642,750   231,582	E					-94 055			-411 168		Demo Conrad and Fee Hall
MIXED USE DISTRICT     483.500		o i ce nam redevelopment	200,000	0.23	10,200	04,000	- v	512,750	411,100	101,002	Demo Comac and recental
MIXED USE DISTRICT     483.500		District Subtotal			108,750			642,750		231,582	
New Mixed use	MIXED U										
1	W		618,000	0.75	tbd		1	463,500		463,500	Assume FAR @ 0.75 with surface parking
1	W	2 New Mixed use	447,000	0.75	tbd			335,250		335,250	Assume FAR @ 0.75 with surface parking
Second   S	W				7,200					7,200	No basement
Part	W			0.75					-793,857		Assume FAR @ 0.75, demo apts.
District Subtotal   35,200   4,538,950   3,733,890	W		28,000	1	28,000	0.4:-		28,000	44.055		
ATHLETIC AND REGREATION DISTRICT   25,000   1 25,000   50,000   50,000   7 arking Garage   62,000   0.9   55,800   6 334,800   334,800   334,800   334,800   334,800   334,800   334,800   334,800   334,800   334,800   334,800   334,800   334,800   334,800   10,000   1 1,000	-	11 Demontion Zone	63,000	0.5	0	-8,149	0	0	-11,203	-11,203	riood plain limitations, no basement
ATHLETIC AND REGREATION DISTRICT   25,000   1 25,000   50,000   50,000   7 arking Garage   62,000   0.9   55,800   6 334,800   334,800   334,800   334,800   334,800   334,800   334,800   334,800   334,800   334,800   334,800   334,800   334,800   334,800   10,000   1 1,000		District Subtotal			35 200			4.538 950		3,733,800	
Munn Addition   25,000   1   25,000   2   50,000   50,000   50,000   7   7   7   7   7   7   7   7   7	ATHI ET				35,200			4,550,850		3,133,030	
A 2 Parking Garage 62,000 0.9 55,800 6 334,800 334,800 1,000 spaces approx.  A 3 South Stadium Addition 55,000 1 35,000 1 35,000 1 35,000 1 35,000 1 1,000 spaces approx.  A 4 Presin Addition 10,000 1 10,000 1 10,000 1 10,000 1 10,000 1 10,000 1 10,000 1 10,000 1 10,000 1 10,000 1 1 10,000 1 1 10,000 1 1 10,000 1 1 10,000 1 1 10,000 1 1 10,000 1 1 1 1	A	1 Munn Addition	25 000	1	25 000		2	50 000		50 000	Per athletic's program
A 3 South Stadium Addition	A				55,800		6				1.000 spaces approx.
A   Breslin Addition   10,000   1   10,000   1   10,000   10,000	A		35.000		35,000					35,000	Per athletic's program
District Subtotal	A		10,000		10,000			10,000		10,000	
District Subtotal	F	10 IM West Expansion/Renovation	63,000	0.75	47,250		2	94,500		94,500	Expansion of IM West
SERVICE   DISTRICT	-										
1 New Support Building					173,050			524,300		524,300	
2   Simon Power Plant Addition   138,000   0.75   103,500   1   103,500											
SD         3 Future Development Zone         142,000         0.35         49,700         4,620         1         49,700         4,872         44,828         Assume FAR @ 0.35, demo misc. structures           SD         4 Future Development Zone         280,000         0.35         91,000         1         91,000         4,875         43,750 <td>SD</td> <td>1 New Support Building</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SD	1 New Support Building									
Future Development Zone   260,000   0.35   91,000   1   91,000   91,000   83sume FAR @ 0.35		2 Simon Power Plant Addition		0.75	103,500			103,500		103,500	
SD         5 Future Development Zone         125,000         0.35         43,750         1 43,750         43,750         43,750         Assume FAR @ 0.35           SD         6 Future Development Zone         396,000         0.35         138,600         1 138,600         138,600         383,600         138,600         383,600         138,600         383,600         122,500         122,500         122,500         122,500         122,500         4,778         1 81,200         4,778         1 81,200         4,786         76,414         Assume FAR @ 0.35									-4,872		Assume FAR @ 0.35, demo misc. structures
SD   6 Future Development Zone   396,000   0.35   138,800   1   138,800   138,600   138,600   138,600   35   35   36   36   36   36   36   36		4 Future Development Zone									Assume FAR @ 0.35
Future Development Zone   350,000   0.35   122,500   1   122,500   1   122,500   350,000   0.35   122,500   1   122,500   350,000   3					120 600						Assume FAR @ 0.35
SD         8 Future Development Zone         232,000         0.35         81,200         4,778         1         81,200         4,786         76,414         Assume FAR @ 0.35, demo misc. structures           SD         9 Data Center         181,000         0.35         63,350         -1,207         1         63,350         -1,207         62,143         Assume FAR @ 0.35, demo misc. structures           SD         10 Future Development Zone         24,000         0.75         18,000         4         72,000         72,000         72,000           SD         11 Recycling Center Addition         10,000         1         10,000         1         10,000         1         10,000           F         12 New Academic Zone         89,000         0.75         66,750         -17,792         1         66,750         -17,842         48,908           District Subtotal         800,250         901,850         873,143											
SD         9 Data Center         181,000         0.35         63,350         -1,207         1         63,350         -1,207         62,143         Assume FAR @ 0.35, demo misc. structures           SD         10 Future Development Zone         24,000         0.75         18,000         4         72,000         72,000         72,000           SD         11 Recycling Center Addition         10,000         1         10,000         1         10,000         10,000           F         12 New Academic Zone         89,000         0.75         66,750         -17,792         1         66,750         -17,842         48,908         Assume FAR @ 0.75, demolition of housing office           District Subtotal         800,250         901,850         873,143         873,143						-4 778			-4 796		Assume FAR @ 0.35 demo misc structures
10   Future Development Zone   24,000   0.75   18,000   4   72,000   72,000     10   Regycling Center Addition   10,000   1   10,000   1   10,000     12   New Academic Zone   89,000   0.75   66,750   -17,792   1   66,750   -17,842   48,908     13   New Academic Zone   89,000   0.75   66,750   -17,792   1   66,750   -17,842   48,908     14   District Subtotal   800,250   901,850   873,143	SD										Assume FAR @ 0.35, demo misc. structures
SD         11 Recycling Center Addition         10,000         1 10,000         1 10,000         1 10,000         1 10,000         1 10,000         1 10,000         1 10,000         1 10,000         1 10,000         1 66,750         -17,842         48,908         Assume FAR @ 0.75, demolition of housing office           District Subtotal         800,250         901,850         873,143         873,143	SD								1,207		and the state of t
F         12         New Academic Zone         89,000         0.75         66,750         -17,792         1         66,750         -17,842         48,908         Assume FAR @ 0.75, demolition of housing office           District Subtotal         800,250         901,850         873,143	SD	11 Recycling Center Addition		1	10,000						
	F			0.75			1		-17,842		Assume FAR @ 0.75, demolition of housing office
	- 1	I O I AL GSF			2,779,037			13,480,215		11,522,524	

Key:	
	Academic / Research
	Athletic / Intramural
	University Support
	Mixed Use / Residential
	Parking
	Common Facilities
	Solar
	Stormwater Management
	Future Redevelopment Opportunities

Potential building GSF includes above ground stories as indicated plus basement unless indicated.



## OPEN SPACE AND LANDSCAPE

# THE CAMPUS AS AN ARBORETUM

In 1980, President John A. Hannah remarked, "Long ago it was planned that the campus should be an outdoor laboratory, with all the variety of trees, shrubs, and woody plants that could be made to grow in Michigan, labeled and tagged not only for students in botany and silviculture and landscape architecture, but for all students and faculty and people in the community."

President Hannah was reflecting on Professor William Beal's 1872 proposal for a campus arboretum. Professor Beal hoped this would lead to a more formalized campus tree planting program. At the time, trees were grown in an arboretum located between what are today, Mary Mayo and Campbell Halls; from there they were transplanted across campus. Professor Beal conducted the first inventory of campus trees in the 1880's and began the labeling program identifying trees by common name, scientific name, family, and geographic origin, a program which continues today (Telewski 2010). As envisioned by Professor Beal, the campus arboretum serves as a valuable resource for teaching, research, and outreach.

The MSU campus is renowned and beloved by students, faculty, staff, alumni, and visitors. As such, detailed recommendations are required to protect and enhance its open space and landscape aesthetic while maintaining an appropriate balance with the evolving built environment.

The Campus Land Use Master Plan provides a unifying vision for the campus open space and landscape aesthetic. The plan directs stewardship and preservation of the historic campus park and guides future enhancement of the built environment, including the campus as an arboretum for teaching, research, and public outreach.

#### PROTECTED GREEN SPACE

Based on a detailed classification for the open space system, the following areas are deemed sensitive to development and are subject to protection from any new building footprint or material change to the campus landscape under the definitions and regulations of the University Zoning Ordinance.

Component 1 areas identify and protect landscape areas that have an ecological or historic aspect. Component 2 areas identify and protect green space that provides a unique programmatic or research land use.

#### DISTRICT CHARACTERISTICS AND PLANNING GUIDELINES

#### **Historic and Historic Contributing**

The park-like setting that students, alumni, and visitors endear is directly influenced by the historic campus landscape(s). The West Circle Drive area from Grand River Avenue to the Red Cedar River and from the Beal Entrance to the Lab Row building group is the site of the

original built campus founded in 1855. The prairie-style landscape and informal grouping of buildings provides a picturesque campus park, unique among American college campuses. The trees and undulating lawns within the West Circle Drive area were recognized by O.C. Simonds as "sacred space" (circa 1905). The historic landscape shall be protected from future development and enhanced through landscape stewardship.

#### Park-Like Academic

The academic districts of campus, comprised of a diverse collection of trees and shrubs, lend themselves to supporting teaching, research, and student life activities.

The Prairie School patterning of "sun openings" is prevalent in the North Academic District. This concept consists of creating alternating areas of deep shade and sunlit lawns that are reminiscent of the indigenous savannah that once covered much of the northern Midwest. The trees and undulating lawns within the Circle Campus area were recognized by O.C. Simonds as "sacred space" (circa 1905) and remain so today.

The extensive roadway network and large building massing within the Central Academic District creates an intensive built aesthetic that requires substantial landscape interventions to mitigate for human comfort. Much of what a pedestrian perceives is strongly influenced by the adjacent roadways and architectural design. Therefore, a strong streetscape and front-yard landscape is essential to mitigate these elements and to properly transition the landscape scale from the roadway to the building entrances. Special focus should be on safety and providing a pleasant experience and sense of scale along pedestrian walkways.

The South Academic District is defined by large architectural structures that collectively do not provide a sense of place or a pleasant relationship with the pedestrian realm. This requires that the landscape mitigate for this poor composition; creating a comfortable pedestrian environment. The landscape needs to be strengthened to better unify the visual aesthetic and to provide places for social interaction, academic collaboration, and personal health/relaxation.

#### Park-Like Residential

Approximately 17,500 students call the University's seven residential neighborhoods home. The landscape design for the neighborhoods must address a wide variety of issues including: scale transition, screening of service functions, providing room for informal recreation, and more intimate areas for relaxation and mental restoration. Transitioning the scale from large roadway spaces to more intimate building entrances is important in the front yards. Recreational amenities and areas for personal relaxation are appropriate in the back yards.

# Park-Like Service

The Campus Land Use Master Plan strategizes consolidating support services south of the Canadian Northern railroad tracks. The landscape should reinforce this area as a vital part of the overall campus, while acknowledging its purpose and functionality.

#### **Athletic and Recreation**

Intercollegiate athletics and intramural recreation activities require a landscape capable of handling large volumes of people, heavy foot traffic, and various activities that can stress the landscape (e.g., event parking on intramural fields). While the venues themselves require a very utilitarian design, this must be balanced with the fact that they are also gateways for thousands of visitors each year, and as such, must present a high quality aesthetic that properly represents the University along with mitigating for each venue's architectural scale.

#### **River Corridor**

The Red Cedar River is an iconic campus element that is a core attribute of the campus park. It is an active natural system that is constantly impacting the campus landscape. A large collection of ash trees inhabit the river corridor and with the ongoing destruction by the Emerald Ash Borer, most of these will not survive. The University needs to invest in the river corridor from a historic, cultural, aesthetic, and environmental perspective.

# **Signature Landscapes**

Signature landscapes are focal points throughout the campus. They vary in size and purpose; are associated with a heightened design aesthetic; utilize high-quality materials; are often associated with public art, fountains, or historic features; include irrigation; and, demand elevated maintenance standards and practices. They are important for encouraging community interaction and can be considered as eddies within the larger campus park wherein people can slow down and enjoy a more intimate sense of scale. Signature landscapes require either priority or elite maintenance levels.

#### **Gardens and Arboreta**

These areas are delineated and overseen by a curator or established administrative group. They are actively designed, planted, and managed - not naturalized. A primary goal for the use of these areas is education and research with elite maintenance required to sustain the integrity of the plantings and collections.

#### **Natural Areas**

The natural areas are designated by Board of Trustee action and are overseen by the Campus Natural Areas Committee. They are classified into three categories of protection and academic use based on their overall quality and their potential for sustained use. They serve as protected examples of Michigan's native landscape and wildlife.

# **Conservation and Demonstration**

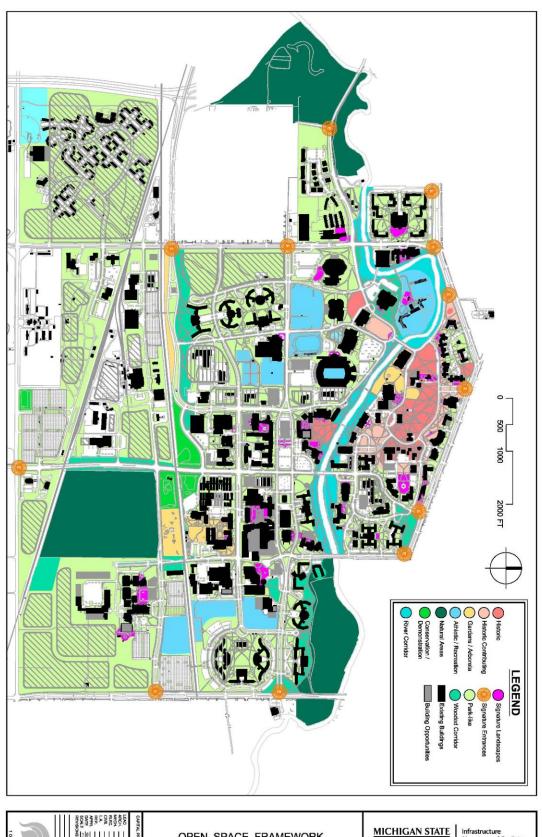
Conservation and demonstration areas are built landscapes for the purpose of storm water management, education, and research. They are actively designed, planted, and managed, requiring a moderate amount of maintenance to ensure integrity of the plantings and operation of the storm water management features.

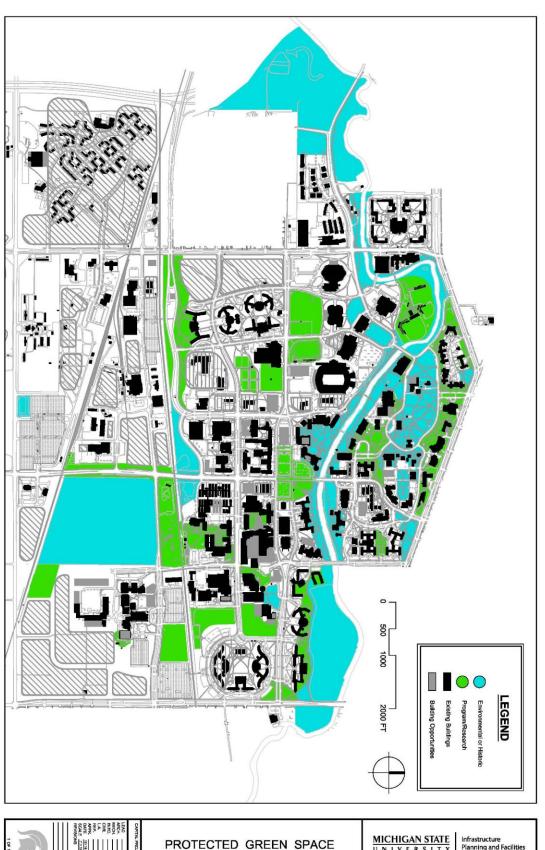
# **Campus Entrances**

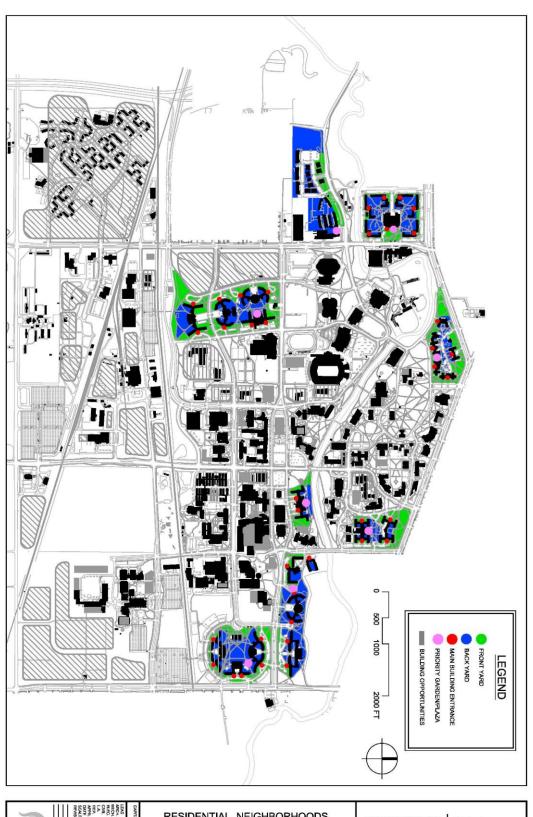
Campus Entrances (vehicular and pedestrian) provide an opportunity to strengthen the University's image and reinforce its reputation for excellence. High quality landscape design and maintenance practices (elite and priority) are required. Consistent signage and a homogeneous landscape treatment are desirable for assisting visitor wayfinding and the efficient movement of goods and services.

# **Streetscapes**

The campus roadway system provides approximately 18 miles of opportunity to establish a quality image for the University. The streetscape (the landscape setting adjacent to the road) must address numerous design issues, including safety, image, environmental sustainability, and wayfinding all within what is often a harsh growing condition.







# MOTORIZED CIRCULATION FRAMEWORK

#### **NEAR-TERM PRIORITIES**

The following motorized projects and initiatives are anticipated in the near term (five- to tenyear planning horizon).

- Develop a comprehensive mobility plan that addresses the movement of people to, from, and around campus.
- Extend Wilson Road to Hagadorn Road with the goal of improving safety by reducing traffic within the East Residential District, relocating parking adjacent to Fee Hall, and providing a signalized intersection to aid pedestrians crossing Hagadorn Road.
- Remove Parking Ramp #2 when engineering analysis directs and restore the river floodplain. Address parking replacement consistent with the mobility plan (under development) and planning principles guiding more parking on the campus periphery.

#### LONGER-TERM OPPORTUNITIES

The following projects should be considered in long-range planning to address various motorized circulation issues.

- Redesign the Farm Lane and Grand River intersection including a new traffic signal at East Circle Drive to improve operational efficiency and safety.
- Reconstruct the section of Farm Lane between North and South Shaw Lane to provide appropriate vehicular turning movements and bike lanes.
- Extend Bogue Street through the South Academic District as a two-lane roadway with center-turn lane as required.
- Redesign the Bogue Street and Service Road intersection, removing the awkward transition from the boulevard cross section.
- Extend East Crescent Road through the former Agriculture Exposition site.
- Reconfigure Red Cedar Road to provide greater distance from the Kalamazoo and Beal Streets intersection.
- Close the segment of North Shaw Lane between Red Cedar and Science Roads to private automobile traffic, change South Shaw Lane into a two-way street, and relocate surface parking.

#### NON-MOTORIZED CIRCULATION

#### NEAR-TERM PRIORITIES

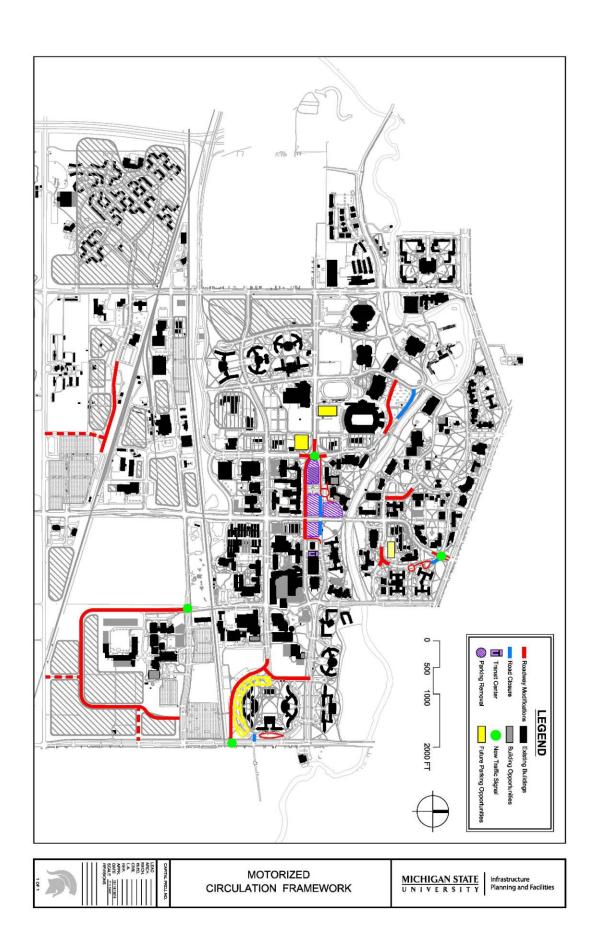
The following non-motorized projects and initiatives are anticipated in the near term (five- to ten-year planning horizon).

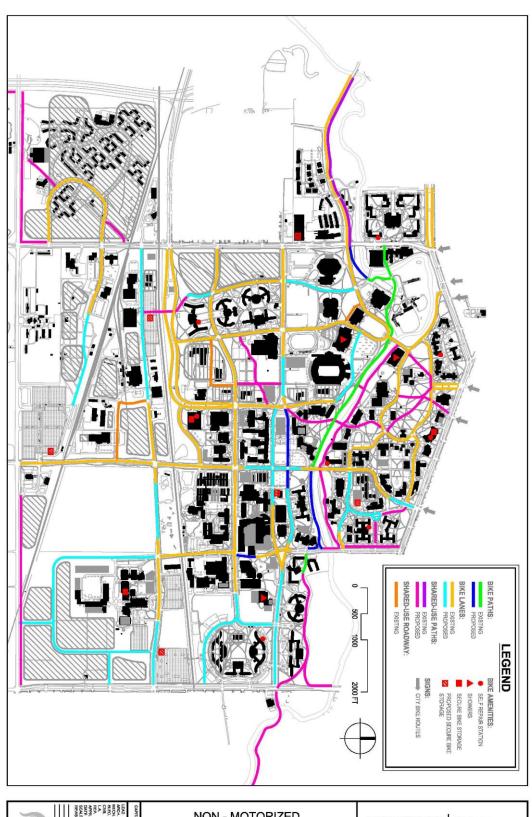
- Continue to design all roadways as complete streets in accordance with State of Michigan Public Acts 134 and 135 of 2010 wherein all roadways are to be planned and designed to meet the needs of all legal users.
- Continue to meet the needs of persons with disabilities working through the Accessibility Committee that includes IPF, FPSM, RCPD, RHS, and athletics.
- Continue bringing crosswalk pathway ramps up to ADA standards (e.g., maximum slopes, truncated domes).
- Provide infrastructure to support a suite of transportation options that discourage single-occupancy vehicle trips to, from, and around campus (e.g., CATA Clean Commute and Zipcar car-sharing programs) in alignment with the mobility plan.
- Fund and construct the final segments of the MSU River Trail.
- Enhance and expand bicycle parking within the academic and residential districts with a goal to accommodate 30% of the resident population.

#### LONGER-TERM OPPORTUNITIES

The following projects should be considered in long-range planning to address various non-motorized circulation issues.

- Study and implement site improvements at the southwest corner of Chestnut Road and Shaw Lane to curtail existing J-walking and to enhance pedestrian safety.
- Convert dirt-worn paths to permanent walkways.
- Continue working with the City of Lansing, City of East Lansing, and Meridian Township on interconnecting campus and municipal trail systems.
- Construct an accessible route from Bessey Hall under the Farm Lane Bridge to Auditorium Field.
- Continue working with the City of East Lansing on reconstructing the Bogue Street bridge over the river and incorporating the MSU River Trail along the river and east of Van Hoosen Hall.
- Develop a system of sidewalk shared-use pathways along major bicycle travel routes not adjacent to roadways.
- Establish a pedestrian and bicycle pathway along with the North Shaw Lane road closure between Red Cedar Road and Science Drive.
- Consider protected bike lanes where enhanced safety is required.





# MICHIGAN STATE UNIVERSITY ZONING ORDINANCE

# **CERTIFICATION**

I HEREBY CERTIFY that the following Act to Codify Regulations Affecting Campus Planning, Designating Land Area Uses, Establishing a Campus Land Use Master Plan, and Providing for the Administration Thereof, for the Benefit and Protection of the Property of the Board of Trustees of Michigan State University, was passed by the Board of Trustees at a meeting duly called and held at East Lansing, Michigan, on the seventeenth day of February, 2017, at which a quorum was present and voted.

Bill Beekman, Vice President and Secretary of the Board of Trustees

Dated: April 19, 1968

Revision Date: February 17, 2017

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AN ACT TO CODIFY REGULATIONS AFFECTING CAMPUS PLANNING, DESIGNATING LAND AREA USES, ESTABLISHING A MASTER PLAN, AND PROVIDING FOR THE ADMINISTRATION THEREOF, FOR THE BENEFIT AND PROTECTION OF THE PROPERTY OF THE BOARD OF TRUSTEES OF MICHIGAN STATE UNIVERSITY, PURSUANT TO AUTHORITY CONFERRED BY THE CONSTITUTION AND STATUTES OF THE STATE OF MICHIGAN.

#### 1.00 - STATEMENT OF PURPOSE

1.1 The Board of Trustees of Michigan State University believes that regulations are essential to preserve the campus environment of spaciousness and landscape beauty, promote order and unity, and minimize congestion on the property governed by the Board, and to provide guidelines affecting the improvement thereof, the Board hereby adopts the following provisions:

#### 2.00 - EFFECTIVENESS OF ORDINANCE

2.1 This ordinance became effective at 12:01 a.m. September 1, 1968. This Ordinance is coordinated with and becomes an integral part of the Campus Land Use Master Plan and all updates.

#### 3.00 - AUTHORITY OF BOARD OF TRUSTEES

3.1 This ordinance is enacted by the Board of Trustees of Michigan State University pursuant to, and in accordance with, the authority and responsibility of said Board contained in the Constitution of the State of Michigan and Public Acts relating thereto.

#### 4.00 - DEFINITIONS

- 4.1 The term "institution" pertains specifically to Michigan State University at East Lansing, Michigan.
- 4.2 The term "academic use" encompasses any building or portion thereof that is used for the teaching of classes, research facilities and administrative and operational facilities, or any similar function and use for the educational and research purposes of the institution.
- 4.3 The term "building" refers to principal-use and accessory structures, and all attached architectural elements including stairs, areaways, ramps, and retaining walls that are integral to the design and function of the building.
- 4.4 The term "accessory building" includes a subordinate building or portion of a main building, located within the same block or district, which is secondary in nature to the principal use.
- 4.5 The term "accessory use" refers to a use that is subordinate to the principal use within the same block or district, comprising purposes secondary in nature to those of the principal use.
- 4.6 The term "ground area of a block" includes all land from the centerline of adjacent streets and roads or abutting use area established by description on the Zoning District Map. Such lines may be established by curb lines, section lines, institution property lines, other property lines, or those lines as shown and described on the Zoning District Map which is a part of this ordinance.
- 4.7 The term "curb line" is defined by the back of curb on either side of a road that is used for the general movement of motor vehicles, and encompasses those existing or extended, but does not include the curb line of parking bays, bus turnouts or similar variations. If no curb exists, the location of a proposed curb will be considered as the curb line. All setbacks are measured from the back of curb.
- 4.8 The term "nearest roadway" means that road which lies nearest any side of a building that is used for the general movement of motor vehicles, and does not include service drives or related variations thereof.

- 4.9 The term "non-conforming use" includes any building or land occupied and used at the time of the original adoption of this zoning ordinance which use does not conform with the use regulations established therefore.
- 4.10 The term "coverage" refers to the amount of ground area covered by buildings within a specified block of land defined by the adjacent roadway centerlines.
- 4.11 The term "protected green space" includes any land area essentially kept in an open lawn, wooded or landscaped condition, that is free of parking and buildings, and reserved for the general use and enjoyment by students, faculty, staff, alumni, and the general public. Protected green space areas may include recreation fields, walkways, bicycle paths, bicycle parking, bridges, sculpture, pavilions, amphitheaters and other related structures that are compatible with the purpose of these areas.
- 4.12 The term "service use" refers to any building or land area that is primarily involved with utility services and functions, and other accessory uses essential to the operation of the institution.
- 4.13 The terms "story" and "story height" refer to that portion of a building that is included between the surface of any floor and the surface of the next floor above it.
- 4.14 The term "setback" refers to the dimension between a building and the adjacent roadway curb line.
- 4.15 The terms "footprint" and "footprint change" refers to existing buildings or the modification of any existing building's footprint.
- 4.16 The term "material change to the campus landscape" refers to all new buildings. It also refers to new constructed site features deemed of significant impact to the campus landscape by the Zoning Administrator.

#### 5.00 - GENERAL REGULATIONS

- 5.1 Footprint Change: The modification of any existing building footprint requires BOT review.
- 5.2 Material Change to the Campus Landscape: All new buildings require BOT review. Any non-building project that has a significant impact on the campus landscape, and not already covered by the BOT project authorization process, will be identified by the Zoning Administrator and referred to the Vice President and Secretary of the Board of Trustees for clarification regarding the need for BOT action.
- 5.3 Districts Established: In order to regulate and restrict the location of buildings and other structures erected or altered for specified uses, the campus is hereby divided into the following Zoning Districts:

AC-N	North Academic District
AC-C	Central Academic District
AC-S	South Academic District
R	Residential District

AR Athletic and Recreation District

SE Service District N Natural Areas District

AG Agricultural and Natural Resources District

MU-N North Mixed Use District
MU-S South Mixed Use District

- 5.4 Area Boundaries: The boundaries of Zoning Districts are established on the Zoning District Map attached hereunto and made a part hereof, and all notations, references, and other descriptions contained thereon are made a part of this ordinance.
- 5.5 Compliance: Except as herein provided, no land shall be used, and no building shall be erected, converted, enlarged, reconstructed, or substantially altered, which does not comply with the district regulations established by this ordinance for the district in which the building or land is located.

- 5.6 Essential Utility Services: Structures required in conjunction with the distribution and maintenance of essential utility services may be permitted in any location when approved by the Zoning Administrator (refer to Section 7.0 Administration), who shall submit a determination of necessity to the Vice President and Secretary of the Board of Trustees for clarification regarding the need for BOT action.
- 5.7 Except as provided herein, no buildings, roads or parking spaces shall be located in the Protected Green Space areas designated within the Zoning Districts as shown on the Protected Green Space map. The design of all elements proposed within the protected areas shall be approved by the Zoning Administrator. Such elements include walkways, bridges, sculpture, pavilions, amphitheaters, bicycle storage, essential utility services, storm water management features, and modifications to pre-existing disallowed elements such as parking lots, roads, and service drives. Expansion of existing buildings that abut Protected Green Space areas requires approval from the Zoning Administrator and shall be allowed only when other alternatives are proven to be unreasonable and when the expansion will only cause a minor change in the character of the Protected Green Space.

#### 6.00 - DISTRICT REGULATIONS

- 6.1 "AC" Academic Districts: The following provisions shall apply to the Academic Districts AC-N, AC-C, and AC-S:
  - 6.1.1 Permitted Uses: Permitted Uses for the AC Districts shall include the following Principal and Accessory Uses. All uses not listed are not permitted in the AC Districts unless otherwise provided for in this ordinance:
    - 6.1.1.1 Principal Uses and Buildings:
      - Teaching facilities, including classrooms, lecture halls, instructional laboratories, and similar facilities used for general educational purposes.
      - Research laboratories, general student facilities other than student housing, faculty
        offices, public/private business incubators, and facilities for administrative and
        operational functions.
    - 6.1.1.2 Accessory Uses and Buildings:
      - Surface parking and parking garages.
      - Uses and structures necessary for the operation of the principal uses and buildings.
      - Recreation fields and buildings.
      - Solar or wind power generation and storage.
  - 6.1.2 Building Height Requirements:
    - 6.1.2.1 All buildings shall be limited to six stories of occupied space plus any required rooftop equipment in Districts AC-C and AC-S, and to four stories of occupied space plus any required rooftop equipment in AC-N.
    - 6.1.2.2 Teaching facilities shall be located in the lowest floors possible, and not above the fourth floor of any building.
    - 6.1.2.3 Parking garages shall be limited to six parking levels above and including the ground level.

- 6.1.2.4 Accessory buildings shall be no higher than necessary to accommodate the proposed use, and under no circumstances shall exceed the height of principal uses in the district.
- 6.1.3 Set Back Requirements: All buildings shall be set back a minimum of 40 feet from the nearest curb line of the nearest roadway.
- 6.1.4 Building Coverage:
  - 6.1.4.1 Buildings shall not cover more than 30% of the ground area of any given block within the AC District unless otherwise specified herein.
  - 6.1.4.2 Buildings shall not cover more than 35% of the ground area of any given block within the specific area defined by Red Cedar Road to the west, the CN Railroad to the south, the Residential District to the east, and South Shaw Lane to the north unless otherwise specified herein.
  - 6.1.4.3 Buildings shall not cover more than 42% of the ground area for the block of land defined by South Shaw Lane to the north, Farm Lane to the west, Wilson Road to the south, and the Residential District to the east.
- 6.2 "R" Residential District: The following provisions shall apply to the Residential District:
  - 6.2.1 Permitted Uses: Permitted Uses for the "R" District shall include the following Principal and Accessory Uses. All uses not listed are not permitted in the R District unless otherwise provided for in this ordinance:
    - 6.2.1.1 Principal Uses and Buildings:
      - Residence halls and facilities used to provide associated services, such as food services, and health and wellness.
      - Multiple unit dwellings.
      - Primary schools, daycare centers, playgrounds, and other outdoor recreation facilities.
    - 6.2.1.2 Accessory Uses and Buildings:
      - Limited academic uses.
      - Limited retail, recreation, and commercial uses to serve residents.
      - Other uses necessary to the operation of the principal uses and buildings.
      - Surface parking and parking garages.
  - 6.2.2 Building Height Requirements:
    - 6.2.2.1 Residence Halls: Height shall be limited to six stories plus any required rooftop equipment.
    - 6.2.2.2 Accessory Uses and Buildings: Height shall be limited to three stories.
    - 6.2.2.3 Parking garages shall be limited to six levels above and including the ground level.
  - 6.2.3 Set Back Requirements: All buildings shall have a set back of a minimum distance of 50 feet from the nearest curb line of the nearest roadway.

- 6.2.4 Building Coverage: Buildings shall not cover more than 20% of the ground area within any given block in the "R" Districts.
- 6.3 "AR" Athletic and Recreation District: The following provision shall apply to the Athletic and Recreation District:
  - 6.3.1 Permitted Uses: Permitted Uses for the "AR" District shall include the following Principal and Accessory Uses. All uses not listed are not permitted in the AR District unless otherwise provided for in this ordinance:
    - 6.3.1.1 Principal Uses and Buildings:
      - Facilities related to recreational, intramural, and sporting events.
    - 6.3.1.2 Accessory Uses and Buildings:
      - Other uses and buildings necessary to the operation of the principal uses and buildings.
      - Surface parking and parking garages.
  - 6.3.2 Building Height Requirements:
    - 6.3.2.1 All buildings shall be limited to four stories in height or to the height necessary to accommodate the particular sport function and design.
    - 6.3.2.2 Parking garages shall be limited to six levels above and including the ground level.
  - 6.3.3 Set Back Requirements:
    - 6.3.3.1 All recreation, intramural, or sport fields and courts shall have a set back of a minimum distance of 50 feet from the nearest curb line of the nearest roadway.
    - 6.3.3.2 All buildings shall have a set back of a minimum distance of 65 feet from the nearest curb line of the nearest roadway.
  - 6.3.4 Building Coverage: Buildings shall not cover more than 25% of the ground area within any given block in the "AR" District.
- 6.4 "SE" Service District: The following provisions shall apply to the Service District:
  - 6.4.1 Permitted Uses: Permitted Uses for the "SE" District shall include the following Principal and Accessory Uses. All uses not listed are not permitted in the SE District unless otherwise provided for in this ordinance:
    - 6.4.1.1 Principal Uses and Buildings:
      - Power plants, including solar or wind energy generation and storage.
      - Maintenance centers.
      - Water storage and treatment facilities.
      - Institutional stores.
      - Storage facilities.

- Recycling facilities.
- Office buildings.
- 6.4.1.2 Accessory Uses and Buildings:
  - Other uses and buildings necessary or similar to the principal uses and buildings pertinent to the operation of the institution.
  - Surface parking.
- 6.4.2 Building Height Requirements: All buildings shall be limited to six stories in height. The only exceptions allowed will be power plant chimneys, water storage, and similar accessory uses.
- 6.4.3 Set Back Requirements: All buildings shall have a set back of a minimum distance of 50 feet from the nearest curb line of the nearest roadway or from the edge of the pavement where curbs do not exist.
- 6.4.4 Building Coverage: Buildings shall not cover more than 30% of the ground area within any given block of the "SE" District.
- 6.5 "N" Natural Areas District: The following provisions shall apply to the Natural Areas District:
  - 6.5.1 Permitted Uses: Permitted Uses for the "N" District shall include the following Principal and Accessory Uses. All uses not listed are not permitted in the N District unless otherwise provided for in this ordinance:
    - 6.5.1.1 Principal Uses:
      - Permitted uses include observation, nature study, teaching, research and demonstration in Category I, II, and III Natural Areas as defined by the Campus Natural Areas Committee and shown on the most recent version of the MSU Campus Natural Areas Map and Zoning District Map.
  - 6.5.2 Special Provisions: The Natural Areas District shall remain undeveloped. No buildings, roads, improved walks, utility, or other structures and alterations are permitted in the Natural Areas District.
- 6.6 "AG" Agricultural and Natural Resources District: The following provisions shall apply to the Agriculture and Natural Resources District:
  - 6.6.1 Permitted Uses: Permitted Uses for the "AG" District shall include the following Principal and Accessory Uses. All uses not listed are not permitted in the AG District unless otherwise provided for in this ordinance:
    - 6.6.1.1 Principal Uses and Buildings:
      - Program-related single-family dwellings.
      - Agricultural and natural resources research, teaching, and outreach facilities for plants and animals.
      - Farm areas for experimentation, teaching, outreach, and cultivation or production of plants and animals for institutional use.
      - Associated agricultural facilities not operated by the institution.

- 6.6.1.2 Accessory Uses and Buildings:
  - Other uses and buildings that are necessary to the operation of the principal uses and buildings, such as silos, wells, and pumping stations. Potable water storage and treatment, and maintenance facilities shall be allowed.
  - Surface parking.
  - Solar or wind energy generation and storage.
- 6.6.2 Building Height Requirements: All buildings shall be limited to a height of two stories, with the exception of silos and similar structures that are necessarily of greater height.
- 6.6.3 Set Back Requirements: All buildings shall be set back a minimum distance of 100 feet from the centerline of the nearest public roadway.
- 6.7 "MU" Mixed Use Districts: The following provisions shall apply to the two independent mixed-use districts, MU-N and MU-S:
  - 6.7.1 Permitted Uses: Permitted uses for the MU Districts shall include the following Principal and Accessory Uses. All uses not listed are not permitted in the MU Districts unless otherwise provided for in this ordinance:
    - 6.7.1.1 Principal Uses and Buildings MU-N:
      - Teaching facilities, including classrooms, lecture halls, instructional laboratories, general student facilities, and similar facilities used for general educational purposes.
      - Research laboratories.
      - Public/private business incubators.
      - Student and visiting faculty housing.
      - Faculty and administrative offices.
      - Health and wellness facilities.
      - Academic support.
      - Auxiliary retail services.
    - 6.7.1.2 Principal Uses and Buildings MU-S
      - Research laboratories.
      - Public/private business incubators.
      - Student, faculty, and alumni retirement housing.
      - Administrative offices.
      - Health and wellness facilities.
      - Auxiliary retail services.
    - 6.7.1.3 Accessory Uses and Buildings:

- Surface parking and parking garages.
- Uses and structures that are necessary to the operation of the principal uses and buildings.
- Athletic/recreation fields and buildings.
- Solar or wind energy generation and storage.

#### 6.7.2 Building Height Requirements:

- 6.7.2.1 All buildings in the MU-N District shall be limited to six stories of occupied space plus any required rooftop equipment. Buildings within the MU-S District that incorporate parking, office space, and housing space are limited to eight stories of occupied space plus any required rooftop equipment.
- 6.7.2.2 Teaching facilities shall be located in the lowest floors possible, and not above the fourth floor of any building.
- 6.7.2.3 Parking garages shall be limited to six parking levels above and including the ground level
- 6.7.2.4 Accessory buildings shall be no higher than necessary to accommodate the proposed use and under no circumstances shall exceed the height of the principal use buildings in the district.
- 6.7.3 Set Back Requirements: All buildings shall be set back a minimum of 40 feet from the nearest curb line of the nearest roadway.
- 6.7.4 Building Coverage: Buildings shall not cover more than 30% of the ground area of any given block within the MU-N District and 35% of the ground area of any given block within the MU-S District.

#### 6.8 Non-Conforming Uses and Buildings:

- 6.8.1 Non-conforming uses: The use of any land area existing at the time of the adoption of this ordinance, or any amendment to it, may be continued although such use does not conform to the provisions thereof.
- Non-conforming buildings: The use of any building existing at the time of the adoption of this ordinance, or any amendment to it, may be continued although such use does not conform to the provisions thereof. Such non-conforming use may be extended throughout a building.

#### 7.00 - ADMINISTRATION

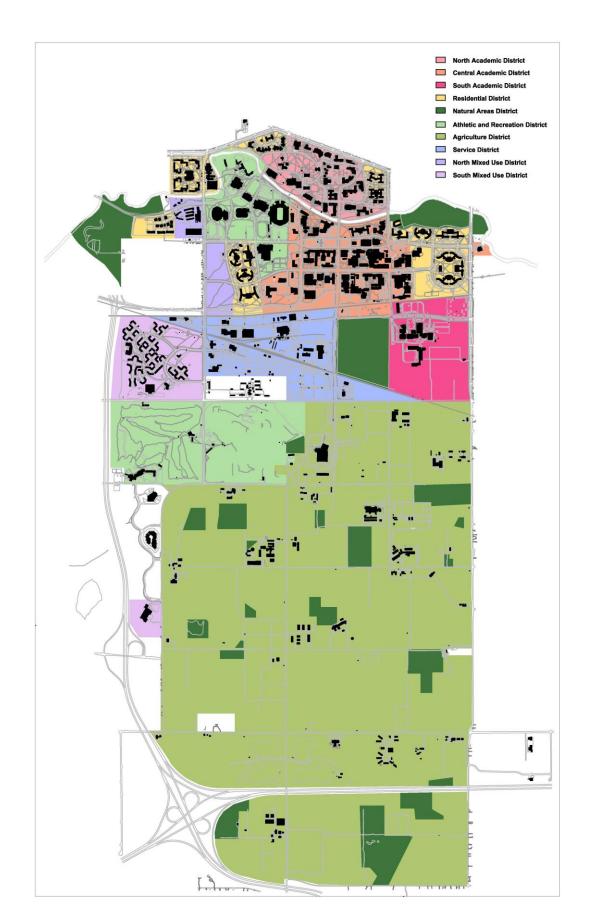
- 7.1 The Campus Planner shall serve in the role of Zoning Administrator and shall be responsible for the administration of this ordinance, the District Map, the Protected Green Space map, and the Campus Land Use Master Plan, all as hereafter amended and modified.
  - 7.1.1 The Campus Planner is specifically granted authority to:
    - 7.1.1.1 Assure that University projects are in compliance with the University Zoning Ordinance and Campus Land Use Master Plan, including Campus Planning Principles.
    - 7.1.1.2 Approve the extension, reduction, revision, or interpretation of a zoning district or building coverage block boundary.

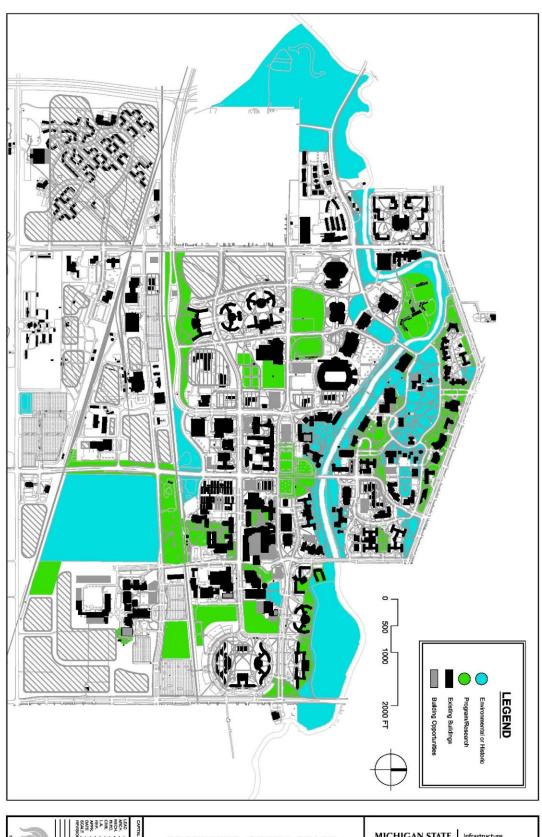
- 7.1.1.3 Approve the reconstruction of a non-conforming building that has been destroyed or partially destroyed.
- 7.1.1.4 Approve the erection and use of a building or the use of land in any location for an essential utility service, or allow for the enlargement, extension or relocation of these existing uses.
- 7.1.1.5 Interpret the provisions of this ordinance where the street layout actually on the ground varies from the street layout as shown on the Zoning District Map.
- 7.1.1.6 Determine whether the use of a planned building is permitted in the district in which it is to be erected, and whether the planned building will cause the ground area covered by the buildings to exceed the maximum percentage allowed within the block in which it is to be erected.
- 7.1.1.7 Approve the design of all building and site features, modifications, and improvements within Protected Green Space areas when a variance has been authorized.
- 7.1.1.8 Refer any specific request for a variance to the Vice President and Secretary of the Board of Trustees for clarification regarding the need for BOT action.

#### 8.00 - AMENDMENTS

8.1 This ordinance may be amended through approval by the Board of Trustees.

End





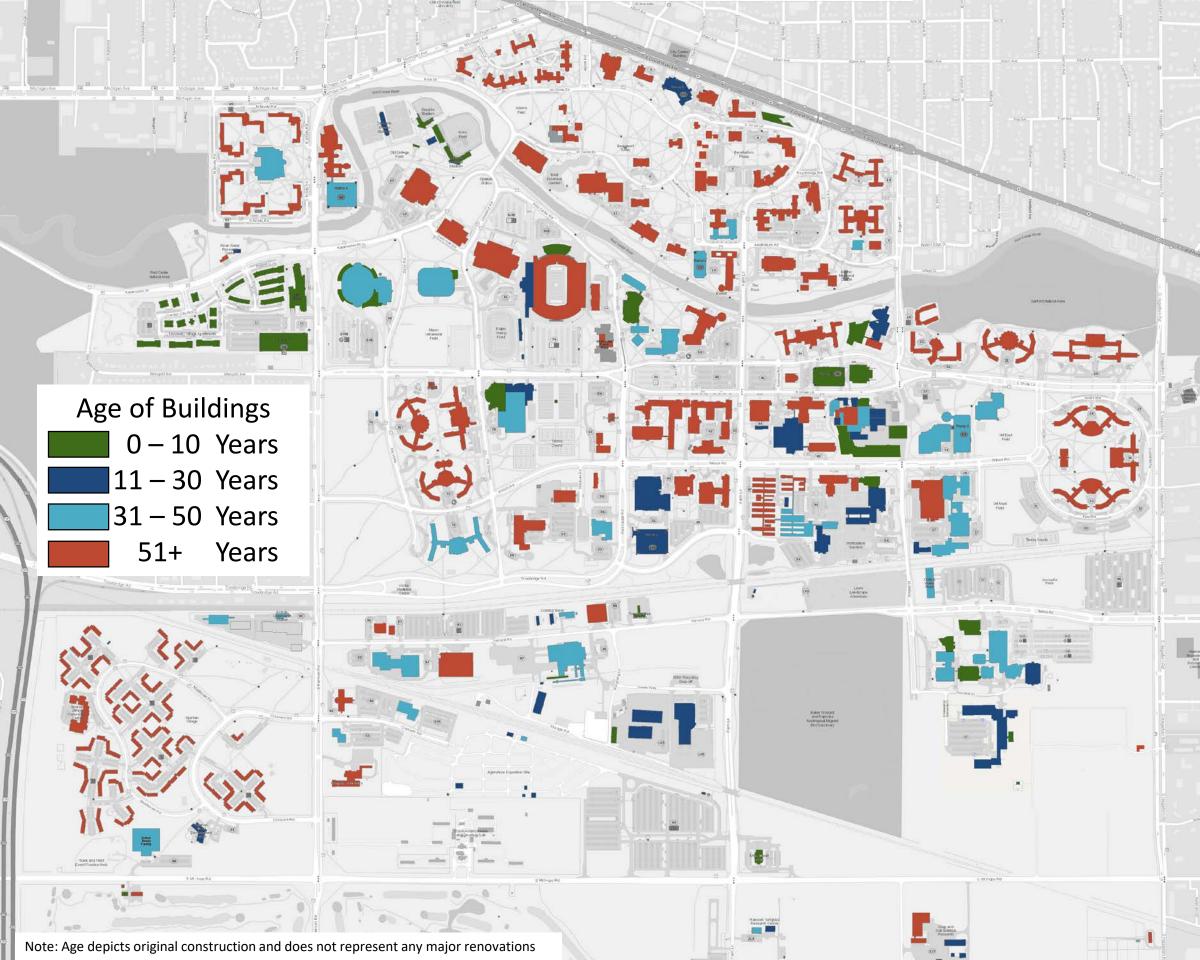
# Appendix C: Buildings by Age

## Fiscal Year 2022 Budget Information

5-Year Capital Plan

Submitted by:

MICHIGAN STATE UNIVERSITY



# Appendix D: Student Enrollments Fall Semester 2020

## Fiscal Year 2022 Budget Information

5-Year Capital Plan

Submitted by:

MICHIGAN STATE UNIVERSITY

# Michigan State University Office of the Registrar

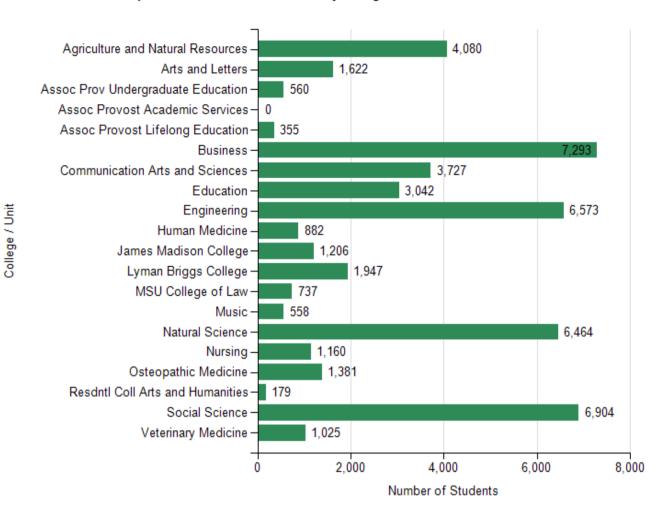
**Comparison of Student Enrollments** 

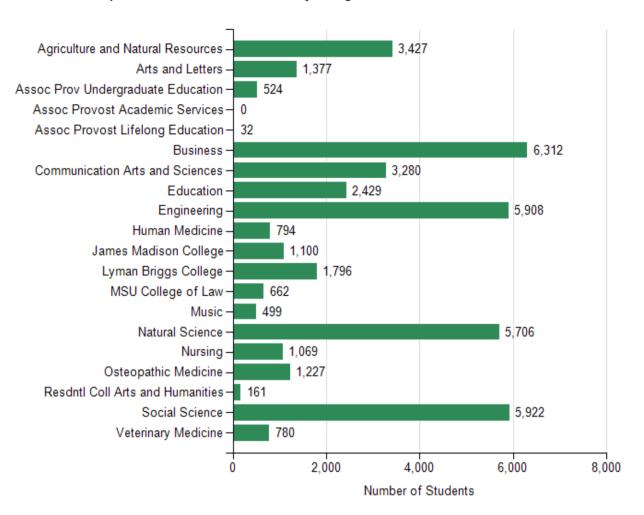
		FALL 2	2020					
	Stud	ents	Full T	ime	Fiscal	Year	Teach	ning
COLLEGE/UNIT	Enro	lled	Stude	nts	Equa	ated	College (	Course
	<u>Number</u>	Percent	Number		Number		Number	Percent
Agriculture and Natural Resources	4,080	8.2%	3,427	8.0%	2,729	6.1%	14,419	6.6%
Arts and Letters	1,622	3.3%	1,377	3.2%	5,164		21,584	9.8%
Resdntl Coll Arts and Humanities	179	0.4%	161	0.4%	77	0.2%	308	0.1%
Business	7,293	14.7%	6,312	14.7%	4,048	9.1%	22,473	10.2%
Communication Arts and Sciences	3,727	7.5%	3,280	7.6%	2,404	5.4%	12,153	5.5%
Education	3,042	6.1%	2,429	5.6%	2,084	4.7%	9,730	4.4%
Engineering	6,573	13.2%	5,908	13.7%	3,181	7.2%	15,020	6.8%
Human Medicine	882	1.8%	794	1.8%	1,056	2.4%	3,790	1.7%
James Madison College	1,206	2.4%	1,100	2.6%	534	1.2%	2,003	0.9%
Lyman Briggs College	1,947	3.9%	1,796	4.2%	614	1.4%	2,724	1.2%
Music	558	1.1%	499	1.2%	411	0.9%	2,580	1.2%
Natural Science	6,464	13.0%	5,706	13.3%	9,394	21.1%	47,510	21.6%
Nursing	1,160	2.3%	1,069	2.5%	454	1.0%	1,589	0.7%
Osteopathic Medicine	1,381	2.8%	1,227	2.9%	1,243	2.8%	6,877	3.1%
Social Science	6,904	13.9%	5,922	13.8%	8,671	19.5%	38,036	17.3%
Assoc Prov Undergraduate Education	560	1.1%	524	1.2%	731	1.6%	10,239	4.7%
Veterinary Medicine	1,025	2.1%	780	1.8%	762	1.7%	5,188	2.4%
Assoc Provost Academic Services	0	0.0%	0	0.0%	124	0.3%	338	0.2%
Assoc Provost Lifelong Education	355	0.7%	32	0.1%	0	0.0%	0	0.0%
MSU College of Law	737	1.5%	662	1.5%	735	1.7%	3,258	1.5%
Total University	49,695		43,005		44,416		219,819	
CLASS/LEVEL								
Doctoral	3,444	6.9%	3,326	7.7%	2,503	5.6%	6,718	3.1%
Masters	3,921	7.9%	1,720	4.0%	2,346	5.3%	11,824	5.4%
Total Graduate	7,365	_	5,046		4,849		18,542	
Freshman	8,994	18.1%	8,628	20.1%	8,795	19.8%	47,090	21.4%
Junior	9,573	19.3%	8,979	20.9%	9,148	20.6%	45,627	20.8%
Senior	10,694	21.5%	8,434	19.6%	9,231	20.8%	46,732	21.3%
Sophomore	8,770	17.6%	8,318	19.3%	8,529	19.2%	41,685	19.0%
Total Undergraduate	38,031	_	34,359		35,703		181,134	
Graduate Professional	3,187	6.4%	3,075	7.2%	3,187	7.2%	17,198	7.8%
Total Graduate Professional	3,187		3,075		3,187		17,198	
Non-Degree	1,112	2.2%	525	1.2%	676	1.5%	2,945	1.3%
Total Non-Degree	1,112		525		676		2,945	
Grand Total	49,695	_	43,005		44,416		219,819	
Percent of Total Students		100.0%		86.5%		89.4%		

Average Student Course: 4.4 Course Enrollments

Full-Time Students column: A head count of students who are carrying minimum credits for full-time status: Undergraduate-12; Masters-9; Doctoral-6; and Graduate Professional-12.

#### Comparison of Student Enrollments By College / Unit: Students Enrolled





Agriculture and Natural Resources

2,729

2,000

4,000

Number of Students

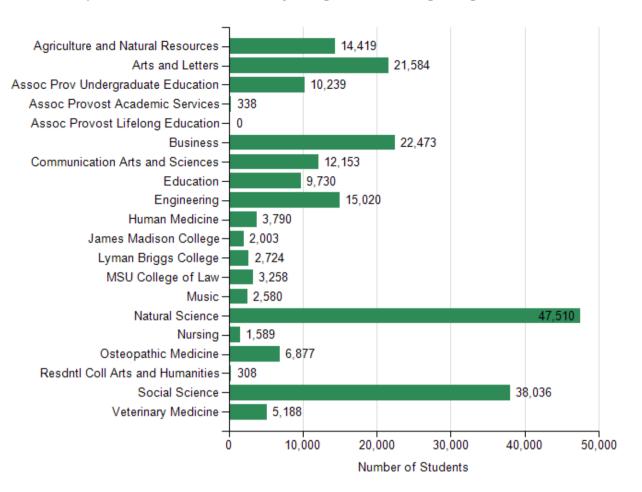
6,000

8,000

10,000

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# Appendix E: Building Condition Assessment

# Fiscal Year 2022 Budget Information

5-Year Capital Plan

Submitted By:

MICHIGAN STATE UNIVERSITY

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
ABRAMS	0165	2021	BUILDING	REPLACE CONTROLS	\$150,000
PLANETARIUM			SYSTEMS		
ABRAMS	0165	DEFERRED	BUILDING	REPLACE HVAC #1	\$779,000
PLANETARIUM		RENEWAL	SYSTEMS		

\$929,000

AG EXPO EXHIB-	0402	2024	BUILDING	REPLACE ROOF #1	\$23,000
STORAGE 1 EAST			ENVELOPE		

\$23,000

ALFRED BERKOWITZ	0069	2021	BUILDING	DAYLIGHT DIMMING LIGHTING CONTROL	\$407,100
BASKETBALL			SYSTEMS	RENEWAL	
ALFRED BERKOWITZ	0069	2021	BUILDING	DOOR OPERATOR, POWER-ASSIST	\$29,700
BASKETBALL			SYSTEMS	RENEWAL	
ALFRED BERKOWITZ	0069	2021	BUILDING	HUMIDIFIER, STEAM INJECTION	\$23,100
BASKETBALL			SYSTEMS	RENEWAL	
ALFRED BERKOWITZ	0069	2021	BUILDING	HVAC CONTROLS - TERMINAL	\$28,300
BASKETBALL			SYSTEMS	ASSEMBLIES - GYMNASIUM RENEWAL	
ALFRED BERKOWITZ	0069	2021	BUILDING	LIGHTING SYSTEM, INTERIOR -	\$34,400
BASKETBALL			SYSTEMS	GYMNASIUM RENEWAL	
ALFRED BERKOWITZ	0069	2024	BUILDING	HEAT EXCHANGER - SHELL & TUBE	\$27,200
BASKETBALL			SYSTEMS	STEAM TO WATER (>85 GPM) RENEWAL	
ALFRED BERKOWITZ	0069	DEFERRED	BUILDING	DOOR LOCK, SECURITY, EXTERIOR	\$112,900
BASKETBALL		RENEWAL	SYSTEMS	RENEWAL	
ALFRED BERKOWITZ	0069	DEFERRED	BUILDING	FIRE ALARM PANEL, DIALER, BATTERY, &	\$41,400
BASKETBALL		RENEWAL	SYSTEMS	CHARGER UP TO 200 POINTS RENEWAL	
ALFRED BERKOWITZ	0069	DEFERRED	BUILDING	HVAC CONTROLS - MAJOR	\$26,900
BASKETBALL		RENEWAL	SYSTEMS	INSTRUMENTATION - GYMNASIUM	
ALFRED BERKOWITZ	0069	DEFERRED	BUILDING	VARIABLE FREQUENCY DRIVES RENEWAL	\$115,000
BASKETBALL		RENEWAL	SYSTEMS		

\$846,000

ALUMNI CHAPEL	0030	2025	BUILDING	ALUMNI CHAPEL - REPLACE ORIGINAL	\$54,000
			SYSTEMS	STEAM WATER HEATER	
ALUMNI CHAPEL	0030	DEFERRED	BUILDING	EXTERIOR WATERPROOFING AND	\$99,000
		RENEWAL	ENVELOPE	MASONRY RESTORATION	
ALUMNI CHAPEL	0030	DEFERRED	BUILDING	REPLACE LIGHTING PANELS IN	\$21,000
		RENEWAL	SYSTEMS	BASEMENT STORAGE ROOM (\$5800),	
ALUMNI CHAPEL	0030	DEFERRED	BUILDING	STAINED GLASS WINDOW REPAIR AND	\$43,000
		RENEWAL	ENVELOPE	PROTECTION	
ALUMNI CHAPEL	0030	DEFERRED	BUILDING	ROOF REPLACEMENT/RESTORATION,	\$37,000
		RENEWAL	ENVELOPE	BUILT-UP ROOFING, SLATE REPAIR,	

\$254,000

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
ANGELL UNIV	0133	2023	BUILDING	REPLACE UNIVERSITY SERVICES ATS	\$20,000
SERVICES			SYSTEMS		
ANGELL UNIV	0133	2024	BUILDING	SECURITY & EMERGENCY SYSTEMS/ TIME	\$129,000
SERVICES			SYSTEMS	CLOCKS - FIRE ALARM	
ANGELL UNIV	0133	DEFERRED	BUILDING	REPLACE EXTERIOR DOOR HARDWARE	\$34,000
SERVICES		RENEWAL	INTERIOR	AND SELECTED INTERIOR DOORS.	
ANGELL UNIV	0133	DEFERRED	BUILDING	REPLACE CONTROL AIR COMPRESSOR	\$37,000
SERVICES		RENEWAL	SYSTEMS		
ANGELL UNIV	0133	DEFERRED	BUILDING	HVAC EQUIPMENT - AHU	\$1,115,000
SERVICES		RENEWAL	SYSTEMS		
ANGELL UNIV	0133	DEFERRED	BUILDING	LIGHTING FIXTURES	\$229,000
SERVICES		RENEWAL	SYSTEMS		
ANGELL UNIV	0133	DEFERRED	BUILDING	REPLACE CHILLED WATER PUMPS	\$70,000
SERVICES		RENEWAL	SYSTEMS		
ANGELL UNIV	0133	DEFERRED	BUILDING	REPLACE HOT WATER HEAT PUMPS	\$72,000
SERVICES		RENEWAL	SYSTEMS		
ANGELL UNIV	0133	DEFERRED	BUILDING	REPLACE MECHANICAL CHILLER	\$335,000
SERVICES		RENEWAL	SYSTEMS		
ANGELL UNIV	0133	DEFERRED	BUILDING	VAV SYSTEM	\$237,000
SERVICES		RENEWAL	SYSTEMS		

\$2,278,000

ANTHONY HALL	0132	2021	BUILDING	REPLACE ANTHONY ATS	\$20,000
			SYSTEMS		
ANTHONY HALL	0132	2022	BUILDING	ANTHONY HALL - EXTERIOR ENVELOPE	\$500,000
			ENVELOPE	RENEWAL PHASE 2 OF 2	
ANTHONY HALL	0132	2022	BUILDING	ANTHONY HALL - EXTERIOR ENVELOPE	\$500,000
			ENVELOPE	RENEWAL PHASE 2 OF 2	
ANTHONY HALL	0132	2022	BUILDING	CHILLER AND COOLING TOWER	\$2,141,000
			SYSTEMS	REPLACEMENT - #1 ABSC955	
ANTHONY HALL	0132	DEFERRED	BUILDING	VAV SYSTEM	\$336,000
		RENEWAL	SYSTEMS		
ANTHONY HALL	0132	DEFERRED	BUILDING	REPLACE ENTIRE FIRE SPRINKLER	\$2,932,000
		RENEWAL	SYSTEMS	PROTECTION SYSTEM	
ANTHONY HALL	0132	DEFERRED	BUILDING	DOORS - INTERIOR	\$2,423,000
		RENEWAL	INTERIOR		
ANTHONY HALL	0132	DEFERRED	BUILDING	REPLACE PUBLIC RESTROOM FAUCETS	\$43,000
		RENEWAL	SYSTEMS	AND TRIM, URINAL FLUSH VALVES AND	

\$8,895,000

AUDITORIUM	0031	2021	BUILDING	REPLACE CONTROLS	\$200,000
			SYSTEMS		
AUDITORIUM	0031	2022	BUILDING	REPLACE ROOF #15	\$48,000
			ENVELOPE		

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
AUDITORIUM	0031	DEFERRED	BUILDING	REPLACE STAGE LIFT ELEVATOR	\$1,059,000
		RENEWAL	SYSTEMS		
AUDITORIUM	0031	DEFERRED	BUILDING	AUDITORIUM ROOFTOP UNIT	\$219,000
		RENEWAL	SYSTEMS		
AUDITORIUM	0031	DEFERRED	BUILDING	REPLACE DOMESTIC WATER HEATER	\$69,000
		RENEWAL	SYSTEMS		
AUDITORIUM	0031	DEFERRED	BUILDING	REPLACE PUBLIC RESTROOM - LAVATORY	\$40,000
		RENEWAL	SYSTEMS	FAUCETS AND TRIM, TOILET SEATS AND	
					44 60= 000

\$1,635,000

BAKER HALL	0182	DEFERRED	BUILDING	EXTERIOR MASONRY REPAIRS AND	\$57,000
		RENEWAL	ENVELOPE	CAULKING	
BAKER HALL	0182	DEFERRED	BUILDING	REPLACE LAVATORY FAUCETS AND TRIM,	\$46,000
		RENEWAL	SYSTEMS	TOILET FLUSH VALVES, URINAL FLUSH	
BAKER HALL	0182	DEFERRED	BUILDING	REPLACE DOMESTIC COLD WATER SHUT	\$27,000
		RENEWAL	SYSTEMS	OFF VALVES AND WATER METER WHERE	
BAKER HALL	0182	DEFERRED	BUILDING	REPLACE STAIR TREADS IN BAKER HALL	\$73,000
		RENEWAL	INTERIOR		

\$203,000

BEEF CATTLE	04711	2022	BUILDING	REPLACE ROOFS #1	\$113,000
RESEARCH-ANIMAL			ENVELOPE		

\$113,000

BEEF CATTLE	0471A	DEFERRED	BUILDING	EXTERIOR PAINTING - DOOR TRIM &	\$48,000
RESEARCH-MAIN		RENEWAL	ENVELOPE	FROM OF OFFICE BUILDING	
BEEF CATTLE	0471A	DEFERRED	BUILDING	ROOF REPAIR/REPLACEMENT BLDG 471 -	\$383,000
RESEARCH-MAIN		RENEWAL	ENVELOPE	ROOF #A-2, A-1, C, H, K	

\$431,000

BERKEY HALL	0002	2025	BUILDING	REPLACE CONTROL CABINET 4 (MEC)	\$36,000
			SYSTEMS		
BERKEY HALL	0002	2025	BUILDING	REPLACE CONTROL CABINET 5 (MEC)	\$36,000
			SYSTEMS		
BERKEY HALL	0002	DEFERRED	BUILDING	REPLACE FAUCETS, GRID DRAINS, P-	\$20,000
		RENEWAL	SYSTEMS	TRAPS, SHUTOFF VALVES, FAUCET	
BERKEY HALL	0002	DEFERRED	BUILDING	REPLACE EXTERIOR WOOD DOORS	\$145,000
		RENEWAL	ENVELOPE		
BERKEY HALL	0002	DEFERRED	BUILDING	REPLACE MECHANICAL CHILLER AND	\$427,000
		RENEWAL	SYSTEMS	CONDENSER	
BERKEY HALL	0002	DEFERRED	BUILDING	REPLACE BRANCH CIRCUIT WIRING W/	\$32,000
		RENEWAL	SYSTEMS	CLOTH INSULATION	

\$696,000

Building Name	Bldg	Work Plan Year	Туре	Description (Title)	Total Estimate
BESSEY HALL	0079	2024	BUILDING SYSTEMS	ELEVATOR - 1	\$431,000
BESSEY HALL	0079	DEFERRED RENEWAL	BUILDING SYSTEMS	BASEMENT AIR PLENUMS-REMOVE ALL ASBESTOS PIPE INSULATIONS &	\$146,000
BESSEY HALL	0079	DEFERRED RENEWAL	BUILDING ENVELOPE	REPLACE WINDOWS AND EXTERIOR DOORS	\$2,294,000
BESSEY HALL	0079	DEFERRED RENEWAL	BUILDING ENVELOPE	BESSEY EXTERIOR MASONRY AND CAULKING REPAIRS	\$86,000
BESSEY HALL	0079	DEFERRED RENEWAL	BUILDING SYSTEMS	BESSEY HALL - REPLACE STEAM DOMESTIC WATER HEATER	\$69,000
BESSEY HALL	0079	DEFERRED RENEWAL	BUILDING SYSTEMS	VAV SYSTEMS	\$137,000
BESSEY HALL	0079	DEFERRED RENEWAL	BUILDING SYSTEMS	REPLACE 200 TON CHILLER AND COOLING TOWERS	\$1,912,000
BESSEY HALL	0079	DEFERRED RENEWAL	BUILDING SYSTEMS	REPLACE BESSEY ATS	\$20,000
BESSEY HALL	0079	DEFERRED RENEWAL	BUILDING INTERIOR	REPLACE STAIR TREADS IN BESSEY HALL	\$50,000
BESSEY HALL	0079	DEFERRED RENEWAL	BUILDING SYSTEMS	REPLACE DUPLEX CONTROL AIR COMPRESSOR	\$34,000
BESSEY HALL	0079	DEFERRED RENEWAL	BUILDING SYSTEMS	REPLACE PUBLIC RESTROOM LAVATORY FAUCETS AND TRIM, TOILET FLUSH	\$107,000

\$5,286,000

BIOCHEMISTRY	0168	2024	BUILDING	REPLACE DUAL SYSTEM ELEVATOR 1 & 2	\$980,000
			SYSTEMS		
BIOCHEMISTRY	0168	2025	BUILDING	REPLACE DOMESTIC WATER BOOSTER	\$69,000
			SYSTEMS	PUMP DUPLEX, VFD DRIVE	
BIOCHEMISTRY	0168	DEFERRED	BUILDING	EXTERIOR PAINTING	\$21,000
		RENEWAL	ENVELOPE		
BIOCHEMISTRY	0168	DEFERRED	BUILDING	PROVIDE CONNECTION POINT FOR	\$33,000
		RENEWAL	SYSTEMS	PORTABLE GENERATOR TO POWER ULAR	
BIOCHEMISTRY	0168	DEFERRED	BUILDING	REPLACE EXTEROR ALUMINUM DOORS	\$41,000
		RENEWAL	ENVELOPE	AND HARDWARE	
BIOCHEMISTRY	0168	DEFERRED	BUILDING	REPLACE BOOSTER COILS, VAV AND	\$22,000
		RENEWAL	SYSTEMS	VALVES THAT SERVE ANIMAL ROOMS	
BIOCHEMISTRY	0168	DEFERRED	BUILDING	COOLING TOWERS - CT3	\$3,189,000
		RENEWAL	SYSTEMS		
BIOCHEMISTRY	0168	DEFERRED	BUILDING	REPLACE HORIZONTAL COLD WATER	\$662,000
		RENEWAL	SYSTEMS	MAIN PIPING AND VALVES	

\$5,017,000

BIOMEDICAL	0160	2022	BUILDING	REPLACE CONTROL AIR COMPRESSOR	\$40,000
PHYSICAL SCIENCES			SYSTEMS		

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
BIOMEDICAL	0160	2022	BUILDING	REPLACE CONTROL AIR COMPRESSOR	\$40,000
PHYSICAL SCIENCES			SYSTEMS		
BIOMEDICAL	0160	2025	BUILDING	REPLACE AHU 5	\$167,000
PHYSICAL SCIENCES			SYSTEMS		
BIOMEDICAL	0160	2025	BUILDING	REPLACE BPS ATS	\$20,000
PHYSICAL SCIENCES			SYSTEMS		
BIOMEDICAL	0160	2025	BUILDING	REPLACE PUBLIC RESTROOM FAUCETS,	\$64,000
PHYSICAL SCIENCES			SYSTEMS	FLUSH VALVES AND TOILET SEATS	
BIOMEDICAL	0160	2025	BUILDING	REPLACE PUBLIC RESTROOM FIBERGALSS	\$38,000
PHYSICAL SCIENCES			SYSTEMS	WATERLESS URINALS	
BIOMEDICAL	0160	2025	BUILDING	REPLACE WATER SOFTENER MINERAL IN	\$38,000
PHYSICAL SCIENCES			SYSTEMS	WATER SOFTENERS	
BIOMEDICAL	0160	DEFERRED	BUILDING	REPLACE 4 CHILLED WATER PUMPS FOR	\$107,000
PHYSICAL SCIENCES		RENEWAL	SYSTEMS	ULAR ANIMAL AREA	
BIOMEDICAL	0160	DEFERRED	BUILDING	PROVIDE CONNECTION POINT FOR	\$33,000
PHYSICAL SCIENCES		RENEWAL	SYSTEMS	PORTABLE GENERATOR TO POWER ULAR	

\$547,000

BOX FARM-BARN	0477C	DEFERRED	BUILDING	REPLACE ROOF #1	\$22,000
		RENEWAL	ENVELOPE		

\$22,000

BRESLIN STUDENT	0069	2021	BUILDING	BRESLIN REPLACE DUCT DETECTORS	\$26,000
EVENTS CENTER			SYSTEMS		
BRESLIN STUDENT	0069	2021	BUILDING	REPLACE BUNDLE IN HEAT	\$25,000
EVENTS CENTER			SYSTEMS	EXCHANGER(S) FOR BERKOWITZ	
BRESLIN STUDENT	0069	2022	BUILDING	REPLACE 2 HOT WATER HEAT PUMPS IN	\$32,000
EVENTS CENTER			SYSTEMS	MECH ROOM A-140.	
BRESLIN STUDENT	0069	2022	BUILDING	REPLACE CONDENSATE RETURN UNIT IN	\$51,000
EVENTS CENTER			SYSTEMS	BERKOWITZ	
BRESLIN STUDENT	0069	2022	BUILDING	REPLACE MAIN CHILLER FOR BERKOWITZ,	\$204,000
EVENTS CENTER			SYSTEMS	TRANE MODEL RTAA, LOCATED IN	
BRESLIN STUDENT	0069	2022	BUILDING	REPLACE TWO CHILLED WATER PUMPS	\$32,000
EVENTS CENTER			SYSTEMS	AND ASSOCIATED ELECTRICAL IN MECH	
BRESLIN STUDENT	0069	2022	BUILDING	REPLACE TWO VERTICAL TURBINE	\$28,000
EVENTS CENTER			SYSTEMS	SEWAGE PUMPS LOCATED IN	
BRESLIN STUDENT	0069	2022	BUILDING	FLOORING - CARPET, TILE OR ROLL,	\$18,000
EVENTS CENTER			INTERIOR	STANDARD RENEWAL	
BRESLIN STUDENT	0069	2024	BUILDING	DOOR LOCK, COMMERCIAL-GRADE,	\$48,200
EVENTS CENTER			SYSTEMS	INTERIOR RENEWAL	
BRESLIN STUDENT	0069	2024	BUILDING	FIRE PUMP - ELECTRIC, 750 GPM, 4" ID	\$378,900
EVENTS CENTER			SYSTEMS	(66-120 HP) RENEWAL	
BRESLIN STUDENT	0069	2024	BUILDING	PLUMBING FIXTURE - LAVATORY, WALL	\$144,300
EVENTS CENTER			SYSTEMS	HUNG RENEWAL	

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
bulluling Name	blug	Year	Туре	Description (Title)	Estimate
DDECLINI CTLIDENT	0069		BUILDING	CEILING FINISH - APPLIED PAINT OR	\$33,100
BRESLIN STUDENT EVENTS CENTER	0069	2025	INTERIOR	STAIN, STANDARD RENEWAL	\$33,100
BRESLIN STUDENT	0069	DEFERRED	BUILDING	REPLACE BRESLIN ATS	\$20,000
	0009			REPLACE BRESLIN ATS	\$20,000
EVENTS CENTER	0000	RENEWAL	SYSTEMS	DEDLACE CARRET AND WALLBACE IN	¢C4.000
BRESLIN STUDENT EVENTS CENTER	0069	DEFERRED	BUILDING	REPLACE CARPET AND WALLBASE IN	\$64,000
	0000	RENEWAL DEFERRED	INTERIOR	OFFICES AND CONFERENCE ROOMS OF	¢20,000
BRESLIN STUDENT	0069		BUILDING	REPLACE LEIBERT SPLIT AC UNIT THAT	\$20,000
EVENTS CENTER	0000	RENEWAL	SYSTEMS	SERVES THE TV REPLAY ROOM #40J.	¢00,000
BRESLIN STUDENT	0069	DEFERRED	BUILDING	ROOF REPAIR/REPLACEMENT ROOF	\$89,000
EVENTS CENTER	0000	RENEWAL		#3,4,5,6	¢452.000
BRESLIN STUDENT	0069	DEFERRED	BUILDING	SECURITY & EMERGENCY SYSTEMS/TIME	\$453,000
EVENTS CENTER	0000	RENEWAL	SYSTEMS	CLOCKS - FIRE ALARM	62.024.000
BRESLIN STUDENT	0069	DEFERRED	BUILDING	REPLACE AIR HANDLING UNITS 1 - 14, HV-	\$3,824,000
EVENTS CENTER	0000	RENEWAL	SYSTEMS	1 AND HV-5, PLUS 15 SMALL EXHAUST	405.000
BRESLIN STUDENT	0069	DEFERRED	BUILDING	REPLACE AIR PUMPS AMD ELECTRICAL	\$96,000
EVENTS CENTER	0000	RENEWAL	SYSTEMS	CONTROLS ON SEWAGE EJECTION	4404 000
BRESLIN STUDENT	0069	DEFERRED	BUILDING	FLOORING - VINYL COMPOSITION TILE,	\$181,000
EVENTS CENTER		RENEWAL	INTERIOR	STANDARD RENEWAL	4
BRESLIN STUDENT	0069	DEFERRED	BUILDING	BACKFLOW PREVENTER (3-4 INCHES)	\$24,700
EVENTS CENTER		RENEWAL	SYSTEMS	RENEWAL	
BRESLIN STUDENT	0069	DEFERRED	BUILDING	FIRE ALARM PANEL, DIALER, BATTERY, &	\$38,300
EVENTS CENTER		RENEWAL	SYSTEMS	CHARGER UP TO 400 POINTS RENEWAL	
BRESLIN STUDENT	0069	DEFERRED	BUILDING	FIRE ALARM SYSTEM - DEVICES RENEWAL	\$211,700
EVENTS CENTER		RENEWAL	SYSTEMS		
BRESLIN STUDENT	0069	DEFERRED	BUILDING	MOTOR CONTROL CENTER VERTICAL	\$95,900
EVENTS CENTER		RENEWAL	SYSTEMS	SECTION, 600V (<=400A) W/STARTERS	
BRESLIN STUDENT	0069	DEFERRED	BUILDING	MOTOR CONTROL CENTER VERTICAL	\$157,500
EVENTS CENTER		RENEWAL	SYSTEMS	SECTION, 600V (>800A) W/STARTERS	
BRESLIN STUDENT	0069	DEFERRED	BUILDING	MOTOR CONTROL CENTER VERTICAL	\$50,200
EVENTS CENTER		RENEWAL	SYSTEMS	SECTION, 600V (401-600A) W/STARTERS	
BRESLIN STUDENT	0069	DEFERRED	BUILDING	PLUMBING FIXTURE - LAVATORY,	\$66,300
EVENTS CENTER		RENEWAL	SYSTEMS	COUNTER RENEWAL	
BRESLIN STUDENT	0069	DEFERRED	BUILDING	PUMP - ELECTRIC (<=10 HP) RENEWAL	\$79,700
EVENTS CENTER		RENEWAL	SYSTEMS		
BRESLIN STUDENT	0069	DEFERRED	BUILDING	SEWAGE LIFT STATION RENEWAL	\$648,800
EVENTS CENTER		RENEWAL	SYSTEMS		
BRESLIN STUDENT	0069	DEFERRED	BUILDING	SPA FILTER, AVG RENEWAL	\$23,800
EVENTS CENTER		RENEWAL	SYSTEMS		
BRESLIN STUDENT	0069	DEFERRED	BUILDING	SWITCH - AUTO TRANSFER, 480 V (101-	\$760,500
EVENTS CENTER		RENEWAL	SYSTEMS	400 AMP) RENEWAL	
BRESLIN STUDENT	0069	DEFERRED	BUILDING	VARIABLE FREQUENCY DRIVE (<=5 HP)	\$4,171,600
EVENTS CENTER		RENEWAL	SYSTEMS	RENEWAL	
BRESLIN STUDENT	0069	DEFERRED	BUILDING	WALL FINISH - APPLIED, STANDARD	\$1,142,800
EVENTS CENTER		RENEWAL	SYSTEMS	RENEWAL	
	-	-	•	•	-

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
BRESLIN STUDENT	0069	DEFERRED	BUILDING	WATER TANK (55-274 GAL) RENEWAL	\$147,600
EVENTS CENTER		RENEWAL	SYSTEMS		

\$13,386,900

BUSINESS COLLEGE	0080	2021	BUILDING	AUXILLARY EQUIPMENT RENEWAL	\$63,000
			SYSTEMS		
BUSINESS COLLEGE	0800	2021	BUILDING	HEAT EXCHANGER - SHELL AND TUBE -	\$49,000
			SYSTEMS	HX-1 RENEWAL	
BUSINESS COLLEGE	0800	2021	BUILDING	HEAT EXCHANGER - SHELL AND TUBE -	\$49,000
			SYSTEMS	HX-2 RENEWAL	
BUSINESS COLLEGE	0800	2021	BUILDING	PNEUMATIC CONTROLS RENEWAL	\$878,000
			SYSTEMS		
BUSINESS COLLEGE	0800	2021	BUILDING	STEAM CONDENSATE RETURN -	\$56,000
			SYSTEMS	CONDENSATE RECEIVER RENEWAL	
BUSINESS COLLEGE	0080	2021	BUILDING	STEAM PIPING RENEWAL	\$96,000
			SYSTEMS		
BUSINESS COLLEGE	0080	2021	BUILDING	WATER HEATER - STEAM RENEWAL	\$67,000
			SYSTEMS		
BUSINESS COLLEGE	0080	2022	BUILDING	AIR COMPRESSOR - AC-1 AND AC-2	\$41,000
			SYSTEMS	RENEWAL	
BUSINESS COLLEGE	0080	2022	BUILDING	CHILLED WATER DISTRIBUTION PIPING	\$785,000
			SYSTEMS	RENEWAL	
BUSINESS COLLEGE	0080	2022	BUILDING	CUSTODIAL/UTILITY SINKS - FLOOR	\$28,000
			SYSTEMS	RENEWAL	
BUSINESS COLLEGE	0800	2022	BUILDING	PERIMETER HEAT SYSTEM - HYDRONIC	\$1,748,000
			SYSTEMS	FIN TUBE RENEWAL	
BUSINESS COLLEGE	0080	2022	BUILDING	PRIMARY CHILLED WATER PUMPS - CHW	\$114,000
			SYSTEMS	P1 AND P2	
BUSINESS COLLEGE	0800	2022	BUILDING	REPLACE CHILLER	\$194,000
			SYSTEMS		
BUSINESS COLLEGE	0080	2022	BUILDING	RUBBER TREADS - STAIRS RENEWAL	\$32,000
			INTERIOR		
BUSINESS COLLEGE	0800	2022	BUILDING	SANITARY WASTE RENEWAL	\$464,000
			SYSTEMS		
BUSINESS COLLEGE	0080	2022	BUILDING	WATER COOLERS - WALL-MOUNTED	\$20,000
			SYSTEMS	SINGLE-HEIGHT RENEWAL	
BUSINESS COLLEGE	0800	2022	BUILDING	WATER DIST COMPLETE RENEWAL	\$555,000
			SYSTEMS		
BUSINESS COLLEGE	0800	2023	BUILDING	SUMP PUMP - SANITARY SUMP PUMP 1	\$40,000
			SYSTEMS	& 2 RENEWAL	
BUSINESS COLLEGE	0080	2024	BUILDING	CARPETING - TILE RENEWAL	\$401,000
			INTERIOR		
BUSINESS COLLEGE	0080	2024	BUILDING	DISTRIBUTION EQUIPMENT -	\$1,459,000
			SYSTEMS	PANELBOARDS, TRANSFORMERS AND	

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
BUSINESS COLLEGE 00	0800	2024	BUILDING	ELEVATOR - 5	\$431,000
			SYSTEMS		
BUSINESS COLLEGE	0080	2024	BUILDING	HOT WATER HEATING PUMPS - HWC-1B	\$69,000
			SYSTEMS	& 2B RENEWAL	
BUSINESS COLLEGE	0080	2024	BUILDING	HYDRAULIC PASSENGER ELEV #4	\$329,000
			SYSTEMS	RENEWAL	
BUSINESS COLLEGE	0800	2024	BUILDING	LIGHTING - INTERIOR - FLUORESCENT	\$815,000
			SYSTEMS	FIXTURES RENEWAL	
BUSINESS COLLEGE	0080	2024	BUILDING	LIGHTING - INTERIOR - INCANDESCENT	\$32,000
			SYSTEMS	FIXTURES RENEWAL	
BUSINESS COLLEGE	0080	2025	BUILDING	MAIN ELECTRICAL SERVICE - 800A 480V	\$202,000
			SYSTEMS	RENEWAL	
BUSINESS COLLEGE	0800	2025	BUILDING	REPLACE TOILET FLUSH VALVES, TOILET	\$51,000
			SYSTEMS	SEATS, AND LAV FAUCETS IN PUBLIC	
BUSINESS COLLEGE	0800	DEFERRED	BUILDING	REPLACE DOMESTIC STEAM WATER	\$69,000
		RENEWAL	SYSTEMS	HEATER IN BASEMENT MR-B1	
BUSINESS COLLEGE	0080	DEFERRED	BUILDING	REPLACE LANDING FLOORING AND	\$50,000
		RENEWAL	INTERIOR	TREADS AND RISERS IN TWO (2)	
BUSINESS COLLEGE	0080	DEFERRED	BUILDING	BUSINESS COLLEGE NORTH- REPLACE	\$1,969,000
		RENEWAL	SYSTEMS	EXISTING FIRE ALARM SYSTEM	
BUSINESS COLLEGE	0800	DEFERRED	BUILDING	REPLACE CHILLED WATER PUMPS	\$76,000
		RENEWAL	SYSTEMS		
BUSINESS COLLEGE	0800	DEFERRED	BUILDING	REPLACE CONDENSATE RETURN UNIT	\$45,000
		RENEWAL	SYSTEMS		
BUSINESS COLLEGE	0080	DEFERRED	BUILDING	REPLACE SECOND OF TWO DOMESTIC	\$69,000
		RENEWAL	SYSTEMS	STEAM WATER HEATERS IN MR-N1	
BUSINESS COLLEGE	0080	DEFERRED	BUILDING	REPLACE TRACTION ELEVATORS 1 AND 2	\$900,000
		RENEWAL	SYSTEMS		
BUSINESS COLLEGE	0080	DEFERRED	BUILDING	REPLACE DOMESTIC WATER METER AND	\$32,000
		RENEWAL	SYSTEMS	ISOLATION VALVES IN MR-N1	
BUSINESS COLLEGE	0080	DEFERRED	BUILDING	REPLACE URINALS IN MENS PUBLIC	\$32,000
		RENEWAL	SYSTEMS	RESTROOMS	

\$12,310,000

CENTER INTEGRATIVE	0181A	2021	BUILDING	REPLACE CORRIDOR FLOORING AND	\$48,000
PLANT SYS-LAB			INTERIOR	WALL BASE ON BASEMENT AND 2ND	
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	CENTER INTEGRATIVE PLANT - REPLACE	\$524,000
PLANT SYS-LAB		RENEWAL	SYSTEMS	FIRE ALARM SYSTEM	
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	CIPS - BUILDING TEMPERATURE	\$174,000
PLANT SYS-LAB		RENEWAL	SYSTEMS	CONTROL UPGRADES	
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	CIPS - UPGRADE BUILDING EXHAUST	\$2,997,000
PLANT SYS-LAB		RENEWAL	SYSTEMS	SYSTEMS	
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	REPLACE STEAM PRV STATION LOCATED	\$55,000
PLANT SYS-LAB		RENEWAL	SYSTEMS	IN THE PENTHOUSE MECHANICAL ROOM	

Building Name	Bldg		Туре	Description (Title)	Total
bulluling Name	blug	Year	Туре		Estimate
CENTER INTEGRATIVE	01014		BUILDING	CIPS- UPGRADE PCB TRANSFORMERS	
PLANT SYS-LAB	0181A		SYSTEMS		\$264,000
CENTER INTEGRATIVE	01014	RENEWAL		AND ELECTRICAL SYSTEMS	\$313,000
	0181A		BUILDING	REPLACE CEILING IN NON-MECHANICAL	\$313,000
PLANT SYS-LAB	04.04.4	RENEWAL	INTERIOR	SPACES IN CIPS	¢4.700.000
CENTER INTEGRATIVE	0181A		BUILDING	REPLACE HVAC #1 LOCATED IN	\$1,780,000
PLANT SYS-LAB	01011	RENEWAL	SYSTEMS	PENTHOUSE	¢4.700.000
CENTER INTEGRATIVE	0181A		BUILDING	REPLACE HVAC #2 LOCATED IN	\$1,780,000
PLANT SYS-LAB	04044	RENEWAL	SYSTEMS	PENTHOUSE	455.000
CENTER INTEGRATIVE	0181A	2022	BUILDING	ROOF - 1-PLY, BALLASTED RENEWAL	\$55,000
PLANT SYS-LAB (CIPS)			ENVELOPE		4
CENTER INTEGRATIVE	0181A	2022	BUILDING	WALL FINISH - APPLIED, STANDARD	\$70,000
PLANT SYS-LAB (CIPS)			INTERIOR	RENEWAL	4
CENTER INTEGRATIVE	0181A	2022	BUILDING	LIGHTING SYSTEM, INTERIOR -	\$25,000
PLANT SYS-LAB (CIPS)			SYSTEMS	LABORATORY, WET RENEWAL	
CENTER INTEGRATIVE	0181A	2022	BUILDING	PRESSURE REDUCING VALVE, STEAM	\$80,000
PLANT SYS-LAB (CIPS)			SYSTEMS	SYSTEM (4") RENEWAL	
CENTER INTEGRATIVE	0181A	2022	BUILDING	REFRIGERATION SYSTEM - WALK-IN, 3	\$8,140,000
PLANT SYS-LAB (CIPS)			SYSTEMS	EVAP FANS, 10000 BTUH, CONDENSER	
CENTER INTEGRATIVE	0181A	2022	BUILDING	UNIT HEATER, STEAM/HYDRONIC STD	\$25,000
PLANT SYS-LAB (CIPS)			SYSTEMS	(TO 250 MBH) RENEWAL	
CENTER INTEGRATIVE	0181A	2022	BUILDING	WATER SOFTENER (121-200 GPM)	\$25,000
PLANT SYS-LAB (CIPS)			SYSTEMS	RENEWAL	
CENTER INTEGRATIVE	0181A	2024	BUILDING	LIGHTING SYSTEM, INTERIOR -	\$45,000
PLANT SYS-LAB (CIPS)			SYSTEMS	LABORATORY, WET RENEWAL	
CENTER INTEGRATIVE	0181A	2025	BUILDING	PLUMBING FIXTURE - LAVATORY, WALL	\$95,000
PLANT SYS-LAB (CIPS)			SYSTEMS	HUNG RENEWAL	
CENTER INTEGRATIVE	0181A	2025	BUILDING	PLUMBING FIXTURE - URINAL RENEWAL	\$130,000
PLANT SYS-LAB (CIPS)			SYSTEMS		
CENTER INTEGRATIVE	0181A	2025	BUILDING	PUMP - ELECTRIC (<=10 HP) RENEWAL	\$135,000
PLANT SYS-LAB (CIPS)			SYSTEMS		
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	DOOR - OVERHEAD, INTERIOR RENEWAL	\$800,000
PLANT SYS-LAB (CIPS)		RENEWAL	ENVELOPE		
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	DOOR AND FRAME, EXTERIOR,	\$165,000
PLANT SYS-LAB (CIPS)		RENEWAL	ENVELOPE	SWINGING, ALUMINUM AND GLASS	
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	DOOR AND FRAME, EXTERIOR,	\$60,000
PLANT SYS-LAB (CIPS)		RENEWAL	ENVELOPE	SWINGING, HOLLOW METAL RENEWAL	
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	DOOR LOCK, COMMERCIAL-GRADE,	\$240,000
PLANT SYS-LAB (CIPS)		RENEWAL	ENVELOPE	INTERIOR RENEWAL	
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	DOOR OPERATOR, OVERHEAD DOOR,	\$25,000
PLANT SYS-LAB (CIPS)		RENEWAL	ENVELOPE	COMMERCIAL, PADS RENEWAL	
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	DOOR PANIC HARDWARE, EXTERIOR	\$50,000
PLANT SYS-LAB (CIPS)		RENEWAL	ENVELOPE	RENEWAL	
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	DOOR, EXTERIOR, OVERHEAD ROLLING	\$415,000
PLANT SYS-LAB (CIPS)		RENEWAL	ENVELOPE	METAL, LOCK RENEWAL	
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CENTER INTEGRATIVE O181A DEFERRED BUILDING GLASS, WINDOW, ALUMINUM OR \$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL ENVELOPE WOOD, STANDARD RENEWAL CENTER INTEGRATIVE O181A DEFERRED BUILDING GREENHOUSE - LAMINATED GLASS \$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL ENVELOPE RENEWAL CENTER INTEGRATIVE O181A DEFERRED BUILDING CEILING FINISH - SUSPENDED \$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL INTERIOR ACOUSTICAL TILE, STANDARD RENEWAL CENTER INTEGRATIVE O181A DEFERRED BUILDING CASEWORK - LABORATORY, INCLUDES \$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL INTERIOR REAGENT SHELF AND TOP RENEWAL CENTER INTEGRATIVE O181A DEFERRED BUILDING FLOORING - VINYL COMPOSITION TILE, \$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL INTERIOR STANDARD RENEWAL CENTER INTEGRATIVE O181A DEFERRED BUILDING FLOORING - VINYL SHEET, STANDARD \$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL INTERIOR RENEWAL CENTER INTEGRATIVE O181A DEFERRED BUILDING WALL FINISH - APPLIED, STANDARD \$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL INTERIOR RENEWAL CENTER INTEGRATIVE O181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (10" - \$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS 18" DIAMETER) RENEWAL CENTER INTEGRATIVE O181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (20" - \$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS 22" DIAMETER) RENEWAL CENTER INTEGRATIVE O181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (20" - \$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS 22" DIAMETER) RENEWAL CENTER INTEGRATIVE O181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (20" - \$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS 22" DIAMETER) RENEWAL CENTER INTEGRATIVE O181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (25" - \$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS 30" DIAMETER) RENEWAL	Total Estimate \$70,000 \$310,000 \$20,000 \$130,000 \$30,000 \$55,000
CENTER INTEGRATIVE 0181A DEFERRED BUILDING GLASS, WINDOW, ALUMINUM OR \$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL ENVELOPE WOOD, STANDARD RENEWAL \$\frac{1}{2}\$ CENTER INTEGRATIVE 0181A DEFERRED BUILDING GREENHOUSE - LAMINATED GLASS \$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL ENVELOPE RENEWAL CENTER INTEGRATIVE 0181A DEFERRED BUILDING CEILING FINISH - SUSPENDED \$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL INTERIOR ACOUSTICAL TILE, STANDARD RENEWAL CENTER INTEGRATIVE 0181A DEFERRED BUILDING CASEWORK - LABORATORY, INCLUDES \$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL INTERIOR REAGENT SHELF AND TOP RENEWAL CENTER INTEGRATIVE 0181A DEFERRED BUILDING FLOORING - VINYL COMPOSITION TILE, \$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL INTERIOR STANDARD RENEWAL CENTER INTEGRATIVE 0181A DEFERRED BUILDING FLOORING - VINYL SHEET, STANDARD \$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL INTERIOR RENEWAL INTERIOR RENEWAL CENTER INTEGRATIVE 0181A DEFERRED BUILDING WALL FINISH - APPLIED, STANDARD \$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL INTERIOR RENEWAL SYSTEMS 18" DIAMETER) RENEWAL \$\frac{1}{2}\$ CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (10"-\$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS 22" DIAMETER) RENEWAL \$\frac{1}{2}\$ CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS 22" DIAMETER) RENEWAL \$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS 30" DIAMETER) RENEWAL \$\frac{1}{2}\$ PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS 30" DIAMETER) RENEWAL	\$70,000 \$310,000 \$20,000 \$130,000 \$30,000
PLANT SYS-LAB (CIPS)  RENEWAL  CENTER INTEGRATIVE  O181A  DEFERRED  RENEWAL  ENVELOPE  RENEWAL  ENVELOPE  RENEWAL  CELLING FINISH - SUSPENDED  RENEWAL  CENTER INTEGRATIVE  O181A  DEFERRED  BUILDING  RENEWAL  INTERIOR  ACOUSTICAL TILE, STANDARD RENEWAL  CENTER INTEGRATIVE  O181A  DEFERRED  BUILDING  CASEWORK - LABORATORY, INCLUDES  RENEWAL  CENTER INTEGRATIVE  O181A  DEFERRED  BUILDING  RENEWAL  INTERIOR  REAGENT SHELF AND TOP RENEWAL  CENTER INTEGRATIVE  O181A  DEFERRED  BUILDING  RENEWAL  INTERIOR  STANDARD RENEWAL  CENTER INTEGRATIVE  O181A  DEFERRED  BUILDING  RENEWAL  INTERIOR  RENEWAL  INTERIOR  RENEWAL  CENTER INTEGRATIVE  O181A  DEFERRED  BUILDING  RENEWAL  INTERIOR  RENEWAL  CENTER INTEGRATIVE  O181A  DEFERRED  BUILDING  RENEWAL  INTERIOR  RENEWAL  CENTER INTEGRATIVE  O181A  DEFERRED  BUILDING  RENEWAL  SYSTEMS  18" DIAMETER) RENEWAL  CENTER INTEGRATIVE  O181A  DEFERRED  BUILDING  RENEWAL  SYSTEMS  SYSTEMS  O181A  DEFERRED  BUILDING  FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$;  SYSTEMS  DIAMETER) RENEWAL  CENTER INTEGRATIVE  O181A  DEFERRED  BUILDING  FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$;  SYSTEMS  O181A  DEFERRED  BUILDING  FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$;  SYSTEMS  O181A  DEFERRED  BUILDING  FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$;  SYSTEMS  O181A  DEFERRED  BUILDING  FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$;  SYSTEMS  O181A  DEFERRED  BUILDING  FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$;  SYSTEMS  O181A  DEFERRED  BUILDING  FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$;  SYSTEMS  O181A  DEFERRED  BUILDING  FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$;  SYSTEMS  O181A  DEFERRED  BUILDING  FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$;  SYSTEMS  O181A  DEFERRED  BUILDING  FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$;  SYSTEMS  O181A  DEFERRED  BUILDING  FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$;  SYSTEMS  O181A  DEFERRED  BUILDING  FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$;  SYSTEMS  O181A  DEFERRED  BUILDING  FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$;  SYSTEMS  O181A  DEFERRED  BUILDING  FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$;  SYSTEMS  O181A  DEFERRE	\$310,000 \$20,000 \$130,000 \$30,000
CENTER INTEGRATIVE D181A DEFERRED BUILDING GREENHOUSE - LAMINATED GLASS \$: PLANT SYS-LAB (CIPS) RENEWAL ENVELOPE RENEWAL ENVELOPE RENEWAL CENTER INTEGRATIVE PLANT SYS-LAB (CIPS) RENEWAL INTERIOR ACOUSTICAL TILE, STANDARD RENEWAL CENTER INTEGRATIVE D181A DEFERRED BUILDING CASEWORK - LABORATORY, INCLUDES \$: PLANT SYS-LAB (CIPS) RENEWAL INTERIOR REAGENT SHELF AND TOP RENEWAL CENTER INTEGRATIVE D181A DEFERRED BUILDING FLOORING - VINYL COMPOSITION TILE, STANDARD RENEWAL INTERIOR STANDARD RENEWAL STANDARD RENEWAL SYS-LAB (CIPS) RENEWAL INTERIOR STANDARD RENEWAL SYS-LAB (CIPS) RENEWAL INTERIOR RENEWAL SYS-LAB (CIPS) RENEWAL SYSTEMS 18" DIAMETER) RENEWAL CENTER INTEGRATIVE D181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (10"-\$: PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS 18" DIAMETER) RENEWAL CENTER INTEGRATIVE D181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$: PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS 22" DIAMETER) RENEWAL CENTER INTEGRATIVE D181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$: PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS 22" DIAMETER) RENEWAL SYSTEMS 22" DIAMETER) RENEWAL SYSTEMS 30" DIAMETER) RENEWAL	\$20,000 \$130,000 \$30,000
PLANT SYS-LAB (CIPS)  RENEWAL  DEFERRED PLANT SYS-LAB (CIPS)  RENEWAL  SYSTEMS  DIAMETER) RENEWAL  CENTER INTEGRATIVE  DIBMETER) RENEWAL  DEFERRED PLANT SYS-LAB (CIPS)  RENEWAL  SYSTEMS  DIAMETER) RENEWAL  CENTER INTEGRATIVE  DIBMETER) RENEWAL  DEFERRED PLANT SYS-LAB (CIPS)  RENEWAL  SYSTEMS  DIAMETER) RENEWAL	\$20,000 \$130,000 \$30,000
CENTER INTEGRATIVE PLANT SYS-LAB (CIPS)  CENTER INTEGRATIVE O181A DEFERRED BUILDING CASEWORK - LABORATORY, INCLUDES \$  PLANT SYS-LAB (CIPS)  CENTER INTEGRATIVE PLANT SYS-LAB (CIPS)  RENEWAL SYSTEMS  CENTER INTEGRATIVE PLANT SYS-LAB (CIPS)  CENTER INTEGRATIVE PLANT SYS-LAB (CIPS)  RENEWAL SYSTEMS  CENTER INTEGRATIVE PLANT SYS-LAB (CIPS)  CENTER INTEGRATIVE PLANT SYS-LAB (CIPS)  RENEWAL SYSTEMS  CENTER INTEGRATIVE PLANT SYS-LAB (CIPS)  CENTER IN	\$130,000 \$30,000
PLANT SYS-LAB (CIPS)  RENEWAL INTERIOR ACOUSTICAL TILE, STANDARD RENEWAL  CENTER INTEGRATIVE 0181A DEFERRED BUILDING CASEWORK - LABORATORY, INCLUDES \$.  PLANT SYS-LAB (CIPS)  RENEWAL INTERIOR REAGENT SHELF AND TOP RENEWAL  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FLOORING - VINYL COMPOSITION TILE, \$.  PLANT SYS-LAB (CIPS)  RENEWAL INTERIOR STANDARD RENEWAL  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FLOORING - VINYL SHEET, STANDARD \$.  PLANT SYS-LAB (CIPS)  RENEWAL INTERIOR RENEWAL  CENTER INTEGRATIVE 0181A DEFERRED BUILDING WALL FINISH - APPLIED, STANDARD \$.  PLANT SYS-LAB (CIPS)  RENEWAL INTERIOR RENEWAL  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (10"- \$.  PLANT SYS-LAB (CIPS)  RENEWAL SYSTEMS 18" DIAMETER) RENEWAL  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (20"- \$.  PLANT SYS-LAB (CIPS)  RENEWAL SYSTEMS 22" DIAMETER) RENEWAL  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (20"- \$.  PLANT SYS-LAB (CIPS)  RENEWAL SYSTEMS 22" DIAMETER) RENEWAL  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (25"- \$.  PLANT SYS-LAB (CIPS)  RENEWAL SYSTEMS 30" DIAMETER) RENEWAL	\$130,000 \$30,000
CENTER INTEGRATIVE PLANT SYS-LAB (CIPS)  RENEWAL INTERIOR REAGENT SHELF AND TOP RENEWAL  CENTER INTEGRATIVE O181A DEFERRED BUILDING FLOORING - VINYL COMPOSITION TILE, STANDARD RENEWAL  CENTER INTEGRATIVE O181A DEFERRED BUILDING FLOORING - VINYL SHEET, STANDARD STANDARD RENEWAL  CENTER INTEGRATIVE O181A DEFERRED BUILDING FLOORING - VINYL SHEET, STANDARD STANDARD RENEWAL  CENTER INTEGRATIVE O181A DEFERRED BUILDING WALL FINISH - APPLIED, STANDARD STAND	\$30,000
PLANT SYS-LAB (CIPS)  RENEWAL INTERIOR REAGENT SHELF AND TOP RENEWAL  CENTER INTEGRATIVE D181A DEFERRED RENEWAL INTERIOR STANDARD RENEWAL  CENTER INTEGRATIVE D181A DEFERRED RENEWAL INTERIOR RENEWAL  CENTER INTEGRATIVE D181A DEFERRED RENEWAL INTERIOR RENEWAL  CENTER INTEGRATIVE D181A DEFERRED RENEWAL INTERIOR RENEWAL  CENTER INTEGRATIVE D181A DEFERRED RENEWAL RENEWAL  CENTER INTEGRATIVE D181A DEFERRED RENEWAL SYSTEMS 18" DIAMETER) RENEWAL  CENTER INTEGRATIVE D181A DEFERRED RENEWAL SYSTEMS 18" DIAMETER) RENEWAL  CENTER INTEGRATIVE D181A DEFERRED RENEWAL  CENTER INTEGRATIVE D181A D18	\$30,000
CENTER INTEGRATIVE 0181A DEFERRED BUILDING FLOORING - VINYL COMPOSITION TILE, PLANT SYS-LAB (CIPS)  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FLOORING - VINYL SHEET, STANDARD \$1 PLANT SYS-LAB (CIPS)  CENTER INTEGRATIVE 0181A DEFERRED BUILDING RENEWAL  CENTER INTEGRATIVE 0181A DEFERRED BUILDING RENEWAL  CENTER INTEGRATIVE 0181A DEFERRED BUILDING RENEWAL  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (10"-\$1 PLANT SYS-LAB (CIPS)  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$1 PLANT SYS-LAB (CIPS)  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$1 PLANT SYS-LAB (CIPS)  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$1 PLANT SYS-LAB (CIPS)  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (25"-\$1 PLANT SYS-LAB (CIPS)  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (25"-\$1 PLANT SYS-LAB (CIPS)  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (25"-\$1 PLANT SYS-LAB (CIPS)  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (25"-\$1 PLANT SYS-LAB (CIPS)	
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CENTER INTEGRATIVE   0181A   DEFERRED   BUILDING   FLOORING - VINYL SHEET, STANDARD   \$! PLANT SYS-LAB (CIPS)   RENEWAL   INTERIOR   RENEWAL   RENEWAL    CENTER INTEGRATIVE   0181A   DEFERRED   BUILDING   RENEWAL   INTERIOR   RENEWAL    CENTER INTEGRATIVE   0181A   DEFERRED   BUILDING   FAN - CENTRIFUGAL ROOF EXHAUST (10"-\$! PLANT SYS-LAB (CIPS)   RENEWAL   SYSTEMS   18" DIAMETER) RENEWAL    CENTER INTEGRATIVE   0181A   DEFERRED   BUILDING   FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$! PLANT SYS-LAB (CIPS)   RENEWAL   SYSTEMS   22" DIAMETER) RENEWAL    CENTER INTEGRATIVE   0181A   DEFERRED   BUILDING   FAN - CENTRIFUGAL ROOF EXHAUST (25"-\$! PLANT SYS-LAB (CIPS)   RENEWAL   SYSTEMS   30" DIAMETER) RENEWAL	\$55,000
PLANT SYS-LAB (CIPS)  RENEWAL  SYSTEMS  RENEWAL	\$55,000
CENTER INTEGRATIVE 0181A DEFERRED RENEWAL INTERIOR RENEWAL  CENTER INTEGRATIVE 0181A DEFERRED BUILDING RENEWAL  CENTER INTEGRATIVE 0181A DEFERRED RENEWAL  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (10"-\$: 18" DIAMETER) RENEWAL  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$: 18" DIAMETER) RENEWAL  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (25"-\$: 18" DIAMETER) RENEWAL  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (25"-\$: 18" DIAMETER) RENEWAL  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (25"-\$: 25" DIAMETER) RENEWAL	
PLANT SYS-LAB (CIPS)  RENEWAL  SYSTEMS  RENEWAL  RENEWAL  RENEWAL  SYSTEMS  RENEWAL  RENEWAL  RENEWAL  RENEWAL  SYSTEMS  RENEWAL  RENEWAL  SYSTEMS  RENEWAL  RENEWAL  SYSTEMS  RENEWAL  RENEWAL  RENEWAL  SYSTEMS  RENEWAL  RENEWAL  RENEWAL  SYSTEMS  RENEWAL  RENEWAL  RENEWAL  SYSTEMS  RENEWAL	4
CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (10"- \$: PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS 18" DIAMETER) RENEWAL CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (20"- \$: PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS 22" DIAMETER) RENEWAL CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (25"- \$: PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS 30" DIAMETER) RENEWAL	\$2,815,000
PLANT SYS-LAB (CIPS)  RENEWAL SYSTEMS 18" DIAMETER) RENEWAL  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (20"- \$30" DIAMETER) RENEWAL  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (25"- \$30" DIAMETER) RENEWAL	<del> </del>
CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (20"- \$2 PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS 22" DIAMETER) RENEWAL CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (25"- \$2 PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS 30" DIAMETER) RENEWAL	\$115,000
PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS 22" DIAMETER) RENEWAL  CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (25"- \$!  PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS 30" DIAMETER) RENEWAL	<del> </del>
CENTER INTEGRATIVE 0181A DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (25"- \$! PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS 30" DIAMETER) RENEWAL	\$25,000
PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS 30" DIAMETER) RENEWAL	
	\$55,000
	\$65,000
PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS	
CENTER INTEGRATIVE   0181A   DEFERRED   BUILDING   COM EXTERIOR BLDG MT DECO   \$:	\$35,000
PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS LIGHTING (COACH, SCONCE, PEND,	
CENTER INTEGRATIVE   0181A   DEFERRED   BUILDING   ENVIRONMENTAL CHAMBER   \$2	\$20,000
PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS MECHANICAL SYSTEM RENEWAL	
CENTER INTEGRATIVE   0181A   DEFERRED   BUILDING   ENVIRONMENTAL CHAMBER STRUCTURE   \$!	\$55,000
PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS RENEWAL	
CENTER INTEGRATIVE 0181A DEFERRED BUILDING EXPANSION TANK, STL PT (50-450 GAL) \$2	\$25,000
PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS RENEWAL	
CENTER INTEGRATIVE   0181A   DEFERRED   BUILDING   FAN - UTILITY SET (.6-1.25 HP) RENEWAL   \$:	\$120,000
PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS	
CENTER INTEGRATIVE 0181A DEFERRED BUILDING FIRE ALARM PANEL, DIALER, BATTERY, & \$4	\$435,000
PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS CHARGER UP TO 50 POINTS RENEWAL	
CENTER INTEGRATIVE   0181A   DEFERRED   BUILDING   FIRE ALARM SYSTEM - DEVICES RENEWAL   \$!	\$55,000
PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS	
CENTER INTEGRATIVE 0181A DEFERRED BUILDING HOOD, FUME RENEWAL \$:	\$35,000
PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS	
CENTER INTEGRATIVE 0181A DEFERRED BUILDING HVAC CONTROLS - FIELD PANELS/OPS \$	\$55,000
PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS SOFTWARE AND MAJOR	
CENTER INTEGRATIVE 0181A DEFERRED BUILDING HVAC DISTRIBUTION NETWORKS - \$3	\$30,000
PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS LABORATORY, WET RENEWAL	<b>400,000</b>
CENTER INTEGRATIVE 0181A DEFERRED BUILDING LIGHTING SYSTEM, INTERIOR - \$:	
PLANT SYS-LAB (CIPS) RENEWAL SYSTEMS LABORATORY, WET RENEWAL	\$3,645,000

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	LOAD INTERRUPTER ALLOCATION (5-15	\$215,000
PLANT SYS-LAB (CIPS)		RENEWAL	SYSTEMS	kV, UP TO 600 AMP) RENEWAL	
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	MAIN SWITCHBOARD W/BREAKERS	\$30,000
PLANT SYS-LAB (CIPS)		RENEWAL	SYSTEMS	(>2500 AMP) RENEWAL	
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	MC SWGR INCOMING PWR CONNECT	\$185,000
PLANT SYS-LAB (CIPS)		RENEWAL	SYSTEMS	(CABLE/CONDUIT) RENEWAL	
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	MC SWGR METERING AND INSTRUMENT	\$30,000
PLANT SYS-LAB (CIPS)		RENEWAL	SYSTEMS	SYSTEMS RENEWAL	
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	MOTOR CONTROL CENTER VERTICAL	\$3,000,000
PLANT SYS-LAB (CIPS)		RENEWAL	SYSTEMS	SECTION, 600V (401-600A) W/STARTERS	
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	PLUMBING FIXTURE - SINK,	\$1,595,000
PLANT SYS-LAB (CIPS)		RENEWAL	SYSTEMS	SERVICE/LAUNDRY/UTILITY RENEWAL	
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	PRESSURE REDUCING VALVE, STEAM	\$5,935,000
PLANT SYS-LAB (CIPS)		RENEWAL	SYSTEMS	SYSTEM (4") RENEWAL	
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	PUMP - ELECTRIC (<=10 HP) RENEWAL	\$75,000
PLANT SYS-LAB (CIPS)		RENEWAL	SYSTEMS		
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	RES EXTERIOR BLDG MT DECO OR FLOOD	\$70,000
PLANT SYS-LAB (CIPS)		RENEWAL	SYSTEMS	LIGHTING RENEWAL	
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	SUPPLY PIPING SYSTEM - LABORATORY,	\$25,000
PLANT SYS-LAB (CIPS)		RENEWAL	SYSTEMS	WET RENEWAL	
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV	\$235,000
PLANT SYS-LAB (CIPS)		RENEWAL	SYSTEMS	PRIMARY (751-1000 KVA) RENEWAL	
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	UNIT HEATER, STEAM/HYDRONIC STD	\$1,400,000
PLANT SYS-LAB (CIPS)		RENEWAL	SYSTEMS	(TO 250 MBH) RENEWAL	
CENTER INTEGRATIVE	0181A	DEFERRED	BUILDING	WATER TANK (55-274 GAL) RENEWAL	\$420,000
PLANT SYS-LAB (CIPS)		RENEWAL	SYSTEMS		

\$39,930,000

CENTRAL SCHOOL	0204	DEFERRED	BUILDING	INTERIOR PAINTING - REPAINT	\$61,000
		RENEWAL	INTERIOR	HALLWAYS AND HIGH USE ROOMS	
CENTRAL SCHOOL	0204	DEFERRED	BUILDING	EXTERIOR MASONRY AND CAULKING	\$46,000
		RENEWAL	ENVELOPE	REPAIRS	
CENTRAL SCHOOL	0204	DEFERRED	BUILDING	CENTRAL SCHOOLS BOILER 1, 2 AND 3	\$219,000
		RENEWAL	SYSTEMS	REPLACEMENT	
CENTRAL SCHOOL	0204	DEFERRED	BUILDING	REPLACE ELEVATOR 1	\$306,000
		RENEWAL	SYSTEMS		
CENTRAL SCHOOL	0204	DEFERRED	BUILDING	REPLACE ALL TOILET FLUSH VALVES,	\$28,000
		RENEWAL	SYSTEMS	LAVATORY FAUCETS AND TRIM, KITCHEN	
CENTRAL SCHOOL	0204	DEFERRED	BUILDING	REPLACE ROOFING #1, 2, 3, 4	\$200,000
		RENEWAL	ENVELOPE		
CENTRAL SCHOOL	0204	DEFERRED	BUILDING	CENTRAL SCHOOL REPLACE VCT	\$300,000
		RENEWAL	INTERIOR	FLOORING THROUGHOUT BUILDING	

\$1,160,000

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
CENTRAL SERVICES	0060	2025	BUILDING	REPLACE FIRE ALARM SYSTEM AND ADD	\$335,000
			SYSTEMS	SMOKE DETECTION	
CENTRAL SERVICES	0060	DEFERRED	BUILDING	REPLACE OLD WINDOWS WITH	\$272,000
		RENEWAL	ENVELOPE	ALUMINUM FRAMED, INSULATED GLASS.	
CENTRAL SERVICES	0060	DEFERRED	BUILDING	REPLACE ELEVATOR 2	\$306,000
		RENEWAL	SYSTEMS		
CENTRAL SERVICES	0060	DEFERRED	BUILDING	REPLACE ALL OLD LIGHTING PANELS	\$205,000
		RENEWAL	SYSTEMS		
CENTRAL SERVICES	0060	DEFERRED	BUILDING	REPLACE AND UPGRADE ELECTRICAL	\$304,000
		RENEWAL	SYSTEMS	DISTRIBUTION AND LIGHTING PANELS	
CENTRAL SERVICES	0060	DEFERRED	BUILDING	REPLACE ROOF TOP AIR CONDITIONING	\$54,000
		RENEWAL	SYSTEMS	UNIT FOR ROOMS 115 AND 116	

\$1,476,000

CHEMISTRY	0163	2022	BUILDING	REPLACE CHEMISTRY ATS	\$20,000
			SYSTEMS		
CHEMISTRY	0163	DEFERRED	BUILDING	REPLACE ELEVATOR 3	\$61,000
		RENEWAL	SYSTEMS		
CHEMISTRY	0163	DEFERRED	BUILDING	MASONRY AND CAULKING RESTORATION	\$573,000
		RENEWAL	ENVELOPE	IN CHEM HALL	
CHEMISTRY	0163	DEFERRED	BUILDING	CHEMISTRY - OVERLOADED PANELS	\$31,000
		RENEWAL	SYSTEMS		
CHEMISTRY	0163	DEFERRED	BUILDING	INSTALL NEW LIGHTING PANELS (12)	\$80,000
		RENEWAL	SYSTEMS		
CHEMISTRY	0163	DEFERRED	BUILDING	REMOVE DI-ELECTRIC UNIONS AND	\$28,000
		RENEWAL	SYSTEMS	REPLACE WITH BRASS UNIONS OR	
CHEMISTRY	0163	DEFERRED	BUILDING	REPLACE CHEMISTRY HVAC-1	\$1,067,000
		RENEWAL	SYSTEMS		
CHEMISTRY	0163	DEFERRED	BUILDING	REPLACE CHEMISTRY HVAC-2	\$1,067,000
		RENEWAL	SYSTEMS		
CHEMISTRY	0163	DEFERRED	BUILDING	REPLACE TOILET FLUSH VAVLES,	\$38,000
		RENEWAL	SYSTEMS	LAVATORY FAUCETS AND TRIM, AND	

\$2,965,000

CLINICAL CENTER-	0202	2024	BUILDING	UPGRADE 3 DDC PANEL SERVING ULAR	\$68,000
ANIMAL			SYSTEMS	AREA	
CLINICAL CENTER-	0202	DEFERRED	BUILDING	REPLACE ANIMAL ROOM WET VACUUM	\$44,000
ANIMAL		RENEWAL	SYSTEMS	SYSTEM	

\$112,000

CLINICAL CENTER-	0200	2022	BUILDING	ROOF REPLACEMENT/RESTORATION ON	\$1,867,000
CLINIC			ENVELOPE	WINGS A, B, C	
CLINICAL CENTER-	0200	2024	BUILDING	REPLACE DRY COOLER 1	\$32,000
CLINIC			SYSTEMS		

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
CLINICAL CENTER-	0200	2024	BUILDING	REPLACE DRY COOLER 2	\$32,000
CLINIC			SYSTEMS		
CLINICAL CENTER-	0200	DEFERRED	BUILDING	REPLACE EXTERIOR OVERHANG AND	\$201,000
CLINIC		RENEWAL	INTERIOR	CEILING AT NORTH ENTRANCE	
CLINICAL CENTER-	0200	DEFERRED	BUILDING	REPLACE EXISTING METAL SIDING ON	\$4,823,000
CLINIC		RENEWAL	ENVELOPE	ENTIRE COMPLEX	
CLINICAL CENTER-	0200	DEFERRED	BUILDING	REPLACE CEILING TILE AND GRID IN	\$1,088,000
CLINIC		RENEWAL	INTERIOR	ENTIRE BUILDING	
CLINICAL CENTER-	0200	DEFERRED	BUILDING	HVAC EQUIPMENT - AHU	\$427,000
CLINIC		RENEWAL	SYSTEMS		
CLINICAL CENTER-	0200	DEFERRED	BUILDING	LIGHTING FIXTURES	\$36,000
CLINIC		RENEWAL	SYSTEMS		
CLINICAL CENTER-	0200	DEFERRED	BUILDING	REPLACEMENT OF CHILLED WATER	\$107,000
CLINIC		RENEWAL	SYSTEMS	PUMPS	
CLINICAL CENTER-	0200	DEFERRED	BUILDING	UPGRADE PCB TRANSFORMERS AND	\$1,750,000
CLINIC		RENEWAL	SYSTEMS	ELECTRICAL DISTRIBUTION	
CLINICAL CENTER-	0200	DEFERRED	BUILDING	NEW BLDG STEAM PRV SYSTEM FOR	\$155,000
CLINIC		RENEWAL	SYSTEMS	CLINICAL A, B, AND C	
CLINICAL CENTER-	0200	DEFERRED	BUILDING	REPLACE STEAM SERVICE TO INSIDE OF	\$167,000
CLINIC		RENEWAL	SYSTEMS	BUILDING	
CLINICAL CENTER-	0200	DEFERRED	BUILDING	REPLACE URINAL FLUSH VALAVES, TOILET	\$32,000
CLINIC		RENEWAL	SYSTEMS	FLUSH VALVES, AND TOILET SEATS IN	

\$10,717,000

CLINICAL CENTER-	0201	2021	BUILDING	REPLACE FLOOR TILE AND WALL BASE IN	\$95,000
OFFICE/LAB			INTERIOR	CORRIDORS OF OFFICE WING	
CLINICAL CENTER-	0201	DEFERRED	BUILDING	REPLACE CEILING TILE IN ENTIRE OFFICE	\$68,000
OFFICE/LAB		RENEWAL	INTERIOR	WING	

\$163,000

COMMUNICATION	0084	DEFERRED	BUILDING	REPLACE COMM ARTS ATS	\$20,000
ARTS		RENEWAL	SYSTEMS		
COMMUNICATION	0084	DEFERRED	BUILDING	PUMPS	\$21,000
ARTS		RENEWAL	SYSTEMS		
COMMUNICATION	0084	DEFERRED	BUILDING	REPLACE 17 AIR HANDLING UNITS AND	\$3,535,000
ARTS		RENEWAL	SYSTEMS	ASSOCIATED FANS, PLUS 255 VAV BOXES	
COMMUNICATION	0084	DEFERRED	BUILDING	DOORS - EXTERIOR - BD	\$34,000
ARTS		RENEWAL	ENVELOPE		
COMMUNICATION	0084	DEFERRED	BUILDING	INSTALL NEW DISTRIBUTION PANELS (6)	\$187,000
ARTS		RENEWAL	SYSTEMS		
COMMUNICATION	0084	DEFERRED	BUILDING	REPLACE DOMESTIC COLD WATER	\$32,000
ARTS		RENEWAL	SYSTEMS	METER AND ASSOCIATED SHUT OFF	
COMMUNICATION	0084	DEFERRED	BUILDING	REPLACE ONE CONDENSER PUMP	\$83,000
ARTS		RENEWAL	SYSTEMS		

\$3,912,000

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
COMMUNICATION	0084A	DEFERRED	BUILDING	HVAC EQUIPMENT - AHU	\$29,000
ARTS - MITN		RENEWAL	SYSTEMS		
COMMUNICATION	0084A	DEFERRED	BUILDING	VAV SYSTEM	\$94,000
ARTS - MITN		RENEWAL	SYSTEMS		
	•		•		\$122,000

\$123,000

COMPUTER CENTER	0035	2022	BUILDING	REPLACE 15 TON WATER COOLED	\$106,000
			SYSTEMS	LIEBERT A/C SYSTEM	
COMPUTER CENTER	0035	2022	BUILDING	REPLACE 15 TON WATER COOLED	\$106,000
			SYSTEMS	LIEBERT A/C SYSTEM	
COMPUTER CENTER	0035	2022	BUILDING	REPLACE 15 TON WATER COOLED	\$106,000
			SYSTEMS	LIEBERY A/C SYSTEM	
COMPUTER CENTER	0035	2022	BUILDING	REPLACE 30 TON DRY COOLER & 2	\$39,000
			SYSTEMS	PUMPS THAT SERVE FOR HEAT	
COMPUTER CENTER	0035	2023	BUILDING	REPLACE 15 TON WATER COOLED	\$106,000
			SYSTEMS	LIEBERT A/C SYSTEM	
COMPUTER CENTER	0035	2023	BUILDING	REPLACE 15 TON WATER COOLED	\$106,000
			SYSTEMS	LIEBERT A/C SYSTEM	
COMPUTER CENTER	0035	2023	BUILDING	REPLACE 30 TON DRY COOLER AND 2	\$39,000
			SYSTEMS	PUMPS THAT SERVE FOR HEAT	
COMPUTER CENTER	0035	2024	BUILDING	REPLACE 30 TON DRY COOLER AND 2	\$39,000
			SYSTEMS	PUMPS THAT SERVE FOR HEAT	
COMPUTER CENTER	0035	DEFERRED	BUILDING	REPLACE 13 BRANCH CIRCUIT PANELS	\$102,000
		RENEWAL	SYSTEMS		
COMPUTER CENTER	0035	DEFERRED	BUILDING	REPLACE ALL HOT AND COLD WATER	\$96,000
		RENEWAL	SYSTEMS	SHUT OFF VALVES AND RE-INSULATE.	
COMPUTER CENTER	0035	DEFERRED	BUILDING	WINDOWS - REPLACE BUILDING	\$765,000
		RENEWAL	ENVELOPE	WINDOWS AND GLASS BLOCK.	
COMPUTER CENTER	0035	DEFERRED	BUILDING	COMPUTER CENTER - REPLACE FIRE	\$435,000
		RENEWAL	SYSTEMS	ALARM SYSTEM	
COMPUTER CENTER	0035	DEFERRED	BUILDING	REPLACE CONTROL AIR COMPRESSOR	\$40,000
		RENEWAL	SYSTEMS		
COMPUTER CENTER	0035	DEFERRED	BUILDING	SUBSTATIONS/TRANSFORMERS - 13.2 KV	\$724,000
		RENEWAL	SYSTEMS		

\$2,809,000

CONRAD HALL	0328	DEFERRED	BUILDING	REPLACE CONRAD HALL ATS	\$20,000
		RENEWAL	SYSTEMS		
CONRAD HALL	0328	DEFERRED	BUILDING	REPLACE BOOSTER COIL VALVES	\$154,000
		RENEWAL	SYSTEMS		
CONRAD HALL	0328	DEFERRED	BUILDING	REPLACE OLD LIGHTING PANELS	\$37,000
		RENEWAL	SYSTEMS		
CONRAD HALL	0328	DEFERRED	BUILDING	CONRAD HALL- UPRADE PCB	\$118,000
		RENEWAL	SYSTEMS	TRANSFORMERS AND ELECTRICAL	

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total Estimate
CONDADILALI	0000	Year	B1 111 B1416	OULUS OUL	
CONRAD HALL	0328	DEFERRED	BUILDING	CHILLER - CH1	\$259,000
CONDADULAL	0000	RENEWAL	SYSTEMS	DEDLA 05 DOMESTIC COLD WATER	422.000
CONRAD HALL	0328	DEFERRED	BUILDING	REPLACE DOMESTIC COLD WATER	\$32,000
		RENEWAL	SYSTEMS	SHUTOFF VALVES AND WATER METER	
					\$620,000
COOK-SEEVERS HALL	0020	2025	BUILDING	REPLACE FLUSH VALVES, TOILET SEATS,	\$25,000
			SYSTEMS	LAVATORY FAUCETS, & WATER COOLERS	
					\$25,000
COWLES HOUSE	0009	2025	BUILDING	REPLACE OR REPAIR ROOFS 3,4,5,6,7	\$184,000
			ENVELOPE	AND 9.	
					\$184,000
CROP SCIENCE-FIELD	0213	DEFERRED	BUILDING	VAV SYSTEM	\$302,000
LAB		RENEWAL	SYSTEMS		' '
CROP SCIENCE-FIELD	0213	DEFERRED	BUILDING	REPLACE RESTROOM PLUMBING	\$32,000
LAB		RENEWAL	SYSTEMS	FIXTURES	
CROP SCIENCE-FIELD	0213	DEFERRED	BUILDING	PUMPS	\$102,000
LAB		RENEWAL	SYSTEMS		
CROP SCIENCE-FIELD	0213	DEFERRED	BUILDING	REPLACE ELEVATOR 1	\$306,000
LAB		RENEWAL	SYSTEMS		
	1	•			\$742,000
CROP SCIENCE-	0442F	2024	BUILDING	REPLACE ROOF #1	\$22,000
PESTICIDE/HERBICIDE			ENVELOPE		
·					\$22,000
CROP SCIENCE-STRG 1	0442E	2024	BUILDING	REPLACE ROOF #1	\$121,000
			ENVELOPE		
	•	•	•		\$121,000
DAIRY RESEARCH-	0469A	DEFERRED	BUILDING	REPAIR SETTLING FLOOR AND REPIPE	\$54,000
HEIFER BARN 1		RENEWAL	INTERIOR	HEATING LINES TO CONVECTORS IN	
					\$54,000
DAIRY RESEARCH-	0469P	DEFERRED	BUILDING	EAST, SOUTH AND WEST DOORS -	\$20,000
HEIFER BARN 2		RENEWAL	ENVELOPE	REPLACEMENT	
					\$20,000
DEMONSTRATION	0057	2024	BUILDING	REPLACE DEMONSTRATION HALL ROOF -	\$321,000
HALL			ENVELOPE	AREA 4	
DEMONSTRATION	0057	2024	BUILDING	REPLACE DEMONSTRATION HALL ROOF -	\$367,000
HALL				AREA 6	
17 16 6					

DEMONSTRATION 0057 2021 BUILDING RENEWAL DEMONSTRATION 0057 2023 BUILDING ENVELOPE DEMONSTRATION 0057 2024 BUILDING ENVELOPE DEMONSTRATION 0057 2025 BUILDING INTERIOR STAIN, STANDARD RENEWAL DEMONSTRATION 0057 DEFERRED BUILDING RENEWAL SYSTEMS DEMONSTRATION 0057 DEFERRED BUILDING RENEWAL DEMONSTRATION 0057 DEFERRED BUILDING RENEWAL SYSTEMS DEMONSTRATION 0057 DEFERRED BUILDING RENEWAL ENVELOPE WINDOWS (-197)  DEMONSTRATION 0057 DEFERRED BUILDING RENEWAL SYSTEMS DEMONSTRATION 0057 DEFERRED BUILDING RENEWAL SYSTEMS DEMONSTRATION 0057 DEFERRED BUILDING REPLACE ENTERCION SYSTEMS DEMONSTRATION 0057 DEFERRED BUILDING REPLACE RESTROOM FIXTURES AND \$64,000 HALL RENEWAL SYSTEMS DOOR AND FRAME, EXTERIOR, \$1,230,60 METAL RENEWAL DEMONSTRATION 0057 DEFERRED BUILDING REPLACE WATER SOFTENER SYSTEM IN \$64,000 METAL RENEWAL DEMONSTRATION 0057 DEFERRED BUILDING REPLACE WATER SOFTENER SYSTEM IN \$64,000 METAL RENEWAL DOOR, EXTERIOR, OVERHEAD ROLLING \$1,200,000 METAL LOCK RENEWAL DOOR, EXTERIOR, OVERHEAD ROLLING \$1,200,000 METAL LOCK RENEWAL DOOR, EXTERIOR, OVERHEAD DOOR, \$1,200,000 METAL LOCK RENEWAL DOOR OPERATOR, OVERHEAD DOOR, \$1,200,000 METAL LOCK RENEWAL DOOR OPERATOR, POWER-ASSIST \$20,000 DEMONSTRATION 0057 DEFERRED BUILDING RENEWAL DOOR OPERATOR, POWER-ASSIST \$20,000 METAL PROPERTY.	Building Name	Bldg Work Pla
DEMONSTRATION 0057 2021 BUILDING RENEWAL SCENTING AND SYSTEMS DEMONSTRATION 0057 DEFERRED BUILDING RENEWAL SYSTEMS DUILDING RENEWAL DEMONSTRATION 0057 DEFERRED BUILDING REPLACE WATER SOFTENER SYSTEM IN \$64,000 WATER COOLERS DUILDING REPLACE WATER SOFTENER SYSTEM IN \$64,000 WATER COOLERS DUILDING REPLACE WATER SOFTENER SYSTEM IN \$64,000 WATER COOLERS DUILDING REPLACE WATER SOFTENER SYSTEM IN \$64,000 WATER COOLERS DUILDING REPLACE WATER SOFTENER SYSTEM IN \$64,000 WATER COOLERS DUILDING REPLACE WATER SOFTENER SYSTEM IN \$64,000 WATER COOLERS DUILDING REPLACE WATER SOFTENER SYSTEM IN \$64,000 WATER COOLERS DUILDING REPLACE WATER SOFTENER SYSTEM IN \$64,000 WATER COOLERS DUILDING REPLACE WATER SOFTENER SYSTEM IN \$64,000 WATER COOLERS DUILDING REPLACE WATER SOFTENER SYSTEM IN \$64,000 WATER COOLERS DUILDING REPLACE WATER SOFTENER SYSTEM IN \$64,000 WATER COOLERS DUILDING DOOR OPERATOR, OVERHEAD DOOR, \$1,20,000 WATER COOLERS DUILDING REPLACE WATER SOFTENER SYST	ballanig Name	_
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HALL  DEMONSTRATION HALL  HALL  DEMONSTRATION HALL  HALL  HALL  HALL  BUILDING HALL  H	HALL	RENEWA
DEMONSTRATION HALL0057DEFERRED RENEWALBUILDING ENVELOPEDOOR, EXTERIOR, OVERHEAD ROLLING METAL, LOCK RENEWAL\$114,000DEMONSTRATION HALL0057DEFERRED RENEWALBUILDING ENVELOPEDOOR LOCK, SECURITY, EXTERIOR RENEWAL\$37,600DEMONSTRATION HALL0057DEFERRED RENEWALBUILDING ENVELOPEDOOR OPERATOR, OVERHEAD DOOR, COMMERCIAL, PADS RENEWAL\$120,000DEMONSTRATION0057DEFERREDBUILDINGDOOR OPERATOR, POWER-ASSIST\$20,000	DEMONSTRATION	0057 DEFERRE
HALL  DEMONSTRATION HALL  HALL  DEMONSTRATION HALL  HALL  HALL  HALL  BUILDING HALL  HAL	HALL	RENEWA
DEMONSTRATION0057DEFERRED RENEWALBUILDING ENVELOPEDOOR LOCK, SECURITY, EXTERIOR RENEWAL\$37,600DEMONSTRATION0057DEFERRED RENEWALBUILDING ENVELOPEDOOR OPERATOR, OVERHEAD DOOR, COMMERCIAL, PADS RENEWAL\$120,000DEMONSTRATION0057DEFERRED DEFERREDBUILDINGDOOR OPERATOR, POWER-ASSIST\$20,000	DEMONSTRATION	0057 DEFERRE
HALL RENEWAL ENVELOPE RENEWAL  DEMONSTRATION 0057 DEFERRED BUILDING DOOR OPERATOR, OVERHEAD DOOR, \$120,000  HALL RENEWAL ENVELOPE COMMERCIAL, PADS RENEWAL  DEMONSTRATION 0057 DEFERRED BUILDING DOOR OPERATOR, POWER-ASSIST \$20,000	HALL	
DEMONSTRATION0057DEFERRED RENEWALBUILDING ENVELOPEDOOR OPERATOR, OVERHEAD DOOR, COMMERCIAL, PADS RENEWAL\$120,000DEMONSTRATION0057DEFERREDBUILDINGDOOR OPERATOR, POWER-ASSIST\$20,000	DEMONSTRATION	0057 DEFERRE
HALLRENEWALENVELOPECOMMERCIAL, PADS RENEWALDEMONSTRATION0057DEFERREDBUILDINGDOOR OPERATOR, POWER-ASSIST\$20,000	HALL	RENEWA
DEMONSTRATION 0057 DEFERRED BUILDING DOOR OPERATOR, POWER-ASSIST \$20,000	DEMONSTRATION	0057 DEFERRE
	HALL	RENEWA
HALL RENEWAL IENVELOPE RENEWAL	DEMONSTRATION	0057 DEFERRE
THE TENTE STATE ST	HALL	RENEWA
DEMONSTRATION 0057 DEFERRED BUILDING DOOR, EXTERIOR, OVERHEAD ROLLING \$224,400	DEMONSTRATION	0057 DEFERRE
HALL RENEWAL ENVELOPE METAL, LOCK RENEWAL	HALL	RENEWA
DEMONSTRATION 0057 DEFERRED BUILDING GLASS, WINDOW, ALUMINUM OR \$124,300	DEMONSTRATION	0057 DEFERRE
HALL RENEWAL ENVELOPE WOOD, STANDARD RENEWAL	HALL	RENEWA
DEMONSTRATION 0057 DEFERRED BUILDING LOADING DOCK SEAL RENEWAL \$20,000	DEMONSTRATION	0057 DEFERRE
HALL RENEWAL ENVELOPE	HALL	RENEWA
DEMONSTRATION 0057 DEFERRED BUILDING CEILING FINISH - ATTACHED ACOUSTICAL \$938,300	DEMONSTRATION	0057 DEFERRE
HALL RENEWAL INTERIOR TILE RENEWAL	HALL	RENEWA
DEMONSTRATION 0057 DEFERRED BUILDING FLOORING - VINYL COMPOSITION TILE, \$148,300	DEMONSTRATION	0057 DEFERRE
HALL RENEWAL INTERIOR STANDARD RENEWAL	HALL	RENEWA

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
DEMONSTRATION	0057	DEFERRED	BUILDING	AIR HANDLING UNIT - INDOOR (2.76-3.25	\$26,200
HALL		RENEWAL	SYSTEMS	HP) RENEWAL	
DEMONSTRATION	0057	DEFERRED	BUILDING	COM EXTERIOR BLDG MT HI FLOOD	\$36,600
HALL		RENEWAL	SYSTEMS	LIGHTING (WALLPACK, WALLWASH)	
DEMONSTRATION	0057	DEFERRED	BUILDING	DRAIN PIPING SYSTEM - GYMNASIUM	\$67,900
HALL		RENEWAL	SYSTEMS	RENEWAL	
DEMONSTRATION	0057	DEFERRED	BUILDING	FAN - AXIAL, SUPPLY (11-15 HP) 23,000	\$20,800
HALL		RENEWAL	SYSTEMS	CFM RENEWAL	
DEMONSTRATION	0057	DEFERRED	BUILDING	FAN - PROPELLER WITH LOUVER (<=0.5	\$61,400
HALL		RENEWAL	SYSTEMS	HP) RENEWAL	
DEMONSTRATION	0057	DEFERRED	BUILDING	FAN - PROPELLER WITH LOUVER (1.6-2	\$32,400
HALL		RENEWAL	SYSTEMS	HP) RENEWAL	
DEMONSTRATION	0057	DEFERRED	BUILDING	FAN - UTILITY SET (5-12 HP) RENEWAL	\$32,500
HALL		RENEWAL	SYSTEMS		
DEMONSTRATION	0057	DEFERRED	BUILDING	FIRE ALARM SYSTEM - DEVICES RENEWAL	\$53,200
HALL		RENEWAL	SYSTEMS		
DEMONSTRATION	0057	DEFERRED	BUILDING	SUPPLY PIPING SYSTEM - GYMNASIUM	\$564,200
HALL		RENEWAL	SYSTEMS	RENEWAL	

\$7,685,000

ENG RESEARCH	0203A	DEFERRED	BUILDING	REPLACE ENGINEERING RESEARCH	\$20,000
COMPLEX		RENEWAL	SYSTEMS	COMPLEX ATS	
ENG RESEARCH	0203A	DEFERRED	BUILDING	HVAC EQUIPMENT	\$900,000
COMPLEX		RENEWAL	SYSTEMS		
ENG RESEARCH	0203A	DEFERRED	BUILDING	LIGHTING FIXTURES	\$639,000
COMPLEX		RENEWAL	SYSTEMS		
ENG RESEARCH	0203A	DEFERRED	BUILDING	REPLACE DOMESTIC COLD WATER	\$32,000
COMPLEX		RENEWAL	SYSTEMS	METER AND ISOLATION VALVES IN MR-	
ENG RESEARCH	0203A	DEFERRED	BUILDING	PRELIM DESIGN, ESTIMATE, AND	\$280,000
COMPLEX		RENEWAL	SYSTEMS	PHASING PLANS - ENG RESEARCH	
ENG RESEARCH	0203A	DEFERRED	BUILDING	A AND C WING EXHAUST FANS	\$1,055,000
COMPLEX		RENEWAL	SYSTEMS	REPLACEMENT	
ENG RESEARCH	0203A	DEFERRED	BUILDING	REPLACE AIR HANDLERS SERVING A, B, &	\$1,801,000
COMPLEX		RENEWAL	SYSTEMS	C WINGS	

\$4,727,000

ENGINEERING	0081	2024	BUILDING	ACT CEILING - OLDER RENEWAL	\$407,000
			INTERIOR		
ENGINEERING	0081	2024	BUILDING	AIR COMPRESSORS - 0081-LABAIR-06,	\$115,000
			SYSTEMS	0081-LABAIR-05 RENEWAL	
ENGINEERING	0081	2024	BUILDING	AIR COMPRESSORS - CONTROL AIR -	\$36,000
			SYSTEMS	3548 RENEWAL	
ENGINEERING	0081	2024	BUILDING	AIR COMPRESSORS - CONTROL AIR -	\$36,000
			SYSTEMS	PH4500 RENEWAL	

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
banang Name	Diag	Year	1,460	Description (Title)	Estimate
ENGINEERING	0081	2024	BUILDING	AIR COMPRESSORS - LAB AIR - PH4500	\$58,000
LIVOIIVEEIMIVO	0001	2024	SYSTEMS	RENEWAL	750,000
ENGINEERING	0081	2024	BUILDING	CABINET UNIT HEATERS RENEWAL	\$26,000
LIVOIIVEEIMIVO	0001	2024	SYSTEMS	CABINET OWN HEATERS REIVEWALE	720,000
ENGINEERING	0081	2024	BUILDING	CARPETING - OLDER RENEWAL	\$166,000
LINGINEERING	0081	2024	INTERIOR	CARTETING - OLDER RENEWAL	7100,000
ENGINEERING	0081	2024	BUILDING	DOMESTIC HOT WATER SYSTEM	\$126,000
LINGINEERING	0081	2024	SYSTEMS	RENEWAL	7120,000
ENGINEERING	0081	2024	BUILDING	UPGRADE FIRE ALARM SYSTEM	\$4,200,000
LINGINELINING	0081	2024	SYSTEMS	OF GRADE FIRE ALARWI STSTEIN	74,200,000
ENGINEERING	0081	DEFERRED	BUILDING	REPLACE OLD METAL PAN CEILINGS AND	\$27,000
LINGINEERING	0081	RENEWAL	INTERIOR	LIGHTING IN STAIRWELLS OF OLD	\$27,000
ENGINEERING	0081	DEFERRED	BUILDING	EXTERIOR DOORS - REPLACE ALL	\$230,000
LINGINELINING	0081	RENEWAL	ENVELOPE	EXTERIOR DOORS - REPLACE ALL EXTERIOR DOORS, HARDWARE AND	\$230,000
ENGINEERING	0081	DEFERRED	BUILDING	COMPLETE OVERHAUL OF OLD FREIGHT	\$536,000
ENGINEERING	0081		SYSTEMS		\$556,000
ENGINEERING	0081	RENEWAL	BUILDING	ELEVATOR, CONVERT TO PASSENGER REPAIR CONCRETE AND BRICK	\$89,000
ENGINEERING	0081	DEFERRED RENEWAL			\$89,000
ENCINEEDING	0001	1	ENVELOPE	SCREENWALLS	¢20.000
ENGINEERING	0081	DEFERRED	BUILDING	REPLACE ENGINEERING ATS	\$20,000
ENCINEEDING	0001	RENEWAL	SYSTEMS	DEDLACE FALLED CLASS LINUTS	¢420.000
ENGINEERING	0081	DEFERRED	BUILDING	REPLACE FAILED GLASS UNITS	\$128,000
ENCINEEDING	0001	RENEWAL	ENVELOPE	VAVCVCTEAA	ć4 020 000
ENGINEERING	0081	DEFERRED	BUILDING	VAV SYSTEM	\$1,038,000
ENCINEEDING	0001	RENEWAL	SYSTEMS	DEDLACE 2 MECHANICAL CHILLEDS	¢404.000
ENGINEERING	0081	DEFERRED	BUILDING	REPLACE 2 MECHANICAL CHILLERS	\$401,000
ENCINEEDING	0004	RENEWAL	SYSTEMS	DEDLACE MOTOR CONTROL CENTERS	¢62.000
ENGINEERING	0081	DEFERRED	BUILDING	REPLACE MOTOR CONTROL CENTERS	\$62,000
ENCINEEDING	0081	RENEWAL	SYSTEMS	DEDLACE ODICINIAL CTEANA MATER	\$69,000
ENGINEERING	0081	DEFERRED	BUILDING	REPLACE ORIGINAL STEAM WATER	\$69,000
ENCINEEDING	0004	RENEWAL	SYSTEMS	HEATER IN MECH RM MR-21	¢75.000
ENGINEERING	0081	DEFERRED	BUILDING	REPLACEMENT OF CONDENSATE	\$75,000
ENCINEEDING	0001	RENEWAL	SYSTEMS	RECEIVER LOCATED IN THE BASEMENT	ć 4 752 000
ENGINEERING	0081	DEFERRED	BUILDING	HVAC EQUIPMENT - AHU	\$4,752,000
ENCINEEDING	0001	RENEWAL	SYSTEMS	DEDLACE DUDLEY FUD CONTROL AID	¢22.000
ENGINEERING	0081	DEFERRED	BUILDING	REPLACE DUPLEX 5HP CONTROL AIR	\$32,000
ENCINEEDING	0001	RENEWAL	SYSTEMS	COMPRESSORS ON 120 GALLON TANK	¢45.000
ENGINEERING	0081	DEFERRED	BUILDING	REPLACE LAVATORY FAUCETS AND TRIM,	\$45,000
CNCINECDING	0001	RENEWAL	SYSTEMS	TOILET FLUSH VALVES AND SEATS, AND	¢2,020,000
ENGINEERING	0081	DEFERRED	BUILDING	HVAC EQUIPMENT - AHU	\$3,030,000
ENCINEEDING	0001	RENEWAL	SYSTEMS	LICUTING FIVELINGS	¢4.054.000
ENGINEERING	0081	DEFERRED	BUILDING	LIGHTING FIXTURES	\$1,051,000
ENCINEEDING	0001	RENEWAL	SYSTEMS	DEDLACE BURLEY CONTROL A12	¢22.000
ENGINEERING	0081	DEFERRED	BUILDING	REPLACE DUPLEX CONTROL AIR	\$32,000
	1	RENEWAL	SYSTEMS	COMPRESSORS, AIR DRYER AND AIR	

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
ENGINEERING	0081	DEFERRED	BUILDING	REPLACE CHILLED WATER COILS IN HVAC	\$254,000
		RENEWAL	SYSTEMS	FANS	
ENGINEERING	0081	DEFERRED	BUILDING	REPLACE LAVATORY FAUCETS AND TRIM,	\$32,000
		RENEWAL	SYSTEMS	URINAL AND TOILET FLUSH VALVES AND	
ENGINEERING	0081	DEFERRED	BUILDING	REPLACE STEAM WATER HEATER IN MR-	\$69,000
		RENEWAL	SYSTEMS	B510	
ENGINEERING	0081	DEFERRED	BUILDING	VAV SYSTEM	\$1,447,000
		RENEWAL	SYSTEMS		

\$18,589,000

ENTOMOLOGY FIELD (	0474	DEFERRED	BUILDING	REPLACE EXTERIOR DOORS (2) OHD`S	\$27,000
RESEARCH-MAIN		RENEWAL	ENVELOPE	AND (3) HM DOORS	

\$27,000

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ERICKSON HALL	0144	2025	BUILDING	REPLACE 2 HWH PUMPS B & G 1510,	\$34,000
			SYSTEMS	VALVES AND ELECTRICAL CONTROLS	
ERICKSON HALL	0144	DEFERRED	BUILDING	ERICKSON HALL- REPLACE TWO BUNDLES	\$125,000
		RENEWAL	SYSTEMS	IN NORTH BASEMENT MECHANICAL	
ERICKSON HALL	0144	DEFERRED	BUILDING	FUND STUDY OF EXTERIOR MASONRY	\$56,000
		RENEWAL	ENVELOPE	AND CAULKING FOR RESTORATION	
ERICKSON HALL	0144	DEFERRED	BUILDING	REPLACE (2) SMALLER CONDENSATE	\$163,000
		RENEWAL	SYSTEMS	RETURN UNIT AND ONE LARGER CRU IN	
ERICKSON HALL	0144	DEFERRED	BUILDING	REPLACE ALL OLD POWER PANELS	\$369,000
		RENEWAL	SYSTEMS		
ERICKSON HALL	0144	DEFERRED	BUILDING	REPLACE FAILED GLASS UNITS	\$33,000
		RENEWAL	SYSTEMS		
ERICKSON HALL	0144	DEFERRED	BUILDING	REPLACE STEAM COIL, VALVES, TRAPS	\$35,000
		RENEWAL	SYSTEMS	ON HVAC #2 IN NORTH BASEMENT	
ERICKSON HALL	0144	DEFERRED	BUILDING	REPLACE URINAL AND TOILET FLUSH	\$44,000
		RENEWAL	SYSTEMS	VALVES	
ERICKSON HALL	0144	DEFERRED	BUILDING	REPLACE DOMESTIC WATER METER AND	\$38,000
		RENEWAL	SYSTEMS	ISOLATION VALVES (SOUTH SIDE OF MR-	
ERICKSON HALL	0144	DEFERRED	BUILDING	REPLACE SF-6	\$758,000
		RENEWAL	SYSTEMS		
ERICKSON HALL	0144	DEFERRED	BUILDING	REPLACE SF-7	\$832,000
		RENEWAL	SYSTEMS		
ERICKSON HALL	0144	DEFERRED	BUILDING	REPLACE SF-8	\$886,000
		RENEWAL	SYSTEMS		
ERICKSON HALL	0144	DEFERRED	BUILDING	REPLACE SF-9	\$758,000
		RENEWAL	SYSTEMS		
ERICKSON HALL	0144	DEFERRED	BUILDING	UPDATE FIRE ALARM SYSTEM	\$995,000
		RENEWAL	SYSTEMS		
	•				A= 406 000

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
EUSTACE-COLE HALL	0015	2024	BUILDING	REPLACE CHILLER - 1	\$207,000
			SYSTEMS		
EUSTACE-COLE HALL	0015	DEFERRED	BUILDING	PUMPS	\$138,000
		RENEWAL	SYSTEMS		
EUSTACE-COLE HALL	0015	DEFERRED	BUILDING	VAV SYSTEM	\$290,000
		RENEWAL	SYSTEMS		

\$635,000

FARRALL HALL	0091	2021	BUILDING	REPLACE FIVE ROOFTOP UNITS AT	\$200,000
			SYSTEMS	FARRALL HALL	
FARRALL HALL	0091	DEFERRED	BUILDING	UPGRADE FIRE DOORS TO STAIRWELLS	\$20,000
		RENEWAL	INTERIOR	WITH NEW DOORS AND HARDWARE	
FARRALL HALL	0091	DEFERRED	BUILDING	INTERIOR DOOR/ FRAME/ HARDWARE	\$50,000
		RENEWAL	INTERIOR	REPLACEMENTS IN BASEMENT LEVEL	
FARRALL HALL	0091	DEFERRED	BUILDING	REPLACE LIGHTING AND POWER	\$60,000
		RENEWAL	SYSTEMS	DISTRIBUTION PANELS	
FARRALL HALL	0091	DEFERRED	BUILDING	REPLACE OBSOLETE FIXTURES AND	\$646,000
		RENEWAL	SYSTEMS	BRANCH CIRCUIT WIRING	
FARRALL HALL	0091	DEFERRED	BUILDING	REPLACE STEEL WINDOWS WITH NEW	\$550,000
		RENEWAL	ENVELOPE	INSULATED WINDOWS	
FARRALL HALL	0091	DEFERRED	BUILDING	FARRALL HALL - INSTALL NEW	\$44,000
		RENEWAL	SYSTEMS	ELECTRICAL MAIN STEAM VALVE	
FARRALL HALL	0091	DEFERRED	BUILDING	PUMPS	\$34,000
		RENEWAL	SYSTEMS		

\$1,604,000

FARRALL-PROTOTYPE	0091A	DEFERRED	BUILDING	PUMPS	\$52,000
ASSEMBLY		RENEWAL	SYSTEMS		
FARRALL-PROTOTYPE	0091A	DEFERRED	BUILDING	VAV SYSTEM	\$93,000
ASSEMBLY		RENEWAL	SYSTEMS		

\$145,000

FEE HALL	0327	DEFERRED	BUILDING	REPLACE FEE HALL ATS	\$20,000
		RENEWAL	SYSTEMS		
FEE HALL	0327	DEFERRED	BUILDING	FLOOR COVERING - REPLACE OR REPAIR	\$254,000
		RENEWAL	INTERIOR	IN STAIRWELLS	
FEE HALL	0327	DEFERRED	BUILDING	REMOVE SPRAY-ON FIREPROOFING IN	\$203,000
		RENEWAL	SYSTEMS	MR-E15 AND MR-B2 AND REINSULATE	
FEE HALL	0327	DEFERRED	BUILDING	REPLACE TOILET AND URINAL FLUSH	\$57,000
		RENEWAL	SYSTEMS	VALVES, FAUCETS, TRAPS, DRAINS IN	
FEE HALL	0327	DEFERRED	BUILDING	FEE HALL STUDY - WINDOW	\$107,000
		RENEWAL	ENVELOPE	REPLACEMENT AND MASONRY	
FEE HALL	0327	DEFERRED	BUILDING	FEE HALL- UPGRADE PCB	\$253,000
		RENEWAL	SYSTEMS	TRANSFORMERS AND ELECTRICAL	

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
FEE HALL	0327	DEFERRED	BUILDING	REPLACE CEILINGS AND LIGHTING	\$320,000
		RENEWAL	INTERIOR		
FEE HALL	0327	DEFERRED	BUILDING	REPLACE STEAM BOOSTER COILS	\$534,000
		RENEWAL	SYSTEMS		

\$1,748,000

FIRE STATION	0131	DEFERRED	BUILDING	DOORS - EXTERIOR	\$21,000
		RENEWAL	ENVELOPE		
FIRE STATION	0131	DEFERRED	BUILDING	REPLACE THE CONDENSATES RETURN	\$46,000
		RENEWAL	SYSTEMS	DUPLEX UNIT IN THE BASEMENT MECH	
FIRE STATION	0131	DEFERRED	BUILDING	REPLACE ROOF #4	\$24,000
		RENEWAL	ENVELOPE		
FIRE STATION	0131	DEFERRED	BUILDING	DOORS - INTERIOR	\$121,000
		RENEWAL	INTERIOR		
FIRE STATION	0131	DEFERRED	BUILDING	REPLACE TWO ELECTRIC DOMESTIC	\$20,000
		RENEWAL	SYSTEMS	WATER HEATERS	

\$232,000

FOOD SAFETY	0186	2021	BUILDING	REPLACE FOOD SAFTEY TOX ATS	\$20,000
TOXICOLOGY			SYSTEMS		
FOOD SAFETY	0186	2022	BUILDING	PUMPS	\$395,000
TOXICOLOGY			SYSTEMS		
FOOD SAFETY	0186	2022	BUILDING	REPLACE CONTROL AIR COMPRESSOR	\$32,000
TOXICOLOGY			SYSTEMS	(DUPLEX 5HP), MR B21	
FOOD SAFETY	0186	2022	BUILDING	REPLACE PUBLIC RESTROOM FIXTURES	\$32,000
TOXICOLOGY			SYSTEMS		
FOOD SAFETY	0186	2023	BUILDING	REPLACE AIR HANDLING UNIT 3	\$167,000
TOXICOLOGY			SYSTEMS		
FOOD SAFETY	0186	DEFERRED	BUILDING	PROVIDE CONNECTION POINT FOR	\$33,000
TOXICOLOGY		RENEWAL	SYSTEMS	PORTABLE GENERATOR TO POWER ULAR	
FOOD SAFETY	0186	DEFERRED	BUILDING	VAV SYSTEM	\$3,604,000
TOXICOLOGY		RENEWAL	SYSTEMS		
FOOD SAFETY	0186	DEFERRED	BUILDING	REPLACE DOMESTIC HOT WATER HEATER	\$69,000
TOXICOLOGY		RENEWAL	SYSTEMS		

\$4,352,000

FOOD SCIENCE	0179	2024	BUILDING	REPLACE COOLING TOWER 01	\$213,000
			SYSTEMS		
FOOD SCIENCE	0179	2024	BUILDING	REPLACE COOLING TOWER 02	\$213,000
			SYSTEMS		
FOOD SCIENCE	0179	2025	BUILDING	REPLACE BOOSTER COILS THAT SERVE	\$33,000
			SYSTEMS	ANIMAL ROOMS	
FOOD SCIENCE	0179	2025	BUILDING	REPLACE HEAT EXCHANGER THAT SERVES	\$40,000
			SYSTEMS	ANIMAL ROOMS	

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
FOOD SCIENCE	0179	2025	BUILDING	REPLACE HOT WATER HEATING PUMPS	\$80,000
			SYSTEMS	THAT SERVES ANIMAL ROOMS	
FOOD SCIENCE	0179	DEFERRED	BUILDING	PROVIDE CONNECTION POINT FOR	\$33,000
		RENEWAL	SYSTEMS	PORTABLE GENERATOR TO POWER ULAR	
FOOD SCIENCE	0179	DEFERRED	BUILDING	REPLACE 4 DISTRIBUTION AND POWER	\$33,000
		RENEWAL	SYSTEMS	PANELS IN ULAR AREA	
FOOD SCIENCE	0179	DEFERRED	BUILDING	REPLACE LAB FIXTURE PLUMBING TRIM	\$618,000
		RENEWAL	SYSTEMS	AND TRAPS	
FOOD SCIENCE	0179	DEFERRED	BUILDING	FOOD SCIENCE- UPGRADE PCB	\$245,000
		RENEWAL	SYSTEMS	TRANSFORMERS AND ELECTRICAL	
FOOD SCIENCE	0179	DEFERRED	BUILDING	REPLACE INTERIOR LAMINATE CLAD	\$335,000
		RENEWAL	INTERIOR	OFFICE DOORS & HARDWARE AS	
FOOD SCIENCE	0179	DEFERRED	BUILDING	REPLACE CHILLED WATER PUMPS FOR	\$40,000
		RENEWAL	SYSTEMS	THE ANIMAL AREA	
FOOD SCIENCE	0179	DEFERRED	BUILDING	REPLACE DOMESTIC WATER METER AND	\$32,000
		RENEWAL	SYSTEMS	ISOLATION VALVES	
FOOD SCIENCE	0179	DEFERRED	BUILDING	REPLACE FLUSH VALVES, TOILET SEATS,	\$25,000
		RENEWAL	SYSTEMS	LAV FAUCETS ANDS TRIM	
FOOD SCIENCE	0179	DEFERRED	BUILDING	REPLACE HV-3	\$832,000
		RENEWAL	SYSTEMS		

\$2,772,000

FRIB	0164	2024	BUILDING	REPLACE COOLING TOWER RM 176 &	\$61,000
			SYSTEMS	COOLED CONDENSER RM 244	
FRIB	0164	DEFERRED	BUILDING	EXTERIOR PAINTING	\$21,000
		RENEWAL	ENVELOPE		
FRIB	0164	DEFERRED	BUILDING	REPLACE ELEVATOR 1	\$441,000
		RENEWAL	SYSTEMS		
FRIB	0164	DEFERRED	BUILDING	HVAC EQUIPMENT	\$260,000
		RENEWAL	SYSTEMS		
FRIB	0164	DEFERRED	BUILDING	PUMPS	\$29,000
		RENEWAL	SYSTEMS		
FRIB	0164	DEFERRED	BUILDING	HVAC EQUIPMENT	\$2,759,000
		RENEWAL	SYSTEMS		
FRIB	0164	DEFERRED	BUILDING	REPLACE / COAT ROOFS #23, 24	\$112,000
		RENEWAL	ENVELOPE		
					ća coa ooo

\$3,683,000

GEOGRAPHY	0176	2021	BUILDING	UPGRADE FIRE ALARM PANEL	\$235,000
			SYSTEMS		·
GEOGRAPHY	0176	DEFERRED	BUILDING	GEOGRAPHY - REPLACE DOMESTIC	\$75,000
		RENEWAL	SYSTEMS	WATER HEATER	
GEOGRAPHY	0176	DEFERRED	BUILDING	REPLACE OBSOLETE MOTOR STARTERS	\$42,000
		RENEWAL	SYSTEMS	AND DISCONNECTS	

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
GEOGRAPHY	0176	DEFERRED	BUILDING	REPLACE MAIN DOMESTIC COLD WATER	\$29,000
		RENEWAL	SYSTEMS	SHUT OFF VALVES AND WATER METER,	

\$381,000

GILTNER HALL	0028	2024	BUILDING	UPGRADE 3 DDC PANELS SERVING ULAR	\$88,000
			SYSTEMS	AREA	
GILTNER HALL	0028	DEFERRED	BUILDING	GENERAL PATCH AND PAINT OF WALLS,	\$20,000
		RENEWAL	INTERIOR	FLOORS, CEILINGS, DOORS/FRAMES IN	
GILTNER HALL 0028	DEFERRED	BUILDING	REPLACE AHU 2 AND 3, AND ASSOCIATED	\$368,000	
	RENEWAL	SYSTEMS	EXHAUST FANS		
GILTNER HALL	0028	DEFERRED	BUILDING	REPLACE HEATING COILS IN HV1 AND	\$353,000
		RENEWAL	SYSTEMS	HV2	
GILTNER HALL	0028	DEFERRED	BUILDING	REPLACE 10 DISTRIBUTION AND POWER	\$87,000
		RENEWAL	SYSTEMS	PANELS IN ULAR AREA	
GILTNER HALL	0028	DEFERRED	BUILDING	REPLACE 480 VOLT DISTRIBUTION	\$819,000
		RENEWAL	SYSTEMS	SYSTEM, MOTOR STARTERS	
GILTNER HALL	0028	DEFERRED	BUILDING	CEILINGS - REPLACE VARIOUS LAB ROOM	\$153,000
		RENEWAL	INTERIOR	CEILINGS THROUGHOUT THE ENTIRE	
GILTNER HALL	0028	DEFERRED	BUILDING	ELEVATOR # 4 REPLACEMENT	\$475,000
	RENEWAL	SYSTEMS			
GILTNER HALL	0028	DEFERRED	BUILDING	ELEVATOR #3 REPLACEMENT	\$375,000
	RENEWAL	SYSTEMS			
GILTNER HALL 0028	0028	DEFERRED	BUILDING	GILTNER HALL - BASEMENT AIR	\$175,000
	RENEWAL	SYSTEMS	PLENUMS-REMOVE ALL PIPE INSULATION		
GILTNER HALL	0028	DEFERRED	BUILDING	REPLACE AHU-1 AND ASSOCIATED	\$167,000
		RENEWAL	SYSTEMS	EXHAUST FAN	
GILTNER HALL	0028	DEFERRED	BUILDING	REPLACE DOMESTIC STEAM WATER	\$69,000
		RENEWAL	SYSTEMS	HEATER IN MR-22	
GILTNER HALL	0028	DEFERRED	BUILDING	REPLACE DOMESTIC STEAM WATER	\$69,000
		RENEWAL	SYSTEMS	HEATER IN MR-35	
GILTNER HALL	0028	DEFERRED	BUILDING	SPLIT A/C 1 - REPLACE COND. UNIT AND	\$80,000
		RENEWAL	SYSTEMS	EVAP. COIL	
GILTNER HALL	0028	DEFERRED	BUILDING	REPLACE 2 CONTROL AIR COMPRESSORS	\$55,000
		RENEWAL	SYSTEMS	WITH LARGER ONES	
GILTNER HALL	0028	DEFERRED	BUILDING	REPLACE ALL RESTROOM URINALS WITH	\$51,000
		RENEWAL	SYSTEMS	1/8 GAL. FLUSH URINALS.	
GILTNER HALL	0028	DEFERRED	BUILDING	WINDOWS - CI	\$63,000
		RENEWAL	ENVELOPE		
GILTNER HALL	0028	DEFERRED	BUILDING	REPLACE GILTNER ATS	\$20,000
		RENEWAL	SYSTEMS		
GILTNER HALL	0028	DEFERRED	BUILDING	PROVIDE CONNECTION POINT FOR	\$100,000
		RENEWAL	SYSTEMS	PORTABLE GENERATOR TO POWER ULAR	
GILTNER HALL	0028	DEFERRED	BUILDING	REPLACE BOOSTER COILS FOR ANIMAL	\$100,000
		RENEWAL	SYSTEMS	ROOMS	

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
GILTNER HALL	0028	DEFERRED	BUILDING	REPLACE HEAT EXCHANGERS FOR	\$40,000
		RENEWAL	SYSTEMS	ANIMAL ROOMS	
GILTNER HALL	0028	DEFERRED	BUILDING	REPLACE HEAT PUMPS FOR ANIMAL	\$80,000
		RENEWAL	SYSTEMS	ROOMS	
GILTNER HALL	0028	DEFERRED	BUILDING	WINDOWS - CI	\$35,000
		RENEWAL	ENVELOPE		
GILTNER HALL	0028	DEFERRED	BUILDING	WINDOWS - REPLACE/REFURBISH OLD	\$2,000,000
		RENEWAL	ENVELOPE	WOOD WINDOWS	

\$5,842,000

TURFGRASS-FIELD		RENEWAL	SYSTEMS		4
HANCOCK	0476	DEFERRED		REPLACE ORIGINAL EXTERIOR SIDING	\$44,000

\$44,000

HANNAH	0007	2021	BUILDING	INCTALL NEW ALLE CERVING ATLLETOOR	¢E2E 000
	0067	2021		INSTALL NEW AHU SERVING 4TH FLOOR	\$525,000
ADMINISTRATION			SYSTEMS	PRESIDENT'S SUITE	t
HANNAH	0067	2021	BUILDING	REPLACE LANDING FLOORING AND	\$75,000
ADMINISTRATION	1		INTERIOR	TREADS AND RISERS IN STAIRWELL	
HANNAH	0067	2021	BUILDING	REPLACE ROOFS 1,2,3,5,6, AND 8	\$1,260,000
ADMINISTRATION			ENVELOPE		
HANNAH	0067	2022	BUILDING	REPLACE 2 BASE MT. SUMP PUMPS	\$30,000
ADMINISTRATION			SYSTEMS	(GORMAN RUPP) IN MR B1	
HANNAH	0067	2025	BUILDING	REPLACE CHILLER #1 AND COOLING	\$2,294,000
ADMINISTRATION			SYSTEMS	TOWER - CT1	
HANNAH	0067	2025	BUILDING	REPLACE CHILLER #2 AND COOLING	\$2,294,000
ADMINISTRATION			SYSTEMS	TOWER - CT 2	
HANNAH	0067	DEFERRED	BUILDING	REPLACE HANNAH ADMIN ATS	\$20,000
ADMINISTRATION		RENEWAL	SYSTEMS		
HANNAH	0067	DEFERRED	BUILDING	REPLACE CEILING AND ADD NEW DUCT	\$327,000
ADMINISTRATION		RENEWAL	SYSTEMS	WORK - ROOMS 50 & 60	
HANNAH	0067	DEFERRED	BUILDING	REPLACE WINDOWS AND ENTRY DOORS	\$2,747,000
ADMINISTRATION		RENEWAL	ENVELOPE		
HANNAH	0067	DEFERRED	BUILDING	EXTERIOR RESTORATION AND CAULKING	\$240,000
ADMINISTRATION		RENEWAL	ENVELOPE		
HANNAH	0067	DEFERRED	BUILDING	COMPLETE REPLACEMENT OF SPECIAL	\$353,000
ADMINISTRATION		RENEWAL	SYSTEMS	ELEVATOR	
HANNAH	0067	DEFERRED	BUILDING	ADMINISTRATION-UPGRADE PCB	\$245,000
ADMINISTRATION		RENEWAL	SYSTEMS	TRANSFORMERS AND ELECTRICAL	
HANNAH	0067	DEFERRED	BUILDING	HANNAH ADMIN: REPLACE SF-7 - UNIT IS	\$295,000
ADMINISTRATION		RENEWAL	SYSTEMS	BEYOND LIFE EXPECTANCY	
HANNAH	0067	DEFERRED	BUILDING	PRELIM DESIGN, ESTIMATES, AND	\$52,000
ADMINISTRATION		RENEWAL	SYSTEMS	PHASING PLANS FOR HVAC 5 AND 6	,
HANNAH	0067	DEFERRED	BUILDING	REPLACE (4) HOT WATER HEATING	\$91,000
ADMINISTRATION		RENEWAL	SYSTEMS	PUMPS AND VALVES	,
, LOIVING TO THE PARTY OF THE P	1	11.214244712	[3.31E1413	I SIGN STATE VILLES	

Building Name	Bldg	Work Plan Year	Туре	Description (Title)	Total Estimate
HANNAH	0067	DEFERRED	BUILDING	REPLACE 15 TON CHILLER	\$179,000
ADMINISTRATION		RENEWAL	SYSTEMS		,
HANNAH	0067	DEFERRED	BUILDING	REPLACE 20 TON CHILLER	\$335,000
ADMINISTRATION	0007	RENEWAL	SYSTEMS	THE LACE 20 TON CHILLEN	7555,000
HANNAH	0067	DEFERRED	BUILDING	HANNAH ADMIN: REPLACE SF-1 - UNIT IS	\$20E 000
	0067		SYSTEMS	BEYOND LIFE EXPECTANCY	\$295,000
ADMINISTRATION	0067	RENEWAL			¢205.000
HANNAH	0067	DEFERRED	BUILDING	HANNAH ADMIN: REPLACE SF-2 - UNIT IS	\$295,000
ADMINISTRATION		RENEWAL	SYSTEMS	BEYOND LIFE EXPECTANCY	4
HANNAH	0067	DEFERRED	BUILDING	HANNAH ADMIN: REPLACE SF-3 - UNIT IS	\$295,000
ADMINISTRATION		RENEWAL	SYSTEMS	BEYOND LIFE EXPECTANCY	
HANNAH	0067	DEFERRED	BUILDING	HANNAH ADMIN: REPLACE SF-4 - UNIT IS	\$295,000
ADMINISTRATION		RENEWAL	SYSTEMS	BEYOND LIFE EXPECTANCY	
HANNAH	0067	DEFERRED	BUILDING	HANNAH ADMIN: REPLACE SF-5 - UNIT IS	\$295,000
ADMINISTRATION		RENEWAL	SYSTEMS	BEYOND LIFE EXPECTANCY	
HANNAH	0067	DEFERRED	BUILDING	HANNAH ADMIN: REPLACE SF-6 - UNIT IS	\$295,000
ADMINISTRATION		RENEWAL	SYSTEMS	BEYOND LIFE EXPECTANCY	]
HANNAH	0067	DEFERRED	BUILDING	REPLACE CEILINGS, LIGHTING, AND	\$1,850,000
ADMINISTRATION	0007	RENEWAL	INTERIOR	INSTALL HVAC DISTRIBUTION	71,030,000
ADMINISTRATION		REINEVVAL	INTERIOR	INSTALL HVAC DISTRIBUTION	Ć4 4 002 000
					\$14,982,000
HORSE RESEARCH-	0456	DEFERRED	BUILDING	ROOFS #1	\$44,000
		02.220	150.25	1.0010 112	777,000
STRG/EXERCISE	М	RENEWAL	ENVELOPE		744,000
STRG/EXERCISE					\$44,000
STRG/EXERCISE  HORSE RESEARCH-	M			REPLACE METAL ROOF AT HORSE	·
HORSE RESEARCH-	М	RENEWAL	BUILDING		\$44,000
HORSE RESEARCH-	М	RENEWAL	BUILDING	REPLACE METAL ROOF AT HORSE	\$44,000
HORSE RESEARCH- FEACH RESEARCH	M 0456L	RENEWAL 2021	BUILDING ENVELOPE	REPLACE METAL ROOF AT HORSE RESEARCH TEACHING & RESEARCH BARN	\$44,000 \$23,000 \$23,000
HORSE RESEARCH- TEACH RESEARCH HORSE RESEARCH-	M 0456L	PENEWAL 2021 DEFERRED	BUILDING ENVELOPE	REPLACE METAL ROOF AT HORSE	<b>\$44,000</b> \$23,000
HORSE RESEARCH- FEACH RESEARCH HORSE RESEARCH-	M 0456L	RENEWAL 2021	BUILDING ENVELOPE	REPLACE METAL ROOF AT HORSE RESEARCH TEACHING & RESEARCH BARN	\$44,000 \$23,000 \$23,000
HORSE RESEARCH- TEACH RESEARCH HORSE RESEARCH- WEST HORSE BARN	0456L	2021  DEFERRED RENEWAL	BUILDING ENVELOPE BUILDING ENVELOPE	REPLACE METAL ROOF AT HORSE RESEARCH TEACHING & RESEARCH BARN ROOFS #2 AND 3	\$44,000 \$23,000 \$23,000 \$107,000 \$107,000
HORSE RESEARCH- TEACH RESEARCH  HORSE RESEARCH- WEST HORSE BARN  HORTICULTURE RES-	0456L	DEFERRED RENEWAL	BUILDING ENVELOPE  BUILDING ENVELOPE  BUILDING	REPLACE METAL ROOF AT HORSE RESEARCH TEACHING & RESEARCH BARN ROOFS #2 AND 3 REPLACE HOT WATER BOILER WITH HIGH	\$44,000 \$23,000 \$23,000 \$107,000 \$107,000
HORSE RESEARCH- TEACH RESEARCH HORSE RESEARCH- WEST HORSE BARN HORTICULTURE RES-	0456L	2021  DEFERRED RENEWAL	BUILDING ENVELOPE BUILDING ENVELOPE	REPLACE METAL ROOF AT HORSE RESEARCH TEACHING & RESEARCH BARN ROOFS #2 AND 3	\$44,000 \$23,000 \$23,000 \$107,000 \$107,000
HORSE RESEARCH- FEACH RESEARCH HORSE RESEARCH- WEST HORSE BARN HORTICULTURE RES-	0456L	DEFERRED RENEWAL	BUILDING ENVELOPE  BUILDING ENVELOPE  BUILDING	REPLACE METAL ROOF AT HORSE RESEARCH TEACHING & RESEARCH BARN ROOFS #2 AND 3 REPLACE HOT WATER BOILER WITH HIGH	\$44,000 \$23,000 \$23,000 \$107,000 \$107,000
HORSE RESEARCH- TEACH RESEARCH  HORSE RESEARCH- WEST HORSE BARN  HORTICULTURE RES- HOUSE/OFFICE	0456L 0456B	DEFERRED RENEWAL	BUILDING ENVELOPE  BUILDING ENVELOPE  BUILDING	REPLACE METAL ROOF AT HORSE RESEARCH TEACHING & RESEARCH BARN ROOFS #2 AND 3 REPLACE HOT WATER BOILER WITH HIGH	\$44,000 \$23,000 \$23,000 \$107,000 \$107,000
HORSE RESEARCH- TEACH RESEARCH HORSE RESEARCH- WEST HORSE BARN HORTICULTURE RES- HOUSE/OFFICE	0456L 0456B	DEFERRED RENEWAL  DEFERRED RENEWAL	BUILDING ENVELOPE  BUILDING ENVELOPE  BUILDING SYSTEMS	REPLACE METAL ROOF AT HORSE RESEARCH TEACHING & RESEARCH BARN  ROOFS #2 AND 3  REPLACE HOT WATER BOILER WITH HIGH EFF. EQUIPMENT	\$44,000 \$23,000 \$23,000 \$107,000 \$107,000 \$33,000
HORSE RESEARCH- FEACH RESEARCH HORSE RESEARCH- WEST HORSE BARN HORTICULTURE RES- HOUSE/OFFICE	0456L 0456B	DEFERRED RENEWAL  DEFERRED RENEWAL	BUILDING ENVELOPE  BUILDING ENVELOPE  BUILDING SYSTEMS	REPLACE METAL ROOF AT HORSE RESEARCH TEACHING & RESEARCH BARN  ROOFS #2 AND 3  REPLACE HOT WATER BOILER WITH HIGH EFF. EQUIPMENT	\$44,000 \$23,000 \$23,000 \$107,000 \$107,000 \$33,000
HORSE RESEARCH- FEACH RESEARCH HORSE RESEARCH- WEST HORSE BARN HORTICULTURE RES- HOUSE/OFFICE HORTICULTURE RES- WINERY	0456L 0456B 0407A	DEFERRED RENEWAL  DEFERRED RENEWAL	BUILDING ENVELOPE  BUILDING ENVELOPE  BUILDING SYSTEMS	REPLACE METAL ROOF AT HORSE RESEARCH TEACHING & RESEARCH BARN  ROOFS #2 AND 3  REPLACE HOT WATER BOILER WITH HIGH EFF. EQUIPMENT  REPLACE ROOFS #1 AND 2	\$44,000 \$23,000 \$23,000 \$107,000 \$107,000 \$33,000 \$55,000
·	0456L 0456B	DEFERRED RENEWAL  2023  DEFERRED DEFERRED RENEWAL	BUILDING ENVELOPE  BUILDING ENVELOPE  BUILDING SYSTEMS  BUILDING ENVELOPE  BUILDING ENVELOPE	REPLACE METAL ROOF AT HORSE RESEARCH TEACHING & RESEARCH BARN  ROOFS #2 AND 3  REPLACE HOT WATER BOILER WITH HIGH EFF. EQUIPMENT	\$44,000 \$23,000 \$23,000 \$107,000 \$107,000 \$33,000 \$55,000
HORSE RESEARCH- TEACH RESEARCH  HORSE RESEARCH- WEST HORSE BARN  HORTICULTURE RES- HOUSE/OFFICE  HORTICULTURE RES- WINERY	0456L 0456B 0407A	DEFERRED RENEWAL  DEFERRED RENEWAL	BUILDING ENVELOPE  BUILDING ENVELOPE  BUILDING SYSTEMS  BUILDING ENVELOPE	REPLACE METAL ROOF AT HORSE RESEARCH TEACHING & RESEARCH BARN  ROOFS #2 AND 3  REPLACE HOT WATER BOILER WITH HIGH EFF. EQUIPMENT  REPLACE ROOFS #1 AND 2	\$44,000 \$23,000 \$23,000 \$107,000 \$107,000 \$33,000 \$55,000

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
HUMAN ECOLOGY	0005	DEFERRED	BUILDING	HUMAN ECOLOGY: MASONRY AND	\$318,000
		RENEWAL	ENVELOPE	CAULKING RESTORATION	
HUMAN ECOLOGY	0005	DEFERRED	BUILDING	PRELIMINARY DESIGN FOR ROOF	\$826,000
		RENEWAL	ENVELOPE	REPLACEMENT - ASBESTOS SHINGLES,	
HUMAN ECOLOGY	0005	DEFERRED	BUILDING	HUMAN ECOLOGY - BUILDING STEAM	\$25,000
		RENEWAL	SYSTEMS	VALVE	
HUMAN ECOLOGY	0005	DEFERRED	BUILDING	REPLACE CEILING AND LIGHTING IN	\$88,000
		RENEWAL	INTERIOR	BUILDINGS CORRIDORS	
HUMAN ECOLOGY	0005	DEFERRED	BUILDING	REPLACE SELECTED HALLWAY ROOM	\$80,000
		RENEWAL	INTERIOR	DOORS AND HARDWARE AS NECESSARY	

\$1,784,000

IM SPORTS-CIRCLE	0051	2022	BUILDING	IM SPORTS-CIRCLE - REPLACE FLOOR IN	\$459,000
			INTERIOR	2ND FLOOR GYM	
IM SPORTS-CIRCLE	0051	DEFERRED	BUILDING	REPLACE 1ST FLOOR GYMNASIUM ENTRY	\$22,000
		RENEWAL	INTERIOR	DOORS AND HARDWARE	
IM SPORTS-CIRCLE	0051	DEFERRED	BUILDING	REPLACE OUTSIDE AIR DAMPERS	\$83,000
		RENEWAL	SYSTEMS		
IM SPORTS-CIRCLE	0051	DEFERRED	BUILDING	DEMO 30'X50' 12"X12" GLUED ON	\$49,000
		RENEWAL	INTERIOR	CEILING TILE & REPLACE CEILING W/	
IM SPORTS-CIRCLE	0051	DEFERRED	BUILDING	REPLACE BATTERY OPERATED EM LIGHTS	\$238,000
		RENEWAL	SYSTEMS		
IM SPORTS-CIRCLE	0051	DEFERRED	BUILDING	REPLACE ELEVATOR 1	\$340,000
		RENEWAL	SYSTEMS		
IM SPORTS-CIRCLE	0051	DEFERRED	BUILDING	REPLACE STAIR TREADS, RISERS,	\$34,000
		RENEWAL	INTERIOR	STRINGERS AND LANDING FLOORING	
IM SPORTS-CIRCLE	0051	DEFERRED	BUILDING	REPLACE CEILINGS AND LIGHTING IN	\$90,000
		RENEWAL	INTERIOR	CORRIDORS	
IM SPORTS-CIRCLE	0051	DEFERRED	BUILDING	REPLACE FIRE ALARM SYSTEM	\$452,000
		RENEWAL	SYSTEMS		
IM SPORTS-CIRCLE	0051	DEFERRED	BUILDING	REPLACE GASKETS/SEALS ON LIGHTS,	\$102,000
		RENEWAL	SYSTEMS	UPGRADE TO HID FIXTURES	
IM SPORTS-CIRCLE	0051	DEFERRED	BUILDING	REPLACE WATER SOFTENER MINERAL IN	\$64,000
		RENEWAL	SYSTEMS	BUILDING WATER SOFTENERS	
IM SPORTS-CIRCLE	0051	DEFERRED	BUILDING	CHANGE IM CIRCLE POOL FILTRATION TO	\$106,000
		RENEWAL	SYSTEMS	CLOSED LOOP	
IM SPORTS-CIRCLE	0051	DEFERRED	BUILDING	REPLACE COLUMN AND WALL SHOWERS	\$100,000
		RENEWAL	SYSTEMS	IN THE MEN'S & WOMEN'S LOCKER	
IM SPORTS-CIRCLE	0051	DEFERRED	BUILDING	REPLACE TOILETS, LAVATORIES &	\$74,000
		RENEWAL	SYSTEMS	URINALS IN RESTROOMS	

\$2,213,000

IM SPORTS-EAST	0175	2024	BUILDING	ROOF REPLACEMENT / RESTORATION	\$1,099,000
			ENVELOPE		

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
IM SPORTS-EAST	0175	2025	BUILDING	REPLACE CONTROL AIR COMPRESSOR	\$36,000
			SYSTEMS		
IM SPORTS-EAST	0175	2025	BUILDING	SECURITY & EMERGENCY SYSTEMS/ TIME	\$114,000
			SYSTEMS	CLOCK - FIRE ALARM	
IM SPORTS-EAST	0175	DEFERRED	BUILDING	REPLACE FLOORING ON RUNNING	\$74,000
		RENEWAL	INTERIOR	TRACK. APPROXIMATELY 7000 SQFT	
IM SPORTS-EAST	0175	DEFERRED	BUILDING	REPLACE IM EAST ATS	\$20,000
		RENEWAL	SYSTEMS		
IM SPORTS-EAST	0175	DEFERRED	BUILDING	HVAC EQUIPMENT - AHU	\$1,637,000
		RENEWAL	SYSTEMS		
IM SPORTS-EAST	0175	DEFERRED	BUILDING	REPLACE CHILLED WATER PUMPS	\$70,000
		RENEWAL	SYSTEMS		
IM SPORTS-EAST	0175	DEFERRED	BUILDING	REPLACE ELEVATOR 1	\$306,000
		RENEWAL	SYSTEMS		
IM SPORTS-EAST	0175	DEFERRED	BUILDING	REPLACE HW HEAT PUMPS	\$70,000
		RENEWAL	SYSTEMS		

\$3,426,000

IM SPORTS-WEST	0151	DEFERRED	BUILDING	REPLACE CEILING AND LIGHTING IN 2ND	\$102,000
IIVI SI OITIS-WEST	0131	RENEWAL	INTERIOR	FLOOR GYMNASIUM	\$102,000
IM SPORTS-WEST	0151	DEFERRED	BUILDING	REPLACE DETERIORATED DUCTWORK	\$56,000
IIVI SPORTS-WEST	0131				\$30,000
IN A CDODTC VALECT	01.51	RENEWAL	SYSTEMS	ABOVE CEILINGS AT ROOMS 138 & 140.	Ć445 000
IM SPORTS-WEST	0151	DEFERRED	BUILDING	REPLACE AIR CONDITIONING SYSTEM	\$115,000
	2454	RENEWAL	SYSTEMS	FOR ROOM 231 BY CONNECTING TO	452.222
IM SPORTS-WEST	0151	DEFERRED	BUILDING	REPLACE ROOF #13	\$63,000
		RENEWAL	ENVELOPE		
IM SPORTS-WEST	0151	DEFERRED	BUILDING	REMOVE ASBESTOS ACOUSICAL PLASTER	\$330,000
		RENEWAL	SYSTEMS		
IM SPORTS-WEST	0151	DEFERRED	BUILDING	REPLACE CABINET HEATERS NORTH	\$27,000
		RENEWAL	SYSTEMS	ENTRANCE	
IM SPORTS-WEST	0151	DEFERRED	BUILDING	IM SPORTS-WEST - REPLACE EXTERIOR	\$230,000
		RENEWAL	ENVELOPE	DOORS	
IM SPORTS-WEST	0151	DEFERRED	BUILDING	REPLACE 20 ORIGINAL HOT AND COLD	\$49,000
		RENEWAL	SYSTEMS	WATER SHUT OFF VALVES	
IM SPORTS-WEST	0151	DEFERRED	BUILDING	REPLACE HV-11	\$213,000
		RENEWAL	SYSTEMS		
IM SPORTS-WEST	0151	DEFERRED	BUILDING	REPLACE HV-13 AND HV-19	\$373,000
		RENEWAL	SYSTEMS		
IM SPORTS-WEST	0151	DEFERRED	BUILDING	REPLACE HV-15 AND HV-23	\$480,000
		RENEWAL	SYSTEMS		. ,
IM SPORTS-WEST	0151	DEFERRED	BUILDING	REPLACE HV-18 AND HV-26	\$480,000
2. 2		RENEWAL	SYSTEMS		, , , , , , , ,
IM SPORTS-WEST	0151	DEFERRED	BUILDING	REPLACE HV-20	\$213,000
	0131	RENEWAL	SYSTEMS	112 11V 20	7213,000
		IVELVE AAVE	SISILIVIS		

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
IM SPORTS-WEST	0151	DEFERRED	BUILDING	REPLACE HV-21 AND HV-24	\$534,000
		RENEWAL	SYSTEMS		
IM SPORTS-WEST	0151	DEFERRED	BUILDING	REPLACE HV-3	\$747,000
		RENEWAL	SYSTEMS		
IM SPORTS-WEST	0151	DEFERRED	BUILDING	REPLACE HV-4 AND HV-16	\$373,000
		RENEWAL	SYSTEMS		
IM SPORTS-WEST	0151	DEFERRED	BUILDING	REPLACE HV-6 AND HV-17	\$373,000
		RENEWAL	SYSTEMS		
IM SPORTS-WEST	0151	DEFERRED	BUILDING	REPLACE HV-9	\$213,000
		RENEWAL	SYSTEMS		
IM SPORTS-WEST	0151	DEFERRED	BUILDING	REPLACE STAIR TREADS IN IM WEST	\$151,000
		RENEWAL	INTERIOR		
IM SPORTS-WEST	0151	DEFERRED	BUILDING	REPLACE GYM FLOOR - ROOM 10	\$153,000
		RENEWAL	INTERIOR		
IM SPORTS-WEST	0151	DEFERRED	BUILDING	REPLACE 40 TOILETS, 40 LAVATORIES,	\$92,000
		RENEWAL	SYSTEMS	AND 25 URINALS IN RESTROOMS	
IM SPORTS-WEST	0151	DEFERRED	BUILDING	REPLACE EXHAUST FANS IN ARENA,	\$71,000
		RENEWAL	SYSTEMS	TENNIS COURTS, AND UPPER WEST GYM.	
IM SPORTS-WEST	0151	DEFERRED	BUILDING	REPLACE GYM FLOORS - ROOMS 230	\$306,000
		RENEWAL	INTERIOR	AND 233	

\$5,744,000

INFRASTRUCTURE	0167	2021	BUILDING	DOOR LOCK, SECURITY, EXTERIOR	\$50,000
PLANNING FACILITIES			ENVELOPE	RENEWAL	
INFRASTRUCTURE	0167	2021	BUILDING	ROOF - 1-PLY, BALLASTED RENEWAL	\$25,000
PLANNING FACILITIES			ENVELOPE		
INFRASTRUCTURE	0167	2021	BUILDING	ROOF - 1-PLY, UNBALLASTED RENEWAL	\$965,000
PLANNING FACILITIES			ENVELOPE		
INFRASTRUCTURE	0167	2023	BUILDING	DOOR OPERATOR, OVERHEAD DOOR,	\$135,000
PLANNING FACILITIES			ENVELOPE	COMMERCIAL, PADS RENEWAL	
INFRASTRUCTURE	0167	2023	BUILDING	DOOR, EXTERIOR, OVERHEAD ROLLING	\$40,000
PLANNING FACILITIES			ENVELOPE	METAL, LOCK RENEWAL	
INFRASTRUCTURE	0167	2023	BUILDING	HVAC CONTROLS - TERMINAL	\$70,000
PLANNING FACILITIES			SYSTEMS	ASSEMBLIES - SHOPS / TRADES, DRY	
INFRASTRUCTURE	0167	2024	BUILDING	PLUMBING FIXTURE - LAVATORY, GANG	\$1,620,000
PLANNING FACILITIES			SYSTEMS	RENEWAL	
INFRASTRUCTURE	0167	2025	BUILDING	DOOR AND FRAME, EXTERIOR,	\$590,000
PLANNING FACILITIES			ENVELOPE	SWINGING, HOLLOW METAL RENEWAL	
INFRASTRUCTURE	0167	2025	BUILDING	FAN - CENTRIFUGAL ROOF EXHAUST (25"-	\$1,200,000
PLANNING FACILITIES			SYSTEMS	30" DIAMETER) RENEWAL	
INFRASTRUCTURE	0167	2025	BUILDING	FIRE ALARM PANEL, DIALER, BATTERY, &	\$70,000
PLANNING FACILITIES			SYSTEMS	CHARGER UP TO 50 POINTS RENEWAL	
INFRASTRUCTURE	0167	2025	BUILDING	HVAC CONTROLS - FIELD PANELS/OPS	\$15,000
PLANNING FACILITIES			SYSTEMS	SOFTWARE - SHOPS / TRADES RENEWAL	

Building Name  Bldg Work Plan Year  Type Description (Title)  Total Estimate  INFRASTRUCTURE PLANNING FACILITIES  INFRASTRUCTURE PLANNING
INFRASTRUCTURE PLANNING FACILITIES INFRASTRUCTURE P
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PLANNING FACILITIES RENEWAL ENVELOPE RENEWAL S940,000  INFRASTRUCTURE PLANNING FACILITIES RENEWAL ENVELOPE  INFRASTRUCTURE O167 DEFERRED BUILDING RENEWAL INTERIOR CLEAR SEAL RENEWAL INTERIOR WOOD, STANDARD RENEWAL INTERIOR WOOD, STANDARD RENEWAL INTERIOR RENEWAL SYSTEMS RENEWAL SYSTEMS RENEWAL SYSTEMS RENEWAL INTERIOR RENEWAL SYSTEMS RENEWAL INTERIOR RENEWAL SYSTEMS RENEWAL INTERIOR RENEWAL SYSTEMS RENEWAL INTERIOR RENEWAL SYSTEMS RENEWAL SYSTEMS RENEWAL SYSTEMS RENEWAL SYSTEMS CONTROLS (>10 TOTAL HP) RENEWAL INTERIOR RENEWAL SYSTEMS LIGHTING (WALLPACK, WALLWASH) INTERIOR BUILDING (CONDENSATE RECEIVER, ELECTRIC, 1 \$1,390,000)
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PLANNING FACILITIES RENEWAL ENVELOPE SINFRASTRUCTURE PLANNING FACILITIES RENEWAL INTERIOR CLEAR SEAL RENEWAL STEED BUILDING PLOORING - FLUID APPLIED, PAINT OR \$685,000 CLEAR SEAL RENEWAL STANDARD STANDARD STANDARD RENEWAL INTERIOR RENEWAL STANDARD RENEWAL STANDARD RENEWAL INTERIOR RENEWAL STANDARD RENEWAL STAND
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PLANNING FACILITIES RENEWAL INTERIOR CLEAR SEAL RENEWAL  INFRASTRUCTURE 0167 DEFERRED BUILDING FLOORING - VINYL SHEET, STANDARD \$425,000  PLANNING FACILITIES RENEWAL INTERIOR RENEWAL  INFRASTRUCTURE 0167 DEFERRED BUILDING GLASS, WINDOW, ALUMINUM OR \$15,000  PLANNING FACILITIES RENEWAL INTERIOR WOOD, STANDARD RENEWAL  INFRASTRUCTURE 0167 DEFERRED BUILDING AIR COMPRESSOR - UTILITY (>5 HP) \$20,000  PLANNING FACILITIES RENEWAL SYSTEMS RENEWAL  INFRASTRUCTURE 0167 DEFERRED BUILDING AIR COMPRESSOR SYSTEM - HVAC \$115,000  PLANNING FACILITIES CONTROLS (>10 TOTAL HP) RENEWAL  INFRASTRUCTURE 0167 DEFERRED BUILDING COM EXTERIOR BLDG MT HI FLOOD \$55,000  PLANNING FACILITIES RENEWAL SYSTEMS LIGHTING (WALLPACK, WALLWASH)  INFRASTRUCTURE 0167 DEFERRED BUILDING CONDENSATE RECEIVER, ELECTRIC, 1 \$1,390,000
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PLANNING FACILITIES RENEWAL INTERIOR RENEWAL  INFRASTRUCTURE 0167 DEFERRED RENEWAL INTERIOR WOOD, STANDARD RENEWAL  INFRASTRUCTURE 0167 DEFERRED RENEWAL SYSTEMS RENEWAL  INFRASTRUCTURE 0167 DEFERRED RENEWAL SYSTEMS RENEWAL  INFRASTRUCTURE 0167 DEFERRED RENEWAL SYSTEMS CONTROLS (>10 TOTAL HP) RENEWAL  INFRASTRUCTURE 0167 DEFERRED RENEWAL SYSTEMS CONTROLS (>10 TOTAL HP) RENEWAL  INFRASTRUCTURE 0167 DEFERRED RENEWAL SYSTEMS COM EXTERIOR BLDG MT HI FLOOD STANDING FACILITIES RENEWAL SYSTEMS LIGHTING (WALLPACK, WALLWASH)  INFRASTRUCTURE 0167 DEFERRED RUILDING CONDENSATE RECEIVER, ELECTRIC, 1 \$1,390,000
INFRASTRUCTURE PLANNING FACILITIES O167 DEFERRED RENEWAL INTERIOR PLANNING FACILITIES O167 DEFERRED BUILDING AIR COMPRESSOR - UTILITY (>5 HP) PLANNING FACILITIES RENEWAL SYSTEMS RENEWAL INFRASTRUCTURE PLANNING FACILITIES O167 DEFERRED BUILDING AIR COMPRESSOR SYSTEM - HVAC PLANNING FACILITIES RENEWAL SYSTEMS CONTROLS (>10 TOTAL HP) RENEWAL INFRASTRUCTURE PLANNING FACILITIES O167 DEFERRED BUILDING COM EXTERIOR BLDG MT HI FLOOD PLANNING FACILITIES RENEWAL SYSTEMS LIGHTING (WALLPACK, WALLWASH) INFRASTRUCTURE O167 DEFERRED BUILDING CONDENSATE RECEIVER, ELECTRIC, 1 \$1,390,000
PLANNING FACILITIES RENEWAL INTERIOR WOOD, STANDARD RENEWAL  INFRASTRUCTURE 0167 DEFERRED BUILDING AIR COMPRESSOR - UTILITY (>5 HP) \$20,000  PLANNING FACILITIES RENEWAL SYSTEMS RENEWAL  INFRASTRUCTURE 0167 DEFERRED BUILDING AIR COMPRESSOR SYSTEM - HVAC \$115,000  PLANNING FACILITIES RENEWAL SYSTEMS CONTROLS (>10 TOTAL HP) RENEWAL  INFRASTRUCTURE 0167 DEFERRED BUILDING COM EXTERIOR BLDG MT HI FLOOD \$55,000  PLANNING FACILITIES RENEWAL SYSTEMS LIGHTING (WALLPACK, WALLWASH)  INFRASTRUCTURE 0167 DEFERRED BUILDING CONDENSATE RECEIVER, ELECTRIC, 1 \$1,390,000
INFRASTRUCTURE 0167 DEFERRED BUILDING AIR COMPRESSOR - UTILITY (>5 HP) \$20,000 PLANNING FACILITIES RENEWAL SYSTEMS RENEWAL  INFRASTRUCTURE 0167 DEFERRED BUILDING AIR COMPRESSOR SYSTEM - HVAC \$115,000 PLANNING FACILITIES RENEWAL SYSTEMS CONTROLS (>10 TOTAL HP) RENEWAL INFRASTRUCTURE 0167 DEFERRED BUILDING COM EXTERIOR BLDG MT HI FLOOD \$55,000 PLANNING FACILITIES RENEWAL SYSTEMS LIGHTING (WALLPACK, WALLWASH) INFRASTRUCTURE 0167 DEFERRED BUILDING CONDENSATE RECEIVER, ELECTRIC, 1 \$1,390,000
PLANNING FACILITIES RENEWAL SYSTEMS RENEWAL  INFRASTRUCTURE 0167 DEFERRED BUILDING AIR COMPRESSOR SYSTEM - HVAC \$115,000  PLANNING FACILITIES RENEWAL SYSTEMS CONTROLS (>10 TOTAL HP) RENEWAL  INFRASTRUCTURE 0167 DEFERRED BUILDING COM EXTERIOR BLDG MT HI FLOOD \$55,000  PLANNING FACILITIES RENEWAL SYSTEMS LIGHTING (WALLPACK, WALLWASH)  INFRASTRUCTURE 0167 DEFERRED BUILDING CONDENSATE RECEIVER, ELECTRIC, 1 \$1,390,000
INFRASTRUCTURE 0167 DEFERRED BUILDING AIR COMPRESSOR SYSTEM - HVAC \$115,000 PLANNING FACILITIES RENEWAL SYSTEMS CONTROLS (>10 TOTAL HP) RENEWAL INFRASTRUCTURE 0167 DEFERRED BUILDING COM EXTERIOR BLDG MT HI FLOOD \$55,000 PLANNING FACILITIES RENEWAL SYSTEMS LIGHTING (WALLPACK, WALLWASH) INFRASTRUCTURE 0167 DEFERRED BUILDING CONDENSATE RECEIVER, ELECTRIC, 1 \$1,390,000
PLANNING FACILITIES RENEWAL SYSTEMS CONTROLS (>10 TOTAL HP) RENEWAL INFRASTRUCTURE 0167 DEFERRED BUILDING COM EXTERIOR BLDG MT HI FLOOD \$55,000 PLANNING FACILITIES RENEWAL SYSTEMS LIGHTING (WALLPACK, WALLWASH) INFRASTRUCTURE 0167 DEFERRED BUILDING CONDENSATE RECEIVER, ELECTRIC, 1 \$1,390,000
INFRASTRUCTURE 0167 DEFERRED BUILDING COM EXTERIOR BLDG MT HI FLOOD \$55,000 PLANNING FACILITIES RENEWAL SYSTEMS LIGHTING (WALLPACK, WALLWASH) INFRASTRUCTURE 0167 DEFERRED BUILDING CONDENSATE RECEIVER, ELECTRIC, 1 \$1,390,000
PLANNING FACILITIES       RENEWAL       SYSTEMS       LIGHTING (WALLPACK, WALLWASH)         INFRASTRUCTURE       0167       DEFERRED       BUILDING       CONDENSATE RECEIVER, ELECTRIC, 1       \$1,390,000
INFRASTRUCTURE 0167 DEFERRED BUILDING CONDENSATE RECEIVER, ELECTRIC, 1 \$1,390,000
IDLANDUNG FACULTIES   DENIENTAL CONSTRACT CONTRACT CONTRA
PLANNING FACILITIES RENEWAL SYSTEMS PUMP RENEWAL
INFRASTRUCTURE 0167 DEFERRED BUILDING CONDENSATE RECEIVER, ELECTRIC, 2 \$30,000
PLANNING FACILITIES RENEWAL SYSTEMS PUMPS RENEWAL
INFRASTRUCTURE 0167 DEFERRED BUILDING DRINKING FOUNTAIN, DUAL-LEVEL \$115,000
PLANNING FACILITIES RENEWAL SYSTEMS RENEWAL
INFRASTRUCTURE 0167 DEFERRED BUILDING ELECTRICAL BRANCH WIRING - SHOPS / \$30,000
PLANNING FACILITIES RENEWAL SYSTEMS TRADES, DRY LABORATORY RENEWAL
INFRASTRUCTURE 0167 DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (20"-\$20,000
PLANNING FACILITIES RENEWAL SYSTEMS 22" DIAMETER) RENEWAL
INFRASTRUCTURE 0167 DEFERRED BUILDING FAN - CENTRIFUGAL ROOF EXHAUST (25"-\$115,000
PLANNING FACILITIES RENEWAL SYSTEMS 30" DIAMETER) RENEWAL
INFRASTRUCTURE 0167 DEFERRED BUILDING HVAC CONTROLS - FIELD PANELS/OPS \$30,000
PLANNING FACILITIES RENEWAL SYSTEMS SOFTWARE - SHOPS / TRADES RENEWAL
INFRASTRUCTURE 0167 DEFERRED BUILDING LIGHTING SYSTEM, INTERIOR - SHOPS / \$40,000
PLANNING FACILITIES RENEWAL SYSTEMS TRADES, DRY LABORATORY RENEWAL
INFRASTRUCTURE 0167 DEFERRED BUILDING SUPPLY PIPING SYSTEM - SHOPS / \$85,000
PLANNING FACILITIES RENEWAL SYSTEMS TRADES, DRY LABORATORY RENEWAL
INFRASTRUCTURE 0167 DEFERRED BUILDING VARIABLE FREQUENCY DRIVE (<=5 HP) \$145,000
PLANNING FACILITIES RENEWAL SYSTEMS RENEWAL
IPF 0167 DEFERRED BUILDING REPLACE ELEVATOR AND CONVERT TO \$212,000
RENEWAL SYSTEMS PASSENGER
IPF 0167 DEFERRED BUILDING REPLACE CONTROL AIR COMPRESSOR \$51,000
RENEWAL SYSTEMS AND AIR DRYER

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
IPF	0167	DEFERRED	BUILDING	IPF LOADING DOCK	\$32,000
		RENEWAL	ENVELOPE		
					\$11,305,000

IPF - STORAGE NO. 1	0209		BUILDING ENVELOPE	ROOFING - FM ROOF #1	\$90,000
		KLINEWAL	LIVELOIL	I	\$90,000
IPF - STORAGE NO. 2	0210	2024	BUILDING	REPLACE ROOF #1	\$112,000
			ENVELOPE		

\$112,000

JENISON FIELDHOUSE	0056	2021	BUILDING	VAV SYSTEM	\$375,000
			SYSTEMS		
JENISON FIELDHOUSE	0056	2022	BUILDING	REPLACE 2 CHILLERS LOCATED ON ROOF	\$433,000
			SYSTEMS		
JENISON FIELDHOUSE	0056	2022	BUILDING	REPLACE FILTRINE CHILLER, PUMPS, AND	\$25,000
			SYSTEMS	CONTROLS FOR THE TRAINING ROOM	
JENISON FIELDHOUSE	0056	2024	BUILDING	REPLACE 2 PEERLESS POOL PUMPS IN	\$64,000
			SYSTEMS	BASEMENT MECH ROOM	
JENISON FIELDHOUSE	0056	2024	BUILDING	REPLACE HOT WATER HEAT PUMPS CP-1	\$31,000
			SYSTEMS	AND CP-2	
JENISON FIELDHOUSE	0056	DEFERRED	BUILDING	REPLACE WOOD FLOOR IN NORTH UPPER	\$306,000
		RENEWAL	INTERIOR	GYM	
JENISON FIELDHOUSE	0056	DEFERRED	BUILDING	REPLACE OLD STEEL TOILET PARTITIONS	\$32,000
		RENEWAL	INTERIOR		
JENISON FIELDHOUSE	0056	DEFERRED	BUILDING	REPLACE ALL DETERIORATED	\$1,012,000
		RENEWAL	SYSTEMS	UNDERGROUND SANITARY AND STORM	
JENISON FIELDHOUSE	0056	DEFERRED	BUILDING	REPLACE CONTROL AIR COMPRESSOR	\$34,000
		RENEWAL	SYSTEMS	(DUPLEX 200GAL 7.5HP)	
JENISON FIELDHOUSE	0056	DEFERRED	BUILDING	REPAIR MASONRY AT ENTRANCES	\$134,000
		RENEWAL	ENVELOPE		
JENISON FIELDHOUSE	0056	DEFERRED	BUILDING	REPLACE HEATING AND VENTILATING	\$612,000
		RENEWAL	SYSTEMS	UNITS	
JENISON FIELDHOUSE	0056	DEFERRED	BUILDING	REPLACE STEAM PRV SYSTEM IN MAIN	\$153,000
		RENEWAL	SYSTEMS	MECHANICAL ROOM	
JENISON FIELDHOUSE	0056	DEFERRED	BUILDING	UPGRADE PNEUMATIC CONTROLS TO	\$40,000
		RENEWAL	SYSTEMS	DDC ON ALL VENTILATION UNITS	
JENISON FIELDHOUSE	0056	DEFERRED	BUILDING	RENOVATE FIELDHOUSE FIRST FLOOR	\$480,000
		RENEWAL	SYSTEMS	PUBLIC RESTROOMS	
JENISON FIELDHOUSE	0056	DEFERRED	BUILDING	REPLACE ALL ORIGINAL EXPOSED	\$255,000
		RENEWAL	SYSTEMS	SANITARY WASTE PIPING	
JENISON FIELDHOUSE	0056	DEFERRED	BUILDING	REPLACE ORIGINAL STORM WASTE	\$255,000
		RENEWAL	SYSTEMS	PIPING	

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
JENISON FIELDHOUSE	0056	DEFERRED	BUILDING	REMOVE AND REPLACE ORIGINAL	\$191,000
		RENEWAL	SYSTEMS	EXPOSED DOMESTIC HOT AND COLD	
JENISON FIELDHOUSE	0056	DEFERRED	BUILDING	REPLACE ELECTRICAL BRANCH CIRCUIT	\$1,912,000
		RENEWAL	SYSTEMS	PANELS, PANEL FEEDERS, AND BRANCH	
JENISON FIELDHOUSE	0056	DEFERRED	BUILDING	REPLACE WATER SOFTENER MINERAL IN	\$38,000
		RENEWAL	SYSTEMS	TWO WATER SOFTENER TANKS LOCATED	
JENISON FIELDHOUSE	0056	DEFERRED	BUILDING	REPLACE TWO 4" GORMON RUPP BASE	\$46,000
		RENEWAL	SYSTEMS	MTD SUMP PUMPS	

\$6,428,000

KEDZIE HALL	0029	2023	BUILDING	REPLACE 1 BASE MTD. PUMP THAT	\$69,000
			SYSTEMS	SENSES CHILLED WATER TO MARSHALL	
KEDZIE HALL	0029	2023	BUILDING	REPLACE SECONDARY CHILLED WATER	\$92,000
			SYSTEMS	PUMP & INSTALL 2ND PUMP FOR	
KEDZIE HALL	0029	DEFERRED	BUILDING	ROOF REPAIR/REPLACEMENT ROOF #12	\$22,000
		RENEWAL	ENVELOPE		
KEDZIE HALL	0029	DEFERRED	BUILDING	REPLACE STAIRTREADS/ RISERS AND	\$67,000
		RENEWAL	INTERIOR	LANDING MATERIAL IN STAIRWELL	
KEDZIE HALL	0029	DEFERRED	BUILDING	REPLACE NORTH KEDZIE 1ST AND 2ND	\$48,000
		RENEWAL	INTERIOR	FLOOR RESTROOM PARTITIONS AND	
KEDZIE HALL	0029	DEFERRED	BUILDING	REPLACE ROOF SPLIT AC 6	\$41,000
		RENEWAL	ENVELOPE		
KEDZIE HALL	0029	DEFERRED	BUILDING	SOUTH KEDZIE REPLACE STEAM PRV	\$84,000
		RENEWAL	SYSTEMS		
KEDZIE HALL	0029	DEFERRED	BUILDING	REPLACE DOMESTIC WATER METER	\$38,000
		RENEWAL	SYSTEMS		
KEDZIE HALL	0029	DEFERRED	BUILDING	REPLACE PUBLIC RESTROOM FIXTURES	\$32,000
		RENEWAL	SYSTEMS		
KEDZIE HALL	0029	DEFERRED	BUILDING	CEILING REPLACEMENTS IN CORRIDORS	\$107,000
		RENEWAL	INTERIOR	OF 1ST, 2ND AND 3RD FLOORS OF	
KEDZIE HALL	0029	DEFERRED	BUILDING	KEDZIE HALL - UPGRADE PCB	\$122,000
		RENEWAL	SYSTEMS	TRANSFORMERS AND ELECTRICAL	
KEDZIE HALL	0029	DEFERRED	BUILDING	REPLACE CONSOLE INDUCTION	\$1,236,000
		RENEWAL	SYSTEMS	TERMINAL UNITS AT SOUTH KEDZIE	
KEDZIE HALL	0029	DEFERRED	BUILDING	REPLACE 4 HWH PUMPS #3,4,5,6 (BASE	\$69,000
		RENEWAL	SYSTEMS	MTD., B&G 1510'S)	

\$2,027,000

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KRESGE ART	0150	2022	BUILDING	INSTALL DUPLEX CONTROL AIR	\$30,000
			SYSTEMS	COMPRESSOR	
KRESGE ART	0150	2022	BUILDING	REPLACE CHILLER	\$353,000
			SYSTEMS		
KRESGE ART	0150	2022	BUILDING	REPLACE DRY COOLER	\$300,000
			SYSTEMS		

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Building Name	Bldg	Work Plan Year	Туре	Description (Title)	Total Estimate
KRESGE ART	0150	DEFERRED RENEWAL	BUILDING ENVELOPE	REPLACE CURTAIN WALL/WINDOWS	\$5,954,000
KRESGE ART	0150	DEFERRED	BUILDING	REPLACE BALCONY DOORS AND	\$131,000
		RENEWAL	ENVELOPE	HARDWARE ON SOUTH SIDE OF BLDG	
KRESGE ART	0150	DEFERRED	BUILDING	ABATE PLASTER/SPRAY-ON	\$932,000
		RENEWAL	SYSTEMS	FIREPROOFING	,,,,,,
KRESGE ART	0150	DEFERRED	BUILDING	DOORS - EXTERIOR - ED	\$52,000
		RENEWAL	ENVELOPE		
					\$7,752,000
KRESGE ART-	0150A	DEFERRED	BUILDING	REPLACE EXTERIOR ALUMINUM DOORS	\$27,000
SCULPTURE STUDIO		RENEWAL	ENVELOPE	AND HARDWARE IN (2) LOCATIONS	
					\$27,000
LANDSCAPE SERVICES	0158	DEFERRED	BUILDING	HVAC EQUIPMENT - AHU	\$38,000
		RENEWAL	SYSTEMS		
					\$38,000
LANDSCAPE SRVCS	0406A	2021	BUILDING	REPLACE SHINGLED ROOF	\$30,000
NURSERY-			ENVELOPE		
					\$30,000
LARGE ANIMAL RES-	0447B	2022	BUILDING	ROOFING - MT #1	\$48,000
HAY BARN			ENVELOPE		
					\$48,000
LIBRARY	0049	DEFERRED	BUILDING	REPLACE EXTERIOR ALUMINUM	64.47.000
					\$147,000
LIDDADV		RENEWAL	ENVELOPE	ENTRANCE DOORS AND HARDWARE	\$147,000
LIBRARY	0049	RENEWAL DEFERRED			\$69,000
LIBKAKY	0049	1	ENVELOPE	ENTRANCE DOORS AND HARDWARE	
LIBRARY	0049	DEFERRED	ENVELOPE BUILDING	ENTRANCE DOORS AND HARDWARE REPLACE DOMESTIC STEAM WATER	
		DEFERRED RENEWAL	ENVELOPE BUILDING SYSTEMS	ENTRANCE DOORS AND HARDWARE REPLACE DOMESTIC STEAM WATER HEATER IN BASEMENT MR WB-12	\$69,000
		DEFERRED RENEWAL DEFERRED	ENVELOPE BUILDING SYSTEMS BUILDING	ENTRANCE DOORS AND HARDWARE REPLACE DOMESTIC STEAM WATER HEATER IN BASEMENT MR WB-12	\$69,000
LIBRARY	0049	DEFERRED RENEWAL DEFERRED RENEWAL	ENVELOPE BUILDING SYSTEMS BUILDING SYSTEMS	ENTRANCE DOORS AND HARDWARE REPLACE DOMESTIC STEAM WATER HEATER IN BASEMENT MR WB-12 REPLACE HOT WATER HEATER (STEAM) 1	\$69,000 \$138,000
LIBRARY	0049	DEFERRED RENEWAL DEFERRED RENEWAL DEFERRED	ENVELOPE BUILDING SYSTEMS BUILDING SYSTEMS BUILDING	ENTRANCE DOORS AND HARDWARE REPLACE DOMESTIC STEAM WATER HEATER IN BASEMENT MR WB-12 REPLACE HOT WATER HEATER (STEAM) 1 REPLACE DOMESTIC WATER METER AND	\$69,000 \$138,000
LIBRARY	0049	DEFERRED RENEWAL DEFERRED RENEWAL DEFERRED RENEWAL	ENVELOPE BUILDING SYSTEMS BUILDING SYSTEMS BUILDING SYSTEMS	ENTRANCE DOORS AND HARDWARE REPLACE DOMESTIC STEAM WATER HEATER IN BASEMENT MR WB-12 REPLACE HOT WATER HEATER (STEAM) 1 REPLACE DOMESTIC WATER METER AND ISOLATION VALVES ON MAIN COLD	\$69,000 \$138,000 \$32,000
LIBRARY	0049	DEFERRED RENEWAL DEFERRED RENEWAL DEFERRED RENEWAL DEFERRED	ENVELOPE BUILDING SYSTEMS BUILDING SYSTEMS BUILDING SYSTEMS BUILDING SYSTEMS	ENTRANCE DOORS AND HARDWARE REPLACE DOMESTIC STEAM WATER HEATER IN BASEMENT MR WB-12 REPLACE HOT WATER HEATER (STEAM) 1 REPLACE DOMESTIC WATER METER AND ISOLATION VALVES ON MAIN COLD LIBRARY - UPGRADE PCB	\$69,000 \$138,000 \$32,000
LIBRARY LIBRARY LIBRARY	0049 0049 0049	DEFERRED RENEWAL DEFERRED RENEWAL DEFERRED RENEWAL DEFERRED RENEWAL	ENVELOPE BUILDING SYSTEMS BUILDING SYSTEMS BUILDING SYSTEMS BUILDING SYSTEMS BUILDING SYSTEMS	ENTRANCE DOORS AND HARDWARE REPLACE DOMESTIC STEAM WATER HEATER IN BASEMENT MR WB-12 REPLACE HOT WATER HEATER (STEAM) 1 REPLACE DOMESTIC WATER METER AND ISOLATION VALVES ON MAIN COLD LIBRARY - UPGRADE PCB TRANSFORMERS AND ELECTRICAL	\$69,000 \$138,000 \$32,000 \$253,000
LIBRARY LIBRARY LIBRARY	0049 0049 0049	DEFERRED RENEWAL DEFERRED RENEWAL DEFERRED RENEWAL DEFERRED RENEWAL DEFERRED	ENVELOPE BUILDING SYSTEMS BUILDING SYSTEMS BUILDING SYSTEMS BUILDING SYSTEMS BUILDING SYSTEMS	ENTRANCE DOORS AND HARDWARE REPLACE DOMESTIC STEAM WATER HEATER IN BASEMENT MR WB-12 REPLACE HOT WATER HEATER (STEAM) 1 REPLACE DOMESTIC WATER METER AND ISOLATION VALVES ON MAIN COLD LIBRARY - UPGRADE PCB TRANSFORMERS AND ELECTRICAL LIBRARY HVAC PRELIM DESIGN,	\$69,000 \$138,000 \$32,000 \$253,000
LIBRARY LIBRARY LIBRARY LIBRARY	0049 0049 0049 0049	DEFERRED RENEWAL DEFERRED RENEWAL DEFERRED RENEWAL DEFERRED RENEWAL DEFERRED RENEWAL DEFERRED RENEWAL	ENVELOPE BUILDING SYSTEMS BUILDING SYSTEMS BUILDING SYSTEMS BUILDING SYSTEMS BUILDING SYSTEMS BUILDING SYSTEMS	ENTRANCE DOORS AND HARDWARE REPLACE DOMESTIC STEAM WATER HEATER IN BASEMENT MR WB-12 REPLACE HOT WATER HEATER (STEAM) 1 REPLACE DOMESTIC WATER METER AND ISOLATION VALVES ON MAIN COLD LIBRARY - UPGRADE PCB TRANSFORMERS AND ELECTRICAL LIBRARY HVAC PRELIM DESIGN, ESTIMATES, AND PHASING	\$69,000 \$138,000 \$32,000 \$253,000 \$104,000
LIBRARY LIBRARY LIBRARY LIBRARY	0049 0049 0049 0049	DEFERRED RENEWAL DEFERRED RENEWAL DEFERRED RENEWAL DEFERRED RENEWAL DEFERRED RENEWAL DEFERRED RENEWAL DEFERRED	ENVELOPE BUILDING SYSTEMS BUILDING SYSTEMS BUILDING SYSTEMS BUILDING SYSTEMS BUILDING SYSTEMS BUILDING SYSTEMS	ENTRANCE DOORS AND HARDWARE REPLACE DOMESTIC STEAM WATER HEATER IN BASEMENT MR WB-12 REPLACE HOT WATER HEATER (STEAM) 1 REPLACE DOMESTIC WATER METER AND ISOLATION VALVES ON MAIN COLD LIBRARY - UPGRADE PCB TRANSFORMERS AND ELECTRICAL LIBRARY HVAC PRELIM DESIGN, ESTIMATES, AND PHASING	\$69,000 \$138,000 \$32,000 \$253,000 \$104,000
LIBRARY LIBRARY LIBRARY LIBRARY LIBRARY	0049 0049 0049 0049	DEFERRED RENEWAL	ENVELOPE BUILDING SYSTEMS	ENTRANCE DOORS AND HARDWARE REPLACE DOMESTIC STEAM WATER HEATER IN BASEMENT MR WB-12 REPLACE HOT WATER HEATER (STEAM) 1  REPLACE DOMESTIC WATER METER AND ISOLATION VALVES ON MAIN COLD LIBRARY - UPGRADE PCB TRANSFORMERS AND ELECTRICAL LIBRARY HVAC PRELIM DESIGN, ESTIMATES, AND PHASING PUMPS	\$69,000 \$138,000 \$32,000 \$253,000 \$104,000 \$52,000
LIBRARY LIBRARY LIBRARY LIBRARY LIBRARY	0049 0049 0049 0049	DEFERRED RENEWAL DEFERRED	ENVELOPE BUILDING SYSTEMS BUILDING	ENTRANCE DOORS AND HARDWARE REPLACE DOMESTIC STEAM WATER HEATER IN BASEMENT MR WB-12 REPLACE HOT WATER HEATER (STEAM) 1  REPLACE DOMESTIC WATER METER AND ISOLATION VALVES ON MAIN COLD LIBRARY - UPGRADE PCB TRANSFORMERS AND ELECTRICAL LIBRARY HVAC PRELIM DESIGN, ESTIMATES, AND PHASING PUMPS	\$69,000 \$138,000 \$32,000 \$253,000 \$104,000 \$52,000

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
LIBRARY	0049	DEFERRED	BUILDING	REPLACE SF-5	\$907,000
		RENEWAL	SYSTEMS		
LIBRARY	0049	DEFERRED	BUILDING	REPLACE SF-6	\$907,000
		RENEWAL	SYSTEMS		
LIBRARY	0049	DEFERRED	BUILDING	VAV SYSTEM	\$112,000
		RENEWAL	SYSTEMS		

\$5,085,000

LIFE SCIENCE	0183	2021	BUILDING	REPLACE ELEVATOR 1	\$61,000
			SYSTEMS		
LIFE SCIENCE	0183	2024	BUILDING	REPLACE ELEVATOR 2	\$490,000
			SYSTEMS		
LIFE SCIENCE	0183	2021	BUILDING	ELECTRICAL BRANCH WIRING -	\$135,000
			SYSTEMS	LABORATORY, WET RENEWAL	
LIFE SCIENCE	0183	2021	BUILDING	MC SWGR BREAKER - FME Adjustable	\$25,000
			SYSTEMS	(2501-3200 AMP) RENEWAL	
LIFE SCIENCE	0183	2021	BUILDING	MC SWGR INCOMING PWR CONNECT	\$490,000
			SYSTEMS	(CABLE/CONDUIT) RENEWAL	
LIFE SCIENCE	0183	2021	BUILDING	PLUMBING FIXTURE - LAVATORY, WALL	\$50,000
			SYSTEMS	HUNG RENEWAL	
LIFE SCIENCE	0183	2021	BUILDING	PLUMBING FIXTURE - SINK, KITCHEN	\$30,000
			SYSTEMS	RENEWAL	
LIFE SCIENCE	0183	2021	BUILDING	PLUMBING FIXTURE - URINAL RENEWAL	\$50,000
			SYSTEMS		
LIFE SCIENCE	0183	2021	BUILDING	PLUMBING FIXTURE - WATER CLOSET,	\$25,000
			SYSTEMS	TANKLESS RENEWAL	
LIFE SCIENCE	0183	2021	BUILDING	SUPPLY PIPING SYSTEM - LABORATORY,	\$35,000
			SYSTEMS	WET RENEWAL	
LIFE SCIENCE	0183	2021	BUILDING	SWGR TIEBREAK SELECTOR, FME,	\$910,000
			SYSTEMS	MANUAL RENEWAL	
LIFE SCIENCE	0183	2022	BUILDING	ELEVATOR MODERNIZATION - TRACTION	\$25,000
			SYSTEMS	LOW RISE 2-8 FLOORS RENEWAL	
LIFE SCIENCE	0183	2024	BUILDING	DOOR LOCK AND PANIC HARDWARE,	\$30,000
			ENVELOPE	EXTERIOR RENEWAL	
LIFE SCIENCE	0183	2024	BUILDING	WALL FINISH - APPLIED, STANDARD	\$35,000
			INTERIOR	RENEWAL	
LIFE SCIENCE	0183	2024	BUILDING	REFRIGERATION SYSTEM - WALK-IN, 3	\$85,000
			SYSTEMS	EVAP FANS, 10000 BTUH, CONDENSER	
LIFE SCIENCE	0183	2024	BUILDING	REFRIGERATION SYSTEM - WALK-IN, 4	\$6,395,000
			SYSTEMS	EVAP FANS, 26500 BTUH, CONDENSER	
LIFE SCIENCE	0183	2025	BUILDING	DOOR OPERATOR, OVERHEAD DOOR,	\$840,000
			ENVELOPE	COMMERCIAL, PADS RENEWAL	
LIFE SCIENCE	0183	2025	BUILDING	DOOR PANIC HARDWARE, INTERIOR	\$2,370,000
			ENVELOPE	RENEWAL	

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
ballanig Name	Diag	Year	Турс	Description (Title)	Estimate
LIFE SCIENCE	0183	2025	BUILDING	DOOR, EXTERIOR, OVERHEAD ROLLING	\$260,000
LIFE SCIENCE	0103	2025		METAL, LOCK RENEWAL	\$200,000
LIFE SCIENCE	0183	2025	BUILDING	AIR COMPRESSOR SYSTEM - HVAC	\$30,000
LIFE SCIENCE	0183	2025			\$30,000
LIEE COLENCE	0183	2025	SYSTEMS	CONTROLS (7-10 TOTAL HP) RENEWAL	\$95,000
LIFE SCIENCE	0183	2025	BUILDING	BACKFLOW PREVENTER (6-8 INCHES)	\$95,000
LIFE COLENCE	0102	2025	SYSTEMS	RENEWAL	¢205.000
LIFE SCIENCE	0183	2025	BUILDING	PRESSURE REDUCING VALVE, STEAM	\$395,000
LIFE COLENCE	0102	DEFENDED	SYSTEMS	SYSTEM (4") RENEWAL	ĆE 4 000
LIFE SCIENCE	0183	DEFERRED	BUILDING	PROVIDE CONNECTION POINT FOR	\$54,000
LIEF COLENIOS	04.00	RENEWAL	SYSTEMS	PORTABLE GENERATOR TO POWER ULAR	
LIFE SCIENCE	0183	DEFERRED	BUILDING	GENERAL MASONRY & CAULKING	\$408,000
LIEF COLENIOS	04.00	RENEWAL	ENVELOPE	REPAIRS	4006.000
LIFE SCIENCE	0183	DEFERRED	BUILDING	REPLACE FIRE ALARM SYSTEM	\$826,000
		RENEWAL	SYSTEMS		4
LIFE SCIENCE	0183	DEFERRED	BUILDING	REPLACE HEAT PUMPS #5, #6, AND #7 IN	\$134,000
		RENEWAL	SYSTEMS	THE NORTH A-WING PENTHOUSE, ADD	4
LIFE SCIENCE	0183	DEFERRED	BUILDING	REPLACE TWO ORIGINAL STEAM WATER	\$191,000
		RENEWAL	SYSTEMS	HEATERS	
LIFE SCIENCE	0183	DEFERRED	BUILDING	LIFE SCIENCE - ABATE SPRAY-ON	\$10,938,000
		RENEWAL	SYSTEMS	FIREPROOFING ABOVE CEILINGS IN	
LIFE SCIENCE	0183	DEFERRED	BUILDING	REPLACE 6 DISTRIBUTION AND POWER	\$47,000
		RENEWAL	SYSTEMS	PANELS IN ULAR AREA.	
LIFE SCIENCE	0183	DEFERRED	BUILDING	REPLACE ALL PUBLIC RESTROOM	\$38,000
		RENEWAL	SYSTEMS	LAVATORY FAUCETS AND TRIM,	
LIFE SCIENCE	0183	DEFERRED	BUILDING	LIFE SCIENCE- UPGRADE PCB	\$253,000
		RENEWAL	SYSTEMS	TRANSFORMERS AND ELECTRICAL	
LIFE SCIENCE	0183	DEFERRED	BUILDING	REPLACE HVAC-1	\$418,000
		RENEWAL	SYSTEMS		
LIFE SCIENCE	0183	DEFERRED	BUILDING	REPLACE HVAC-2	\$418,000
		RENEWAL	SYSTEMS		
LIFE SCIENCE	0183	DEFERRED	BUILDING	REPLACE HVAC-4	\$274,000
		RENEWAL	SYSTEMS		
LIFE SCIENCE	0183	DEFERRED	BUILDING	REPLACE HVAC-5	\$259,000
		RENEWAL	SYSTEMS		
LIFE SCIENCE	0183	DEFERRED	BUILDING	LIFE SCIENCE PLENUM ABATEMENT,	\$13,468,000
		RENEWAL	SYSTEMS	LIGHTING, CEILING, & INSULATION	
LIFE SCIENCE	0183	DEFERRED	BUILDING	REPLACE BOOSTER COILS AND VALVES	\$33,000
		RENEWAL	SYSTEMS	FOR ANIMAL ROOMS	
LIFE SCIENCE	0183	DEFERRED	BUILDING	REPLACE HUMIDIFICATION FOR ANIMAL	\$33,000
	<u></u>	RENEWAL	SYSTEMS	ROOMS	
LIFE SCIENCE	0183	DEFERRED	BUILDING	DOOR AND FRAME, EXTERIOR,	\$25,000
		RENEWAL	ENVELOPE	SWINGING, RENEWAL	
LIFE SCIENCE	0183	DEFERRED	BUILDING	DOOR LOCK, COMMERCIAL-GRADE,	\$110,000
1		RENEWAL	ENVELOPE	EXTERIOR RENEWAL	I

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
ballaring Harrie	Bidg	Year	l ypc	Description (Title)	Estimate
LIFE SCIENCE	0183	DEFERRED	BUILDING	DOOR PANIC HARDWARE, EXTERIOR	\$35,000
LIFE SCIENCE	0103	RENEWAL	ENVELOPE		\$33,000
LIFE SCIENCE	0183	DEFERRED	BUILDING	DOOR, EXTERIOR, OVERHEAD ROLLING	\$135,000
LII E SCIENCE	0103	RENEWAL		METAL, LOCK RENEWAL	7133,000
LIFE SCIENCE	0183	DEFERRED	BUILDING	EXTERIOR DOOR OR WINDOW APPLIED	\$5,120,000
LII E SCIENCE	0103	RENEWAL		FINISH RENEWAL	73,120,000
LIFE SCIENCE	0183	DEFERRED	BUILDING	EXTERIOR WALL FINISH - APPLIED,	\$25,000
2.1. 2. 3.0.2.1.0.2	0100	RENEWAL		STANDARD RENEWAL	<i>\$23,000</i>
LIFE SCIENCE	0183	DEFERRED	BUILDING	ROOF - BITUMINOUS, 4-PLY, COAL TAR	\$45,000
		RENEWAL		PITCH - R30 RENEWAL	, ,,,,,,,,,
LIFE SCIENCE	0183	DEFERRED	BUILDING	WALL, EXTERIOR, STUCCO OR CONCRETE	\$25.000
		RENEWAL		RESTORE RENEWAL	,,
LIFE SCIENCE	0183	DEFERRED	BUILDING	WALL, EXTERIOR, TILT-UP OR PRECAST	\$120,000
		RENEWAL	ENVELOPE	CONCRETE PANELS - RESTORE NATURAL	,,
LIFE SCIENCE	0183	DEFERRED	BUILDING		\$3,035,000
		RENEWAL	INTERIOR	TILE RENEWAL	, -,,
LIFE SCIENCE	0183	DEFERRED	BUILDING	FLOORING - FLUID APPLIED, EPOXY /	\$205,000
		RENEWAL	INTERIOR	ACRYLIC / POLYURETHANE RENEWAL	<b>4</b> = 00,000
LIFE SCIENCE	0183	DEFERRED	BUILDING	FLOORING - VINYL COMPOSITION TILE,	\$30,000
		RENEWAL	INTERIOR	STANDARD RENEWAL	400,000
LIFE SCIENCE	0183	DEFERRED	BUILDING	GLASS, STOREFRONT RENEWAL	\$55,000
		RENEWAL	INTERIOR		,,,,,,,,,
LIFE SCIENCE	0183	DEFERRED	BUILDING	REFRIGERATION SYSTEM - WALK-IN, 3	\$85,000
		RENEWAL	SYSTEMS	EVAP FANS, 10000 BTUH, CONDENSER	, ,
LIFE SCIENCE	0183	DEFERRED	BUILDING	AIR COMPRESSOR -	\$790,000
		RENEWAL	SYSTEMS	MEDICAL/LABORATORY PCKG (15-20 HP),	, ,,,,,,,,
LIFE SCIENCE	0183	DEFERRED	BUILDING	AIR HANDLING UNIT - INDOOR (24-27	\$590,000
		RENEWAL	SYSTEMS	HP) RENEWAL	. ,
LIFE SCIENCE	0183	DEFERRED	BUILDING	AIR HANDLING UNIT - INDOOR (46-63	\$55,000
		RENEWAL	SYSTEMS	HP) RENEWAL	
LIFE SCIENCE	0183	DEFERRED	BUILDING	COM EXTERIOR BLDG LIGHTING	\$330,000
		RENEWAL	SYSTEMS	RENEWAL	
LIFE SCIENCE	0183	DEFERRED	BUILDING	FAN - UTILITY SET (1.26-4 HP) RENEWAL	\$20,000
		RENEWAL	SYSTEMS		
LIFE SCIENCE	0183	DEFERRED	BUILDING	FAN - UTILITY SET (13-17 HP) RENEWAL	\$155,000
		RENEWAL	SYSTEMS		
LIFE SCIENCE	0183	DEFERRED	BUILDING	FAN - UTILITY SET (5-12 HP) RENEWAL	\$90,000
		RENEWAL	SYSTEMS		
LIFE SCIENCE	0183	DEFERRED	BUILDING	FIRE ALARM PANEL, DIALER, BATTERY, &	\$20,000
		RENEWAL	SYSTEMS	CHARGER UP TO 700 POINTS RENEWAL	
LIFE SCIENCE	0183	DEFERRED	BUILDING	FIRE ALARM SYSTEM - DEVICES RENEWAL	\$20,000
		RENEWAL	SYSTEMS		
LIFE SCIENCE	0183	DEFERRED	BUILDING	GREYWATER SUMP PUMP -SUBMERSIBLE	\$480,000
		RENEWAL	SYSTEMS	PUMP (<0.5HP) RENEWAL	

Building Name	Bldg	Work Plan Year	Туре	Description (Title)	Total Estimate
LIFE SCIENCE	0183	DEFERRED	BUILDING	HEAT EXCHANGER - SHELL & TUBE	\$25,000
		RENEWAL	SYSTEMS	STEAM TO WATER (>85 GPM) RENEWAL	
LIFE SCIENCE	0183	DEFERRED	BUILDING	HOOD, FUME RENEWAL	\$30,000
		RENEWAL	SYSTEMS		
LIFE SCIENCE	0183	DEFERRED	BUILDING	HVAC CONTROLS - FIELD PANELS/OPS	\$1,245,000
		RENEWAL	SYSTEMS	SOFTWARE - LABORATORY RENEWAL	
LIFE SCIENCE	0183	DEFERRED	BUILDING	HVAC CONTROLS - MAJOR	\$870,000
		RENEWAL	SYSTEMS	INSTRUMENTATION - LABORATORY	
LIFE SCIENCE	0183	DEFERRED	BUILDING	HVAC CONTROLS - TERMINAL	\$80,000
		RENEWAL	SYSTEMS	ASSEMBLIES - LABORATORY, WET	
LIFE SCIENCE	0183	DEFERRED	BUILDING	HVAC DISTRIBUTION NETWORKS -	\$285,000
		RENEWAL	SYSTEMS	LABORATORY, WET RENEWAL	
LIFE SCIENCE	0183	DEFERRED	BUILDING	LIGHTING SYSTEM, INTERIOR -	\$80,000
		RENEWAL	SYSTEMS	LABORATORY, WET RENEWAL	
LIFE SCIENCE	0183	DEFERRED	BUILDING	PLUMBING FIXTURE - EMERGENCY	\$40,000
		RENEWAL	SYSTEMS	EYEWASH RENEWAL	
LIFE SCIENCE	0183	DEFERRED	BUILDING	PUMP - ELECTRIC (<=10 HP) RENEWAL	\$40,000
		RENEWAL	SYSTEMS		
LIFE SCIENCE	0183	DEFERRED	BUILDING	PUMP - ELECTRIC (11-15 HP) RENEWAL	\$140,000
		RENEWAL	SYSTEMS		
LIFE SCIENCE	0183	DEFERRED	BUILDING	PUMP - ELECTRIC (41-50 HP) RENEWAL	\$1,405,000
		RENEWAL	SYSTEMS		
LIFE SCIENCE	0183	DEFERRED	BUILDING	REFRIGERATION SYSTEM - WALK-IN, 3	\$345,000
		RENEWAL	SYSTEMS	EVAP FANS, 10000 BTUH, CONDENSER	
LIFE SCIENCE	0183	DEFERRED	BUILDING	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV	\$85,000
		RENEWAL	SYSTEMS	PRIMARY (501-750 KVA) RENEWAL	
LIFE SCIENCE	0183	DEFERRED	BUILDING	WALK-IN REFRIGERATOR OR FREEZER	\$45,000
		RENEWAL	SYSTEMS	STRUCTURE RENEWAL	
LIFE SCIENCE	0183	DEFERRED	BUILDING	WHEELCHAIR LIFT, VERTICAL, AVERAGE	\$25,000
		RENEWAL	SYSTEMS	(3 FLOORS MAX) RENEWAL	

\$56,993,000

LINTON HALL	0014	2021	BUILDING	LINTON HALL BUILDING ENVELOPE	\$3,000,000
			ENVELOPE	RENEWAL	
LINTON HALL	0014	2025	BUILDING	ELEVATOR - 1	\$431,000
			SYSTEMS		
LINTON HALL	0014	DEFERRED	BUILDING	REPLACE ELEVATOR 2	\$61,000
		RENEWAL	SYSTEMS		
LINTON HALL	0014	DEFERRED	BUILDING	REPLACE LINTON ATS	\$20,000
		RENEWAL	SYSTEMS		
LINTON HALL	0014	DEFERRED	BUILDING	INTERIOR DOORS - REPLACE SELECTED	\$53,000
		RENEWAL	INTERIOR	INTERIOR DOORS AND HARDWARE	
LINTON HALL	0014	DEFERRED	BUILDING	REPLACE LINTON LIGHTING FIXTURES	\$23,000
		RENEWAL	SYSTEMS		

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
LINTON HALL	0014	DEFERRED	BUILDING	REPLACE ALL WATER PIPING IN	\$1,020,000
		RENEWAL	SYSTEMS	BUILDING.	

\$4,608,000

MANLY MILES	0154	DEFERRED	BUILDING	REPLACE ALL WINDOWS	\$1,489,000
		RENEWAL	ENVELOPE		
MANLY MILES	0154	DEFERRED	BUILDING	REMOVE ALL ASBESTOS CONTAMINATED	\$669,000
		RENEWAL	SYSTEMS	CEILING PLASTER AND SPRAY ON FIRE	
MANLY MILES	0154	DEFERRED	BUILDING	HVAC EQUIPMENT - AHU	\$431,000
		RENEWAL	SYSTEMS		
MANLY MILES	0154	DEFERRED	BUILDING	PUMPS	\$169,000
		RENEWAL	SYSTEMS		
MANLY MILES	0154	DEFERRED	BUILDING	STAIRWELL TREADS AND LIGHTING	\$33,000
		RENEWAL	INTERIOR	FLOORING REPLACEMENT	
MANLY MILES	0154	DEFERRED	BUILDING	INSTALL NEW SUSPENDED CEILINGS AND	\$535,000
		RENEWAL	INTERIOR	LIGHTING IN BLDG	
MANLY MILES	0154	DEFERRED	BUILDING	MANLY MILES FEASIBILITY STUDY	\$32,000
		RENEWAL	INTERIOR		
MANLY MILES	0154	DEFERRED	BUILDING	REPLACE ALUMINUM ENTRANCE DOORS,	\$33,000
		RENEWAL	ENVELOPE	FRAMES, GLAZING AND HARDWARE	
MANLY MILES	0154	DEFERRED	BUILDING	HVAC EQUIPMENT - AHU	\$34,000
		RENEWAL	SYSTEMS		
MANLY MILES	0154	DEFERRED	BUILDING	REPLACE FAN COIL UNITS	\$3,033,000
		RENEWAL	SYSTEMS		
MANLY MILES	0154	DEFERRED	BUILDING	REPLACE SPLIT CHILLER SYSTEM	\$320,000
		RENEWAL	SYSTEMS		

\$6,778,000

MICH BIOTECH	0940	2021	BUILDING	REPLACE OPTO 22 BUILDING	\$440,000
INSTITUTE			SYSTEMS	AUTOMATION SYSTEM PHASE 2	
MICH BIOTECH	0940	DEFERRED	BUILDING	REPLACE MBI ATS - 1	\$20,000
INSTITUTE		RENEWAL	SYSTEMS		
MICH BIOTECH	0940	DEFERRED	BUILDING	REPLACE MBI ATS - 2	\$20,000
INSTITUTE		RENEWAL	SYSTEMS		
MICH BIOTECH	0940	DEFERRED	BUILDING	REPLACE MBI ATS - 3	\$20,000
INSTITUTE		RENEWAL	SYSTEMS		
MICH BIOTECH	0940	DEFERRED	BUILDING	REPLACE MBI ATS - 4	\$20,000
INSTITUTE		RENEWAL	SYSTEMS		
MICH BIOTECH	0940	DEFERRED	BUILDING	REPLACE MBI ATS - 6	\$20,000
INSTITUTE		RENEWAL	SYSTEMS		
MICH BIOTECH	0940	DEFERRED	BUILDING	REPLACE OPTO 22 BUILDING	\$425,000
INSTITUTE		RENEWAL	SYSTEMS	AUTOMATION SYSTEM PHASE 1	

\$965,000

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
MORRILL HALL OF	0022	2021	BUILDING	AIR COMPRESSOR SYSTEM - HVAC	\$1,217,700
AGRICULTURE			SYSTEMS	CONTROLS (<=6 TOTAL HP) RENEWAL	
MORRILL HALL OF	0022	2022	BUILDING	WALL FINISH - APPLIED, STANDARD	\$60,000
AGRICULTURE			INTERIOR	RENEWAL	
MORRILL HALL OF	0022	2024	BUILDING	COM EXTERIOR BLDG MT DECO	\$21,900
AGRICULTURE			SYSTEMS	LIGHTING (COACH, SCONCE, PEND,	
MORRILL HALL OF	0022	2024	BUILDING	FAN - CENTRIFUGAL ROOF EXHAUST (20"-	\$321,300
AGRICULTURE			SYSTEMS	22" DIAMETER) RENEWAL	
MORRILL HALL OF	0022	2024	BUILDING	LIGHTING SYSTEM, INTERIOR - OFFICE	\$1,762,400
AGRICULTURE			SYSTEMS	RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	DOOR AND FRAME, EXTERIOR,	\$30,000
AGRICULTURE		RENEWAL	ENVELOPE	SWINGING RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	DOOR AND FRAME, EXTERIOR,	\$105,500
AGRICULTURE		RENEWAL	ENVELOPE	SWINGING, ALUMINUM AND GLASS	
MORRILL HALL OF	0022	DEFERRED	BUILDING	DOOR LOCK, COMMERCIAL-GRADE,	\$198,000
AGRICULTURE		RENEWAL	ENVELOPE	EXTERIOR RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	DOOR PANIC HARDWARE, EXTERIOR	\$159,900
AGRICULTURE		RENEWAL	ENVELOPE	RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	EXTERIOR TRIM APPLIED FINISH	\$2,985,200
AGRICULTURE		RENEWAL	ENVELOPE	RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	ROOF - 1-PLY, BALLASTED RENEWAL	\$58,300
AGRICULTURE		RENEWAL	ENVELOPE		
MORRILL HALL OF	0022	DEFERRED	BUILDING	ROOF - 1-PLY, UNBALLASTED RENEWAL	\$23,900
AGRICULTURE		RENEWAL	ENVELOPE		
MORRILL HALL OF	0022	DEFERRED	BUILDING	FLOORING - CARPET, TILE OR ROLL,	\$92,900
AGRICULTURE		RENEWAL	INTERIOR	STANDARD RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	FLOORING - TILE, CERAMIC / STONE /	\$640,500
AGRICULTURE		RENEWAL	INTERIOR	QUARRY STANDARD RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	FLOORING - VINYL COMPOSITION TILE,	\$5,663,000
AGRICULTURE		RENEWAL	INTERIOR	STANDARD RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	FLOORING - VINYL SHEET, STANDARD	\$19,600
AGRICULTURE		RENEWAL	INTERIOR	RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	HVAC CONTROLS - FIELD PANELS/OPS	\$124,400
AGRICULTURE		RENEWAL	SYSTEMS	SOFTWARE - OFFICE RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	HVAC CONTROLS - MAJOR	\$35,800
AGRICULTURE		RENEWAL	SYSTEMS	INSTRUMENTATION - OFFICE RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	HVAC CONTROLS - TERMINAL	\$19,700
AGRICULTURE		RENEWAL	SYSTEMS	ASSEMBLIES - OFFICE RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	PRESSURE REDUCING VALVE, STEAM	\$29,500
AGRICULTURE		RENEWAL	SYSTEMS	SYSTEM (4") RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	UNIT HEATER, STEAM/HYDRONIC STD	\$402,100
AGRICULTURE		RENEWAL	SYSTEMS	(TO 250 MBH) RENEWAL	<u> </u>
MORRILL HALL OF	0022	DEFERRED	BUILDING	BACKFLOW PREVENTER (1-2 INCHES)	\$124,100
AGRICULTURE	1	RENEWAL	SYSTEMS	RENEWAL	l. ,

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
MORRILL HALL OF	0022	DEFERRED	BUILDING	DRAIN PIPING SYSTEM - OFFICE	\$276,900
AGRICULTURE		RENEWAL	SYSTEMS	RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	ELECTRICAL BRANCH WIRING - OFFICE	\$99,400
AGRICULTURE		RENEWAL	SYSTEMS	RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	ELECTRICAL DISTRIBUTION NETWORK -	\$225,000
AGRICULTURE		RENEWAL	SYSTEMS	OFFICE RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	FIRE ALARM PANEL, DIALER, BATTERY, &	\$116,800
AGRICULTURE		RENEWAL	SYSTEMS	CHARGER UP TO 700 POINTS RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	FIRE ALARM SYSTEM - DEVICES RENEWAL	\$181,700
AGRICULTURE		RENEWAL	SYSTEMS		
MORRILL HALL OF	0022	DEFERRED	BUILDING	GREYWATER SUMP PUMP -SUBMERSIBLE	\$1,164,200
AGRICULTURE		RENEWAL	SYSTEMS	PUMP (<0.5HP) RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	PLUMBING FIXTURE - SINK, KITCHEN	\$106,800
AGRICULTURE		RENEWAL	SYSTEMS	RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	PLUMBING FIXTURE - SINK,	\$517,900
AGRICULTURE		RENEWAL	SYSTEMS	SERVICE/LAUNDRY/UTILITY RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	RES EXTERIOR BLDG MT DECO OR FLOOD	\$47,300
AGRICULTURE		RENEWAL	SYSTEMS	LIGHTING RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	SUPPLY PIPING SYSTEM - OFFICE	\$143,600
AGRICULTURE		RENEWAL	SYSTEMS	RENEWAL	
MORRILL HALL OF	0022	DEFERRED	BUILDING	UNIT HEATER - INDOOR, GAS,	\$767,900
AGRICULTURE		RENEWAL	SYSTEMS	SUSPENDED (41-100 MBH) RENEWAL	

\$17,743,200

MSU FCU	0606	2024	BUILDING	REPLACE CHILLER - 1	\$480,000
			SYSTEMS		
MSU FCU	0606	2024	BUILDING	REPLACE HEAT EXCHANGER - 2	\$91,000
			SYSTEMS		
MSU FCU	0606	2024	BUILDING	REPLACE HEAT EXCHANGER - 3	\$91,000
			SYSTEMS		
MSU FCU	0606	2024	BUILDING	REPLACE HOT WATER HEATER - 1	\$48,000
			SYSTEMS		
MSU FCU	0606	DEFERRED	BUILDING	REPLACE CONDENSER WATER PUMP - 1	\$28,000
		RENEWAL	SYSTEMS		
MSU FCU	0606	DEFERRED	BUILDING	REPLACE CONDENSER WATER PUMP - 2	\$28,000
		RENEWAL	SYSTEMS		
MSU FCU	0606	DEFERRED	BUILDING	REPLACE CONDENSER WATER PUMP - 3	\$21,000
		RENEWAL	SYSTEMS		
MSU FCU	0606	DEFERRED	BUILDING	REPLACE HEAT EXCHANGER - 1	\$91,000
		RENEWAL	SYSTEMS		
MSU FCU	0606	DEFERRED	BUILDING	REPLACE EF - 1	\$32,000
		RENEWAL	SYSTEMS		
MSU FCU	0606	DEFERRED	BUILDING	REPLACE EF - 4	\$32,000
		RENEWAL	SYSTEMS		

Building Name	Bldg	Work Plan Year	Туре	Description (Title)	Total Estimate
MCLLECLI	0606		BUILDING	DEDLACE EE E	
MSU FCU	0606	DEFERRED		REPLACE EF - 5	\$37,000
MCLLECLL	0000	RENEWAL	SYSTEMS	DEDI ACE EE E	¢27.000
MSU FCU	0606	DEFERRED	BUILDING	REPLACE EF - 5	\$37,000
NACI LECI L	0000	RENEWAL	SYSTEMS	DEDI ACE EE C	¢ 42, 000
MSU FCU	0606	DEFERRED	BUILDING	REPLACE EF - 6	\$43,000
		RENEWAL	SYSTEMS		4
MSU FCU	0606	DEFERRED	BUILDING	REPLACE VF - 1	\$37,000
		RENEWAL	SYSTEMS		
MSU FCU	0606	DEFERRED	BUILDING	REPLACE CHILLED WATER PUMP - 1	\$43,000
		RENEWAL	SYSTEMS		
MSU FCU	0606	DEFERRED	BUILDING	REPLACE CHILLED WATER PUMP - 2	\$43,000
		RENEWAL	SYSTEMS		
MSU FCU	0606	DEFERRED	BUILDING	REPLACE CHILLED WATER PUMP - 3	\$37,000
		RENEWAL	SYSTEMS		
MSU FCU	0606	DEFERRED	BUILDING	REPLACE CHILLED WATER PUMP - 4	\$37,000
		RENEWAL	SYSTEMS		
MSU FCU	0606	DEFERRED	BUILDING	REPLACE CONDENSATE RETURN PUMP -	\$21,000
		RENEWAL	SYSTEMS	10	
MSU FCU	0606	DEFERRED	BUILDING	REPLACE CONDENSATE RETURN PUMP -	\$21,000
		RENEWAL	SYSTEMS	11	
MSU FCU	0606	DEFERRED	BUILDING	REPLACE HOT WATER HEAT PUMP - 5	\$27,000
		RENEWAL	SYSTEMS		
MSU FCU	0606	DEFERRED	BUILDING	REPLACE HOT WATER HEAT PUMP - 6	\$27,000
		RENEWAL	SYSTEMS		,
MSU FCU	0606	DEFERRED	BUILDING	REPLACE HOT WATER HEAT PUMP - 7	\$32,000
		RENEWAL	SYSTEMS		,,,,,,
MSU FCU	0606	DEFERRED	BUILDING	REPLACE HOT WATER HEAT PUMP - 8	\$32,000
		RENEWAL	SYSTEMS		7-2,000
MSU FCU	0606	DEFERRED	BUILDING	REPLACE POTABLE WATER BOOSTER	\$21,000
10.50 1 00		RENEWAL	SYSTEMS	PUMP - 9	721,000
		INLINEVVAL	2131 FIVIS	r Olvir - 3	

\$1,437,000

MSU SURPLUS AND	0223	2024	BUILDING	REPLACE STORM DOMESTIC WATER	\$25,000
RECYCLING			SYSTEMS	RECLAIM PUMP 1	
MSU SURPLUS AND	0223	2024	BUILDING	REPLACE STORM WATER RECLAIM 2	\$26,000
RECYCLING			SYSTEMS		
MSU SURPLUS AND	0223	2024	BUILDING	REPLACE STORM WATER RECLAIM PUMP	\$25,000
RECYCLING			SYSTEMS	1	
MSU SURPLUS AND	0223	2024	BUILDING	REPLACE STORM WATER RECLAIM PUMP	\$25,000
RECYCLING			SYSTEMS	2	
MSU SURPLUS AND	0223	2024	BUILDING	REPLACE STORM WATER RECLAIM	\$26,000
RECYCLING			SYSTEMS	SYSTEM	
MSU SURPLUS AND	0223	2024	BUILDING	REPLACE WATER SOFTENER 1	\$50,000
RECYCLING			SYSTEMS		

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
MSU SURPLUS AND	0223	2024	BUILDING	REPLACE WATER SOFTENER 1	\$52,000
RECYCLING			SYSTEMS		
MSU SURPLUS AND	0223	2024	BUILDING	REPLACE WATER SOFTENER 1	\$52,000
RECYCLING			SYSTEMS		
MSU SURPLUS AND	0223	DEFERRED	BUILDING	REPLACE DOMESTIC HOT WATER HEATER	\$52,000
RECYCLING		RENEWAL	SYSTEMS		

\$333,000

MUNN ICE ARENA	0059	2024	BUILDING	REPLACE ALUMINUM ENTRANCE	\$268,000
			ENVELOPE	FRAMES, DOORS AND HARDWARE	
MUNN ICE ARENA	0059	2023	BUILDING	HEAT EXCHANGER - SHELL & TUBE	\$64,500
			SYSTEMS	STEAM TO WATER (20-85 GPM)	
MUNN ICE ARENA	0059	2024	BUILDING	ROOF - BITUMINOUS, 2-PLY, APPLIED	\$24,700
			ENVELOPE	MODIFIED BITUMEN, TORCH RENEWAL	
MUNN ICE ARENA	0059	2024	BUILDING	ELECTRICAL BRANCH WIRING -	\$29,800
			SYSTEMS	GYMNASIUM RENEWAL	
MUNN ICE ARENA	0059	2024	BUILDING	ELECTRICAL DISTRIBUTION NETWORK -	\$119,500
			SYSTEMS	GYMNASIUM RENEWAL	
MUNN ICE ARENA	0059	2024	BUILDING	MC SWGR ENCLOSURE VERT STACK SECT	\$44,200
			SYSTEMS	(1601-2500 AMP) RENEWAL	
MUNN ICE ARENA	0059	2024	BUILDING	MC SWGR ENCLOSURE VERT STACK SECT	\$24,900
			SYSTEMS	(801-1600 AMP) RENEWAL	
MUNN ICE ARENA	0059	2024	BUILDING	MC SWGR METERING AND INSTRUMENT	\$20,500
			SYSTEMS	SYSTEMS RENEWAL	
MUNN ICE ARENA	0059	2024	BUILDING	SUPPLY PIPING SYSTEM - GYMNASIUM	\$752,200
			SYSTEMS	RENEWAL	
MUNN ICE ARENA	0059	2024	BUILDING	SWGR TIEBREAK SELECTOR, FME,	\$29,900
			SYSTEMS	MANUAL RENEWAL	
MUNN ICE ARENA	0059	DEFERRED	BUILDING	REPLACE MUNN ICE ATS	\$20,000
		RENEWAL	SYSTEMS		
MUNN ICE ARENA	0059	DEFERRED	BUILDING	REPLACE HOLLOW METAL INTERIOR	\$44,000
		RENEWAL	INTERIOR	DOORS AND FRAMES IN VARIOUS AREAS	
MUNN ICE ARENA	0059	DEFERRED	BUILDING	PAINT METAL ROOF 2	\$593,000
		RENEWAL	ENVELOPE		
MUNN ICE ARENA	0059	DEFERRED	BUILDING	REPAIR MASONRY AT ALL ENTRANCES	\$32,000
		RENEWAL	ENVELOPE		
MUNN ICE ARENA	0059	DEFERRED	BUILDING	REPLACE SELECTED HOLLOW METAL	\$57,000
		RENEWAL	INTERIOR	DOORS AND HARDWARE.	
MUNN ICE ARENA	0059	DEFERRED	BUILDING	REPLACE FREIGHT ELEVATOR	\$319,000
		RENEWAL	SYSTEMS	HYDRAULICS, CONTROLLER AND WORN	
MUNN ICE ARENA	0059	DEFERRED	BUILDING	REPLACE RUBBER FLOOR TILES IN AREAS	\$32,000
		RENEWAL	INTERIOR	WHERE FLOOR IS WALKED ON WITH	
MUNN ICE ARENA	0059	DEFERRED	BUILDING	REPLACE SNOW MELT SERVICE	\$57,000
		RENEWAL	SYSTEMS		

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
bulluling Name	Blug	Year	Туре	Description (Title)	Estimate
NALININI ICE ADENIA	0050		DIJII DINC	DEDLACE COLD WATER METER TWO	
MUNN ICE ARENA	0059	DEFERRED	BUILDING SYSTEMS	REPLACE COLD WATER METER, TWO ISOLATION VALVES AND ONE BYPASS	\$32,000
NALININI ICE ADENIA	0050	RENEWAL	ł		¢20,000
MUNN ICE ARENA	0059	DEFERRED	BUILDING	REPLACE PAINTED TOILET PARTITIONS	\$28,000
A ALIANALICE A DEALA	0050	RENEWAL	INTERIOR	DEDLACE DILINADING FIVELINES IN 4ST FLD	¢20.000
MUNN ICE ARENA	0059	DEFERRED	BUILDING	REPLACE PLUMBING FIXTURES IN 1ST FLR	\$38,000
	2252	RENEWAL	SYSTEMS	AND BASEMENT	400.000
MUNN ICE ARENA	0059	DEFERRED	BUILDING	REPLACE 2 GORMAN RUPP PUMPS (AND	\$38,000
		RENEWAL	SYSTEMS	ASSOCIATED ELECTRICAL), THAT PUMP	4
MUNN ICE ARENA	0059	DEFERRED	BUILDING	REPLACE 2 STORM SUMP PUMPS AND	\$36,000
		RENEWAL	SYSTEMS	ELECTRICAL DISCONNECTS LOCATED IN	,
MUNN ICE ARENA	0059	DEFERRED	BUILDING	REPLACE CONDENSATE RETURN UNIT IN	\$40,000
		RENEWAL	SYSTEMS	MECH ROOM 127.	
MUNN ICE ARENA	0059	DEFERRED	BUILDING	REPLACE CEILING TILES AND GRID AS	\$38,000
		RENEWAL	INTERIOR	NEEDED IN ALL AREAS OF ORIGINAL	
MUNN ICE ARENA	0059	DEFERRED	BUILDING	DOOR PANIC HARDWARE, EXTERIOR	\$871,000
		RENEWAL	ENVELOPE	RENEWAL	
MUNN ICE ARENA	0059	DEFERRED	BUILDING	FLOORING - CARPET, TILE OR ROLL,	\$2,865,100
		RENEWAL	INTERIOR	STANDARD RENEWAL	
MUNN ICE ARENA	0059	DEFERRED	BUILDING	FLOORING - VINYL COMPOSITION TILE,	\$200,000
		RENEWAL	INTERIOR	STANDARD RENEWAL	
MUNN ICE ARENA	0059	DEFERRED	BUILDING	DOOR - OVERHEAD, INTERIOR RENEWAL	\$562,000
		RENEWAL	INTERIOR		
MUNN ICE ARENA	0059	DEFERRED	BUILDING	FLOORING - FLUID APPLIED, PAINT OR	\$43,300
		RENEWAL	INTERIOR	CLEAR SEAL RENEWAL	
MUNN ICE ARENA	0059	DEFERRED	BUILDING	WALL FINISH - APPLIED, STANDARD	\$252,100
		RENEWAL	INTERIOR	RENEWAL	
MUNN ICE ARENA	0059	DEFERRED	BUILDING	COM EXTERIOR BLDG MT HI FLOOD	\$27,000
		RENEWAL	SYSTEMS	LIGHTING (WALLPACK, WALLWASH)	
MUNN ICE ARENA	0059	DEFERRED	BUILDING	AIR HANDLING UNIT - INDOOR (2.76-3.25	\$22,700
		RENEWAL	SYSTEMS	HP) RENEWAL	
MUNN ICE ARENA	0059	DEFERRED	BUILDING	CONDENSATE RECEIVER, ELECTRIC, 2	\$123,000
		RENEWAL	SYSTEMS	PUMPS RENEWAL	
MUNN ICE ARENA	0059	DEFERRED	BUILDING	CONDENSATE RECEIVER, PRESSURE	\$33,900
		RENEWAL	SYSTEMS	(<=30 GPM) RENEWAL	
MUNN ICE ARENA	0059	DEFERRED	BUILDING	DEHUMIDIFIER SYSTEM, DESICCANT	\$729,000
		RENEWAL	SYSTEMS	WHEEL (4501-9000 CFM) RENEWAL	
MUNN ICE ARENA	0059	DEFERRED	BUILDING	EXPANSION TANK, DIAPHRAGM (45-69	\$44,300
		RENEWAL	SYSTEMS	GAL) RENEWAL	, , , , , , ,
MUNN ICE ARENA	0059	DEFERRED	BUILDING	EXPANSION TANK, STL PT (27-49 GAL)	\$904,400
		RENEWAL	SYSTEMS	RENEWAL	,
MUNN ICE ARENA	0059	DEFERRED	BUILDING	EXPANSION TANK, STL PT (50-450 GAL)	\$87,800
		RENEWAL	SYSTEMS	RENEWAL	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
MUNN ICE ARENA	0059	DEFERRED	BUILDING	FAN - AXIAL, SUPPLY (21-25 HP) 35,000	\$46,200
IVIOIVIVICE AILLIVA		RENEWAL	SYSTEMS	CFM RENEWAL	7-10,200
		INCINENNAL	DISTEINS	CHIVI NEIVEVVAL	

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
MUNN ICE ARENA	0059	DEFERRED	BUILDING	LIGHTING SYSTEM, INTERIOR -	\$22,000
		RENEWAL	SYSTEMS	GYMNASIUM RENEWAL	
MUNN ICE ARENA	0059	DEFERRED	BUILDING	PRESSURE REDUCING VALVE, STEAM	\$307,700
		RENEWAL	SYSTEMS	SYSTEM (2") RENEWAL	
MUNN ICE ARENA	0059	DEFERRED	BUILDING	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV	\$643,600
		RENEWAL	SYSTEMS	PRIMARY (501-750 KVA) RENEWAL	
MUNN ICE ARENA	0059	DEFERRED	BUILDING	WATER TANK (55-274 GAL) RENEWAL	\$34,000
		RENEWAL	SYSTEMS		

\$10,601,300

MUSEUM	0013	2022	BUILDING	REPLACE FUME HOOD FAN FH-1	\$33,000
			SYSTEMS	LOCATED IN THE ATTIC	
MUSEUM	0013	DEFERRED	BUILDING	REPLACE ELEVATOR 1	\$306,000
		RENEWAL	SYSTEMS		
MUSEUM	0013	DEFERRED	BUILDING	WINDOWS - REPLACE ALL EXTERIOR	\$952,000
		RENEWAL	ENVELOPE	WINDOWS, OLD STEEL (341)	
MUSEUM	0013	DEFERRED	BUILDING	REPLACE EF-1, EF-1A, EF-1B, EF-1D, EF-2,	\$803,000
		RENEWAL	SYSTEMS	EF-2A, SF-1, SF-1A	
MUSEUM	0013	DEFERRED	BUILDING	REPLACE VENTILATION FOR MAIN	\$1,169,000
		RENEWAL	SYSTEMS	GALLERY ROOM 105 AND HERITAGE	
MUSEUM	0013	DEFERRED	BUILDING	DOORS - INTERIOR	\$90,000
		RENEWAL	INTERIOR		
MUSEUM	0013	DEFERRED	BUILDING	REPLACE FIRE ALARM SYSTEM IN	\$252,000
		RENEWAL	SYSTEMS	MUSEUM	
MUSEUM	0013	DEFERRED	BUILDING	REPLACE CLASSMATE UNIT WITH NEW	\$62,000
		RENEWAL	SYSTEMS	SELF CONTAINED COMPUTER ROOM AIR	
MUSEUM	0013	DEFERRED	BUILDING	REPLACE CAST IRON RADIATORS AND	\$353,000
		RENEWAL	SYSTEMS	CONTROL VALVES	

\$4,020,000

NAU ICIC	0044		DI III DINIC	INTERIOR ROOPS REPLACE SOME OLD	¢22.000
MUSIC	0011	DEFERRED	BUILDING	INTERIOR DOORS - REPLACE SOME OLD	\$33,000
		RENEWAL	INTERIOR	DOORS AT BASEMENT AND 1ST FLOOR,	
MUSIC	0011	DEFERRED	BUILDING	FLOOR COVERING - REPLACE FLOORING	\$115,000
		RENEWAL	INTERIOR	AT BASEMENT LEVEL	
MUSIC	0011	DEFERRED	BUILDING	REPLACE VINYL FLOORING AND WALL	\$107,000
		RENEWAL	INTERIOR	BASE ON 1ST AND 2ND FLOOR	
MUSIC	0011	DEFERRED	BUILDING	REPLACE VINYL FLOORING AND WALL	\$107,000
		RENEWAL	INTERIOR	BASE ON 1ST AND 2ND FLOOR	
MUSIC	0011	DEFERRED	BUILDING	REPLACE VINYL FLOORING AND WALL	\$107,000
		RENEWAL	INTERIOR	BASE ON 1ST AND 2ND FLOOR	
MUSIC	0011	DEFERRED	BUILDING	REPLACE VINYL FLOORING AND WALL	\$107,000
		RENEWAL	INTERIOR	BASE ON 1ST AND 2ND FLOOR	
MUSIC	0011	DEFERRED	BUILDING	DOORS - INTERIOR	\$324,000
		RENEWAL	INTERIOR		

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
MUSIC	0011	DEFERRED	BUILDING	MUSIC BUILDING - REMOVE AND	\$574,000
		RENEWAL	SYSTEMS	REPLACE ALL AIR DUCTS IN THE	
MUSIC	0011	DEFERRED	BUILDING	REPLACE RF-1, EF-2, EF-3, EF-6, RF-8, RF-	\$1,472,000
		RENEWAL	SYSTEMS	11, RF-12, RF-9, SF-1, SF-10, SF-15, SF-16,	
MUSIC	0011	DEFERRED	BUILDING	REPLACE HALLWAY LIGHTING AND	\$34,000
		RENEWAL	SYSTEMS	WIRING ON THE 1ST AND 2ND FLOORS	
MUSIC	0011	DEFERRED	BUILDING	MUSIC REPLACE HV-1	\$1,707,000
		RENEWAL	SYSTEMS		
MUSIC	0011	DEFERRED	BUILDING	MUSIC REPLACE HV-10	\$1,387,000
		RENEWAL	SYSTEMS		
MUSIC	0011	DEFERRED	BUILDING	MUSIC REPLACE HV-15	\$1,494,000
		RENEWAL	SYSTEMS		
MUSIC	0011	DEFERRED	BUILDING	MUSIC REPLACE HV-3	\$1,387,000
		RENEWAL	SYSTEMS		
MUSIC	0011	DEFERRED	BUILDING	REPLACE ELEVATOR 1	\$306,000
		RENEWAL	SYSTEMS		

\$9,261,000

0021	2021	BUILDING	REPLACE ORIGINAL FIRE ALARM SYSTEM	\$270,000
		SYSTEMS		
0021	DEFERRED	BUILDING	FLOOR COVERING - REPLACE FRONT	\$115,000
	RENEWAL	INTERIOR	STAIRWELL AND LANDINGS	
0021	DEFERRED	BUILDING	EXTERIOR MASONRY AND CAULKING	\$115,000
	RENEWAL	ENVELOPE	REPAIRS	
0021	DEFERRED	BUILDING	REPLACE 2 HOT WATER HEATING	\$134,000
	RENEWAL	SYSTEMS	SYSTEMS	
0021	DEFERRED	BUILDING	CEILINGS - CEILING TILE REPLACEMENT	\$35,000
	RENEWAL	INTERIOR		
0021	DEFERRED	BUILDING	REPLACE CEILING AND LIGHTING IN	\$87,000
	RENEWAL	INTERIOR	PUBLIC CORRIDORS AND STAIRWELLS	
0021	DEFERRED	BUILDING	REPLACE CORRIDOR FLOORING AND	\$103,000
	RENEWAL	INTERIOR	WALL BASE	
0021	DEFERRED	BUILDING	REPLACE CORRIDOR FLOORING AND	\$103,000
	RENEWAL	INTERIOR	WALL BASE	
0021	DEFERRED	BUILDING	REPLACE CORRIDOR FLOORING AND	\$103,000
	RENEWAL	INTERIOR	WALL BASE	
0021	DEFERRED	BUILDING	REPLACE CORRIDOR FLOORING AND	\$103,000
	RENEWAL	INTERIOR	WALL BASE	
0021	DEFERRED	BUILDING	REPLACE STAIR TREADS/ RISERS AND	\$100,000
	RENEWAL	INTERIOR	LANDING MATERIAL IN BACK STAIRWELL	
0021	DEFERRED	BUILDING	REPLACE STAIRWELL FIRE DOORS AND	\$40,000
	RENEWAL	INTERIOR	HARDWARE	
	0021 0021 0021 0021 0021 0021 0021 0021	0021 DEFERRED RENEWAL	O021 DEFERRED BUILDING RENEWAL ENVELOPE O021 DEFERRED BUILDING RENEWAL ENVELOPE O021 DEFERRED BUILDING RENEWAL SYSTEMS O021 DEFERRED BUILDING RENEWAL INTERIOR	SYSTEMS   DEFERRED   BUILDING   FLOOR COVERING - REPLACE FRONT   STAIRWELL AND LANDINGS

\$1,308,000

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
NATURAL RESOURCES	0180	DEFERRED	BUILDING	REPLACE NATURAL RESOURCES ATS	\$20,000
		RENEWAL	SYSTEMS		
NATURAL RESOURCES	0180	DEFERRED	BUILDING	NATURAL RESOURCES - REPLACE 2	\$138,000
		RENEWAL	SYSTEMS	DOMESTIC HOT WATER HEATERS	
NATURAL RESOURCES	0180	DEFERRED	BUILDING	REPLACE EXTERIOR DOORS/ JAMBS/ AND	\$187,000
		RENEWAL	ENVELOPE	HARDWARE (6-OHD) (16 ENTRY)	
NATURAL RESOURCES	0180	DEFERRED	BUILDING	REPLACE HEAT EXCHANGER 1	\$78,000
		RENEWAL	SYSTEMS		
NATURAL RESOURCES	0180	DEFERRED	BUILDING	REPLACE DOMESTIC WATER METER	\$38,000
		RENEWAL	SYSTEMS		
NATURAL RESOURCES	0180	DEFERRED	BUILDING	REPLACE PUBLIC RESTROOM PLUMBING	\$32,000
		RENEWAL	SYSTEMS	FIXTURES	
NATURAL RESOURCES	0180	DEFERRED	BUILDING	REPLACE DAMAGED/OUTDATED CEILING	\$230,000
		RENEWAL	INTERIOR	TILE AND LIGHTING	

\$723,000

NATURAL SCIENCE	0024	DEFERRED	BUILDING	FLOOR COVERING - REPLACE	\$335,000
		RENEWAL	INTERIOR	DETERIORATED FLOOR TILE	
NATURAL SCIENCE	0024	DEFERRED	BUILDING	INTERIOR DOORS - REPAIR DOORS AND	\$115,000
		RENEWAL	INTERIOR	HARDWARE, BASEMENT THROUGH 4TH	
NATURAL SCIENCE	0024	DEFERRED	BUILDING	REPLACE WATER HEATER IN EAST	\$76,000
		RENEWAL	SYSTEMS	BASEMENT MR	
NATURAL SCIENCE	0024	DEFERRED	BUILDING	NATURAL SCIENCE - REPLACE ELEVATOR	\$306,000
		RENEWAL	SYSTEMS	2	
NATURAL SCIENCE	0024	DEFERRED	BUILDING	PRELIM DESIGN TO REPLACE AIR-COOLED	\$960,000
		RENEWAL	SYSTEMS	CHILLERS	
NATURAL SCIENCE	0024	DEFERRED	BUILDING	REPLACE AIR HANDLING UNIT SF - 1	\$219,000
		RENEWAL	SYSTEMS		
NATURAL SCIENCE	0024	DEFERRED	BUILDING	REPLACE AIR HANDLING UNIT SF - 2	\$202,000
		RENEWAL	SYSTEMS		
NATURAL SCIENCE	0024	DEFERRED	BUILDING	REPLACE AIR HANDLING UNIT SF - 3	\$216,000
		RENEWAL	SYSTEMS		
NATURAL SCIENCE	0024	DEFERRED	BUILDING	REPLACE AIR HANDLING UNIT SF - 4	\$242,000
		RENEWAL	SYSTEMS		
NATURAL SCIENCE	0024	DEFERRED	BUILDING	REPLACE 4 BASEMT SUMP PUMPS IN AIR	\$57,000
		RENEWAL	SYSTEMS	PLENUMS E & W	

\$2,728,000

NISBET	0128	DEFERRED	BUILDING	HVAC EQUIPMENT	\$25,000
		RENEWAL	SYSTEMS		
NISBET	0128	DEFERRED	BUILDING	EXTERIOR MASONRY REPAIRS AND	\$103,000
		RENEWAL	ENVELOPE	CAULKING	
NISBET	0128	DEFERRED	BUILDING	CHILLER - CH1	\$284,000
		RENEWAL	SYSTEMS		

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
NISBET	0128	DEFERRED	BUILDING	CHILLER - CH2	\$284,000
		RENEWAL	SYSTEMS		

\$696,000

OLD BOTANY	0017	DEFERRED	BUILDING	REPLACE LIGHTING AND BRANCH	\$205,000
		RENEWAL	SYSTEMS	CIRCUITS	
OLD BOTANY	0017	DEFERRED	BUILDING	REPLACE HOT AND COLD WATER PIPING	\$64,000
		RENEWAL	SYSTEMS	THROUGHOUT BUILDING	
OLD BOTANY	0017	DEFERRED	BUILDING	REPLACE OLD BOTANY 1-PIPE HOT	\$312,000
		RENEWAL	SYSTEMS	WATER HEATING SYS WITH 2-PIPE SYS	

\$581,000

OLD HORTICULTURE	0025	2021	BUILDING	REPLACE ELEVATOR 1	\$340,000
			SYSTEMS		
OLD HORTICULTURE	0025	DEFERRED	BUILDING	REMOVE ELECTRICAL DISTRIBUTION	\$279,000
		RENEWAL	SYSTEMS	SYSTEM FROM AIR PLENUM	
OLD HORTICULTURE	0025	DEFERRED	BUILDING	CHILLER	\$194,000
		RENEWAL	SYSTEMS		

\$813,000

OLDS HALL	0047	DEFERRED	BUILDING	BASEMENT CRAWL SPACE-REMOVE ALL	\$27,000
		RENEWAL	SYSTEMS	ASBESTOS PIPE INSULATIONS &	
OLDS HALL	0047	DEFERRED	BUILDING	REPLACE FIRE ESCAPE EXTERIOR DOORS,	\$66,000
		RENEWAL	ENVELOPE	FRAMES AND HARDWARE (9)	
OLDS HALL	0047	DEFERRED	BUILDING	INSTALL NEW HEATING/VENTILATING	\$8,379,000
		RENEWAL	SYSTEMS	UNIT TO SERVE ENTIRE BUILDING,	
OLDS HALL	0047	DEFERRED	BUILDING	VAV SYSTEM	\$172,000
		RENEWAL	SYSTEMS		
OLDS HALL	0047	DEFERRED	BUILDING	REPLACE ROOF #1, 2 AND 3	\$254,000
		RENEWAL	ENVELOPE		
OLDS HALL	0047	DEFERRED	BUILDING	REPLACE ROOF TOP AIR CONDITIONING	\$67,000
		RENEWAL	SYSTEMS	UNIT #1	
OLDS HALL	0047	DEFERRED	BUILDING	REPLACE ALL DOMESTIC HOT AND COLD	\$1,275,000
		RENEWAL	SYSTEMS	WATER PIPING INSIDE THE BUILDING,	

\$10,240,000

OYER SPEECH AND	0089	DEFERRED	BUILDING	REPLACE OYER ATS	\$20,000
HEARING		RENEWAL	SYSTEMS		
OYER SPEECH AND	0089	DEFERRED	BUILDING	REPLACE ORIGINAL STEAM REDUCING	\$50,000
HEARING		RENEWAL	SYSTEMS	STATION	
OYER SPEECH AND	0089	DEFERRED	BUILDING	OYER- UPGRADE PCB TRANSFORMERS	\$373,000
HEARING		RENEWAL	SYSTEMS	AND ELECTRICAL EQUIPMENT	

\$443,000

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
PACKAGING	0177	DEFERRED	BUILDING	REPLACE PACKAGING ATS	\$20,000
		RENEWAL	SYSTEMS		
PACKAGING	0177	DEFERRED	BUILDING	REPLACE APPROXIMATELY (23) INTERIOR	\$37,000
		RENEWAL	INTERIOR	BIRCH VENEER DOORS AND HARDWARE	
PACKAGING	0177	DEFERRED	BUILDING	RESIZE AND REPLACE CONTROL AIR	\$33,000
		RENEWAL	SYSTEMS	COMPRESSORS IN THE BASEMENT	
PACKAGING	0177	DEFERRED	BUILDING	PACKAGING- UPGRADE PCB	\$122,000
		RENEWAL	SYSTEMS	TRANSFORMERS AND ELECTRICAL	
PACKAGING	0177	DEFERRED	BUILDING	REPLACE CORRIDOR FLOOR TILE IN	\$48,000
		RENEWAL	INTERIOR	ORIGINAL BUILDING	
PACKAGING	0177	DEFERRED	BUILDING	HVAC #1 & 3	\$1,096,000
		RENEWAL	SYSTEMS		

\$1,356,000

PATHOLOGICAL	0524	DEFERRED	BUILDING	REPLACE 2 EXHAUST FANS	\$22,000
INCINERATOR		RENEWAL	SYSTEMS		

\$22,000

PAVILION AG	0212	2021	BUILDING	REPLACE FIRE SUPPRESSION PIPING	\$450,000
LIVESTOCK			SYSTEMS		
PAVILION AG	0212	DEFERRED	BUILDING	REPLACE VARIOUS HOLLOW METAL AND	\$31,000
LIVESTOCK		RENEWAL	ENVELOPE	OVERHEAD DOORS WHERE DAMAGED	
PAVILION AG	0212	DEFERRED	BUILDING	INTERIOR PAINTING WALL AREAS WHERE	\$77,000
LIVESTOCK		RENEWAL	INTERIOR	NEEDED	
PAVILION AG	0212	DEFERRED	BUILDING	EXTERIOR MASONRY REPAIRS AND	\$57,000
LIVESTOCK		RENEWAL	ENVELOPE	CAULKING	
PAVILION AG	0212	DEFERRED	BUILDING	VAV SYSTEM	\$338,000
LIVESTOCK		RENEWAL	SYSTEMS		
PAVILION AG	0212	DEFERRED	BUILDING	REPLACE PUBLIC RESTROOM PLUMBING	\$38,000
LIVESTOCK		RENEWAL	SYSTEMS	FIXTURES	
PAVILION AG	0212	DEFERRED	BUILDING	CHILLER	\$247,000
LIVESTOCK		RENEWAL	SYSTEMS		

\$1,238,000

PLANT AND SOIL	0086	DEFERRED	BUILDING	REPLACE PLANT SOIL SCIENCE ATS	\$20,000
SCIENCE		RENEWAL	SYSTEMS		
PLANT AND SOIL	0086	DEFERRED	BUILDING	REPLACE HVAC SYSTEM 1 (MPS)	\$438,000
SCIENCE		RENEWAL	SYSTEMS		
PLANT AND SOIL	0086	DEFERRED	BUILDING	REPLACE HYDRAULIC ELEVATOR	\$529,000
SCIENCE		RENEWAL	SYSTEMS		
PLANT AND SOIL	0086	DEFERRED	BUILDING	REMOVE DOUBLE STRENGTH GLASS IN	\$98,000
SCIENCE		RENEWAL	ENVELOPE	ROOF AND REPLACE WITH	
PLANT AND SOIL	0086	DEFERRED	BUILDING	HVAC EQUIPMENT	\$7,148,000
SCIENCE		RENEWAL	SYSTEMS		

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
PLANT AND SOIL	0086	DEFERRED	BUILDING	REPLACE 5 SUPPLY FANS, 4 PLENUM	\$3,399,000
SCIENCE		RENEWAL	SYSTEMS	EXHAUST FANS,	
PLANT AND SOIL	0086	DEFERRED	BUILDING	LIGHTING FIXTURES	\$2,275,000
SCIENCE		RENEWAL	SYSTEMS		
PLANT AND SOIL	0086	DEFERRED	BUILDING	REPLACE PLUMBING FIXTURES	\$51,000
SCIENCE		RENEWAL	SYSTEMS		
					\$13,958,000

PLANT BIOLOGY	0178	DEFERRED	BUILDING	ADD A REDUNDANT HOT WATER HEAT	\$23,000
		RENEWAL	SYSTEMS	PUMP SO THAT WORK CAN BE	
PLANT BIOLOGY	0178	DEFERRED	BUILDING	HVAC EQUIPMENT	\$1,432,000
		RENEWAL	SYSTEMS		
PLANT BIOLOGY	0178	DEFERRED	BUILDING	LIGHTING FIXTURES	\$336,000
		RENEWAL	SYSTEMS		
PLANT BIOLOGY	0178	DEFERRED	BUILDING	PLANT BIOLOGY - EXTERIOR DOORS -	\$82,000
		RENEWAL	ENVELOPE	REPLACE ALL MAIN ENTRANCES.	
PLANT BIOLOGY	0178	DEFERRED	BUILDING	REPLACE DETERIORATED PENTHOUSE	\$111,000
		RENEWAL	SYSTEMS	DUCT INSULATION	
PLANT BIOLOGY	0178	DEFERRED	BUILDING	MOVE AND RE-PIPE HWHT BOOSTER	\$74,000
		RENEWAL	SYSTEMS	COILS THAT ARE LOCATED IN THE	
PLANT BIOLOGY	0178	DEFERRED	BUILDING	PLANT BIOLOGY REPLACE FLOORING	\$73,000
		RENEWAL	INTERIOR	BASEMENT CORRIDOR	
PLANT BIOLOGY	0178	DEFERRED	BUILDING	REPLACE SUSPENDED CEILINGS AND	\$622,000
		RENEWAL	INTERIOR	LIGHTING THROUGHOUT CORRIDORS	

\$2,753,000

PLANT SCIENCE	0098C	DEFERRED	BUILDING	REPLACE ELEVATOR 1	\$184,000
GREENHOUSE-EAST		RENEWAL	SYSTEMS		
PLANT SCIENCE	0098C	DEFERRED	BUILDING	REPLACE ELEVATOR 2	\$184,000
GREENHOUSE-EAST		RENEWAL	SYSTEMS		
PLANT SCIENCE	0098C	DEFERRED	BUILDING	INTERIOR DOORS - REPLACE SOME	\$20,000
GREENHOUSE-EAST		RENEWAL	INTERIOR	INTERIOR GREENHOUSE DOORS.	

\$388,000

PLANT SCIENCE	0094	DEFERRED	BUILDING	REPLACE EAVES TROUGHS AND REPAIR	\$21,000
GREENHOUSE-		RENEWAL	ENVELOPE	ROOF #1	

\$21,000

PLANT SCIENCE	0093	DEFERRED	BUILDING	REPLACE 160 SIDEWALL EXHAUST FANS	\$669,000
GREENHOUSE-WEST		RENEWAL	SYSTEMS		

\$669,000

PSYCHOLOGY	0027	2022	BUILDING	REPLACE CHILLER	\$194,000
			SYSTEMS		

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
PSYCHOLOGY	0027	2022	BUILDING	REPLACE ELEVATOR 1	\$490,000
			SYSTEMS		
PSYCHOLOGY	0027	2024	BUILDING	REPLACE CHILLED WATER PUMP 3	\$38,000
			SYSTEMS		
PSYCHOLOGY	0027	2024	BUILDING	REPLACE CHILLED WATER PUMP 4	\$38,000
			SYSTEMS		
PSYCHOLOGY	0027	2024	BUILDING	REPLACE DOMESTIC HOT WATER HEATER	\$79,000
			SYSTEMS	1	
PSYCHOLOGY	0027	2024	BUILDING	REPLACE DOMESTIC HOT WATER HEATER	\$79,000
			SYSTEMS	2	
PSYCHOLOGY	0027	2024	BUILDING	REPLACE EXHAUST FAN 1	\$28,000
			SYSTEMS		
PSYCHOLOGY	0027	2024	BUILDING	REPLACE HOT WATER PUMP 1	\$25,000
			SYSTEMS		
PSYCHOLOGY	0027	2024	BUILDING	REPLACE HOT WATER PUMP 2	\$25,000
			SYSTEMS		
PSYCHOLOGY	0027	2024	BUILDING	REPLACE HVAC SYSTEM 1	\$313,000
			SYSTEMS		
PSYCHOLOGY	0027	2024	BUILDING	REPLACE HVAC SYSTEM 2	\$313,000
			SYSTEMS		
PSYCHOLOGY	0027	2024	BUILDING	REPLACE HVAC SYSTEM 3	\$179,000
			SYSTEMS		
PSYCHOLOGY	0027	2024	BUILDING	REPLACE HVAC SYSTEM 4	\$168,000
			SYSTEMS		
PSYCHOLOGY	0027	2024	BUILDING	REPLACE STEAM FIRED HOT WATER	\$89,000
			SYSTEMS	HEATER 1	
PSYCHOLOGY	0027	DEFERRED	BUILDING	REPLACE PSYCHOLOGY ATS	\$20,000
		RENEWAL	SYSTEMS		
PSYCHOLOGY	0027	DEFERRED	BUILDING	REPLACE DOMESTIC WATER METER AND	\$30,000
		RENEWAL	SYSTEMS	SHUT OFF VALVES	
PSYCHOLOGY	0027	DEFERRED	BUILDING	REPLACE ORIGINAL TOILETS, FLUSH	\$54,000
		RENEWAL	SYSTEMS	VALVES, URINALS, & URINAL FLUSH	
PSYCHOLOGY	0027	DEFERRED	BUILDING	PSYCHOLOGY - UPGRADE PCB	\$127,000
		RENEWAL	SYSTEMS	TRANSFORMERS AND ELECTRICAL	

\$2,289,000

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PUBLIC SAFETY	0087	2021	BUILDING	REPLACE EXTERIOR DOORS	\$20,000
			ENVELOPE		
PUBLIC SAFETY	0087	DEFERRED	BUILDING	PAINT MAIN LOBBY AND HALLWAYS	\$53,000
		RENEWAL	INTERIOR		
PUBLIC SAFETY	0087	DEFERRED	BUILDING	EXTERIOR ENTRANCE DOORS/ FRAMES/	\$91,000
		RENEWAL	ENVELOPE	HARDWARE	
PUBLIC SAFETY	0087	DEFERRED	BUILDING	REPLACE PUBLIC SAFETY ATS	\$20,000
		RENEWAL	SYSTEMS		

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
PUBLIC SAFETY	0087	DEFERRED RENEWAL	BUILDING ENVELOPE	EXTERIOR MASONRY RESTORATION	\$35,000
PUBLIC SAFETY	0087	DEFERRED	BUILDING	ROOF REPAIR/REPLACEMENT ROOF	\$330,000
		RENEWAL	ENVELOPE	#1,2,3,5,7,8	
PUBLIC SAFETY	0087	DEFERRED	BUILDING	VAV SYSTEM	\$289,000
		RENEWAL	SYSTEMS		ć020 000
					\$838,000
PUREBRED BEEF-HAY	0450E	DEFERRED	BUILDING	PAINT ROOF	\$49,000
SHED		RENEWAL	ENVELOPE		
					\$49,000
PUREBRED BEEF-	0450C	DEFERRED	BUILDING	RE-COAT NE ROOF	\$24,000
LOOSE HOUSING		RENEWAL	ENVELOPE		
					\$24,000
PUREBRED BEEF-	0450A	DEFERRED	BUILDING	REPLACE EXISTING VINYL SIDING WITH	\$107,000
MAIN		RENEWAL	ENVELOPE	NEW STEEL VERTICAL BARN SIDING AND	
PUREBRED BEEF-	0450A	DEFERRED	BUILDING	REPAIR CRACKED BLOCK WALLS	\$55,000
MAIN		RENEWAL	ENVELOPE		
					\$162,000
PUREBRED BEEF-	0450B	2024	BUILDING	REPLACE ROOF #1	\$20,000
SHEEP BARN			ENVELOPE		
					\$20,000
RADIO FACILITY-	0600A	2024	BUILDING	REPLACE ROOFS #1, 2 AND 3	\$78,000
RADIO TRANSM			ENVELOPE		
					\$78,000
RADIOLOGY	0214	2023	BUILDING	REPLACE ELEVATOR 1	\$490,000
			SYSTEMS		
RADIOLOGY	0214	2023	BUILDING	REPLACE RADIOLOGY ATS	\$20,000
			SYSTEMS		
RADIOLOGY	0214	DEFERRED	BUILDING	PUMPS	\$265,000
DADIOLOCY	0244	RENEWAL	SYSTEMS	VAVICYCTERA	¢5.42.000
RADIOLOGY	0214	DEFERRED RENEWAL	BUILDING SYSTEMS	VAV SYSTEM	\$543,000
		THE VVAL	I STELLING	1	\$1,318,000
REGIONAL CHILLED	0189	2022	BUILDING	REPLACE FAN BLADES ON COOLING	\$30,000
WATER PLANT	0109	2022	SYSTEMS	TOWERS 5 & 6	750,000
REGIONAL CHILLED	0189	2023	BUILDING	REPLACE 1250 TON CHILLER #8 AND	\$2,294,000
WATER PLANT			SYSTEMS	COOLING TOWER	, =,=, =,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
REGIONAL CHILLED	0189	2023	BUILDING	REPLACE FAN BLADES ON COOLING	\$30,000
WATER PLANT			SYSTEMS	TOWERS 1 & 2	
REGIONAL CHILLED	0189	DEFERRED	BUILDING	REPLACE RCW PLANT ATS	\$20,000
WATER PLANT		RENEWAL	SYSTEMS		
REGIONAL CHILLED	0189	DEFERRED	BUILDING	GENERAL MASONRY & CAULKING	\$172,000
WATER PLANT		RENEWAL	ENVELOPE	RESTORATION OF ENTIRE BUILDING	
REGIONAL CHILLED	0189	DEFERRED	BUILDING	EXTERIOR DOOR REPLACEMENT (2)	\$27,000
WATER PLANT		RENEWAL	ENVELOPE	ENTRY DOORS & (2) OVERHEAD DOORS	
REGIONAL CHILLED	0189	DEFERRED	BUILDING	LIGHTING FIXTURES	\$24,000
WATER PLANT		RENEWAL	SYSTEMS		
REGIONAL CHILLED	0189	DEFERRED	BUILDING	ROOF REPAIR/REPLACEMENT ROOF #2	\$107,000
WATER PLANT		RENEWAL	ENVELOPE		
REGIONAL CHILLED	0189	DEFERRED	BUILDING	RCWP STEAM METERING	\$213,000
WATER PLANT		RENEWAL	SYSTEMS		
REGIONAL CHILLED	0189	DEFERRED	BUILDING	REPLACE CHILLER #10 AND COOLING	\$2,323,000
WATER PLANT		RENEWAL	SYSTEMS	TOWER	
REGIONAL CHILLED	0189	DEFERRED	BUILDING	REPLACE STEAM POWERED	\$500,000
WATER PLANT		RENEWAL	SYSTEMS	CONDENSATE PUMPS SERVING NORTH	
REGIONAL CHILLED	0189	DEFERRED	BUILDING	REPLACE CHILLER #9 AND COOLING	\$2,294,000
WATER PLANT		RENEWAL	SYSTEMS	TOWER	
REGIONAL CHILLED	0189	DEFERRED	BUILDING	PROVIDE CONNECTION FOR PORTABLE	\$194,000
WATER PLANT		RENEWAL	SYSTEMS	GENERATOR TO RUN ABSORBER AND	

\$8,228,000

					\$88,000
			ENVELOPE		
SHEEP BARN	0449	2024	BUILDING	REPLACE ROOFS #1 AND 2	\$88,000

STUDENT SERVICES	0142	2022	BUILDING	REPLACE ELEVATOR 1	\$490,000
STODENT SERVICES	0142	2022		REPLACE ELEVATOR 1	3490,000
			SYSTEMS		
STUDENT SERVICES	0142	2022	BUILDING	REPLACE ELEVATOR 2	\$490,000
			SYSTEMS		
STUDENT SERVICES	0142	2025	BUILDING	REPLACE SUMP PUMP 01	\$23,000
			SYSTEMS		
STUDENT SERVICES	0142	2025	BUILDING	REPLACE SUMP PUMP 02	\$23,000
			SYSTEMS		
STUDENT SERVICES	0142	DEFERRED	BUILDING	CORRIDOR CEILING AND LIGHTING	\$161,000
		RENEWAL	INTERIOR	REPLACEMENTS ON 1ST, 2ND & 3RD	
STUDENT SERVICES	0142	DEFERRED	BUILDING	REPLACE 10 OBSOLETE MOTOR	\$42,000
		RENEWAL	SYSTEMS	STARTERS, BRANCH CIRCUIT FEEDERS.	
STUDENT SERVICES	0142	DEFERRED	BUILDING	DOORS - EXTERIOR	\$207,000
		RENEWAL	ENVELOPE		
STUDENT SERVICES	0142	DEFERRED	BUILDING	REPLACE 4 HOT WATER HEAT PUMPS	\$76,000
		RENEWAL	SYSTEMS	AND VALVES	

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
STUDENT SERVICES	0142	DEFERRED	BUILDING	REPLACE HOT WATER DOMESTIC	\$69,000
		RENEWAL	SYSTEMS	CONVERTER	
STUDENT SERVICES	0142	DEFERRED	BUILDING	REPLACE INTERIOR DOORS AND	\$669,000
		RENEWAL	INTERIOR	HARDWARE TO OFFICES AND CLOSETS	
STUDENT SERVICES	0142	DEFERRED	BUILDING	REPLACE CHILLED WATER PUMP N-3	\$40,000
		RENEWAL	SYSTEMS		
STUDENT SERVICES	0142	DEFERRED	BUILDING	REPLACE CHILLED WATER PUMP N-4	\$40,000
		RENEWAL	SYSTEMS		
STUDENT SERVICES	0142	DEFERRED	BUILDING	REPLACE ALL PUBLIC RESTROOM	\$38,000
		RENEWAL	SYSTEMS	LAVATORY FAUCETS AND TRIM, AND	
STUDENT SERVICES	0142	DEFERRED	BUILDING	REPLACE EXISTING SHUT OFF VALVES	\$32,000
		RENEWAL	SYSTEMS	AND WATER METER	
STUDENT SERVICES	0142	DEFERRED	BUILDING	REPLACE STUDENT SERVICES ATS	\$20,000
		RENEWAL	SYSTEMS		
STUDENT SERVICES	0142	DEFERRED	BUILDING	REPLACE SUMP PUMP 03	\$23,000
		RENEWAL	SYSTEMS		
STUDENT SERVICES	0142	DEFERRED	BUILDING	REPLACE SUMP PUMP 04	\$23,000
		RENEWAL	SYSTEMS		
STUDENT SERVICES	0142	DEFERRED	BUILDING	UPDATE FIRE SYSTEM AND ADD SMOKE	\$589,000
		RENEWAL	SYSTEMS	DETECTORS	
					\$3,055,000
SWINE RESEARCH-	0440A	DEFERRED	BUILDING	REMOVE OLD ROOF SHINGLES AND	\$135,000
BARN/ELEVATOR		RENEWAL	ENVELOPE	REPLACE (AREAS 1,4,5) REPLACE AREA 3	
					\$135,000
SWINE RESEARCH-	0440B	DEFERRED	BUILDING	DOORS - EXTERIOR	\$41,000
GARAGE		RENEWAL	ENVELOPE		
	•				\$41,000
SWINE RESEARCH-	0440E	DEFERRED	BUILDING	ROOF REPLACEMENT	\$35,000
GESTATION		RENEWAL	ENVELOPE		
	•		•		\$35,000
SWINE TEACH AND					
	0479	2025	BUILDING	PUMPS	\$40,000
RESEARCH	0479	2025	BUILDING SYSTEMS	PUMPS	\$40,000
RESEARCH	0479	2025		PUMPS	\$40,000 <b>\$40,000</b>
RESEARCH  TB SIMON POWER	0479	2025		PUMPS POWER PLANT CONVERT EXTERIOR	
			SYSTEMS		\$40,000
TB SIMON POWER			SYSTEMS	POWER PLANT CONVERT EXTERIOR	\$40,000
TB SIMON POWER PLANT	0065	2021	SYSTEMS  BUILDING SYSTEMS	POWER PLANT CONVERT EXTERIOR LIGHTING TO LED	<b>\$40,000</b> \$30,000
TB SIMON POWER PLANT TB SIMON POWER	0065	2021 DEFERRED	BUILDING SYSTEMS BUILDING	POWER PLANT CONVERT EXTERIOR LIGHTING TO LED REPLACE MAIN ENTRANCE EXTERIOR	<b>\$40,000</b> \$30,000

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Building Name	Bldg	Work Plan Year	Туре	Description (Title)	Total Estimate
TB SIMON POWER	0065	DEFERRED	BUILDING	REPLACE ORIGINAL OVERHEAD DOORS	\$134,000
PLANT		RENEWAL	ENVELOPE	ON BLDG EXTERIOR	
TB SIMON POWER	0065	DEFERRED	BUILDING	ELEVATOR - 2	\$689,000
PLANT		RENEWAL	SYSTEMS		, , , , , , , , , , , , , , , , , , , ,
TB SIMON POWER	0065	DEFERRED	BUILDING	REPLACE ROOFS 9, 12, 13, 14, 17	\$160,000
PLANT		RENEWAL	ENVELOPE		,,
TB SIMON POWER	0065	DEFERRED	BUILDING	ROOF REPAIR/REPLACEMENT ROOF	\$76,000
PLANT		RENEWAL	ENVELOPE	#17,16	ψ, σ,σσσ
TB SIMON POWER	0065	DEFERRED	BUILDING	ROOF REPAIR/REPLACEMENT ROOF #2	\$78,000
PLANT	0003	RENEWAL	ENVELOPE	THOSE REPAIRING EXCERNEES THOSE WE	770,000
I LAIVI		INCINEVVAL	LIVVLLOIL		\$1,254,000
					<b>31,234,000</b>
THAYER HOUSE	0445A	2021	BUILDING	REPLACE ROOFS 1-5	\$30,000
			ENVELOPE		
THAYER HOUSE	0445A	DEFERRED	BUILDING	DOORS - EXTERIOR	\$32,000
		RENEWAL	ENVELOPE		
					\$62,000
	1_	T	T=	In	Ta a .
TREE RESEARCH-	0472D	DEFERRED	BUILDING	ROOF REPAIR/REPLACEMENT -	\$209,000
HEADHOUSE		RENEWAL	ENVELOPE	GREENHOUSE (NORTH) ROOF #1,	
					\$209,000
UFSC-4-H	0453G	DEFERRED	BUILDING	RECOAT/REPLACE ROOF #1	\$161,000
		RENEWAL	ENVELOPE		
	•	•	•		\$161,000
UFSC-COMMUNITY	0453D	12024	BUILDING	RECOAT/ REPLACE ROOF #1	\$110,000
	04550	2024	ENVELOPE	RECOAT/ REPLACE ROOF #1	\$110,000
STRG			EINVELOPE		¢110.000
					\$110,000
UFSC-MAINTENANCE	0453H	DEFERRED	BUILDING	REPLACE ROOF #1	\$87,000
		RENEWAL	ENVELOPE		
					\$87,000
UFSC-MATERIALS &	0453J	DEFERRED	BUILDING	ROOF #1	\$66,000
PESITCIDE STRG	04331	RENEWAL	ENVELOPE	11001 #1	500,000
I LUITCIDE STRU		INLINEVVAL	LINVLLOFE	L	\$66,000
					. ,
UFSC-NORTH	04531	DEFERRED	BUILDING	ROOF #1	\$88,000
MORTON		RENEWAL	ENVELOPE		
					\$88,000
UNIV RESEARCH	0211	2021	BUILDING	REPLACE CHILLED WATER PUMPS	\$355,000
CONTAINMENT			SYSTEMS	THE ENGLOSMELLE WANTER TOTAL S	7555,000
CONTAINIVIENT	<u> </u>		SISIEIVIS		

UNIV RESEARCH 0211 2022 BUILDING REPLACE EXISTING HEAT EXCHANGER \$300,000 CONTAINMENT 0211 2022 BUILDING SYSTEMS AND ADD A SECOND HEAT EXCHANGER \$335,000 CONTAINMENT SYSTEMS AND ADD A SECOND HEAT EXCHANGER \$335,000 CONTAINMENT SYSTEMS WILLIAM SYSTEMS WIL	Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
CONTAINMENT UNIV RESEARCH O211 2022 BUILDING SYSTEMS UNIV RESEARCH O211 2025 BUILDING SYSTEMS UNIV RESEARCH O211 DEFERED BUILDING SYSTEMS BOILER UNIV RESEARCH O211 DEFERED BUILDING SYSTEMS BUILDING SYSTEMS BOILER UNIV RESEARCH O211 DEFERED BUILDING SYSTEMS SYSTEMS BUILDING SYSTEMS BUILDING SYSTEMS SYSTEMS SYSTEMS SYSTEMS SYSTEMS SYSTEMS SOOOD SOO			Year			Estimate
UNIV RESEARCH CONTAINMENT 2022 BUILDING SYSTEMS 2568,000  UNIV RESEARCH CONTAINMENT 2022 BUILDING SYSTEMS 2568,000  UNIV RESEARCH CONTAINMENT 2022 BUILDING SYSTEMS 2568,000  UNIV RESEARCH CONTAINMENT 2022 BUILDING SYSTEMS 257,000  CONTAINMENT 2025 BUILDING REPLACE WATER SOFTNER THAT SERVES 257,000  CONTAINMENT 2025 BUILDING REPLACE WATER SOFTNER THAT SERVES 257,000  CONTAINMENT 2021 DEFERRED BUILDING RENEWAL INTERIOR FRAMES, AND RECOAT FLOORS IN ULAR 257,000  CONTAINMENT 250,000  CONT	UNIV RESEARCH	0211	2021	BUILDING	REPLACE EXISTING HEAT EXCHANGER	\$300,000
CONTAINMENT UNIV RESEARCH UNIV RESEARCH UNIV RESEARCH CONTAINMENT UNIV RESEARCH UNIV RESEARCH CONTAINMENT UNIV RESEARCH CO	CONTAINMENT			SYSTEMS	AND ADD A SECOND HEAT EXCHANGER	
UNIV RESEARCH CONTAINMENT UNIV RESEARCH CONT	UNIV RESEARCH	0211	2022	BUILDING	REPLACE EAST LOW PRESSURE BOILER	\$335,000
CONTAINMENT UNIV RESEARCH UNIV RESEARCH UNIV RESEARCH CONTAINMENT UNIV	CONTAINMENT			SYSTEMS		
UNIV RESEARCH CONTAINMENT UNIV RESEARCH UNIV RESEARCH CONTAINMENT UNIV RESEARCH CONTAINMENT UNIV RESEARCH UNIV RESEARCH UNIV RESEARCH CONTAINMENT UNIV RESEARCH CONTAINMENT UNIV RESEARCH CONTAINMENT UNIV RESEARCH CONTAINMENT UNIV RESEARCH CONTAINMENT UNIV RESEARCH CONTAINMENT UNIV RESEARCH UNIV R	UNIV RESEARCH	0211	2022	BUILDING	REPLACE HIGH PRESSURE BOILER	\$268,000
CONTAINMENT UNIV RESEARCH CONTAINMENT UNIV RESEARCH CONTAINMENT UNIV RESEARCH UNIV RESEARCH UNIV RESEARCH CONTAINMENT UNIV RESEARCH CONTAINMENT UNIV RESEARCH CONTAINMENT UNIV RESEARCH	CONTAINMENT			SYSTEMS		
UNIV RESEARCH CONTAINMENT UNIV RESEARCH UNIV RESEARCH UNIV RESEARCH CONTAINMENT UNIV RESEARCH UNIV R	UNIV RESEARCH	0211	2022	BUILDING	REPLACE WEST LOW PRESSURE BOILER	\$335,000
CONTAINMENT UNIV RESEARCH UNIV RESEARCH CONTAINMENT UNIV RESEARCH UNIV R	CONTAINMENT			SYSTEMS		
UNIV RESEARCH CONTAINMENT UNIV RESEARCH UNIV RESEARCH CONTAINMENT UNIV	UNIV RESEARCH	0211	2025	BUILDING	REPLACE WATER SOFTNER THAT SERVES	\$27,000
CONTAINMENT UNIV RESEARCH UNIV RESEARCH UNIV RESEARCH CONTAINMENT UNIV RESEARCH UNIV RESEARCH CONTAINMENT UNIV RESEARCH UNIV RESEARCH UNIV RESEARCH CONTAINMENT UNIV RESEARCH UNIV R	CONTAINMENT			SYSTEMS	BOILER	
UNIV RESEARCH CONTAINMENT UNIV RESEARCH UNIV RESEARCH CONTAINMENT UNIV RESEARCH UNIV RESEARCH CONTAINMENT UNIV RESEARCH CO	UNIV RESEARCH	0211	DEFERRED	BUILDING	PAINT INTERIOR WALLS, DOORS AND	\$27,000
CONTAINMENT  RENEWAL SYSTEMS AND HVAC 5  UNIV RESEARCH CONTAINMENT  CONTAINMENT  UNIV RESEARCH CONTAINMENT  CONTAINMENT  DEFERRED RENEWAL SYSTEMS  FANS 1, 2, 7, AND 8.  UNIV RESEARCH CONTAINMENT  RENEWAL SYSTEMS  AND HVAC 5  REPLACE AHU 1, 2, 3, 4, 5, 6, EXHAUST \$1,472,000 \$100,000	CONTAINMENT		RENEWAL	INTERIOR	FRAMES, AND RECOAT FLOORS IN ULAR	
UNIV RESEARCH CONTAINMENT CONT	UNIV RESEARCH	0211	DEFERRED	BUILDING	REPLACE SHEET METAL PANS IN HVAC 3	\$44,000
CONTAINMENT  RENEWAL SYSTEMS FANS 1, 2, 7, AND 8.  UNIV RESEARCH CONTAINMENT UNIV RESEARCH UNIV RESEARCH CONTAINMENT UNIV RESEARCH UNI	CONTAINMENT		RENEWAL	SYSTEMS	AND HVAC 5	
UNIV RESEARCH CONTAINMENT DEFERRED BUILDING REPLACE ENERGY RECLAIM PUMPS (2) \$100,000  CONTAINMENT DEFERRED BUILDING REPLACE HEAT EXCHANGERS \$69,000  CONTAINMENT DEFERRED BUILDING REPLACE HOT WATER HEATING PUMPS \$80,000  CONTAINMENT SYSTEMS  UNIV RESEARCH 0211 DEFERRED BUILDING REPLACE SUMP PUMPS \$60,000  UNIV RESEARCH 0211 DEFERRED BUILDING REPLACE SUMP PUMPS \$60,000	UNIV RESEARCH	0211	DEFERRED	BUILDING	REPLACE AHU 1, 2, 3, 4, 5, 6, EXHAUST	\$1,472,000
CONTAINMENT  UNIV RESEARCH UNIV RESEARCH CONTAINMENT  UNIV RESEARCH UNIV RESEARCH CONTAINMENT  UNIV RESEARCH UNIV RESEARC	CONTAINMENT		RENEWAL	SYSTEMS	FANS 1, 2, 7, AND 8.	
UNIV RESEARCH 0211 DEFERRED BUILDING REPLACE HEAT EXCHANGERS \$69,000 CONTAINMENT 0211 DEFERRED BUILDING REPLACE HOT WATER HEATING PUMPS \$80,000 CONTAINMENT RENEWAL SYSTEMS UNIV RESEARCH 0211 DEFERRED BUILDING REPLACE SUMP PUMPS \$60,000	UNIV RESEARCH	0211	DEFERRED	BUILDING	REPLACE ENERGY RECLAIM PUMPS (2)	\$100,000
CONTAINMENT RENEWAL SYSTEMS UNIV RESEARCH 0211 DEFERRED BUILDING REPLACE HOT WATER HEATING PUMPS \$80,000 CONTAINMENT RENEWAL SYSTEMS UNIV RESEARCH 0211 DEFERRED BUILDING REPLACE SUMP PUMPS \$60,000	CONTAINMENT		RENEWAL	SYSTEMS		
UNIV RESEARCH 0211 DEFERRED BUILDING REPLACE HOT WATER HEATING PUMPS \$80,000 CONTAINMENT RENEWAL SYSTEMS UNIV RESEARCH 0211 DEFERRED BUILDING REPLACE SUMP PUMPS \$60,000	UNIV RESEARCH	0211	DEFERRED	BUILDING	REPLACE HEAT EXCHANGERS	\$69,000
CONTAINMENT RENEWAL SYSTEMS UNIV RESEARCH 0211 DEFERRED BUILDING REPLACE SUMP PUMPS \$60,000	CONTAINMENT		RENEWAL	SYSTEMS		
UNIV RESEARCH 0211 DEFERRED BUILDING REPLACE SUMP PUMPS \$60,000	UNIV RESEARCH	0211	DEFERRED	BUILDING	REPLACE HOT WATER HEATING PUMPS	\$80,000
	CONTAINMENT		RENEWAL	SYSTEMS		
CONTAINMENT RENEWAL SYSTEMS	UNIV RESEARCH	0211	DEFERRED	BUILDING	REPLACE SUMP PUMPS	\$60,000
	CONTAINMENT		RENEWAL	SYSTEMS		
UNIV RESEARCH 0211 DEFERRED BUILDING ROOFING - FM ROOFS #1, 2, 3, AND 4 \$291,000	UNIV RESEARCH	0211	DEFERRED	BUILDING	ROOFING - FM ROOFS #1, 2, 3, AND 4	\$291,000
CONTAINMENT RENEWAL ENVELOPE	CONTAINMENT		RENEWAL	ENVELOPE		

\$3,763,000

	\$20,000	VERSITY SERVICES ATS	3   F	BUILDING	DEFERRED	0088	UNIVERSITY SERVICES
RENEWAL SYSTEMS				SYSTEMS	RENEWAL		

\$20,000

URBAN PLANNING	0082	2021	BUILDING	HVAC STUDY ON URBAN PLANNING	\$100,000
LANDSCAPE ARCH-			SYSTEMS		
URBAN PLANNING	0082	DEFERRED	BUILDING	REST ROOM PARTITIONS - REPLACE	\$21,000
LANDSCAPE ARCH-		RENEWAL	INTERIOR	TOILET PARTITIONS.	
URBAN PLANNING	0082	DEFERRED	BUILDING	URBAN PLANNING LANDSCAPE -	\$256,000
LANDSCAPE ARCH-		RENEWAL	SYSTEMS	REPLACE FIRE ALARM SYSTEM	
URBAN PLANNING	0082	DEFERRED	BUILDING	REPLACE HOT WATER HEAT PUMPS 1	\$41,000
LANDSCAPE ARCH-		RENEWAL	SYSTEMS	AND 2, INCLUDING CHECK, BALANCING	
URBAN PLANNING	0082	DEFERRED	BUILDING	VAV SYSTEM	\$48,000
LANDSCAPE ARCH-		RENEWAL	SYSTEMS		

\$466,000

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
VET RESEARCH-GERM	0446F	DEFERRED	BUILDING	REPLACE ROOF #1	\$143,000
FREE BARN		RENEWAL	ENVELOPE		
VET RESEARCH-GERM	0446F	DEFERRED	BUILDING	DOORS - EXTERIOR - ED	\$72,000
FREE BARN		RENEWAL	ENVELOPE		
VET RESEARCH-GERM	0446F	DEFERRED	BUILDING	DOORS - INTERIOR - IND	\$28,000
FREE BARN		RENEWAL	INTERIOR		
					\$243,000

VET RESEARCH-LARGE	0446A	DEFERRED	BUILDING	DOORS - EXTERIOR - ED	\$41,000
ANIMAL		RENEWAL	ENVELOPE		
VET RESEARCH-LARGE	0446A	DEFERRED	BUILDING	DOORS - INTERIOR	\$24,000
ANIMAI		RENEWAL	INTERIOR		

\$65,000

VET RESEARCH-	0446C	DEFERRED	BUILDING	COMPLETE EXTERIOR RENOVATION	\$44,000
MANAGER'S HOUSE		RENEWAL	ENVELOPE	INCLUDING WINDOWS, DOORS, SIDING,	
VET RESEARCH-	0446C	DEFERRED	BUILDING	REPLACE ALL WINDOWS AND MAIN	\$23,000
MANAGER'S HOUSE		RENEWAL	ENVELOPE	ENTRY DOORS	

\$67,000

VET RESEARCH-	0446B	DEFERRED	BUILDING	RECOAT ROUND ROOF BARN 0446B	\$50,000
ROUND ROOF		RENEWAL	ENVELOPE		
VET RESEARCH-	0446B	DEFERRED	BUILDING	REPLACE EXTERIOR DOORS	\$27,000
ROUND ROOF		RENEWAL	ENVELOPE		

\$77,000

VETERINARY	0215	2021	BUILDING	UPGRADE CONTROLS IN VDL TRAILER-1	\$35,000
DIAGNOSTIC			SYSTEMS		
VETERINARY	0215	2022	BUILDING	REPLACE FILTER MEDIA IN THE IRON	\$44,000
DIAGNOSTIC			SYSTEMS	FILTER TANKS FOR DOMESTIC COLD	
VETERINARY	0215	2025	BUILDING	REPLACE DEAERATOR AND FEED PUMPS	\$1,004,000
DIAGNOSTIC			SYSTEMS	FOR BOILER SYSTEM	
VETERINARY	0215	2025	BUILDING	REPLACE EAST HIGH PRESSURE BOILER	\$1,004,000
DIAGNOSTIC			SYSTEMS		
VETERINARY	0215	2025	BUILDING	REPLACE WEST HIGH PRESSURE BOILER	\$1,004,000
DIAGNOSTIC			SYSTEMS		
VETERINARY	0215	DEFERRED	BUILDING	REPLACE STEAM DOMESTIC WATER	\$69,000
DIAGNOSTIC		RENEWAL	SYSTEMS	HEATER LOCATED IN PENTHOUSE	
VETERINARY	0215	DEFERRED	BUILDING	REPLACE WATER SOFTENER MINERAL IN	\$44,000
DIAGNOSTIC		RENEWAL	SYSTEMS	2 DOMESTIC WATER SOFTENER TANKS IN	

\$3,204,000

VETERINARY MEDICAL	0170	2021	BUILDING	REPAIR/REPLACE ROOF FLASHING	\$37,000
CENTER			ENVELOPE		

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
bananig Hame	Diag	Year	1,460	Description (Title)	Estimate
VETERINARY MEDICAL	0170	2021	BUILDING	UPDATE HVAC STUDY AND DEVELOP	\$250,000
CENTER	0170	2021	SYSTEMS	PHASING PLAN	7230,000
VETERINARY MEDICAL	0170	2021	BUILDING	VAV SYSTEM	\$863,000
CENTER	0170	2021	SYSTEMS	VAV SISILIVI	7003,000
VETERINARY MEDICAL	0170	2022	BUILDING	VET MED HVAC 1 AND 21 PHASE 3 OF 3	\$5,000,000
CENTER	0170	2022	SYSTEMS	VET WED TIVNE I MIND 21 TIMBE 3 OF 3	73,000,000
VETERINARY MEDICAL	0170	2025	BUILDING	PLUMBING FIXTURES	\$481,000
CENTER	0170	2023	SYSTEMS	LOWIDINGTIXTORES	7401,000
VETERINARY MEDICAL	0170	2021	BUILDING	CASEWORK - WOOD BASE AND WALL,	\$290,000
CENTER	0170	2021	INTERIOR	TOP, STANDARD RENEWAL	7230,000
VETERINARY MEDICAL	0170	2021	BUILDING	INTERIOR STAIR TREAD AND LANDING	\$425,000
CENTER			INTERIOR	FINISH RENEWAL	ψ : <u>-</u> 3,555
VETERINARY MEDICAL	0170	2021	BUILDING	EXPANSION TANK, STL PT (50-450 GAL)	\$620,000
CENTER			SYSTEMS	RENEWAL	
VETERINARY MEDICAL	0170	2021	BUILDING	PUMP - ELECTRIC (<=10 HP) RENEWAL	\$100,000
CENTER			SYSTEMS	,	
VETERINARY MEDICAL	0170	2021	BUILDING	VARIABLE FREQUENCY DRIVE (16-20 HP)	\$335,000
CENTER			SYSTEMS	RENEWAL	
VETERINARY MEDICAL	0170	2021	BUILDING	WATER HEATER - SHELL & TUBE (46-93	\$680,000
CENTER			SYSTEMS	GPM) RENEWAL	
VETERINARY MEDICAL	0170	2022	BUILDING	WALL FINISH - APPLIED, STANDARD	\$30,000
CENTER			INTERIOR	RENEWAL	
VETERINARY MEDICAL	0170	2022	BUILDING	PRESSURE REDUCING VALVE, STEAM	\$7,710,000
CENTER			SYSTEMS	SYSTEM (2") RENEWAL	
VETERINARY MEDICAL	0170	2022	BUILDING	REFRIGERATION SYSTEM - WALK-IN, 4	\$460,000
CENTER			SYSTEMS	EVAP FANS, 26500 BTUH, CONDENSER	
VETERINARY MEDICAL	0170	2022	BUILDING	VARIABLE FREQUENCY DRIVES RENEWAL	\$135,000
CENTER			SYSTEMS		
VETERINARY MEDICAL	0170	2023	BUILDING	FIRE ALARM PANEL, DIALER, BATTERY, &	\$40,000
CENTER			SYSTEMS	CHARGER RENEWAL	
VETERINARY MEDICAL	0170	2024	BUILDING	AIR HANDLING UNIT - INDOOR (10-12	\$25,000
CENTER			SYSTEMS	HP) RENEWAL	
VETERINARY MEDICAL	0170	2025	BUILDING	DOOR OPERATOR, OVERHEAD COIL	\$195,000
CENTER			ENVELOPE	DOOR, PADS RENEWAL	4
VETERINARY MEDICAL	0170	2025	BUILDING	DOOR OPERATOR, POWER-ASSIST	\$35,000
CENTER			ENVELOPE	RENEWAL	4
VETERINARY MEDICAL	0170	2025	BUILDING	ROOF - 1-PLY, BALLASTED RENEWAL	\$16,090,000
CENTER	0470	2025	ENVELOPE	FLOODING FILLID ADDUED FDOWN	¢270.000
VETERINARY MEDICAL	01/0	2025	BUILDING	FLOORING - FLUID APPLIED, EPOXY /	\$370,000
CENTER	0170	2025	INTERIOR	ACRYLIC / POLYURETHANE RENEWAL	¢4 520 000
VETERINARY MEDICAL	01/0	2025	BUILDING	FLOORING - VINYL COMPOSITION TILE,	\$4,520,000
CENTER VETERINIARY MEDICAL	0170	2025	INTERIOR	STANDARD RENEWAL	¢35,000
VETERINARY MEDICAL	01/0	2025	BUILDING	AIR COMPRESSOR SYSTEM - HVAC	\$35,000
CENTER	<u> </u>		SYSTEMS	CONTROLS (<=6 TOTAL HP) RENEWAL	

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
Building Hame	5.08	Year	1.760	Description (Title)	Estimate
VETERINARY MEDICAL	0170	2025	BUILDING	BACKFLOW PREVENTER (<=1 INCH)	\$490,000
CENTER	0170	2023	SYSTEMS	RENEWAL	7-30,000
VETERINARY MEDICAL	0170	2025	BUILDING	BACKFLOW PREVENTER (1-2 INCHES)	\$60,000
CENTER	0170	2023	SYSTEMS	RENEWAL	700,000
VETERINARY MEDICAL	0170	2025	BUILDING	COM EXTERIOR BLDG MT HI FLOOD	\$30,000
CENTER	0170	2023	SYSTEMS	LIGHTING (WALLPACK, WALLWASH)	30,000
VETERINARY MEDICAL	0170	2025	BUILDING	DRAIN PIPING SYSTEM - LABORATORY,	\$925,000
CENTER	0170	2023	SYSTEMS	WET RENEWAL	7525,000
VETERINARY MEDICAL	0170	2025	BUILDING	FIRE ALARM PANEL, DIALER, BATTERY, &	\$50,000
CENTER	0170	2023	SYSTEMS	CHARGER UP TO 200 POINTS RENEWAL	750,000
VETERINARY MEDICAL	0170	2025	BUILDING	FIRE ALARM PANEL, DIALER, BATTERY, &	\$170,000
CENTER	0170	2023	SYSTEMS	CHARGER UP TO 400 POINTS RENEWAL	3170,000
VETERINARY MEDICAL	0170	2025	BUILDING	FIRE ALARM PANEL, DIALER, BATTERY, &	\$235,000
CENTER	0170	2023	SYSTEMS	CHARGER UP TO 700 POINTS RENEWAL	7233,000
VETERINARY MEDICAL	0170	2025	BUILDING	FIRE ALARM SYSTEM - DEVICES RENEWAL	\$175,000
CENTER	0170	2023	SYSTEMS	TIME ALAMINI STSTEINT - DEVICES MEINEWAL	3173,000
VETERINARY MEDICAL	0170	2025	BUILDING	HVAC CONTROLS - TERMINAL	\$100,000
CENTER	0170	2023	SYSTEMS	ASSEMBLIES - LABORATORY, WET	3100,000
VETERINARY MEDICAL	0170	2025	BUILDING	LIGHTING SYSTEM, INTERIOR -	\$570,000
CENTER	0170	2023	SYSTEMS	LABORATORY, WET RENEWAL	3370,000
VETERINARY MEDICAL	0170	2025	BUILDING	PLUMBING FIXTURE - SINK, KITCHEN	\$520,000
CENTER	0170	2023	SYSTEMS	RENEWAL	3320,000
VETERINARY MEDICAL	0170	2025	BUILDING	POWER INVERTER, DC TO AC RENEWAL	\$265,000
CENTER	0170	2023	SYSTEMS	FOWER INVERTER, DE TO AC REINEWAL	\$203,000
VETERINARY MEDICAL	0170	2025	BUILDING	PUMP - ELECTRIC (<=10 HP) RENEWAL	\$1,820,000
CENTER	0170	2023	SYSTEMS	TOWN ELLETTIC ( = 10 TIII ) REINEWAL	71,020,000
VETERINARY MEDICAL	0170	2025	BUILDING	WATER SOFTENER (41-70 GPM)	\$2,440,000
CENTER	0170	2023	SYSTEMS	RENEWAL	72,440,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	EXTERIOR MASONRY AND CAULKING	\$80,000
CENTER	0170	RENEWAL		RESTORATION	700,000
VETERINARY MEDICAL	0170	DEFERRED		REPLACE ORIGINAL 9X9 FLOOR TILE IN	\$401,000
CENTER	0170	RENEWAL	INTERIOR	HALLWAYS AND PUBLIC AREAS OF 'A'	7401,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	REPLACE STEAM PRV STATION,	\$53,000
CENTER	0170	RENEWAL	SYSTEMS	RECONFIGURE PIPING MR-A50	33,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	REPLACE CONTROL AIR COMPRESSORS (3	\$95,000
CENTER	0170	RENEWAL	SYSTEMS	SETS)	755,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	VETERINARY MEDICAL CENTER-	\$245,000
CENTER	0170	RENEWAL	SYSTEMS	UPGRADE PCB TRANSFORMERS AND	7243,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	REPLACE ELEVATOR D2	\$340,000
CENTER	32,3	RENEWAL	SYSTEMS	2.102 2227.11011 22	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	REPLACE ELEVATOR G3	\$340,000
CENTER	31,0	RENEWAL	SYSTEMS	The Ever Elleviller G5	75-0,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	REPLACE ELEVATOR G4	\$340,000
CENTER	01/0	RENEWAL	SYSTEMS	THE EXICE ELEVATION OF	75-0,000
CLIVILIN	<u> </u>	INCINE VVAL	2121 FIVIS	l	<u> </u>

Building Name	Bldg		Туре	Description (Title)	Total
Dullaing Name	Diag	Year	Турс	Description (Title)	Estimate
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	DOOR AND FRAME, EXTERIOR,	\$60,000
CENTER	0170	RENEWAL		SWINGING, HOLLOW METAL RENEWAL	300,000
VETERINARY MEDICAL	0170	DEFERRED		DOOR LOCK, SECURITY, EXTERIOR	\$35,000
CENTER	0170	RENEWAL		RENEWAL	\$33,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	GLASS, WINDOW, ALUMINUM OR	\$35,000
CENTER	0170	RENEWAL	ENVELOPE	WOOD, STANDARD RENEWAL	\$33,000
VETERINARY MEDICAL	0170	DEFERRED		ROOF - BITUMINOUS, 2-PLY, APPLIED	\$335,000
CENTER	0170	RENEWAL		MODIFIED BITUMEN, TORCH RENEWAL	<del>3333,000</del>
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	WALL, EXTERIOR, SIDING, METAL	\$105,000
CENTER	0170	RENEWAL	ENVELOPE	CORRUGATED, V-BEAM, OR RIBBED	\$105,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	FLOORING - CARPET, TILE OR ROLL,	\$720,000
CENTER	0170	RENEWAL	INTERIOR	STANDARD RENEWAL	\$720,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	FLOORING - VINYL COMPOSITION TILE,	\$35,000
CENTER	0170	RENEWAL	INTERIOR	STANDARD RENEWAL	733,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	CONDENSATE RECEIVER, ELECTRIC, 2	\$60,000
CENTER	0170	RENEWAL	SYSTEMS	PUMPS RENEWAL	700,000
VETERINARY MEDICAL	0170	DEFERRED		PRESSURE REDUCING VALVE, STEAM	\$20,000
CENTER	0170	RENEWAL	SYSTEMS	SYSTEM (2") RENEWAL	\$20,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	REFRIGERATION SYSTEM - WALK-IN, 2	\$85,000
CENTER	0170	RENEWAL	SYSTEMS	EVAP FANS, 6700 BTUH, CONDENSER	703,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	REFRIGERATION SYSTEM - WALK-IN, 3	\$55,000
CENTER		RENEWAL	SYSTEMS	EVAP FANS, 10000 BTUH, CONDENSER	,
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	RES EXTERIOR BLDG MT DECO OR FLOOD	\$845,000
CENTER		RENEWAL	SYSTEMS	LIGHTING RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	VARIABLE FREQUENCY DRIVE (7.6-10 HP)	\$25,000
CENTER		RENEWAL	SYSTEMS	RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	AIR COMPRESSOR -	\$50,000
CENTER		RENEWAL	SYSTEMS	MEDICAL/LABORATORY PCKG (=10 HP),	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	AIR COMPRESSOR -	\$145,000
CENTER		RENEWAL	SYSTEMS	MEDICAL/LABORATORY PCKG (20-40 HP),	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	AIR COMPRESSOR SYSTEM - HVAC	\$30,000
CENTER		RENEWAL	SYSTEMS	CONTROLS (7-10 TOTAL HP) RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	AIR COMPRESSOR SYSTEM - HVAC	\$105,000
CENTER		RENEWAL	SYSTEMS	CONTROLS (<=6 TOTAL HP) RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	AIR HANDLING UNIT - INDOOR (.5-1.25	\$35,000
CENTER		RENEWAL	SYSTEMS	HP) RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	AIR HANDLING UNIT - INDOOR (10-12	\$1,255,000
CENTER		RENEWAL	SYSTEMS	HP) RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	AIR HANDLING UNIT - INDOOR (13-17	\$355,000
CENTER		RENEWAL	SYSTEMS	HP) RENEWAL	4
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	AIR HANDLING UNIT - INDOOR (24-27	\$390,000
CENTER	0.1=5	RENEWAL	SYSTEMS	HP) RENEWAL	4=0=
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	AIR HANDLING UNIT - INDOOR (28-35	\$535,000
CENTER		RENEWAL	SYSTEMS	HP) RENEWAL	

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
Danaing Name	Diag	Year	l ypc	Description (Title)	Estimate
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	AIR HANDLING UNIT - INDOOR (46-63	\$105,000
CENTER	0170	RENEWAL	SYSTEMS	HP) RENEWAL	3103,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	BACKFLOW PREVENTER (<=1 INCH)	\$215,000
CENTER	0170	RENEWAL	SYSTEMS	RENEWAL	\$213,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	BACKFLOW PREVENTER (1-2 INCHES)	\$65,000
CENTER	0170	RENEWAL	SYSTEMS	RENEWAL	303,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	BACKFLOW PREVENTER (3-4 INCHES)	\$30,000
CENTER	0170	RENEWAL	SYSTEMS	RENEWAL	330,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	BACKFLOW PREVENTER (4-6 INCHES)	\$1,470,000
CENTER	0170	RENEWAL	SYSTEMS	RENEWAL	\$1,470,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	COM EXTERIOR BLDG MT DECO	\$45,000
CENTER	0170	RENEWAL	SYSTEMS	LIGHTING (COACH, SCONCE, PEND,	343,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	COM EXTERIOR BLDG MT HI FLOOD	\$40,000
CENTER	0170	RENEWAL	SYSTEMS	LIGHTING (WALLPACK, WALLWASH)	340,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	CONDENSATE RECEIVER, ELECTRIC, 2	\$510,000
CENTER	0170	RENEWAL	SYSTEMS	PUMPS RENEWAL	\$310,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	CONDENSER - REFRIGERANT, AIR-	\$45,000
CENTER	0170	RENEWAL	SYSTEMS	COOLED (<=10 TON) RENEWAL	343,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	DOMESTIC WATER BOOSTER SYSTEM	\$90,000
CENTER	0170	RENEWAL	SYSTEMS	RENEWAL	390,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	DUST COLLECTION SYSTEM RENEWAL	\$685,000
CENTER	0170	RENEWAL	SYSTEMS	DOST COLLECTION STSTEM RENEWAL	3083,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	ELECTRICAL BRANCH WIRING -	\$1,090,000
CENTER	0170	RENEWAL	SYSTEMS	LABORATORY, WET RENEWAL	71,030,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	ELECTRICAL DISTRIBUTION NETWORK -	\$60,000
CENTER	01/0	RENEWAL	SYSTEMS	LABORATORY, WET RENEWAL	700,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	ELEVATOR MODERNIZATION -	\$40,000
CENTER		RENEWAL	SYSTEMS	HYDRAULIC 2-5 FLOORS RENEWAL	1 10,000
VETERINARY MEDICAL	0170	DEFERRED	BUILDING		\$40,000
CENTER		RENEWAL	SYSTEMS	RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	FANs - AXIAL, RETURN RENEWAL	\$20,000
CENTER		RENEWAL	SYSTEMS		
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	FAN - CENTRIFUGAL ROOF EXHAUST (20"-	\$805,000
CENTER		RENEWAL	SYSTEMS	22" DIAMETER) RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	FIRE PUMP - ELECTRIC, 500 GPM, 3" ID	\$715,000
CENTER		RENEWAL	SYSTEMS	(16-65 HP) RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	GENERATOR - NATURAL GAS OR	\$310,000
CENTER		RENEWAL	SYSTEMS	GASOLINE (>100 KW) RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	HEAT EXCHANGER - SHELL & TUBE	\$25,000
CENTER		RENEWAL	SYSTEMS	STEAM TO WATER (>85 GPM) RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	HUMIDIFIER, STEAM INJECTION	\$265,000
CENTER		RENEWAL	SYSTEMS	RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	HVAC CONTROLS - MAJOR	\$115,000
CENTER		RENEWAL	SYSTEMS	INSTRUMENTATION - LABORATORY AND	

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	HVAC CONTROLS - TERMINAL	\$45,000
CENTER		RENEWAL	SYSTEMS	ASSEMBLIES - LABORATORY, WET	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	MAIN SWITCHBOARD W/BREAKERS	\$50,000
CENTER		RENEWAL	SYSTEMS	(1601-2500 AMP) RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	MC SWGR ENCLOSURE VERT STACK SECT	\$30,000
CENTER		RENEWAL	SYSTEMS	(1601-2500 AMP) RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	MC SWGR INCOMING PWR CONNECT	\$145,000
CENTER		RENEWAL	SYSTEMS	(CABLE/CONDUIT) RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	MC SWGR METERING AND INSTRUMENT	\$130,000
CENTER		RENEWAL	SYSTEMS	SYSTEMS RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	MOTOR CONTROL CENTER VERTICAL	\$5,025,000
CENTER		RENEWAL	SYSTEMS	SECTION, 600V (401-600A) W/STARTERS	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	MOTOR CONTROL CENTER VERTICAL	\$780,000
CENTER		RENEWAL	SYSTEMS	SECTION, 600V (601-800A) W/STARTERS	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	PANELBOARD, 3 PH, 208/120V (151-300	\$130,000
CENTER		RENEWAL	SYSTEMS	AMP), INCL. BRK. RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	PLUMBING FIXTURE - SINK, KITCHEN	\$180,000
CENTER		RENEWAL	SYSTEMS	RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	PLUMBING FIXTURE - SINK,	\$115,000
CENTER		RENEWAL	SYSTEMS	SERVICE/LAUNDRY/UTILITY RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	PRESSURE REDUCING VALVE, STEAM	\$270,000
CENTER		RENEWAL	SYSTEMS	SYSTEM RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	PUMP - ELECTRIC (<=10 HP) RENEWAL	\$55,000
CENTER		RENEWAL	SYSTEMS		
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	PUMP - ELECTRIC (31-40 HP) RENEWAL	\$50,000
CENTER		RENEWAL	SYSTEMS		
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	REFRIGERATION SYSTEM - WALK-IN, 2	\$85,000
CENTER		RENEWAL	SYSTEMS	EVAP FANS, 6700 BTUH, CONDENSER	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	REFRIGERATION SYSTEM - WALK-IN, 3	\$205,000
CENTER		RENEWAL	SYSTEMS	EVAP FANS, 10000 BTUH, CONDENSER	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	REFRIGERATION SYSTEM - WALK-IN, 4	\$380,000
CENTER		RENEWAL	SYSTEMS	EVAP FANS, 26500 BTUH, CONDENSER	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	RES EXTERIOR BLDG MT DECO OR FLOOD	\$360,000
CENTER		RENEWAL	SYSTEMS	LIGHTING RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	REVERSE OSMOSIS SYSTEM (<=5,000	\$2,560,000
CENTER		RENEWAL	SYSTEMS	GPD) RENEWAL	
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	SUPPLY PIPING SYSTEM - LABORATORY,	\$430,000
CENTER		RENEWAL	SYSTEMS	WET RENEWAL	4
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	SWITCH - AUTO TRANSFER, 480 V (101-	\$285,000
CENTER		RENEWAL	SYSTEMS	400 AMP) RENEWAL	4
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	VARIABLE FREQUENCY DRIVES RENEWAL	\$100,000
CENTER		RENEWAL	SYSTEMS		ļ
VETERINARY MEDICAL	0170	DEFERRED	BUILDING	WATER SOFTENER RENEWAL	\$2,560,000
CENTER		RENEWAL	SYSTEMS		

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate

VETERINARY MEDICAL	0170A	2021	BUILDING	ROOF - BITUMINOUS, 3-PLY, SBS	\$240,000
CENTER-EQUINE			ENVELOPE	MODIFIED BITUMEN, MOP RENEWAL	
VETERINARY MEDICAL	0170A	2021	BUILDING	FLOORING - VINYL COMPOSITION TILE,	\$25,000
CENTER-EQUINE			INTERIOR	STANDARD RENEWAL	
VETERINARY MEDICAL	0170A	2021	BUILDING	AIR COMPRESSOR SYSTEM - HVAC	\$35,000
CENTER-EQUINE			SYSTEMS	CONTROLS (<=6 TOTAL HP) RENEWAL	
VETERINARY MEDICAL	0170A	2021	BUILDING	BACKFLOW PREVENTER (<=1 INCH)	\$35,000
CENTER-EQUINE			SYSTEMS	RENEWAL	
VETERINARY MEDICAL	0170A	2024	BUILDING	FLOORING - FLUID APPLIED, PAINT OR	\$560,000
CENTER-EQUINE			INTERIOR	CLEAR SEAL RENEWAL	
VETERINARY MEDICAL	0170A	2024	BUILDING	AIR HANDLING UNIT - INDOOR (3.26-6	\$50,000
CENTER-EQUINE			SYSTEMS	HP) RENEWAL	
VETERINARY MEDICAL	0170A	2024	BUILDING	BOILER - GAS (801-1500 MBH) RENEWAL	\$425,000
CENTER-EQUINE			SYSTEMS		
VETERINARY MEDICAL	0170A	2024	BUILDING	PLUMBING FIXTURE - LAVATORY, WALL	\$130,000
CENTER-EQUINE			SYSTEMS	HUNG RENEWAL	
VETERINARY MEDICAL	0170A	2024	BUILDING	PLUMBING FIXTURE - URINAL RENEWAL	\$740,000
CENTER-EQUINE			SYSTEMS		
VETERINARY MEDICAL	0170A	2024	BUILDING	PLUMBING FIXTURE - WATER CLOSET,	\$45,000
CENTER-EQUINE			SYSTEMS	TANK-TYPE RENEWAL	
VETERINARY MEDICAL	0170A	2025	BUILDING	CEILING FINISH - APPLIED PAINT OR	\$1,100,000
CENTER-EQUINE			INTERIOR	STAIN, STANDARD RENEWAL	
VETERINARY MEDICAL	0170A	DEFERRED	BUILDING	HVAC EQUIPMENT - AHU	\$664,000
CENTER-EQUINE		RENEWAL	SYSTEMS		
VETERINARY MEDICAL	0170A	DEFERRED	BUILDING	LIGHTING FIXTURES	\$69,000
CENTER-EQUINE		RENEWAL	SYSTEMS		
VETERINARY MEDICAL	0170A	DEFERRED	BUILDING	PUMPS	\$141,000
CENTER-EQUINE		RENEWAL	SYSTEMS		

D. Haller Marrie	DI.I.	lw Dl	I <del>-</del>	Description (Title)	T l
Building Name	Bldg	Work Plan Year	Туре	Description (Title)	Total Estimate
VETERINARY MEDICAL	0170A	DEFERRED	BUILDING	DOOR LOCK, COMMERCIAL-GRADE,	\$830,000
CENTER-EQUINE		RENEWAL	ENVELOPE	EXTERIOR RENEWAL	
VETERINARY MEDICAL	0170A	DEFERRED	BUILDING	DOOR OPERATOR, OVERHEAD DOOR,	\$1,610,000
CENTER-EQUINE		RENEWAL	ENVELOPE	COMMERCIAL, PADS RENEWAL	
VETERINARY MEDICAL	0170A	DEFERRED	BUILDING	DOOR PANIC HARDWARE, EXTERIOR	\$16,130,000
CENTER-EQUINE		RENEWAL	ENVELOPE	RENEWAL	
VETERINARY MEDICAL	0170A	DEFERRED	BUILDING	WALL, EXTERIOR, SIDING, METAL	\$50,000
CENTER-EQUINE		RENEWAL	ENVELOPE	CORRUGATED, V-BEAM, OR RIBBED RENEWAL	
VETERINARY MEDICAL	0170A	DEFERRED	BUILDING	FLOORING - CARPET, TILE OR ROLL,	\$730,000
CENTER-EQUINE		RENEWAL	INTERIOR	STANDARD RENEWAL	
VETERINARY MEDICAL	0170A	DEFERRED	BUILDING	FURNACE, OUTDOOR, NATURAL GAS	\$90,000
CENTER-EQUINE		RENEWAL	SYSTEMS	(121-225 MBH) RENEWAL	
VETERINARY MEDICAL	0170A	DEFERRED	BUILDING	HVAC CONTROLS - MAJOR	\$40,000
CENTER-EQUINE		RENEWAL	SYSTEMS	INSTRUMENTATION AND FIELD	
				PANELS/OPS SOFTWARE- MEDICAL	
				CLINIC RENEWAL	
VETERINARY MEDICAL	0170A	DEFERRED	BUILDING	HVAC CONTROLS - MAJOR	\$35,000
CENTER-EQUINE		RENEWAL	SYSTEMS	INSTRUMENTATION AND FIELD	
				PANELS/OPS SOFTWARE- OFFICE RENEWAL	
VETERINARY MEDICAL	0170A	DEFERRED	BUILDING	HVAC CONTROLS - TERMINAL	\$110,000
CENTER-EQUINE		RENEWAL	SYSTEMS	ASSEMBLIES - MEDICAL CLINIC RENEWAL	
VETERINARY MEDICAL	0170A	DEFERRED	BUILDING	LIGHTING SYSTEM, INTERIOR - MEDICAL	\$40,000
CENTER-EQUINE		RENEWAL	SYSTEMS	CLINIC RENEWAL	
VETERINARY MEDICAL	0170A	DEFERRED	BUILDING	RES EXTERIOR BLDG MT DECO OR FLOOD	\$915,000
CENTER-EQUINE		RENEWAL	SYSTEMS	LIGHTING RENEWAL	
VETERINARY MEDICAL	0170A	DEFERRED	BUILDING	UNIT HEATER, STEAM/HYDRONIC STD	\$5,020,000
CENTER-EQUINE		RENEWAL	SYSTEMS	(TO 250 MBH) RENEWAL	
VETERINARY MEDICAL	0170A	DEFERRED	BUILDING	VARIABLE FREQUENCY DRIVE (<=5 HP)	\$1,210,000
CENTER-EQUINE		RENEWAL	SYSTEMS	RENEWAL	
VETERINARY MEDICAL	0170A	DEFERRED	BUILDING	FIRE ALARM PANEL, DIALER, BATTERY, &	\$5,115,000
CENTER-EQUINE		RENEWAL	SYSTEMS	CHARGER UP TO 200 POINTS RENEWAL	
				1	

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
VETERINARY MEDICAL	0170A	DEFERRED	BUILDING	FIRE ALARM SYSTEM - DEVICES RENEWAL	\$260,000
CENTER-EQUINE		RENEWAL	SYSTEMS		
VETERINARY MEDICAL	0170A	DEFERRED	BUILDING	PUMP - ELECTRIC (<=10 HP) RENEWAL	\$745,000
CENTER-EQUINE		RENEWAL	SYSTEMS		
VETERINARY MEDICAL	0170A	DEFERRED	BUILDING	UNIT HEATER - INDOOR, GAS,	\$20,000
CENTER-EQUINE		RENEWAL	SYSTEMS	SUSPENDED (41-100 MBH) RENEWAL	

\$37,209,000

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0170B	2021		1	\$2,785,000
		SYSTEMS	SUSPENDED (41-100 MBH) RENEWAL	
0170B	2022	BUILDING	FLOORING - CARPET, TILE OR ROLL,	\$40,000
		INTERIOR	STANDARD RENEWAL	
0170B	2022	BUILDING	VARIABLE FREQUENCY DRIVE (21-25 HP)	\$80,000
		SYSTEMS	RENEWAL	
0170B	2023	BUILDING	FIRE ALARM SYSTEM - DEVICES RENEWAL	\$20,000
		SYSTEMS		
0170B	2025	BUILDING	FLOORING - FLUID APPLIED, EPOXY /	\$150,000
		INTERIOR	ACRYLIC / POLYURETHANE RENEWAL	
0170B	2025	BUILDING	BACKFLOW PREVENTER (<=1 INCH)	\$65,000
		SYSTEMS	RENEWAL	
0170B	2025	BUILDING	BACKFLOW PREVENTER (3-4 INCHES)	\$35,000
		SYSTEMS	RENEWAL	
0170B	2025	BUILDING	COM EXTERIOR BLDG MT DECO	\$80,000
		SYSTEMS	LIGHTING (COACH, SCONCE, PEND,	
0170B	2025	BUILDING	HVAC CONTROLS - TERMINAL	\$20,000
		SYSTEMS	ASSEMBLIES - MEDICAL CLINIC RENEWAL	
0170B	2025	BUILDING	LIGHTING SYSTEM, INTERIOR - MEDICAL	\$25,000
		SYSTEMS	CLINIC RENEWAL	
0170B	DEFERRED	BUILDING	DOOR PANIC HARDWARE, EXTERIOR	\$45,000
	RENEWAL	ENVELOPE	RENEWAL	
	0170B 0170B 0170B 0170B 0170B 0170B	0170B 2025  0170B 2025  0170B 2025  0170B 2025  0170B 2025  0170B 2025	O170B 2022 BUILDING SYSTEMS  O170B 2022 BUILDING SYSTEMS  O170B 2023 BUILDING SYSTEMS  O170B 2025 BUILDING SYSTEMS	SYSTEMS SUSPENDED (41-100 MBH) RENEWAL  0170B 2022 BUILDING INTERIOR STANDARD RENEWAL  0170B 2022 BUILDING VARIABLE FREQUENCY DRIVE (21-25 HP) RENEWAL  0170B 2023 BUILDING SYSTEMS FIRE ALARM SYSTEM - DEVICES RENEWAL  0170B 2025 BUILDING FLOORING - FLUID APPLIED, EPOXY / ACRYLIC / POLYURETHANE RENEWAL  0170B 2025 BUILDING BACKFLOW PREVENTER (<=1 INCH) RENEWAL  0170B 2025 BUILDING BACKFLOW PREVENTER (3-4 INCHES) RENEWAL  0170B 2025 BUILDING SYSTEMS COM EXTERIOR BLDG MT DECO LIGHTING (COACH, SCONCE, PEND, SOFFIT) RENEWAL  0170B 2025 BUILDING SYSTEMS ASSEMBLIES - MEDICAL CLINIC RENEWAL  0170B 2025 BUILDING LIGHTING SYSTEM, INTERIOR - MEDICAL CLINIC RENEWAL  0170B 2025 BUILDING SYSTEMS LIGHTING SYSTEM, INTERIOR - MEDICAL CLINIC RENEWAL  0170B DEFERRED BUILDING DOOR PANIC HARDWARE, EXTERIOR

Building Name	Bldg	Work Plan	Туре	Description (Title)	Total
		Year			Estimate
VETERINARY MEDICAL	0170B	DEFERRED	BUILDING	CONDENSER - REFRIGERANT, AIR-	\$290,000
CENTER-PEGASUS		RENEWAL	SYSTEMS	COOLED (<=10 TON) RENEWAL	
VETERINARY MEDICAL	0170B	DEFERRED	BUILDING	EVAPORATOR UNIT, NO HEAT (<=1.5	\$1,290,000
CENTER-PEGASUS		RENEWAL	SYSTEMS	TON) RENEWAL	
VETERINARY MEDICAL	0170B	DEFERRED	BUILDING	HVAC CONTROLS - FIELD PANELS/OPS	\$8,160,000
CENTER-PEGASUS		RENEWAL	SYSTEMS	SOFTWARE - MEDICAL CLINIC RENEWAL	
VETERINARY MEDICAL	0170B	DEFERRED	BUILDING	HVAC CONTROLS - MAJOR	\$25,000
CENTER-PEGASUS		RENEWAL	SYSTEMS	INSTRUMENTATION - MEDICAL CLINIC	
				RENEWAL	
					\$13,110,000

WATER RESERVOIR	0096	DEFERRED	BUILDING	REPLACE WATER RESERVOIR ATS	\$20,000
		RENEWAL	SYSTEMS		
					\$20,000
WELL HOUSE 15	0550	DEFERRED	BUILDING	DOORS - EXTERIOR	\$21,000
		RENEWAL	ENVELOPE		
L.		*	*		624 000

\$21,000

WELLS HALL	0078	2021	BUILDING	REPLACE ABSORBERS	\$25,000,000
			SYSTEMS		
WELLS HALL	0078	2024	BUILDING	REPLACE 590 TON CHILLER #1 (IN MR B-	\$2,167,000
			SYSTEMS	1) AND ASSOCIATED COOLING TOWER	
WELLS HALL	0078	2024	BUILDING	REPLACE 590 TON CHILLER #2 (IN MR B-	\$2,167,000
			SYSTEMS	1) AND ASSOCIATED COOLING TOWER	
WELLS HALL	0078	DEFERRED	BUILDING	REST ROOM PARTITIONS - REPLACE REST	\$21,000
		RENEWAL	INTERIOR	ROOM PARTITIONS IN B 110, 111.	
WELLS HALL	0078	DEFERRED	BUILDING	REPLACE 6 EXTERIOR DOORS AND	\$40,000
		RENEWAL	ENVELOPE	HARDWARE AT A & D WINGS	
WELLS HALL	0078	DEFERRED	BUILDING	REMOVE ALL ASBESTOS	\$1,633,000
		RENEWAL	SYSTEMS		
WELLS HALL	0078	DEFERRED	BUILDING	PLUMBING FIXTURES	\$107,000
		RENEWAL	SYSTEMS		

\$31,135,000

WHARTON	0085	2024	BUILDING	REPLACE CONTROL AIR COMPRESSOR	\$34,000
			SYSTEMS	(SAYLOR BEALL 707 5HP, 200 GALLON	
WHARTON	0085	DEFERRED	BUILDING	REPLACE WHARTON ATS	\$20,000
		RENEWAL	SYSTEMS		
WHARTON	0085	DEFERRED	BUILDING	REPLACE CEILING TILE IN OFFICES,	\$140,000
		RENEWAL	INTERIOR	PUBLIC AREAS, BATHS AND HALLWAYS,	

Building Name	Bldg	Work Plan Year	Туре	Description (Title)	Total Estimate
WHARTON	0085	DEFERRED RENEWAL	BUILDING SYSTEMS	REPLACE ELEVATOR 1	\$306,000
WHARTON	0085	DEFERRED RENEWAL	BUILDING SYSTEMS	REPLACE ELEVATOR 2	\$306,000
WHARTON	0085	DEFERRED RENEWAL	BUILDING SYSTEMS	REPLACE ELEVATOR 3	\$441,000
WHARTON	0085	DEFERRED RENEWAL	BUILDING INTERIOR	INTERIOR PAINTING - THROUGHOUT THE ENTIRE BUILDING.	\$184,000
WHARTON	0085	DEFERRED RENEWAL	BUILDING ENVELOPE	EXTERIOR MASONRY RESTORATION AND EXTERIOR WATERPROOFING	\$207,000
WHARTON	0085	DEFERRED RENEWAL	BUILDING ENVELOPE	REPLACE EXTERIOR DOORS, FRAMES, HARDWARE (DOOR ID #988)	\$127,000
WHARTON	0085	DEFERRED RENEWAL	BUILDING SYSTEMS	REPLACE 3 DISTRIBUTION PANELS	\$126,000
WHARTON	0085	DEFERRED RENEWAL	BUILDING SYSTEMS	REPLACE FUSIBLE SWITCH TO BREAKERS OR NEW SWITCHES	\$82,000
WHARTON	0085	DEFERRED RENEWAL	BUILDING SYSTEMS	REPLACE URINAL FLUSH VALVES, TOILET FLUSH VALVES AND TOILET SEATS	\$32,000

\$2,005,000

WILLS HOUSE	8000	DEFERRED	BUILDING	REPLACE (3) ENTRANCES, DOORS,	\$27,000
		RENEWAL	ENVELOPE	FRAMES, AND HARDWARE	
WILLS HOUSE	8000	DEFERRED	BUILDING	REPLACE ALL WINDOWS AND EXTERIOR	\$417,000
		RENEWAL	ENVELOPE	DOORS	
WILLS HOUSE	8000	DEFERRED	BUILDING	EXTERIOR MASONRY AND CAULKING	\$29,000
		RENEWAL	ENVELOPE	RESTORATION	
WILLS HOUSE	8000	DEFERRED	BUILDING	LIGHTING FIXTURES	\$52,000
		RENEWAL	SYSTEMS		
WILLS HOUSE	8000	DEFERRED	BUILDING	REPLACE CAST IRON RADIATORS WITH	\$42,000
		RENEWAL	SYSTEMS	CONVECTORS AND SELF CONTAINED	
WILLS HOUSE	0008	DEFERRED	BUILDING	REPLACE ROOFS 1 AND 2	\$45,000
		RENEWAL	ENVELOPE		

\$612,000

All Buildings: \$572,642,400

# Appendix F: Utility System Distribution

# Fiscal Year 2022 Budget Information

5-Year Capital Plan

Submitted By:

MICHIGAN STATE UNIVERSITY

#### **MSU Capital Renewal Utilities FY21-25 (Including Deferred)**

Building Name Bldg V		Work Plan	Description (Title)	<b>Total Estimate</b>
		Year		
TB SIMON POWER PLANT	0065	2021	POWER & WATER - INSTALL INFRARED INSPECTION	\$50,000
			WINDOWS ON TRANSFORMERS	
TB SIMON POWER PLANT	0065	2021	POWER & WATER - TURBINE OVERHAUL	\$600,000
OFFICE COMPLEX - MAIN	1027	2021	REPLACE OFFICE COMPLEX PARKING LOT LIGHTING	\$250,000
BUILDING				
ROADS	2070	2021	ROADS/UTILITIES - SERVICE RD AND SERVICE/BOGUE	\$3,000,000
			INTERSECTION RECONSTRUCTION (FUNDING PHASE 2 OF 2)	
WATER DISTRIBUTION	9571	2021	LEADED HYDRANT REPLACEMENT PHASE 1 OF 3	\$107,000
WATER DISTRIBUTION	9571	2021	REPLACE DETERIORATING CAST IRON SERVICE LEAD TO OLIN	\$325,000
			HEALTH CENTER	
SEWER DISTRIBUTION	9572	2021	STORM SEWER - RIVER OUTFALL STRUCTURAL REPAIRS -	\$200,000
			PHASE 1	
COMMUNICATION	9576	2021	COMMUNICATION DUCTLINE - NEW DUCTLINE TO HUBBARD,	\$1,931,000
DISTRIBUTION			FEE AND CONRAD HALL AREA	

\$6,463,000

TB SIMON POWER PLANT	0065	2022	POWER & WATER - AUTOMATE U4 BAGHOUSE INLET	\$150,000
			POPPETS	
TB SIMON POWER PLANT	_	2022	POWER & WATER - CHIMNEY REPAIRS	\$500,000
TB SIMON POWER PLANT	0065	2022	POWER & WATER - COMMISSION U6 HRSG FEEDWATER	\$150,000
			PREHEATER SECTION	
TB SIMON POWER PLANT	0065	2022	POWER & WATER - DISTRIBUTION SYSTEM METER REPAIRS	\$150,000
TB SIMON POWER PLANT	0065	2022	POWER & WATER - INSTALL NEW WELL/WELL HOUSE	\$650,000
TB SIMON POWER PLANT	0065	2022	POWER & WATER - MISCELLANEOUS SAFETY PLATFORMS	\$75,000
TB SIMON POWER PLANT	0065	2022	POWER & WATER - PLANT MODS TO RETIRE U1&2	\$350,000
TB SIMON POWER PLANT	0065	2022	POWER & WATER - PLANT STABILIZATION AND LOAD	\$750,000
			SHEDDING	
TB SIMON POWER PLANT	0065	2022	POWER & WATER - REPLACE MAIN STEAM CROSS CONNECT	\$350,000
			VALVES PHASE 1 OF 2	
TB SIMON POWER PLANT	0065	2022	POWER & WATER - REPLACE/EXPAND SECURITY CAMERA	\$400,000
			SYSTEM	
TB SIMON POWER PLANT	0065	2022	POWER & WATER - RETIRE/REPLACE U1/2/3 COOLING TOWER	\$350,000
TB SIMON POWER PLANT	0065	2022	POWER & WATER - TURBINE OVERHAUL	\$600,000
TB SIMON POWER PLANT	0065	2022	POWER & WATER - U4 BOILER IMPROVEMENTS	\$50,000
TB SIMON POWER PLANT	0065	2022	POWER & WATER - WELL SYSTEM REPAIRS	\$250,000
STEAM DISTRIBUTION	9570	2022	STEAM DISTRIBUTION - MISC MAJOR REPAIRS AND	\$2,613,000
			RESTORATION	
WATER DISTRIBUTION	9571	2022	LEADED HYDRANT REPLACEMENT PHASE 2 OF 3	\$107,000
WATER DISTRIBUTION	9571	2022	WATER DISTRIBUTION - REPLACE DETERIORATING CAST IRON	\$3,267,000
			DISTRIBUTION MAINS	
SEWER DISTRIBUTION	9572	2022	REPAIR FAILING SANITARY MAINS PHASE 4 OF 5	\$650,000
ELECTRICAL DISTRIBUTION	9573	2022	ELECTRICAL DISTRIBUTION - CABLE/MISC REPLACEMENT AND	\$2,613,000
			REPAIRS	
STREET LIGHT	9574	2022	STREET LIGHT DISTRIBUTION - CABLE REPLACEMENT - PHASE	\$383,000
DISTRIBUTION			5 OF 10	

\$14,408,000

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TB SIMON POWER PLANT	0065	2023	DISTRIBUTION SYSTEM METER REPAIRS	\$150,000
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#### **MSU Capital Renewal Utilities FY21-25 (Including Deferred)**

Building Name	Bldg	Work Plan	Description (Title)	<b>Total Estimate</b>
		Year		
TB SIMON POWER PLANT	0065	2023	POWER & WATER - CONVERT TO MOTOR OPERATED VALVES	\$200,000
			FOR FEEDWATER PUMPS	
TB SIMON POWER PLANT	0065	2023	POWER & WATER - INSTALL VACUUM PUMPS FOR U3/U4	\$100,000
			TURBINE	
TB SIMON POWER PLANT	0065	2023	POWER & WATER - MISCELLANEOUS SAFETY PLATFORMS	\$75,000
			(ANNUAL)	
TB SIMON POWER PLANT	0065	2023	POWER & WATER - REMOVE MILLS ON NO. 3	\$150,000
TB SIMON POWER PLANT	0065	2023	POWER & WATER - REPLACE MAIN STEAM CROSS CONNECT	\$350,000
			VALVES PHASE 2 OF 2	
TB SIMON POWER PLANT	0065	2023	POWER & WATER - REPLACE U3 STG STEAM PATH	\$2,000,000
TB SIMON POWER PLANT	0065	2023	POWER & WATER - TURBINE OVERHAUL	\$600,000
TB SIMON POWER PLANT	0065	2023	POWER & WATER - U4 BAGHOUSE REFURBISHMENT	\$250,000
TB SIMON POWER PLANT	0065	2023	REPLACE FOUR PLANT REACTORS WITH 2000 AMP UNITS	\$1,100,000
STEAM DISTRIBUTION	9570	2023	STEAM DISTRIBUTION - MISC. MAJOR REPAIRS	\$2,613,000
STEAM DISTRIBUTION	9570	2023	STEAM DISTRIBUTION INSTALL SECOND 18" CR LINE FROM	\$2,246,000
			PWR PLT TO VLT 206	
WATER DISTRIBUTION	9571	2023	DOMESTIC WATER - REPLACE DETERIORATING CAST IRON (CI)	\$3,267,000
			DISTRIBUTION MAINS AND MISC REPAIRS	
WATER DISTRIBUTION	9571	2023	LEADED HYDRANT REPLACEMENT PHASE 3 OF 3	\$107,000
SEWER DISTRIBUTION	9572	2023	REPAIR FAILING SANITARY MAINS PHASE 5 OF 5	\$650,000
ELECTRICAL DISTRIBUTION	9573	2023	ELECTRICAL DISTRIBUTION - CABLE/MISC REPLACEMENT AND	\$2,613,000
			REPAIRS	
STREET LIGHT	9574	2023	STREET LIGHT DISTRIBUTION - CABLE REPLACEMENT - PHASE	\$383,000
DISTRIBUTION			6 OF 10	

\$16,854,000

TB SIMON POWER PLANT	0065	2024	DISTRIBUTION SYSTEM METER REPAIRS	\$150,000
TB SIMON POWER PLANT	0065	2024	POWER & WATER - 7TH FLOOR STAIRWELL EMERGENCY EGRESS LIGHTING	\$100,000
TB SIMON POWER PLANT	0065	2024	POWER & WATER - ADD ATTEMPERATION CAPABILITY PER	\$500,000
TB SIMON POWER PLANT	0065	2024	POWER & WATER - AUTOMATE VALVES	\$350,000
TB SIMON POWER PLANT	0065	2024	POWER & WATER - MISCELLANEOUS SAFETY PLATFORMS (ANNUAL)	\$75,000
TB SIMON POWER PLANT	0065	2024	POWER & WATER - REPLACE CAUSTIC DAY TANK	\$50,000
TB SIMON POWER PLANT	0065	2024	POWER & WATER - TURBINE OVERHAUL	\$600,000
STEAM DISTRIBUTION	9570	2024	STEAM DISTRIBUTION - MISC. MAJOR REPAIRS	\$2,613,000
WATER DISTRIBUTION	9571	2024	DOMESTIC WATER - MISC. REPAIRS AND REPLACE DETERIORATING CAST IRON (CI) DISTRIBUTION MAINS	\$3,267,000
ELECTRICAL DISTRIBUTION	9573	2024	ELECTRICAL DISTRIBUTION - CABLE/MISC REPLACEMENT AND REPAIRS	\$2,613,000
STREET LIGHT	9574	2024	STREET LIGHT DISTRIBUTION - CABLE REPLACEMENT - PHASE	\$383,000
DISTRIBUTION			7 OF 10	

\$10,701,000

TB SIMON POWER PLANT	0065	2025	DISTRIBUTION SYSTEM METER REPAIRS	\$150,000
TB SIMON POWER PLANT	0065	2025	POWER & WATER - AUTOMATE BLOWDOWN OF U6	\$350,000
TB SIMON POWER PLANT	0065	2025	POWER & WATER - AUTOMATE U6 ATTEMPERATOR BACK-UP	\$150,000
			SUPPLY VALVE	

#### **MSU Capital Renewal Utilities FY21-25 (Including Deferred)**

Building Name	Bldg	<b>Work Plan</b>	Description (Title)	<b>Total Estimate</b>
		Year		
TB SIMON POWER PLANT	0065	2025	POWER & WATER - BLOWDOWN ON FIRST FLOOR/FOR U4	\$250,000
			BOILER	
TB SIMON POWER PLANT	0065	2025	POWER & WATER - BUILT PLATFORM FOR U5 TURBINE	\$50,000
			EXTRACTIONS TEAM COMMON ISO VALVE	
TB SIMON POWER PLANT	0065	2025	POWER & WATER - D/A WATER SHUTOFF TO PREVENT WATER	\$500,000
			HAMMER	
TB SIMON POWER PLANT	0065	2025	POWER & WATER - INSTALL NEW WELL/WELL HOUSE	\$650,000
TB SIMON POWER PLANT	0065	2025	POWER & WATER - INSTALL PLATFORM AND LIGHTING	\$100,000
			UNDERNEATH ATTEMPERATOR	
TB SIMON POWER PLANT	0065	2025	POWER & WATER - MISCELLANEOUS SAFETY PLATFORMS	\$75,000
			(ANNUAL)	
TB SIMON POWER PLANT	0065	2025	POWER & WATER - POWERHOUSE FOUNDATION SUBSIDENCE	\$250,000
TB SIMON POWER PLANT	0065	2025	POWER & WATER - RELOCATE CONTROLLERS FOR ASH PIT	\$100,000
			SUMP AND U5 BLOWDOWN RECEIVER PUMPS	
TB SIMON POWER PLANT	0065	2025	POWER & WATER - STRAINER FOR EAST TOWER	\$50,000
TB SIMON POWER PLANT	0065	2025	POWER & WATER - TURBINE OVERHAUL	\$600,000
STEAM DISTRIBUTION	9570	2025	STEAM DISTRIBUTION - MISC. MAJOR REPAIRS	\$1,719,000
STEAM DISTRIBUTION	9570	2025	STEAM DISTRIBUTION - MISC. MAJOR REPAIRS	\$2,613,000
WATER DISTRIBUTION	9571	2025	DOMESTIC WATER - REPLACE DETERIORATING CAST IRON (CI)	\$3,267,000
			DISTRIBUTION MAINS	
WATER DISTRIBUTION	9571	2025	WATER DISTRIBUTION - REPLACE DETERIORATED CAST IRON	\$1,960,000
			DISTRIBUTION MAINS	
WATER DISTRIBUTION	9571	2025	WATER DISTRIBUTION - REPLACE DETERIORATING CAST IRON	\$2,613,000
			DISTRIBUTION MAINS	
ELECTRICAL DISTRIBUTION	9573	2025	ELECTRICAL DISTRIBUTION - CABLE/MISC REPLACEMENT AND	\$2,613,000
			REPAIRS	
ELECTRICAL DISTRIBUTION	9573	2025	ELECTRICAL DISTRIBUTION - CABLE/MISC REPLACEMENT AND	\$2,613,000
			REPAIRS	4
STREET LIGHT	9574	2025	STREET LIGHT DISTRIBUTION - CABLE REPLACEMENT - PHASE	\$383,000
DISTRIBUTION			8 OF 10	

\$21,056,000

WATER DISTRIBUTION	9571	DEFERRED	WATER DISTRIBUTION - REPLACE DETERIORATING CAST IRON	\$1,960,000
		RENEWAL	DISTRIBUTION MAINS	
ELECTRICAL DISTRIBUTION	9573	DEFERRED	REPLACE CONTACTORS, CONTROL SYSTEMS, WIRE AND LIGHT	\$170,000
		RENEWAL	FIXTURES IN STEAM TUNNELS AND VAULTS	

\$2,130,000

All Utilities: \$71,612,000