

BOARD OF REGENTS
EASTERN MICHIGAN UNIVERSITY

SECTION:

DATE:

October 20, 2006

RECOMMENDATION

FY 2008 CAPITAL OUTLAY REQUEST

ACTION REQUESTED

It is recommended that the Board of Regents approve the FY 2008 Capital Outlay Request. The modernization of Pray-Harrold has again been identified as the University's top capital project.

STAFF SUMMARY

Pray-Harrold, which serves more students than any other classroom building at the University, is in critical need of improvement. For the past 37 years, the building has been utilized extensively – serving approximately 10,000 students each instructional day. Modernizing Pray-Harrold will positively affect more students than any other capital need of the University. Investing in this project will extend the life of the building, reduce operational costs and provide a more effective learning environment. The University is prepared to act immediately upon funding authorization and to provide any required matching funds.

Enclosed is the FY 2008 Capital Outlay Request which includes the University's top capital project, the Pray-Harrold Renovation Project. The Capital Outlay Request also includes the University's five-year Asset Preservation Plan, as well as a summary of both the State-funded and self-funded major capital projects that the University seeks to complete during the next five years.

FISCAL IMPLICATIONS

The estimated State allowable costs to modernize Pray-Harrold are \$52,694,936. The University's cost share is \$13,173,734 or 25 percent. Additional non-allowable costs primarily for temporary space and relocation costs would increase the University's cost by \$2,303,393, for a total cost to the University of \$15,477,127. The University's total required share of the project will be provided through the sale of bonds supported by tuition and fee revenue generated by the four-percent tuition and fee increase that began in FY 2006 to address the campus' capital needs. The Pray-Harrold project is presently in the State's Capital Bill as recommended by Governor Granholm.

ADMINISTRATIVE RECOMMENDATION

The proposed Board action has been reviewed and is recommended for Board approval.

University Executive Officer _____

Date _____



EASTERN MICHIGAN UNIVERSITY

October 20, 2006

 **DRAFT**

Ms. Lisa Shoemaker, Capital Outlay Coordinator
Office of Education and Infrastructure
Office of the State Budget
George W. Romney Building
111 South Capitol
P.O. Box 30026
Lansing, MI 48909

Dear Ms. Shoemaker:

The Eastern Michigan University Board of Regents approved the enclosed FY 2008 Capital Outlay Request at a special meeting on October 20, 2006. The renovation of the Pray-Harrold classroom building (the largest classroom building on campus) remains the University's number one capital outlay priority. The University is extremely pleased that this project is in the Capital Bill, as recommended by Governor Granholm. In addition to benefiting the students and faculty at EMU, approval of the Pray-Harrold project will also provide a much-needed economic stimulus to the greater Ypsilanti community.

The University is grateful to the State for its intent to collaborate with us to address the deficiencies in the Pray-Harrold classroom building. However, as we review the University's science facilities we realize that at the present time we cannot provide the experiences and basic laboratory standards that are necessary for an outstanding student experience. Quite the contrary, our science students face unacceptable challenges ranging from water leaking from the ceilings to not having enough distilled water to conduct laboratory experiments. With this in mind, the University is committed to improving the student experience by addressing the deficiencies in both the quantity and quality of science facilities on Campus.

Phase I of the University's plan to address the needs of science students is to self-fund the \$100 million Mark Jefferson Science Complex Project. This project calls for a 161,600 square foot building addition and a complete renovation of the existing building. This project will address the inadequate and outdated laboratory space, as well as the need for additional classroom and faculty office space. A program statement for this project has been completed and funding for this project will be provided by the issuance of debt, which will be repaid primarily with funds generated by the four-percent tuition and fee increase that was approved for this purpose by the University's Board of Regents effective with Fall term 2005.

Ms. Lisa Shoemaker, Capital Outlay Coordinator
FY 2008 Capital Outlay Request
October 20, 2006

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Phase II of the University's plan to address the needs of science students is to undertake the renovation of the Strong Science Building. While the University can accommodate the campus disruption and project management responsibility of only the Pray-Harrold and Mark Jefferson projects during the next two to four years, we recognize the need to be prepared with a program statement so that the scope of the Strong project is clearly understood and so that the University is able to effectively plan for its future completion. To that end, development of the Strong Science Building program statement is underway and we see this as the next number-one capital priority after the completion of the Pray-Harrold project. We look forward to the State being able to participate in the funding of the Strong project and for its inclusion in a future capital bill.

As one of the oldest University campuses in the State, one with facilities that are in dire need of renovation and modernization, it is exciting to see a plan come together to address these needs and to provide the students of the great state of Michigan with the classrooms and science facilities to which they are entitled. We continue to appreciate the State's consideration in assisting us with this plan.

Should you have any questions, please feel free to contact me at (734) 487-2031.

Sincerely,

Steve Holda
Interim Director of Finance

SH:sle

Enclosure

cc: John A. Fallon III, President
Freman Hendrix, Chief Government Relations Officer

EASTERN MICHIGAN UNIVERSITY

NOVEMBER 2006

Capital Outlay Request
Fiscal Year 2008



**EASTERN MICHIGAN UNIVERSITY
CAPITAL OUTLAY REQUEST FY 2008**

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EXECUTIVE SUMMARY

An increased state investment in Eastern Michigan University is an investment in Michigan's future. EMU is positioned to respond to metropolitan area growth, a changing population of diverse learners and the demands of schools, businesses and public agencies. We have a measurable impact on the citizens of Michigan. To accomplish this the University provides an exceptional learning environment that can accommodate the diverse and specialized delivery of instruction that meets the expectations of our publics – students and their parents, business and industry and the state. An exceptional learning environment requires facilities that can accommodate the technologies that are now woven through every discipline. Buildings constructed before the technology revolution/evolution cannot satisfy these demands.

Eastern Michigan University has 33 buildings that are at least 20 years old, with an average building age (weighted by square feet) of 36 years. While many old buildings have a unique charm, they lack the infrastructure needed to facilitate modern information and communication technologies, as well as the mechanical and electrical systems required to support a technology-friendly environment. It is recognized that most building systems have finite useful lives of approximately 30 years. Note that the University's top capital project, the modernization of Pray-Harrold, exceeds this age. As such, the University has identified the modernization of the 237,108 square ft. Pray-Harrold classroom facility as its top capital outlay project.

Pray-Harrold opened in 1969 as the state of Michigan's single largest classroom building. For the past 36 years the building has been utilized at capacity servicing approximately 10,000 students each instructional day. Modernizing this building will positively affect more learners than any other capital need of the University.

Some improvements to this building were completed with the restoration performed after the March 2000 fire. Costs to restore Pray-Harrold to its pre-fire condition exceeded \$10.5 million.

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Much of the cost specifically addressed cleanup from the smoke and water damage, some improvements to HVAC systems (the fire started in the penthouse mechanical room), abatement of asbestos, new lighting and partial new roofing. Although cleaner and safer, the building still functions as a 1969 building. The program statement for renewal of this essential classroom building into a 21st century, technologically-central learning facility has been completed and submitted to the Department of Management and Budget. The University hopes that this building project will be considered in the near future, and is prepared to mobilize immediately upon funding authorization.

In addition to the need to modernize Pray-Harrold, the University also has a critical need to improve its science facilities. Many of the building deficiencies reported in Pray-Harrold (i.e. age, mechanical and electrical system conditions and capabilities, and lack of specialized spaces and technology) also pertain to the University's science space. The University has recently completed a study with DSA Architects to evaluate the University's science facility needs. Initial recommendations include construction of an additional 161,600 square foot building on the west side of the Mark Jefferson Science Building (the present home of these departments) to address the needs of the biology, chemistry and psychology departments. The recommended new addition would provide new multidisciplinary research and teaching laboratories to accommodate the needs of the departments, and allow the University to expand its curriculum – particularly in the areas of biochemistry and microbiology – to meet the needs of today's science student. Upon completion of the new addition, the University would then proceed to renovate the existing Mark Jefferson building to address the outdated mechanical, lighting, and electrical systems; as well as to make structural improvements to the building's roof and exterior systems.

In addition to addressing the needs of the biology, chemistry and psychology departments, the University is also looking into the needs of the geography/geology and physics/astronomy departments. These departments are presently housed in Strong Hall (c.1957), which is directly

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north of the Mark Jefferson Science Building. It is anticipated that Strong will also require a complete renovation due to its age and heavy use.

Eastern Michigan University views its physical capital as a financial asset, and believes that investing in the Pray-Harrold modernization project is an exceptionally wise use of state funds. Such an investment will extend the life of the buildings, reduce operation costs and offer a more effective learning environment. The University is prepared to provide any required matching funds.

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Mission Statement

- Mission
- Values
- Guiding Principles



EASTERN MICHIGAN UNIVERSITY

MISSION

Eastern Michigan University is committed to excellence in teaching, the extension of knowledge through basic and applied research, and creative and artistic expression. Building on a proud tradition of national leadership in the preparation of teachers, we maximize educational opportunities and personal and professional growth for students from diverse backgrounds through an array of baccalaureate, master's and doctoral programs. We provide a student-focused learning environment that positively affects the lives of students and the community. We extend our commitment beyond the campus boundaries to the wider community through service initiatives and partnerships of mutual interest addressing local, regional, national and international opportunities and challenges.

EASTERN MICHIGAN UNIVERSITY

VALUES

Eastern Michigan University's mission and philosophy are built upon shared values that define and nourish the intellectual, ethical, and aesthetic environment. These values are:

TEACHING AND LEARNING

We believe that teaching and learning are central to everything that we do. We recognize that we are a community of learners who discover, interpret, apply, and transmit knowledge.

EXCELLENCE

We believe that the promotion of personal and academic excellence provides a foundation for institutional quality. We are committed to achieving the highest standards through ongoing assessment and continuous quality improvement.

HUMAN DIGNITY AND RESPECT

We believe that wisdom, sound judgment, acceptance, and respect for other persons, cultures, and ideas are characteristics of an educated person. We seek to demonstrate, through all programs, activities, and services, an appreciation of human diversity and an atmosphere of mutual respect and support for individual differences.

DIVERSITY

We believe that cultural diversity enriches learning experiences and promotes respect and understanding. We welcome qualified learners of varying interests, abilities, backgrounds, and expectations and are committed to creating an inclusive educational environment that provides exceptional opportunities for all learners. We seek to attract, serve, and retain a highly qualified and diverse student body, faculty, and staff, and to make special effort to provide access to educational opportunities for non-traditional and under-represented populations.

SCHOLARSHIP AND INTELLECTUAL FREEDOM

We believe that intellectual and creative freedom supports scholarship and advances the learning process. We promote, encourage, and support personal and academic freedom. We seek to provide an environment that fosters knowledge development and creative learning experiences through intellectual and cultural exchange.

PUBLIC ENGAGEMENT

We believe that the University should engage the public in mutually beneficial relationships to achieve the public good. We aspire to develop regional, national, and international partnerships that allow us to serve our stakeholders more effectively, while providing increased learning opportunities for our students, faculty, and staff.

LEADERSHIP AND PARTICIPATORY DECISION-MAKING

We believe that effective organizations are characterized by visionary leadership and participatory decision-making at all levels. We are committed to creating and supporting an environment that fosters open communication and innovative approaches to change.

INTEGRITY

We believe that integrity is critical to our continued success and institutional effectiveness. We expect and support the highest level of personal, intellectual, academic, financial, and operational integrity within the University community.

EASTERN MICHIGAN UNIVERSITY

GUIDING PRINCIPLES

The following guiding principles provide standards the University seeks to achieve:

- | | |
|---------------------------------|--|
| ACCESSIBILITY | An inclusive community of learners that provides educational opportunities to any qualified individual who wishes to participate. |
| RELEVANCY | Programs designed to broaden perspectives, heighten awareness, deepen understanding, establish disciplined habits of thought, respond to changes in the work-place and society, and help develop individuals who are informed, responsible citizens. |
| RESPONSIVENESS TO CHANGE | A learning community that is responsive to economic, social, and political change. As an agent of change, the University explores new alternatives, recognizes constraints, and makes wise institutional choices. |
| FLEXIBILITY | While recognizing that various constituencies have different needs, University programs, activities and services are flexible so that people have the opportunity to participate and to achieve their goals and purposes. |
| QUALITY | All programs, activities, and services achieve the highest standards of quality. |
| COLLABORATION | All University programs, activities, and services work collaboratively to solve problems, provide greater efficiencies, and expand learning opportunities. Collaboration extends beyond the University to colleagues, communities, and institutions. |
| ACCOUNTABILITY | The University has consistent policies and procedures to ensure accountability at all levels. All members of the University community are accountable for their actions and decisions. |
| AFFORDABILITY | Qualified individuals who desire to participate are not discouraged from doing so because of financial resources. |

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Instructional Programming

- Executive Summary
 - The Colleges
 - Library
- Information and Communications Technology
- Continuing Education



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INSTRUCTIONAL PROGRAMMING**

EXECUTIVE SUMMARY

The University was founded by the State of Michigan in 1849. Then called Michigan State Normal School, its primary purpose was to educate teachers. In 1956, Michigan State Normal College became Eastern Michigan College, and in June 1959, then comprising three colleges and a graduate school, it became Eastern Michigan University.

Eastern Michigan University has evolved from a teachers' college into a comprehensive undergraduate and graduate institution. The University focuses on preparing students to succeed beyond graduation by emphasizing a personal approach to education in which the student is the center of the learning experience.

The University has developed programmatically over the course of its existence and now offers a broad spectrum of academic preparation at the undergraduate, graduate and doctoral levels. The University offers a total of 154 undergraduate majors and curricula leading to baccalaureates and a total of 122 graduate concentrations leading to the masters', specialist's, and doctoral degrees.

The University is fully accredited by the North Central Association (NCA) of Colleges and Schools. In 2001 the University received an unqualified accreditation for a period of ten years with a program update report on the new Ph.D. in Clinical Psychology to be submitted in five years. The University is also accredited by the National Council for Accreditation of Teacher Education (NCATE) for the preparation of educational personnel including elementary teachers, secondary teachers, and school service personnel; by the American Assembly of Collegiate Schools of Business (AACSB); and by the National Association of Schools of Music. Other specific programs of the University are accredited by the American Dietetic Association; the Council on the Education of the Deaf; the American Speech-Language-Hearing Association; and the American Psychological Association. The Department of Chemistry is accredited by the American Chemical Society and the occupational therapy program by the American Occupational Therapy Association. The National Accrediting Agency for Clinical Laboratory Sciences accredits the clinical laboratory sciences program. The social work program is accredited by the Council on Social Work Education. The nursing program is accredited by the National League for Nursing, the American Association of Colleges of Nursing, and the Commission on Collegiate Nursing Education. These additional accreditations are held by Eastern Michigan University: American Bar Association, American Council for Construction Education, Council for the Accreditation of Counseling and Related Educational Programs, Foundation for Interior Design Education Research, Joint Review Committee on Educational Programs in Athletic Training, National Association of Industrial Technology, National Association of Schools of Public Affairs and Administration, National Recreation and Parks Association, and Planning Accreditation Board. The institution also retains membership in these organizations: American Music Therapy Association, American Association of Colleges for Teacher Education, Association of Baccalaureate Social Work Program Directors, Council on Hotel, Restaurant, and Institutional Education, International Facility Management Association, Michigan Coalition of Schools/Departments Offering the MSW, Michigan Historic Preservation Network, National Association of Deans and Directors of Schools of Social Work, National

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Council for Preservation Education, National Trust for Historic Preservation, and Pioneer America Society.

Eastern Michigan University comprises five (5) academic colleges: the College of Arts and Sciences (CAS), the College of Business (COB), the College of Education (COE), the College of Health and Human Services (CHHS), and the College of Technology (COT). It is further supported by the Bruce T. Halle Library (LIB), Information and Communications Technology Division (ICT) and Continuing Education (CE).

College of Arts and Sciences

The College of Arts and Sciences (CAS) was established in 1959-1960 during the academic year EMU became a university. At its inception, CAS included 10 departments – Art, Chemistry, English & Speech, Foreign Languages & Literature, Geography, History & Social Sciences, Mathematics, Music, Natural Sciences, and Physics & Astronomy – and 122 full-time faculty. The college currently is the largest in the university, with 17 departments and the Women's and Gender Studies and the Bioinformatics Program, employing 389 tenure track faculty in fall 2006. Graduate work in the college expanded rapidly from two degrees in 1960 (History and Literature) to degrees in all departments by 1969. Beginning in Fall 2001, the College offered a Ph.D. in clinical psychology, the first Ph.D. at EMU.

For a perspective of the size and complexity, the College of Arts & Sciences:

- Generates more than half of EMU's student credit hours.
- Employs slightly more than half of the University's faculty.
- Uses all or part of 12 buildings.
- Offers nearly all of the general education courses, which provide the foundation for specialized work in major programs.
- Supports 6,000 sections annually for more than 1,800 courses.
- Maintains over 100 undergraduate and 70 graduate programs.
- Includes nearly 6,000 undergraduate and 1,000 graduate majors each year.
- Awards more than 1,200 undergraduate and 300 graduate degrees annually.
- Exhibits student research and creativity in its annual Undergraduate Symposium.
- Doubled research funding from external sources in the last 10 years.
- Houses the Institute for Geospatial Research and Education (IGRE); the Terrestrial and Aquatic Ecology Research Facility (TAERF); the National Science Foundation-funded (a) DNA sequencing laboratory, (b) an Organismal Physiology Research Laboratory, and the (c) Creative Science Inquiries Experience Program (CSIE).
- Hosts the Institute for Language, Information and Technology, which includes the unique, internationally renowned Linguist List website and data repository, which is used by linguists around the world, a half-dozen major national journals, and scholars applying knowledge to solve current global problems.
- Maintains long-standing and noteworthy relationships with regional, state, national and

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international institutions for the purpose of workforce development in Michigan.

- Every department in the college participates in the education of teachers through specific methods course offerings.
- The college is a successful fundraiser for the University with a record amount raised during 2004-05.

Facility modernization represents the College of Arts and Science's top priority because existing facilities limit CAS's ability to fulfill its full teaching and research mission. The college has had no new facilities in over two decades, with the exception of two fire restorations (Pray-Harrold Classroom Building and Sherzer Hall) and an external grant-funded Terrestrial and Aquatic Ecology Research facility.

The University's Board of Regents has identified the modernization of the office and classroom building, Pray-Harrold, as its top priority. The Pray-Harrold modernization and expansion project includes upgrades to the utility and technology infrastructures of the building as well as reconfiguring and adding needed classrooms and computer laboratories. Since up to 2,000 student are in the classrooms at any one time, improvements to the learning environment in Pray-Harrold are critical to the educational mission of the University. A preliminary program statement for the Pray-Harrold project was introduced to the Board of Regents in September 2005.

In addition to the Pray-Harrold classroom modernization, the College has a critical need in upgrading its science education and research facilities in the Mark Jefferson building. The University invested into a HVAC, lighting, internet upgrade of the building, and elevators this past summer – but did not improve its 37-year old laboratory environment. The Board of Regents has recognized the upgrade of the Mark Jefferson science facility as the second most critical need of the University. In comparison to its peer institutions, there exists significant deficiencies in the scientific instrumentation available to students and faculty. The college is in the process of raising funds, e.g. with matching grants from the Kresge Foundation, to be able to modernize its scientific equipment.

The facility needs of the art, music and dance and theater departments are as great as for Pray-Harrold and Mark Jefferson. The college hopes to be able to start preparing a program statement for an integrated and interdisciplinary performing arts facility during fiscal year 2007.

If state funding or bond resources for the new building programs are not available then deferred maintenance, capital renewal, and infrastructure upgrades in excess of \$10 million would be required for existing buildings housing College of Arts and Sciences departments, teaching and performance facilities.

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College of Business

The College of Business (COB) provides high-quality, accredited business education, with a number of interdisciplinary programs, at both the undergraduate and graduate levels to traditional and non-traditional students. The college also serves as a multi-purpose resource for regional, national and international business firms, providing professional and executive development as well as other forms of partnership leading to the economic development of the region. The college has over 300 associations, partnerships and/or affiliations with organizations in southeast Michigan. In addition to the traditional internships and co-operative education programs, the college assigns student groups to "service learning" projects benefiting many organizations, including the University of Michigan Hospitals, Ford Motor Corp., SOS Community Services, Masco Corp., Huron Valley Ambulance and many others. The COB has provided a corporate custom MBA program to Masco Corporation at Masco's training facility as part of EMU's "corporate partnership" initiative. In the summer of 2004, the COB announced the formation of its Professional Education Center, an organization that is charged with developing additional credit and non-credit programs customized to meet the needs of regional organizations. One of the major contracts held by the PEC currently is an executive training program for women for Inforum, formerly the Women's Economic Club of Detroit.

The region's economic development has been enhanced through centers of excellence within the College of Business. The recently implemented Center for Entrepreneurship is specifically intended to support the development of new enterprise in the region and provide services to developing businesses. The Strategic Human Resource Management Center has been providing human resource management education and certification to professionals throughout southeast Michigan for more than five years, receiving multiple awards and recognition from the national Society for Human Resource Management. To further its mission to enhance regional economic development the COB has also committed a suite of offices on the third floor of the Owen Building to establish the Office of Business Partnership Program. These offices house the regional headquarters of the Michigan Small Business & Technology Development center (SBTCD), the Southern Michigan U.S. Export Assistance Center, the Center for Entrepreneurship, the Biz Resource Center for small businesses and students and the Washtenaw County, Ypsilanti SmartZone Center. Other new strategic initiatives include programs in Supply Chain Management, International Business, and Integrated Marketing Communications.

The College of Business is currently housed in the Gary Owen Building, built in 1990, and situated on Michigan Avenue roughly a mile from EMU's Main campus. This building comprises the instructional facility for more than 3,500 students, both day and evening, who represent the ethnic and socio-economic diversity of the region as well as having a significant international component. More than 100 undergraduates (4%) and 100 graduate students (15%) from over 20 countries help to make the business programs and activities not only diverse, but truly international.

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The Owen Building facility provides size, location, and design /functionality challenges for delivery of the variety of programs required to prepare students for today's challenging business environment and to serve the College's corporate and small business clients. The building does not contain: multiple classrooms that can house large student events, such as executive speakers; case classrooms to support interactive pedagogy; breakout rooms to provide small work areas for student teams; appropriate student gathering spots given the distance from main campus and the student union; a large enough space for the SBTDC (Small Business technology Development Center) and Entrepreneurship Center; a satisfactory corporate environment for the Professional Education Center; adequate and appropriate space for the Career Services Office and interviewing areas; an appropriate and combined suite for both undergraduate and graduate advising offices; nor does it contain enough computer classrooms for teaching purposes. Additionally, we now have all classrooms filled in the evening time slots creating an upper limit on courses provided for evening part-time students. Faculty offices are full and we have more limited space for graduate assistants, and adjunct and lecturer instructional staff members.

The business schools at peer institutions have facilities that far exceed the Owen Building. While there is potential space for a third computer lab/classroom, the projected renovation cost is very high. While most classrooms are equipped with projectors and screens, along with a computer with internet access so that faculty may demonstrate concepts online, students are not able to engage in computer activities themselves (few of our students have laptops and the added expense of such a student requirement precludes the adoption of a mandatory laptop policy unless funds are found to defray this expense.)

The Owen Building's basic infrastructure has challenges as well. Its heating and cooling systems continue to result in classrooms and offices overheated in winter and uncomfortably cool in summer. Discussions with physical plant staff members have resulted in our understanding that expensive retrofitting of the HVAC system would need to be done to correct this problem. Perhaps as important as these specific facility deficiencies is the fact that for our evening students, there is no real campus connection. The building is downtown, a mile off campus, and while at one point a corridor from main campus was planned to connect the Owen Building with the rest of EMU, it appears that this strategy has been abandoned. The location affects our students as they are less able to take advantage, between classes, of campus facilities including the union and library.

Over the next five years, steps must be taken in two directions: 1) to begin the process of assuring relocation of the College of Business back to main campus at the time it becomes financially feasible and after other main campus structures have been renovated; and 2) to, in the immediate term, renovate and extend the building to connect it to the parking garage in order to create a facility that is competitive with peer business schools in design of classrooms, ease of access, quality of architecture and heating and cooling systems, technology, and space for current and future growth. With a growing Professional Education Center that provides courses and programs for companies housed in a very small area, the Michigan SBTDC, Southern Michigan U.S. Export Assistance Center and the Center for Entrepreneurship housed on the third floor with

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no obvious and direct access for their business clients, as well as limited space, an improved building would be more accessible to small business owners and our corporate partners. The immediate option of an approximate 81,000 sq. ft. addition could solve the problems noted above and be a good short and intermediate strategy. However, given the location and infrastructure issues, a move to a new building while selling the current building to a bank or another private college is the necessary longer term strategy.

College of Education

For more than 150 years, Eastern Michigan University's College of Education (COE) has played a major state and national role in the preparation of teachers, other school personnel and related professionals. EMU has a historic and valued place as the first "normal school" west of the Alleghenies. Eastern was among the first institutions involved with the preparation of physical educators and special education teachers. The College of Education is one of the nation's largest preparers of professional education personnel, offering programs at the bachelor's, master's, specialist's and doctoral degree levels. The college's programs have received a number of national recognitions, are fully accredited by the National Council for the Accreditation of Teacher Education (NCATE), and are approved by the Michigan Department of Education. In almost every instance where a program-specific national recognition exists, the EMU College of Education holds this recognition at the highest level. Through its Office of Collaborative Education, the college has created numerous partnerships with local school districts that are interested in enhancing a variety of school improvement activities. The newly created Office of Urban Education and Educational Equity has been instrumental in the recruiting, retention, and achievement of our minority students.

Graduates from the College of Education are highly prized and are aggressively recruited at the national level. Our alumni hold many distinctions, including the Pulitzer Prize, National Student Teacher of the Year and National Teacher of the Year, and serve as presidents or executives of major national professional organizations. In addition, 26 COE graduates have received the prestigious Milken Family Foundation Award for teaching excellence in the classroom. Finally, over 1,200 of our students become certified teachers each year.

In July 1999, the entire College of Education was relocated to the John W. Porter Building. This building was a \$13,816,000 renovation of the former campus library that was authorized in Public Act 19 (P.A. 19) of 1993. Most of the pressing technological requests for the College of Education were initially addressed in 1999. Since that time, college development resources have been used to refresh and address expanded technology needs. With further expansion of technology, the facility requirements for the EMU College of Education will be in place to continue to deliver our comprehensive and diversified academic programs for the next five years.

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College of Health & Human Services

The College of Health and Human Services (CHHS) prepares professionals with the knowledge and skills to enhance quality of life for Michigan residents and facilitate social change. The College of Health and Human Services is located in the Porter Building, the Warner Building, Roosevelt Hall, and the Marshall Building. Administrative space is provided in the Marshall Building for the dean's office and three of the four schools, as well as laboratories and classrooms for the whole college. Roosevelt and Warner provide classroom and laboratory space, and Porter houses the School of Health Promotion and Human Performance. Both Roosevelt and Warner are badly in need of renovation. Accordingly, the projects outlined below are for these buildings.

Projects needed over the next five years include:

1. Warner Gym 208B needs to have a one way mirror installed so students can observe physical education lessons with children in an unobtrusive manner. The room would be used extensively by physical education methods classes, activity classes, biomechanics classes, and motor development/motor learning classes.
2. The School of Health Promotion and Human Performance recently initiated a graduate program in Orthotics and Prosthetics in partnership with the University of Michigan; response from students and area practitioners has been immediate and enthusiastic. To accommodate hands-on portions of the program, dedicated laboratory space is needed. This space requires secure storage areas for supplies and equipment, internet access, and running water.
3. An exercise physiology laboratory, with space for stress/exertion testing, metabolic measurement, evaluation of blood and other samples, is needed. This facility would not only support teaching and student/faculty research but could also house a revenue-generating performance testing suite.
4. An athletic training suite is needed. This suite requires several examination/training tables, space for storage and use of rehabilitation equipment and treatment modalities, and space for students to practice various forms of movement-based interventions.
5. The HVAC system for Warner Hall needs to be refurbished, and the entire building needs repainting. These actions are actually normal maintenance and are long overdue. To my knowledge, the HVAC system has had minimal attention at best since the building's construction.
6. The Office of Nutrition Services (ONS) is housed in Roosevelt Hall, in a suite of offices that the program has outgrown. ONS provides dietetics students experience operating a nutritional evaluation and counseling program, and provides services to EMU faculty, staff, and students and to the broader community. ONS either needs to move to another location on campus (one possibility is space in Snow Health Center), or to have its current location expanded and renovated. Work and storage space are inadequate to meet the program's needs. Without additional storage, preparation, and counseling space, the program cannot grow.

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7. The dietetics program also needs dedicated laboratory space to support student and faculty research on metabolic processes and experimental foods. Roosevelt hall could be a reasonable location for a laboratory, given its proximity to Marshall (where the program faculty have offices). Roosevelt is also the site for the Hotel and Restaurant Management program's kitchen; proximity to that space might also be advantageous.

College of Technology

The College of Technology (COT) is dedicated to excellence in the delivery of professional programs that are current and relevant in today's world. Program offerings are based on the belief that technology and/or management studies enhance learning; their application is vital in the creation and discovery of new knowledge. Graduates of COT programs are better prepared to function in an ever changing global technological environment and to assume leadership roles in organizations, corporations, government agencies and institutions of higher education throughout the world. Today's College of Technology has become an integral component of the University's mission, allowing students to be better prepared to compete globally. With a reputation for excellence and innovation, the College of Technology continues to meet the changing needs of students and employers today.

Although hindered by being housed primarily in Sill (1965) and Roosevelt (1928) Halls, the college has made great strides in the development and delivery of relevant programs and educational experiences for students. Also, beginning in July 2004 the College of Technology became the home for three major programs and an institute from the College of Health and Human Services. The greatest challenge facing the college at present is the shortage of facilities and less than adequate teaching and laboratory environments for many classes. The need for a new integrated applied technology facility is our top priority as we attempt to stay up-to-date in educational delivery, student learning experiences and faculty research. A new facility with an integrated applied technology focus could very well serve other programs outside the College of Technology.

The following list includes the most critical facility issues facing the College of Technology:

1. Roosevelt and Sill Halls, the primary College facilities, have major infrastructure, HVAC and building envelope issues needing constant maintenance.
2. Being located in two separate older buildings doesn't allow for up-to-date "technology centered" instruction and research between disciplines resulting in a variety of inefficiencies and impediments to the exchange of knowledge within these groups.
3. Appropriate spaces for faculty offices, classrooms and laboratories are severely lacking.

Given its current number of programs and plans for future growth and internal realignments, the College of Technology has identified a new "integrated applied technology" facility as its highest ranking capital need.

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Library

The Bruce T. Halle Library houses the University Library, Bruce K. Nelson Faculty Development Center, Holman Learning Center, Academic Technology and Computing Services and Paradox Cafe. With over 949,000 volumes, 200 indexes and databases, and 20,000 full-text journals, the library provides an array of resources that supports teaching, learning and research to facilitate the intellectual, scientific and artistic pursuits of the university. Beyond basic library instructions for freshmen, sophomores and transferring students, the library offers subject oriented information literacy classes at the 300-400 levels as well as research workshops for graduate students. Individual research consultations are available by appointments where librarians work directly with students on specific research problems. The 218,000 square foot library offers 2,250 seats for faculty and students, over 500 computers in labs and public areas, 1,500 network ports, and wireless access to Internet throughout the Library.

When the Halle Library opened in 1998, three of the five aisles of Automatic Retrieval Collections (ARC) were installed due to budget constraint. A server with a special software program to manage the ARC collection and interface with library's online catalog was also implemented. Currently, the ARC houses more than half of the library's physical collections. Since there was no provision for a software maintenance contract, we are looking at a software system that sits on top of a legacy server and have never been updated for eight years. Without the additional two aisles of storage bins, we are also approaching the projected space shortfall to house the library collection in the next two years. There are two approaches to remedy the immediate and near term needs of library's collection management problems related to ARC. The ideal solution is to install the remaining two aisles of ARC and upgrade the software management program and server at the same time, with an estimated costs of 1.85 to 2 million dollars. Alternatively, we may want to immediately upgrade the server and software, costing \$265,000, add base budget to fund annual maintenance contract for the software and install the remaining two aisles a couple of years later.

University Archives is another area with serious space shortage. Located on the third floor of Halle Library, the University Archives occupies a total of 2,844 square feet. In comparison, Central Michigan University has 18,000 square feet and Western Michigan University has 20,000 square feet of space for their university archives. The current space allocated for collecting and preserving Eastern Michigan University's institutional memory is clearly inadequate. Estimated cost to reallocate and restructure existing library space to create an adequate University Archives is 1.5 to 2 million dollars.

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Information and Communications Technology (ICT)

The vision of ICT is: “Through the innovative and competitive use of technology, EMU will strategically achieve excellence in instruction and learning, research and creative activity, personal growth, and service to fulfill its mission.”

Through leadership and technology, ICT’s mission is to provide excellent information services. To provide access to information and quality technology resources; to provide leadership and innovation in IT planning; to implement efficient technology infrastructures and effective information systems; to deliver responsive support service to students, faculty, and staff.

The ICT Division provides visionary leadership and sound management for the effective integration of technology, resources, and services in support of student life; administrative services; and the teaching, learning, research, and service missions of the university – which are supported by the following ICT departments:

- **Academic Technology and Computing Support (ATCS)**. This group performs first-line campus wide support; and includes Instructional Technology, Computer Labs, Help Desk, and the Computer Store.
- **Network and Systems Services**. The backroom team serving network infrastructure, data center and servers. The teams included are Systems Integration and Maintenance, Network Systems Engineering and Enterprise Data Center Operations.
- **Enterprise Applications Services**. This department supports the core ERP (Banner) and peripheral systems, system administration and development services for the Portal, the Banner self service functions, and the ICT website, and backroom technical services for Oracle databases.
- **Information Technology Security**. This function coordinates and ensures that appropriate EMU and ICT security policies are developed and maintained in compliance with federal and state regulations, as well as EMU auditors.
- **Project Management Office**. The PMO provides the methodology, portfolio reporting, and consulting for project management services.
- **ICT Policy & Organizational Effectiveness**. Coordinates and ensures appropriate EMU and ICT policies are developed, communicated and maintained.
- **Business Operations**. Manages the human and budgetary resources, and coordinates and plans ICT initiatives to ensure proper alignment with the mission.

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INSTRUCTIONAL PROGRAMMING**

Continuing Education

Continuing Education provides leadership to the campus in extending Eastern Michigan University to its communities. As the primary delivery structure for off-campus programs, Continuing Education works closely with academic departments and colleges as well as student service areas to serve students both on campus and beyond.

EMU programs offered via Continuing Education are varied in both geographic distribution and program type. Courses are offered in traditional and compressed formats, distance learning, and contract programs. Off-campus centers are maintained in Brighton, Detroit, Flint, Jackson, Livonia, Monroe, and Traverse City. Courses and programs may also be delivered at non-EMU locations such as Grand Rapids in partnership with Grand Valley State University, Daimler Chrysler, and Foote Hospital, to name a few. Programs are also offered internationally in partnership with foreign institutions, for example our Human Resource and Organizational Development masters degree in China.

Continuing Education is also responsible for EMU-Online, Eastern Michigan's online course delivery unit. More than 357 courses have been developed and enrollments are increasing 20% annually. Ten full degree programs have been developed for online delivery, including our newest program, Intergraded Marketing Communication.

Continuing Education continues to expand within the region, and internationally. EMU-Livonia will expand again this year to serve our growing off campus student population. In addition to our partnership with the Tianjin Normal University, we are having discussions with other potential university partners in China interested in GIS and Quality programs. These programs can be delivered in a hybrid format, face-to-face and online, and help further the internationalization our curriculum and broaden the knowledge and experience of our faculty.

On campus, Continuing Education delivers programming on weekends using various campus buildings and the Eagle Crest conference center. In addition, technology can be used to deliver programs between campus and distance sites.

Continuing Education also provides a number of non-credit offerings which meet the life-long learning needs of the southeast region of Michigan.

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Enrollment and Faculty/Staff

- Executive Summary
- Enrollment Forecasts
 - Enrollment History
 - Faculty Productivity
- FTE Enrollment by College



**EASTERN MICHIGAN UNIVERSITY
CAPITAL OUTLAY REQUEST FY 2008
ENROLLMENT and FACULTY/STAFF**

EXECUTIVE SUMMARY

Eastern Michigan University has a strong history of commitment to high student access to quality programs. It is even more vital today to keep the doors of opportunity open to all of Michigan's citizens. The University plans to more aggressively attract students of opportunity, both traditional college-age youth who benefit significantly from EMU's rich on-campus life and commitment to holistic student development, and less traditional student populations requiring advanced degrees, programs tailored to employment needs, and distributed online courses, which are so essential for the information-age economy.

The following table reflects the total fall headcount enrollment of undergraduate and graduate students for the previous five years. Also included are full-year equated students.

Fall Headcount Enrollment

Fall**	Undergraduate Students	Graduate Students	Total	Full Year Equated Students*
2002	19,562	4,943	24,505	19,582
2003	19,668	4,751	24,419	19,579
2004	19,000	4,862	23,862	18,947
2005	18,666	4,820	23,486	18,775
2006***	18,325	5,176	23,501	18,705

* For graduate students seeking a master's degree, "Full-Year Equated" means 24 student credit hours in a calendar year period. For graduate students seeking a specialist or doctoral degree, "Full-Year Equated" means 16 student credit hours in a calendar year. For undergraduate students, "Full-Year Equated" means 30 student credit hours in a calendar year, reflecting mandatory state definitional changes.

** Teacher certification students are classified at the undergraduate level.

*** Estimated

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ENROLLMENT and FACULTY/STAFF**

The University's enrollment consists of three major categories: First Time in Any College (FTIAC); transfer students; and graduate students. The population estimates for the FTIACs and undergraduate transfer market are expected to increase over the next couple of years. Since 1995, the number of high school graduates has continued to increase in the State of Michigan. Graduation rates are projected to increase modestly over the next couple of years. This increase would bring the total number of graduates in the state of Michigan to approximately 117,000.

Eastern Michigan University is strongly committed to working with southeastern Michigan community colleges to enhance access to a four year public university education. Initiatives presently underway at the University include improved collaboration with the community colleges, expansion of the number of transfer articulation agreements and improvements in the overall transfer process for community college students. EMU currently has 70 articulation agreements in place with 12 community colleges and two four-year institutions. This compares favorably to 2005 when there were 57 articulation agreements in place.

Enrollment estimates for graduate programs and undergraduate adult learners finishing degrees or obtaining second bachelor's degrees are also projected to increase. These estimates are supported by growth projections for the Michigan population as a whole, and particularly in Washtenaw County, and by the increasing percentage of Michigan's population with bachelor's degrees, which represent the potential market for graduate students.

Eastern Michigan University places a high value on the retention of its students. One of the many outcomes of the strategic planning process has been to implement a comprehensive, campus-wide approach to the retention of students. This approach includes the following initiatives:

1. The development of a retention tracking system
2. Student use of the Holman Learning Center
3. Review of the general education curriculum
4. Creation of academic advising offices in each college
5. Mandatory freshman orientation
6. First year mentorship and freshman advising
7. Expansion of summer incentive program
8. Continuation of the Commuter and Transfer Student Admission Team

The Fall 2005 to Winter 2006 student retention rate for undergraduate students held steady at 82 percent, while the retention rate for first-time freshmen was 88.5 percent.

The tables below set forth the total number of FTIAC and transfer applications received and accepted, and the number of undergraduate students enrolled for the fall semesters indicated.

**EASTERN MICHIGAN UNIVERSITY
CAPITAL OUTLAY REQUEST FY 2008
ENROLLMENT and FACULTY/STAFF**

FTIAC Admissions*

<u>Fall Semester</u>	<u>Applications Received</u>	<u>Applications Accepted</u>	<u>Percent Accepted</u>	<u>Students Enrolled</u>	<u>Percent Enrolled</u>
2002	8,947	6,689	74.8%	2,656	39.7%
2003	8,898	7,049	79.2%	2,580	36.6%
2004	8,483	6,645	78.3%	2,354	35.4%
2005	10,151	8,041	79.2%	2,387	29.7%
2006	9,915	7,854	79.2%	2,348	29.9%

Transfer Student Admissions

<u>Fall Semester</u>	<u>Applications Received</u>	<u>Applications Accepted</u>	<u>Percent Accepted</u>	<u>Students Enrolled</u>	<u>Percent Enrolled</u>
2002	3,166	2,406	76.0%	1,617	67.2%
2003	3,008	2,413	80.2%	1,685	69.8%
2004	3,069	2,392	77.9%	1,626	68.0%
2005	3,299	2,530	76.7%	1,694	67.0%
2006	3,272	2,532	77.4%	1,662	65.6%

* Excludes dual high school enrollments and guest students.

During the past five years, the degree of preparedness of the entering first-year class as measured by composite test scores has remained above the national average for all entering first-year students. Approximately 80 percent of the entering first-year class submits only ACT scores. SAT scores are submitted primarily by out-of-state and foreign students. The following table sets forth for each entering fall first-year class for the years indicated the mean ACT composite and the SAT total average scores.

ACT and SAT Scores – Entering First Year Class, Fall Term

	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>
ACT (Composite)	20.81	20.67	20.70	21.00	21.28
SAT Total (Average)	1,027	1,017	1,011	1,028	1,042

The fall 2006 FTIAC class has the highest ACT and SAT scores that any incoming class has had since 1998.

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New transfer enrollment of 1,662 fell slightly from last year's enrollments of 1,695, but well ahead of Fall 2004. Growth was strong in transfer students from both two-year and four-year institutions.

<u>New Transfer Enrollments</u> (opening term)	
2003	1,685
2004	1,626
2005	1,695
2006	1,662

The University's preliminary faculty and staff count for fall 2006 totals approximately 2,396 full and part-time employees, of whom 1,144 are full-time and part-time faculty and lecturers; 230 are administrative employees; 387 are professional/technical employees; 293 are clerical employees; 199 are food service and maintenance workers; 20 are police employees; 43 are athletic coaches; and the remaining 80 consists of employee consultants and temporary employees.

Faculty are arguably EMU's principal human resource. The scholarly and creative accomplishments of EMU's faculty are the strength of the University. Faculty include professors, associate professors, assistant professors, instructors, and librarians with faculty rank. Faculty perform a full range of duties and traditional responsibilities at higher education institutions, including teaching, research, scholarly and/or creative activity and service.

For fall 2005 (the latest reported data), the number of ranked faculty was 666; tenured faculty was 502 (75.4 percent); and those holding doctorates or terminal degrees in their discipline from accredited institutions was 563 (84.5 percent). There were 107 full-time lecturers and 343 adjunct lecturers.

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The following table summarizes the various employee groups at the University:

<u>Employee Group</u>	<u>Current Membership</u>	<u>Represented By</u>	<u>Expiration Date of Current Contract</u>	<u>Date of First Contract</u>
Administrative Professional	230	N/A	N/A	N/A
Athletic Coaches	43	N/A	N/A	N/A
Confidential Clerical	12	N/A	N/A	N/A
Food & Maintenance	199	AFSCME ⁽¹⁾	6/30/07	1966
Clerical & Secretarial	281	UAW 1975 ⁽²⁾	6/30/07	1975
Professional & Technical	387	UAW 1976	7/31/06 *	1976
Police Sergeants	3	POLC ⁽³⁾	6/30/07	1974
Police Officers	17	POLC	6/30/09	1973
Faculty	692	AAUP ⁽⁴⁾	8/31/06 *	1974
Full-Time Lecturers	107	EMU-FT ⁽⁵⁾	4/30/10	2001

- (1) American Federated State County and Municipal Employees
 (2) United Auto Workers
 (3) Police Officers Labor Council
 (4) American Association of University Professors
 (5) Affiliated with Michigan Federated Teachers

The remainder of this section includes exhibits reflecting enrollment forecasts, enrollment history, faculty productivity, and faculty full-time equivalency.

* *currently working under the expired contract, pending settlement*

EASTERN MICHIGAN UNIVERSITY

TOTAL UNIVERSITY
ENROLLMENT FORECAST
DETAIL BY STUDENT CATEGORY
2006-2007

SUMMER 2006

	RESIDENT			NON-RESIDENT			TOTAL		
	HEADCOUNT	CREDIT HR LOAD	STUDENT CREDIT HRS	HEADCOUNT	CREDIT HR LOAD	STUDENT CREDIT HRS	HEADCOUNT	CREDIT HR LOAD	STUDENT CREDIT HRS
FTIAC Regular	84	5.64	474	3	6.67	20	87	5.68	494
FTIAC Dual	1	4.00	4	0	0.00	0	1	4.00	4
Freshmen	124	4.72	584	5	4.14	22	129	4.71	606
Sophomores	430	4.13	1,776	14	3.00	43	444	4.10	1,819
Juniors	787	4.13	3,251	16	2.86	47	803	4.10	3,298
Seniors	2,394	4.40	10,538	59	2.62	155	2,454	4.36	10,693
Second Bach.	70	4.25	298	8	0.86	7	78	3.89	305
Teacher Certs.	274	4.34	1,187	0	0.00	0	274	4.34	1,187
Non-Degree	373	4.03	1,503	26	2.69	70	400	3.94	1,573
Undergraduate Subtotal	4,537	4.32	19,615	133	2.75	364	4,669	4.28	19,979
Masters	1,292	3.78	4,887	66	1.96	130	1,358	3.69	5,017
Specialist	36	3.51	125	0	4.00	0	36	3.52	125
Doctorate	46	2.67	123	5	2.29	12	51	2.63	135
Teacher Certs.	5	4.00	20	0	0.00	0	5	3.91	20
Non-Degree 12 Hrs.	19	3.16	61	4	2.00	8	23	2.96	69
Non-Degree	716	3.18	2,277	10	1.50	15	726	3.16	2,292
Cert. of Completion	66	3.31	219	3	3.00	9	69	3.29	228
Degree Pending	6	3.50	21	1	2.00	2	7	3.21	23
Graduate Subtotal	2,186	3.54	7,733	90	1.96	176	2,276	3.48	7,909
SUMMER TERM ENROLLMENT	6,723	4.07	27,348	222	2.43	540	6,945	4.02	27,888

Note: subtotals may not add to totals due to rounding.

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EASTERN MICHIGAN UNIVERSITY

TOTAL UNIVERSITY
ENROLLMENT FORECAST
DETAIL BY STUDENT CATEGORY
2006-2007

FALL 2006

	RESIDENT			NON-RESIDENT			TOTAL		
	HEADCOUNT	CREDIT HR LOAD	STUDENT CREDIT HRS	HEADCOUNT	CREDIT HR LOAD	STUDENT CREDIT HRS	HEADCOUNT	CREDIT HR LOAD	STUDENT CREDIT HRS
FTIAC Regular	2,318	14.25	33,034	123	14.44	1,772	2,441	14.26	34,806
FTIAC Dual	133	3.93	523	0	0.00	0	133	3.93	523
Freshmen	1,107	12.07	13,366	45	11.29	505	1,152	12.04	13,871
Sophomores	3,290	12.59	41,417	63	13.11	829	3,353	12.60	42,246
Juniors	3,393	11.94	40,521	90	12.49	1,121	3,482	11.96	41,642
Seniors	6,236	11.18	69,721	135	11.77	1,591	6,371	11.19	71,312
Second Bach.	390	8.36	3,258	49	5.38	265	439	8.02	3,523
Teacher Certs.	595	9.86	5,862	0	6.00	2	595	9.86	5,864
Non-Degree	341	6.12	2,086	17	3.58	61	358	6.00	2,147
Undergraduate Subtotal	17,803	11.78	209,788	522	11.77	6,146	18,325	11.78	215,934
Masters	3,142	5.85	18,368	451	6.37	2,874	3,594	5.91	21,242
Specialist	75	3.90	291	1	4.00	4	76	3.90	295
Doctorate	117	4.66	545	32	8.08	255	148	5.39	800
Teacher Certs.	16	5.29	82	0	0.00	0	16	5.28	82
Non-Degree 12 Hrs.	125	5.79	725	11	5.50	58	136	5.76	783
Non-Degree	813	4.02	3,269	23	0.65	15	836	3.93	3,284
Cert. of Completion	314	4.94	1,553	20	6.40	128	334	5.03	1,681
Degree Pending	33	8.54	278	4	8.00	29	36	8.49	307
Graduate Subtotal	4,635	5.42	25,111	541	6.21	3,363	5,176	5.50	28,474
FALL TERM ENROLLMENT	22,437	10.47	234,899	1,064	8.94	9,509	23,501	10.40	244,408

Note: subtotals may not add to totals due to rounding errors.

EASTERN MICHIGAN UNIVERSITY

TOTAL UNIVERSITY
ENROLLMENT FORECAST
DETAIL BY STUDENT CATEGORY
2006-2007

WINTER 2007

	RESIDENT			NON-RESIDENT			TOTAL		
	HEADCOUNT	CREDIT HR LOAD	STUDENT CREDIT HRS	HEADCOUNT	CREDIT HR LOAD	STUDENT CREDIT HRS	HEADCOUNT	CREDIT HR LOAD	STUDENT CREDIT HRS
FTIAC Regular	69	12.02	829	20	12.75	255	89	12.18	1,084
FTIAC Dual	24	4.22	101	0	0.00	0	24	4.21	101
Freshmen	2,506	13.34	33,425	113	14.29	1,616	2,619	13.38	35,041
Sophomores	2,803	12.41	34,792	80	13.20	1,061	2,883	12.43	35,853
Juniors	3,364	11.84	39,833	86	12.66	1,092	3,450	11.86	40,925
Seniors	6,230	11.18	69,652	139	11.49	1,595	6,368	11.19	71,247
Second Bach.	408	8.42	3,439	47	6.32	296	455	8.20	3,735
Teacher Certs.	568	9.89	5,620	0	0.00	0	568	9.89	5,620
Non-Degree	372	5.24	1,947	19	4.92	96	391	5.22	2,043
Undergraduate Subtotal	16,344	11.60	189,638	505	11.91	6,011	16,849	11.61	195,649
Masters	3,030	5.95	18,027	449	5.97	2,681	3,479	5.95	20,708
Specialist	73	4.01	294	0	0.00	0	73	4.02	294
Doctorate	117	4.91	573	28	7.95	220	144	5.49	793
Teacher Certs.	10	5.17	52	0	0.00	0	10	5.17	52
Non-Degree 12 Hrs.	126	5.87	740	13	6.50	85	139	5.92	825
Non-Degree	757	3.95	2,991	25	0.60	15	782	3.84	3,006
Cert. of Completion	323	5.22	1,685	23	6.82	154	345	5.32	1,839
Degree Pending	17	9.60	162	4	7.50	28	21	9.20	190
Graduate Subtotal	4,453	5.51	24,524	541	5.88	3,183	4,994	5.55	27,707
WINTER TERM ENROLLMENT	20,797	10.30	214,162	1,046	8.79	9,194	21,843	10.23	223,356

Note: subtotals may not add to totals due to rounding.

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EASTERN MICHIGAN UNIVERSITY

TOTAL UNIVERSITY
ENROLLMENT FORECAST
DETAIL BY STUDENT CATEGORY
2006-2007

SPRING 2007

	RESIDENT			NON-RESIDENT			TOTAL		
	HEADCOUNT	CREDIT HR LOAD	STUDENT CREDIT HRS	HEADCOUNT	CREDIT HR LOAD	STUDENT CREDIT HRS	HEADCOUNT	CREDIT HR LOAD	STUDENT CREDIT HRS
FTIAC Regular	13	6.00	78	5	5.80	29	18	5.94	107
FTIAC Dual	2	3.50	7	0	0.00	0	2	3.50	7
Freshmen	238	4.96	1,178	14	3.75	54	252	4.89	1,232
Sophomores	801	4.76	3,817	33	3.21	107	835	4.70	3,924
Juniors	1,377	4.81	6,630	29	3.94	115	1,406	4.80	6,745
Seniors	3,691	5.07	18,703	83	4.15	345	3,775	5.05	19,048
Second Bach.	173	4.44	771	31	1.00	31	204	3.93	802
Teacher Certs.	386	5.30	2,047	0	1.00	0	386	5.30	2,047
Non-Degree	457	4.55	2,079	32	3.73	121	489	4.49	2,200
Undergraduate Subtotal	7,139	4.95	35,310	228	3.51	802	7,367	4.90	36,112
Masters	1,693	3.63	6,143	207	2.38	494	1,900	3.49	6,637
Specialist	32	3.97	126	0	0.00	0	32	3.96	126
Doctorate	69	3.24	224	20	4.08	81	89	3.41	305
Teacher Certs.	13	3.77	48	0	0.00	0	13	3.80	48
Non-Degree 12 Hrs.	45	3.33	150	3	1.00	3	48	3.20	153
Non-Degree	441	3.29	1,452	10	0.80	8	451	3.24	1,460
Cert. of Completion	140	3.48	486	6	3.00	17	145	3.46	503
Degree Pending	6	3.00	18	1	1.50	2	7	2.71	20
Graduate Subtotal	2,439	3.55	8,647	247	2.45	605	2,686	3.44	9,252
SPRING TERM ENROLLMENT	9,578	4.59	43,957	475	2.96	1,407	10,053	4.51	45,364
							TOTAL SCH		551,037

Note: subtotals may not add to totals due to rounding.

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EASTERN MICHIGAN UNIVERSITY
TOTAL UNIVERSITY
ENROLLMENT FORECAST
DETAIL BY STUDENT CATEGORY
2006-2007

FY2007

	RESIDENT			NON-RESIDENT			TOTAL		
	HEADCOUNT	CREDIT HR LOAD	STUDENT CREDIT HRS	HEADCOUNT	CREDIT HR LOAD	STUDENT CREDIT HRS	HEADCOUNT	CREDIT HR LOAD	STUDENT CREDIT HRS
FTIAC Regular	2,484	13.85	34,415	151	13.77	2,076	2,635	13.85	36,491
FTIAC Dual	160	3.97	635	0	0.00	0	160	3.97	635
Freshmen	3,975	12.22	48,553	178	12.38	2,197	4,152	12.22	50,750
Sophomores	7,324	11.17	81,802	191	10.67	2,040	7,515	11.16	83,842
Juniors	8,920	10.12	90,235	222	10.72	2,375	9,142	10.13	92,610
Seniors	18,551	9.09	168,614	417	8.85	3,686	18,968	9.08	172,300
Second Bach.	1,042	7.45	7,766	135	4.44	599	1,177	7.11	8,365
Teacher Certs.	1,822	8.08	14,716	0	7.74	2	1,823	8.08	14,718
Non-Degree	1,543	4.94	7,615	95	3.66	348	1,638	4.86	7,963
Undergraduate Subtotal	45,822	9.92	454,351	1,388	9.60	13,323	47,210	9.91	467,674
Masters	9,157	5.18	47,425	1,174	5.26	6,179	10,331	5.19	53,604
Specialist	215	3.88	836	1	4.00	4	216	3.88	840
Doctorate	349	4.19	1,465	84	6.74	568	434	4.69	2,033
Teacher Certs.	43	4.66	202	0	0.00	0	43	4.66	202
Non-Degree 12 Hrs.	316	5.31	1,676	31	4.99	154	346	5.28	1,830
Non-Degree	2,727	3.66	9,989	68	0.78	53	2,795	3.59	10,042
Cert. of Completion	843	4.68	3,943	51	6.00	308	894	4.75	4,251
Degree Pending	62	7.76	479	10	6.32	61	71	7.57	540
Graduate Subtotal	13,712	4.81	66,015	1,420	5.16	7,327	15,132	4.85	73,342
FY ENROLLMENT	59,535	8.74	520,366	2,807	7.36	20,650	62,342	8.68	541,016

Note: subtotals may not add to totals due to rounding.

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EXHIB IV P91

EASTERN MICHIGAN UNIVERSITY
 THREE-YEAR PRODUCTIVITIES
 (FULL-YEAR EQUATED STUDENTS PER FULL-TIME EQUATED FACULTY)

COLLEGE	FY02/03	FY03/04	FY04/05	3-YEAR AVERAGE	FY05/06	Difference
Acad Retention Prog/UG Studies	18.71	20.37	23.19	20.45	24.82	4.36
Arts & Sciences	22.34	21.78	20.58	21.57	19.60	-1.96
Business	23.42	21.89	20.30	21.87	20.23	-1.64
Education	16.59	17.53	16.04	16.79	14.98	-1.82
Health & Human Services	10.69	10.97	13.36	11.88	13.22	1.34
Technology *	12.96	13.30	13.02	13.08	11.95	-1.13
Total-Academic Dept.	19.85	19.62	18.53	19.33	17.65	-1.68

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Source: Calculated from full-year equated student (FYES) - Exhibit VI and full-time equated faculty (FTEF) - Exhibit V, excluding sabbaticals and dean's accounts..

* College of Technology productivity excludes Military Science credit hours..

Total-Academic Dept. includes Military Science credit hours.

EXH - - -

EASTERN MICHIGAN UNIVERSITY
THREE-YEAR PRODUCTIVITIES
(FULL-YEAR EQUATED STUDENTS PER FULL-TIME EQUATED FACULTY)

<u>ARTS & SCIENCES</u>	<u>FY02/03</u>	<u>FY03/04</u>	<u>FY04/05</u>	<u>3-YEAR AVERAGE</u>	<u>FY05/06</u>	<u>Difference</u>
African-American Studies	23.34	17.91	15.94	18.80	15.49	-3.31
Biology	14.41	14.44	13.10	13.97	12.60	-1.37
Chemistry	16.32	15.95	17.55	16.60	16.52	-0.08
Comm. & Theatre Art	19.18	19.98	18.69	19.26	18.36	-0.91
Computer Science	24.90	23.79	22.65	23.77	20.71	-3.06
Economics	19.61	17.69	16.37	17.98	16.95	-1.03
English	27.11	27.50	22.94	25.80	24.58	-1.22
Fine Arts	24.07	23.67	23.38	23.71	21.80	-1.91
Foreign Language	11.80	11.94	12.40	12.04	11.23	-0.81
Geography & Geology	25.36	22.57	21.65	23.25	20.71	-2.54
History & Philosophy	31.10	31.55	28.98	30.56	26.70	-3.86
Mathematics	25.86	26.63	27.05	26.50	25.28	-1.21
Music	7.67	7.11		7.38		
Music & Dance			7.43	7.43	7.24	
Physics & Astronomy	24.72	25.91	22.52	24.34	23.35	-0.99
Political Science	29.18	30.46	25.69	28.37	24.77	-3.60
Psychology	29.87	27.14	23.58	26.74	26.06	-0.68
Sociology	27.70	26.17	24.41	26.08	22.19	-3.89
Women's Studies	27.17	28.14	31.04	28.78	28.10	-0.67
Interdisciplinary Studies	16.84	28.26	26.32	24.43	25.04	0.62
TOTAL	22.34	21.78	20.58	21.57	19.60	-1.96

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EASTERN MICHIGAN UNIVERSITY
THREE-YEAR PRODUCTIVITIES
(FULL-YEAR EQUATED STUDENTS PER FULL-TIME EQUATED FACULTY)

<u>BUSINESS</u>	<u>FY02/03</u>	<u>FY03/04</u>	<u>FY04/05</u>	<u>3-YEAR AVERAGE</u>	<u>FY05/06</u>	<u>Difference</u>
Accounting						
Accounting & Finance	23.00	22.07	20.88	21.97	21.23	-0.75
Computer Info Systems	18.71	15.86	15.34	16.69	14.20	-2.49
Finance & Computer Info						
Management	26.76	24.44	20.53	23.79	20.48	-3.31
Marketing	24.23	22.63	20.36	22.43	20.61	-1.81
Programs in Business Administrati	27.24	31.59	54.44	35.74	51.63	15.89
TOTAL	23.42	21.89	20.30	21.87	20.23	-1.64

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EASTERN MICHIGAN UNIVERSITY
 THREE-YEAR PRODUCTIVITIES
 (FULL-YEAR EQUATED STUDENTS PER FULL-TIME EQUATED FACULTY)

EDUCATION	FY02/03	FY03/04	FY04/05	3-YEAR AVERAGE	FY05/06	Difference
HPER&D	20.21	21.79		20.98		
Leadership & Counseling	9.83	11.59	7.88	9.76	10.33	0.57
Special Education	19.18	20.31	21.23	20.21	20.14	-0.07
COE-Office of Academic Serv.	12.33	12.32	12.68	12.44	12.05	-0.39
Teacher Education	17.68	18.63	18.82	18.36	16.13	-2.23
EDUCATION	16.59	17.53	16.04	16.79	14.98	-1.82

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EASTERN MICHIGAN UNIVERSITY
THREE-YEAR PRODUCTIVITIES
(FULL-YEAR EQUATED STUDENTS PER FULL-TIME EQUATED FACULTY)

<u>HEALTH & HUMAN SERV.</u>	<u>FY02/03</u>	<u>FY03/04</u>	<u>FY04/05</u>	<u>3-YEAR AVERAGE</u>	<u>FY05/06</u>	<u>Difference</u>
Assoc. Health Profess.	13.08	10.57		11.77		
School of Health Sciences			7.39	7.39	9.93	
School of Hlth Promotion/Hmn Perf			22.22	22.22	21.30	
HECR	10.54	12.31		11.38		
School of Nursing	8.52	8.34	7.56	8.09	6.69	-1.40
School of Social Work	11.31	11.81	11.72	11.61	11.49	-0.12
Gerontology	1.80	1.73	2.15	1.90	2.56	0.66
Interdisciplinary Studies						
TOTAL	10.69	10.97	13.36	11.88	13.22	1.34

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EASTERN MICHIGAN UNIVERSITY
THREE-YEAR PRODUCTIVITIES
(FULL-YEAR EQUATED STUDENTS PER FULL-TIME EQUATED FACULTY)

<u>TECHNOLOGY</u>	<u>FY02/03</u>	<u>FY03/04</u>	<u>FY04/05</u>	<u>3-YEAR AVERAGE</u>	<u>FY05/06</u>	<u>Difference</u>
Business & Technology Ed.	15.28	15.99		15.63		
Industrial Technology	11.54	11.12		11.33		
Interdisc. Technology				13.56		
School of Engineering Technology			9.82	9.82	9.15	
School of Technology Studies			15.49	15.49	13.95	
College of Technology Interdisc Studies	24.00			24.00		
College of Technology-Misc.	12.96	13.30	13.02	13.08	11.95	-1.13
TOTAL						

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EASTERN MICHIGAN UNIVERSITY
FACULTY AND LECTURER ALLOCATIONS/UTILIZATION
FULL-TIME EQUIVALENCY
COLLEGE SUMMARY

COLLEGE	FY98/99 ACTUAL	FY99/00 ACTUAL	FY00/01 ACTUAL	FY01/02 ACTUAL	FY02/03 ACTUAL	FY03/04 ACTUAL	FY04/05 ACTUAL	FY05/06 ACTUAL
Acad Retention Prog/UG Studies	2.45	2.62	1.73	2.48	1.68	1.53	1.12	0.94
Arts & Sciences	476.00	479.95	480.50	481.54	495.31	494.43	498.02	510.71
Business	87.43	84.90	88.78	83.61	89.07	89.09	89.51	88.04
Education	148.58	148.95	154.16	156.21	165.27	165.43	119.56	131.43
Health & Human Services	75.97	75.37	78.07	67.34	70.29	69.84	98.86	106.25
Technology	<u>49.91</u>	<u>50.61</u>	<u>54.32</u>	<u>50.25</u>	<u>53.94</u>	<u>51.11</u>	<u>67.79</u>	<u>71.80</u>
Subtotal-Academic Dept. (Exhibit III)	840.34	842.40	857.56	841.43	875.56	871.43	874.86	909.17
Dean's Accounts	7.44	8.98	4.96	3.79	2.76	3.87		
Honors Program Reserve	0.00	0.20	0.00	0.00	0.00	0.00		
Subtotal-Instruction	847.78	851.58	862.52	845.22	878.32	875.31	874.87	909.18
Sabbaticals - Instruction	13.00	8.50	13.85	10.00	9.00	8.50	7.00	10.00
TOTAL	860.78	860.08	876.37	855.22	887.32	883.81	881.87	919.18

Note: 2004/05 reflects reorganization of departments within the various colleges. Please see the reorganization notes at end.

Source: Faculty Appointment Analysis

EASTERN MICHIGAN UNIVERSITY
FACULTY AND LECTURER ALLOCATIONS/UTILIZATION
FULL-TIME EQUIVALENCY

COLLEGE OF ARTS & SCIENCES	FY98/99 ACTUAL	FY99/00 ACTUAL	FY00/01 ACTUAL	FY01/02 ACTUAL	FY02/03 ACTUAL	FY03/04 ACTUAL	FY04/05 ACTUAL	FY05/06 ACTUAL
African-American Studies	4.12	4.15	3.95	3.93	3.86	4.65	4.65	4.61
Art	30.52	30.00	32.57	29.63	30.66	30.25	31.70	33.73
Biology	27.67	24.29	24.79	24.04	24.29	24.90	24.03	25.67
Chemistry	23.23	24.32	22.55	21.82	24.66	24.39	26.42	25.84
Comm. & Theater Art	46.04	44.24	46.94	47.05	44.51	45.59	45.64	49.26
Computer Science	19.65	21.63	19.55	19.14	21.79	21.08	18.16	18.26
Economics	13.79	13.08	13.00	14.05	13.50	13.74	14.40	13.73
English	67.42	72.78	70.59	71.19	75.05	76.06	74.18	71.53
Foreign Language	24.93	26.33	27.23	26.62	27.25	27.25	26.47	30.82
Geography & Geology	21.41	21.49	22.53	21.16	24.44	23.69	22.11	21.64
History & Philosophy	35.49	35.82	34.58	36.07	39.16	37.20	36.95	38.23
Mathematics	35.89	35.07	34.74	34.25	36.21	34.85	32.95	34.31
Music	38.84	38.16	38.45	40.22	38.48	40.30		
Music & Dance							43.71	44.96
Physics & Astronomy	14.21	15.03	15.22	15.83	16.22	15.80	17.11	15.87
Political Science	19.94	21.25	20.46	19.73	21.51	20.00	22.18	22.84
Psychology	25.58	24.49	25.86	27.45	25.92	27.50	28.95	27.44
Sociology	23.18	23.51	23.04	24.64	24.18	23.67	24.67	27.87
Women's Studies	3.37	3.96	3.96	4.24	3.23	3.05	3.15	3.41
Interdisciplinary Studies	0.72	0.35	0.49	0.48	0.38	0.46	0.59	0.69
TOTAL -	476.00	479.95	480.50	481.54	495.31	494.43	498.02	510.71
Dean's Account	0.92	2.84	2.05	0.25	0.58	1.23		
Sabbaticals	10.00	6.00	8.50	5.50	5.50	6.50	4.50	8.00

Note: Totals may not precisely equal sum of entries due to rounding error.

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EASTERN MICHIGAN UNIVERSITY
FACULTY AND LECTURER ALLOCATIONS/UTILIZATION
FULL-TIME EQUIVALENCY

COLLEGE OF BUSINESS	FY98/99 ACTUAL	FY99/00 ACTUAL	FY00/01 ACTUAL	FY01/02 ACTUAL	FY02/03 ACTUAL	FY03/04 ACTUAL	FY04/05 ACTUAL	FY05/06 ACTUAL
Accounting	21.72	20.82	20.63	27.15	29.71	30.12	30.40	29.86
Accounting & Finance				19.08	17.41	16.83	15.80	15.88
Computer Info Sys				17.83	21.43	21.69	23.86	22.84
Management	21.50	22.73	20.77	16.80	18.38	17.64	17.85	17.78
Marketing	19.18	17.79	18.77	2.75	2.14	2.83	1.60	1.70
Programs in Business Admin.	---	---	2.70	83.61	89.07	89.09	89.51	88.06
TOTAL -	87.43	84.90	88.78	83.61	89.07	89.09	89.51	88.06
Dean's Account	1.54	0.35	0.00	0.00	0.00	0.00	0.50	1.00
Sabbaticals	0.00	0.50	1.50	2.50	1.50	0.50	0.50	1.00

Note: Totals may not precisely equal sum of entries due to rounding error.

EASTERN MICHIGAN UNIVERSITY
FACULTY AND LECTURER ALLOCATIONS/UTILIZATION
FULL-TIME EQUIVALENCY

<u>COLLEGE OF EDUCATION</u>	<u>FY98/99</u> <u>ACTUAL</u>	<u>FY99/00</u> <u>ACTUAL</u>	<u>FY00/01</u> <u>ACTUAL</u>	<u>FY01/02</u> <u>ACTUAL</u>	<u>FY02/03</u> <u>ACTUAL</u>	<u>FY03/04</u> <u>ACTUAL</u>	<u>FY04/05</u> <u>ACTUAL</u>	<u>FY05/06</u> <u>ACTUAL</u>
HPER&D	36.59	36.78	38.24	37.90	38.62	37.01		
Leadership & Counseling	16.61	18.56	17.76	15.94	17.97	16.48	16.74	17.98
Special Education	27.00	25.15	24.75	24.52	24.66	24.24	22.48	24.63
COE-Office of Academic Serv.	27.60	24.67	27.17	31.00	32.38	35.45	33.02	35.82
Teacher Education	<u>40.78</u>	<u>43.79</u>	<u>46.25</u>	<u>46.86</u>	<u>51.64</u>	<u>52.25</u>	<u>47.32</u>	<u>53.00</u>
TOTAL -	148.58	148.95	154.16	156.21	165.27	165.43	119.56	131.43
Dean's Account	2.62	3.71	2.91	3.54	2.05	1.18		
Sabbaticals	1.50	1.00	1.35	1.00	0.50	0.50	0.50	0.50

Note: Totals may not precisely equal sum of entries due to rounding error.

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EASTERN MICHIGAN UNIVERSITY
FACULTY AND LECTURER ALLOCATIONS/UTILIZATION
FULL-TIME EQUIVALENCY

	FY98/99 <u>ACTUAL</u>	FY99/00 <u>ACTUAL</u>	FY00/01 <u>ACTUAL</u>	FY01/02 <u>ACTUAL</u>	FY02/03 <u>ACTUAL</u>	FY03/04 <u>ACTUAL</u>	FY04/05 <u>ACTUAL</u>	FY05/06 <u>ACTUAL</u>
COLLEGE OF HEALTH AND HUMAN SERVICES								
Assoc. Health Professions	15.66	14.65	15.36	12.35	11.64	12.72	22.75	23.45
School of Health Sciences							33.31	33.72
School of Hlth Promotion/Hmn Perf								
Human Envir. & Cons. Res.	14.52	14.34	17.20	15.90	20.27	18.44		
School of Nursing	18.21	19.88	20.71	18.07	16.21	17.84	22.25	25.82
School of Social Work	23.80	22.49	20.77	18.36	19.70	18.74	18.11	20.96
Gerontology	3.78	4.01	4.03	2.66	2.48	2.10	2.44	2.30
Interd. Hlth/Hum. Serv.	<u>0.00</u>							
TOTAL -	75.97	75.37	78.07	67.34	70.29	69.84	98.86	106.25
Dean's Account	1.53	1.66	0.00	0.00	0.00	1.43		
Sabbaticals	1.00	1.00	1.50	1.00	1.00	0.50	1.00	0.50

Note: Totals may not precisely equal sum of entries due to rounding error.

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EASTERN MICHIGAN UNIVERSITY
FACULTY AND LECTURER ALLOCATIONS/UTILIZATION
FULL-TIME EQUIVALENCY

	FY98/99 ACTUAL	FY99/00 ACTUAL	FY00/01 ACTUAL	FY01/02 ACTUAL	FY02/03 ACTUAL	FY03/04 ACTUAL	FY04/05 ACTUAL	FY05/06 ACTUAL
<u>COLLEGE OF TECHNOLOGY</u>								
Business & Technology Ed.	11.08	10.48	12.65	12.71	11.85	11.39	30.66	32.53
Industrial Technology	21.98	21.58	23.05	19.90	21.08	21.27	37.13	39.27
Interdisciplinary Tech.	<u>16.85</u>	<u>18.55</u>	<u>18.62</u>	<u>17.64</u>	20.96	18.45	0.00	0.00
School of Engineering Technology								
School of Technology Studies								
College of Tech Interdisc. Studies					<u>0.05</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
College of Technology-Misc.								
TOTAL -	49.91	50.61	54.32	50.25	53.94	51.11	67.79	71.80
Dean's Account	0.83	0.42	0.00	0.00	0.13	0.03		
Sabbaticals	0.50	0.00	1.00	0.00	0.50	0.50	0.50	0.00

Note: Totals may not precisely equal sum of entries due to rounding error.

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2004-05 Department Reorganization

College of Arts and Sciences

Music: became Music and Dance with the addition of Dance majors from HPER&D (Health, Physical Education and Dance) in the College of Education.

College of Business

No Changes.

College of Education

HPER&D: Dance was moved to Music and Dance in the College of Arts and Sciences.

All other majors were moved to the new School of Health Promotion & Human Performance in the College of Health & Human Services.

College of Health & Human Services

Associated Health Professions became the new School of Health Sciences.

Majors added to the School of Health Sciences were Dietetics, Human Nutrition from HECR (Human, Environmental, and Consumer Resources) and Therapeutic Recreation from HPER&D in the College of Education.

HECR: majors were moved to other departments: The Hotel & Restaurant Management and Apparel, Textile Merchandising majors were moved to the new Technology Studies in the College of Technology. The Interior Design major was moved to the new School of Engineering Technology in the College of Technology.

College of Technology

The Business & Technology Education department was moved to the new School of Technology Studies.

The Interdisciplinary Technology department was moved to the new School of Technology Studies.

The Hotel & Restaurant Management and Apparel, Textile Merchandising majors were moved to the School of Technology Studies from HECR in the College of Health & Human Services.

Industrial Technology was moved to the new School of Engineering Technology

The Interior Design major was moved to the School of Engineering Technology from HECR in the College of Health & Human Services

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EASTERN MICHIGAN UNIVERSITY
ENROLLMENT BY COLLEGE - FISCAL YEAR
FULL-YEAR EQUATED STUDENT

COLLEGE	FY97/98	FY98/99	FY99/00	FY00/01	FY01/02	FY02/03	FY03/04	FY04/05	FY05/06
Acad Retention Prog/JG Studies	59.81	24.87	33.68	28.45	41.50	31.43	31.17	25.97	23.33
Arts & Sciences	10,199.06	10,269.53	10,434.85	10,398.99	10,983.10	11,067.02	10,771.05	10,247.00	10,011.50
Business	1,832.63	1,791.42	1,801.11	1,949.41	2,159.75	2,086.18	1,950.59	1,817.38	1,781.29
Education	2,247.27	2,241.94	2,283.00	2,366.89	2,526.14	2,742.02	2,900.15	1,918.25	1,968.31
Health & Human Services	890.99	840.67	788.00	752.67	738.85	751.69	765.81	1,320.81	1,404.16
Technology	694.86	652.30	646.08	655.22	737.94	699.02	679.57	882.84	858.11
Sub-Total	15,924.62	15,820.73	15,986.72	16,151.63	17,187.28	17,377.36	17,098.34	16,212.25	16,046.70
Military Science	25.94	26.13	25.58	24.55	23.80	24.10	22.33	19.73	15.77
Total Academic Departments	15,950.56	15,846.86	16,012.30	16,176.18	17,211.08	17,401.46	17,120.67	16,231.98	16,062.47
Continuing Education	1,456.30	1,536.24	1,864.00	1,879.08	1,928.22	2,065.04	2,065.04	2,537.24	2,646.61
UNIVERSITY TOTAL -	17,406.86	17,383.10	17,876.30	18,055.26	19,139.30	19,466.50	19,185.71	18,769.22	18,709.08

Note: Beginning with fiscal year 1986-87, Continuing Education is separated from the on-campus instruction. FYES is based upon 31 credit hours per year until 2001/02 when FYES began to be based upon 30 credit hours per year. Totals may not precisely equal sum of entries due to rounding error.

2004/05 reflects reorganization of departments within the various colleges. Please see the reorganization notes at end.

Source: Faculty Course Assignment Summary by Account - Full Year

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EASTERN MICHIGAN UNIVERSITY
ENROLLMENT BY DEPARTMENT - FISCAL YEAR
FULL-YEAR EQUATED STUDENT

COLLEGE OF ARTS & SCIENCES:	FY97/98	FY98/99	FY99/00	FY00/01	FY01/02	FY02/03	FY03/04	FY04/05	FY05/06
African-American Studies	105.23	94.19	88.17	88.56	95.44	90.08	83.28	74.10	71.42
Art	380.90	396.24	401.45	398.32	416.44	441.95	436.70	415.13	425.02
Biology	419.42	407.34	392.31	377.74	395.89	396.45	397.18	421.61	424.05
Chemistry	461.05	458.52	461.81	438.38	458.73	472.91	487.20	493.70	474.30
Communication & Theatre Art	964.88	1,023.65	1,055.61	1,092.50	1,143.26	1,108.51	1,084.43	1,033.76	1,020.08
Computer Science	452.05	495.04	504.83	466.54	454.56	427.25	372.97	297.23	309.48
Economics	363.54	342.02	334.53	350.68	373.32	366.05	377.79	330.35	337.46
English	1,579.37	1,610.66	1,694.84	1,698.92	1,780.58	1,806.31	1,800.19	1,734.49	1,559.07
Foreign Language	343.03	323.01	326.59	325.66	324.33	321.65	325.27	328.12	346.12
Geography & Geology	604.16	592.05	598.91	575.02	619.22	619.75	534.76	478.66	448.18
History & Philosophy	1,037.64	1,057.12	1,048.54	1,043.05	1,153.07	1,217.83	1,173.64	1,070.81	1,020.59
Mathematics	828.41	877.91	878.49	869.08	926.38	936.48	928.16	891.20	867.50
Music	291.14	285.27	296.62	289.66	300.11	295.11	286.48		
Music & Dance								324.60	325.40
Physics & Astronomy	341.30	351.40	360.74	333.30	364.01	400.98	409.37	385.35	370.57
Political Science	538.14	529.39	553.24	559.13	610.72	627.64	609.16	569.88	565.68
Psychology	806.61	734.61	742.46	754.31	801.91	774.15	746.22	682.58	715.08
Sociology	629.09	607.27	605.46	632.83	661.79	669.79	619.41	602.13	618.44
Women's Studies	53.10	70.68	78.73	91.17	91.88	87.75	85.83	97.78	95.83
Interdisciplinary Studies	---	13.16	11.52	14.13	11.50	6.40	13.00	15.53	17.28
TOTAL -	10,199.06	10,269.53	10,434.85	10,398.99	10,983.10	11,067.02	10,771.05	10,247.00	10,011.50

Note: Totals may not precisely equal sum of entries due to rounding error.
 FYES is based upon 31 credit hours per year until 2001/02 when FYES began to be based upon 30 credit hours per year.

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EASTERN MICHIGAN UNIVERSITY
ENROLLMENT BY DEPARTMENT - FISCAL YEAR
FULL-YEAR EQUATED STUDENT

COLLEGE OF BUSINESS	FY97/98	FY98/99	FY99/00	FY00/01	FY01/02	FY02/03	FY03/04	FY04/05	FY05/06
Accounting	529.89	511.12	451.38	456.22	643.29	683.24	664.78	634.65	633.79
Accounting & Finance Computer Info Sys.					426.45	325.81	266.96	242.39	225.49
Finance & Computer Info Sys.	458.17	472.02	461.20	541.17	526.14	573.53	530.18	489.77	467.78
Management	426.52	407.77	493.53	460.39	473.28	445.30	399.28	363.47	366.47
Marketing	<u>418.05</u>	<u>400.51</u>	<u>395.00</u>	409.10	<u>90.60</u>	<u>58.30</u>	<u>89.40</u>	<u>87.10</u>	<u>87.77</u>
Programs in Business Admin.				<u>82.55</u>					
TOTAL -	1,832.63	1,791.42	1,801.11	1,949.41	2,159.75	2,086.18	1,950.59	1,817.38	1,781.29

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Note: Totals may not precisely equal sum of entries due to rounding error.
FYES is based upon 31 credit hours per year until 2001/02 when FYES began to be based upon 30 credit hours per year.

EASTERN MICHIGAN UNIVERSITY
ENROLLMENT BY DEPARTMENT - FISCAL YEAR
FULL-YEAR EQUATED STUDENT

COLLEGE OF EDUCATION	FY97/98	FY98/99	FY99/00	FY00/01	FY01/02	FY02/03	FY03/04	FY04/05	FY05/06
HPER&D	682.83	689.76	695.83	683.50	742.74	780.39	806.53		
Leadership & Counseling	160.96	144.87	146.14	143.35	158.77	176.64	191.06	131.86	185.73
Special Education	408.83	413.08	411.08	438.49	437.39	472.89	492.25	477.36	495.98
COE-Office of Academic Serv.	298.45	320.65	307.16	328.07	378.60	399.17	436.90	418.67	431.77
Teacher Education	696.20	673.58	722.79	773.47	808.65	912.93	973.40	890.37	854.82
TOTAL -	2,247.27	2,241.94	2,283.00	2,366.89	2,526.14	2,742.02	2,900.15	1,918.25	1,968.31

Note: Totals may not precisely equal sum of entries due to rounding error.
 FYES is based upon 31 credit hours per year until 2001/02 when FYES began to be based upon 30 credit hours per year.

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EASTERN MICHIGAN UNIVERSITY
ENROLLMENT BY DEPARTMENT - FISCAL YEAR
FULL-YEAR EQUATED STUDENT

	<u>FY97/98</u>	<u>FY98/99</u>	<u>FY99/00</u>	<u>FY00/01</u>	<u>FY01/02</u>	<u>FY02/03</u>	<u>FY03/04</u>	<u>FY04/05</u>	<u>FY05/06</u>
<u>COLLEGE OF HEALTH AND HUMAN SERVICES</u>									
Assoc. Health Professions	244.83	218.70	192.87	182.80	167.76	152.28	134.42	168.16	232.91
School of Health Sciences								740.18	718.33
School of Hlth Promotion/Hlth Perf									
Human Envir. & Cons. Res.	167.04	172.86	184.05	168.70	189.36	213.70	226.99		
School of Nursing	144.45	136.83	131.07	133.27	133.95	138.16	148.85	168.23	172.61
School of Social Work	317.45	295.67	267.30	255.57	231.58	222.89	221.33	212.19	240.73
Gerontology	11.12	11.00	7.68	7.50	7.08	4.46	3.63	5.25	5.88
Interd. Hlth/Hum Serv.	<u>6.10</u>	<u>5.61</u>	<u>5.03</u>	<u>4.84</u>	<u>9.13</u>	<u>20.20</u>	<u>30.60</u>	<u>26.80</u>	<u>33.70</u>
TOTAL -	890.99	840.67	788.00	752.67	738.85	751.69	765.81	1,320.81	1,404.16

Note: Totals may not precisely equal sum of entries due to rounding error.
FYES is based upon 31 credit hours per year until 2001/02 when FYES began to be based upon 30 credit hours per year.

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EASTERN MICHIGAN UNIVERSITY
ENROLLMENT BY DEPARTMENT - FISCAL YEAR
FULL-YEAR EQUATED STUDENT

<u>COLLEGE OF TECHNOLOGY</u>	<u>FY97/98</u>	<u>FY98/99</u>	<u>FY99/00</u>	<u>FY00/01</u>	<u>FY01/02</u>	<u>FY02/03</u>	<u>FY03/04</u>	<u>FY04/05</u>	<u>FY05/06</u>
Business & Technology Ed.	189.52	158.29	137.07	149.64	187.29	181.12	182.15		
Industrial Technology	249.66	214.39	209.71	224.27	258.74	243.26	236.61		
Interdisciplinary Tech.	255.68	279.62	299.30	281.31	291.92	273.44	260.81		
School of Engineering Technology								301.15	297.63
School of Technology Studies								574.98	547.91
College of Technology Interdisc. Studies						1.20		6.71	12.59
College of Technology-Misc.							0.00		
TOTAL -	694.86	652.30	646.08	655.22	737.94	699.02	679.57	882.84	858.11

Note: Totals may not precisely equal sum of entries due to rounding error.
FYES is based upon 31 credit hours per year until 2001/02 when FYES began to be based upon 30 credit hours per year.

2004-05 Department Reorganization

College of Arts and Sciences

Music: became Music and Dance with the addition of Dance majors from HPER&D (Health, Physical Education and Dance) in the College of Education.

College of Business

No Changes.

College of Education

HPER&D: Dance was moved to Music and Dance in the College of Arts and Sciences.

All other majors were moved to the new School of Health Promotion & Human Performance in the College of Health & Human Services.

College of Health & Human Services

Associated Health Professions became the new School of Health Sciences.

Majors added to the School of Health Sciences were Dietetics, Human Nutrition from HECR (Human, Environmental, and Consumer Resources) and Therapeutic Recreation from HPER&D in the College of Education.

HECR: majors were moved to other departments: The Hotel & Restaurant Management and Apparel, Textile Merchandising majors were moved to the new Technology Studies in the College of Technology. The Interior Design major was moved to the new School of Engineering Technology in the College of Technology

College of Technology

The Business & Technology Education department was moved to the new School of Technology Studies.

The Interdisciplinary Technology department was moved to the new School of Technology Studies.

The Hotel & Restaurant Management and Apparel, Textile Merchandising majors were moved to the School of Technology Studies from HECR in the College of Health & Human Services.

Industrial Technology was moved to the new School of Engineering Technology

The Interior Design major was moved to the School of Engineering Technology from HECR in the College of Health & Human Services

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EASTERN MICHIGAN UNIVERSITY

CAPITAL OUTLAY REQUEST FY 2008

Facility Assessment

- Executive Summary
- Architectural Systems
- Mechanical Systems
- Electrical Systems (Buildings)
 - Elevator Systems
 - Life Safety Systems
- Electric Supply and Distribution Systems
 - Site Work and Drainage Systems
- Roads, Streets, and Parking Lots and Structures



**EASTERN MICHIGAN UNIVERSITY
CAPITAL OUTLAY REQUEST FY 2008
FACILITY ASSESSMENT**

EXECUTIVE SUMMARY

Facility assessment and care is an important and ongoing priority at Eastern Michigan University. The University facilities have an estimated replacement cost of over \$1 billion (see Table 1, General Fund Building Age/Replacement Report and Table 2, Auxiliary Building Age/Replacement Report). As such, the University recognizes the value and importance of facilities, both fiscally and programmatically, and is committed to preserving these valuable assets.

The University believes that physical assets should also be viewed as financial assets. Decisions to invest in these assets, or on rare occasion to liquidate them, should be made by determining the financial return on these investment decisions. Strategically identifying the optimum time(s) to invest in the maintenance/repair of an asset can significantly prolong its useful life and delay costly replacement.

A professional facilities assessment has been completed and is detailed in this report. Management of the facilities portfolio carries with it the stewardship responsibility to preserve the assets and maintain them in a condition that will allow the University to effectively carry out its mission. To achieve this, the University has developed a strategic plan for the preservation of campus buildings and associated infrastructure. The major barrier to full implementation is funding. Failure to fund however, does not save money or reduce cost for it is only by strategically investing in asset preservation that dollars can be saved and costs controlled.

Engaging the expertise of industry professionals, all buildings and their component systems and subsystems have been inspected and evaluated through site surveys, building audits, historical information, and data provided by the University's maintenance work-order system. This facility condition assessment is a dynamic process and reflects both ongoing devaluation and improvements as they take place. It is more than a snapshot initiative. The findings of the facility condition inspection program are used to:

- Provide a valid measure of building systems deficiencies (Tables 3-6)
- Evaluate whether the present condition of a building is acceptable (Table 7)
- Develop and recommend priorities for maintenance and asset preservation needs initiatives (Table 8)
- Appraise the effectiveness of existing predictive, preventive, and corrective maintenance programs
- Provide estimates of adequate funding needed for effective asset preservation
- Identify risk management, life safety, and code-compliance issues
- Increase early identification of potential system failures

After completion of a thorough facilities assessment, the data was compiled into a measurable format that allows decision-makers to evaluate the building's condition and the cost to address its

**EASTERN MICHIGAN UNIVERSITY
CAPITAL OUTLAY REQUEST FY 2008
FACILITY ASSESSMENT**

deficiencies. The results were broken into the following system categories: architectural, electrical, elevator, life safety, and mechanical. The buildings are also ranked, using the Table 3 parameters, to prioritize each project. Each building is also ranked by system category. The results as shown in Table 7 reflect that 55 percent of University buildings rank Good, 20 percent rank Fair, and 25 percent rank Poor. Major buildings included in the Poor category are as follows:

Mark Jefferson	30.7 percent of the Poor Category
Pray-Harrold	24.9 percent of the Poor Category
Strong	10.2 percent of the Poor Category

Pray-Harrold is the University's most heavily-used classroom building. Mark Jefferson and Strong are badly outdated and represent the core of the

University's busy Science Complex. The University is committed to improving the learning and science environment on campus.

**General Fund Building
Age/Replacement Report
Table 1**

Name	Floors	Sq./ft.	Date Built	Architectural	Mechanical	Electrical	2008 Building Replacement Value
Alexander	4	86,900	1980	1980	1998	1980	\$20,058,834.73
Boone Hall	3	45,210	1914	2000	2000	2000	\$10,435,672.24
Bowen	2	89,220	1955	1955	1955	1955	\$20,594,352.53
Briggs	1	9,500	1937	1990	1990	1990	\$2,192,853.05
Central Stores	1	10,140	1972	1972	1972	1972	\$2,340,582.09
Convocation Center	3	198,385	1998	1998	1998	1998	\$45,792,542.33
Cooper	2	12,150	1984	1984	1984	1984	\$2,804,543.63
Corporate Education Center**	2	37,200	1989	1989	1989	1989	\$9,580,689.57
Everett C. Marshall	3	70,324	2000	2000	2000	2000	\$16,232,652.40
Ford Hall	2	33,333	1929	1968	1968	1968	\$7,694,144.27
Greenhouse & Aquatic Biology	1	5,200	1998	1998	1998	1998	\$1,200,298.50
Halle Library	5	273,715	1998	1998	1998	1998	\$63,180,712.87
Heating Plant**	3	23,856	1951	1951	1951	1951	\$38,377,761.04
Hover***	2	11,021	1941	2002	2002	2002	\$3,550,253.95
John W. Porter	3	143,775	1966	1999	1999	1999	\$33,187,099.69
King	4	61,450	1939	1939	1939	1939	\$15,749,415.31
Kresge Center	1	12,606	1974	1974	1974	1974	\$2,909,800.58
Mark Jefferson**	5	180,802	1969	1969	1969	1969	\$60,241,709.34
McKenny Union	4	107,103	1931	1992	1992	1992	\$24,722,225.26
Oestrike Stadium**	1	1,312	1968	1968	1968	1968	\$1,596,273.57
Olds/Robb Center	5	180,631	1984	1984	1984	1984	\$41,694,446.21
Owen C.O.B**	5	126,000	1990	1990	1990	1990	\$35,175,329.33
Paint Research**	1	8,000	1987	1987	1987	1987	\$2,577,942.55
Pease	2	30,181	1914	1994	1994	1994	\$6,966,578.71
Physical Plant	1	25,300	1995	1995	1995	1995	\$5,839,913.90
Physical Plant Storage Garage	1	8,500	1995	1995	1995	1995	\$1,962,026.41
Pierce Hall	4	61,275	1948	1990	1990	1990	\$14,143,902.17
Pray Harrold	7	237,108	1967	1967	1967	1967	\$54,730,842.17
Quirk	2	58,205	1959	1959	1959	1959	\$13,435,264.39
Rackham	2	45,890	1938	1938	1938	1938	\$10,592,634.37
Roosevelt	2	75,639	1924	1973	1973	1973	\$17,459,495.98
Rynearson Stadium**	3	49,595	1968	1968	1968	1968	\$13,845,400.45
School House**	1	900	1905	1988	1988	1988	\$578,917.31
Sculpture Studio	1	4,648	1959	1959	1959	1959	\$1,072,882.21
Sherzer	3	35,253	1903	1990	1990	1990	\$8,137,331.43
Sill Hall	2	92,635	1965	1965	1965	1965	\$21,382,625.49
Snow**	2	30,035	1959	1959	1959	1959	\$9,920,527.13
Starkweather Hall	2	8,706	1896	1996	1991	1991	\$2,009,576.69
Strong	3	80,713	1957	1957	1957	1957	\$18,630,710.32
Student Union	3	176,000	2006	2006	2006	2006	\$36,446,080.00
Team Building	1	13,536	1995	1995	1995	1995	\$3,124,469.35
University House	2	10,700	2003	2003	2003	2003	\$2,961,552.62
Warner	2	95,349	1964	1964	1964	1964	\$22,009,088.99
Welch Hall	4	36,840	1896	1986	1986	1986	\$8,503,653.30
West Cross Street, 611	2	4050	1970	1970	1970	1970	\$934,847.88
							\$0.00
TOTAL		2,908,891					\$736,578,456.31
					Average Cost/sq. ft. =		\$253.22

Average Year Built 1961
Average Building Age (Years) 45

Average Year Built Weighted by Sq. Ft. 1970 1981 1982 1981
Average Age Weighted by Sq. Ft. (Years) 36 25 24 25
Average Architectural, Elect., Mech. (Years) 24.7

** Indicates unique Building Replacement Costs

***Recent Major Renovation/Addition

Note:

Replacement costs reflect the cost to replace a building with "like-kind" systems. They do not include system upgrades to deliver more sophisticated curriculum or the "soft costs" and staging/phasing costs.

**Auxiliary Fund Building
Age/Replacement Report
Table 2**

Name	Floors	SQ/Ft	Date Built	Architectural	Mechanical	Electrical	2008 Building Replacement Value
Best Hall	5	68,516	1965	1965	1965	1965	\$11,347,986.27
Brown Hall	5	87,872	1940	1940	1940	1940	\$14,553,829.79
Buell Hall	5	73,352	1957	1957	1957	1957	\$12,148,949.89
Cornell Courts-3 units	2	28,344	1966	1966	1966	1966	\$4,694,484.15
Cornell Courts-6 units	2	56,728	1960	1960	1960	1960	\$9,428,719.51
Dining Commons 1	2	49,276	1957	1957	1957	1957	\$8,161,354.14
Dining Commons 2	2	68,635	1967	1967	1967	1967	\$11,367,695.82
Dining Commons 3	2	46,990	1969	1969	1969	1969	\$7,782,734.53
Downing Hall	5	73,821	1957	1957	1957	1957	\$12,226,628.16
600 W. Forest (Pres.)	2	5,580	1949	1949	1949	1949	\$781,751.03
601 W. Forest	2	2,775	1919	1980	1980	1980	\$434,565.00
Goddard Hall	5	75,856	1955	1955	1955	1955	\$12,563,676.01
Hill Hall**	11	94,944	1969	1969	1969	1969	\$18,749,196.50
Hoyt Hall**	11	94,944	1969	1969	1969	1969	\$18,749,196.50
Jones Hall	5	70,491	1948	1948	1948	1948	\$11,675,096.31
Lake House	1	3,380	1994	1994	1994	1994	\$559,813.96
Munson	4	49,264	1940	1940	1940	1940	\$8,159,366.35
Phelps Hall	5	56,722	1966	1966	1966	1966	\$9,394,600.80
Pittman Hall**	11	94,944	1969	1969	1969	1969	\$18,144,383.87
Putnam Hall	5	56,722	1968	1968	1968	1968	\$9,394,600.80
Sellers	5	56,722	1966	1966	1966	1966	\$9,394,600.80
Softball Concessions	1	1,050	2005	2005	2005	2005	\$164,430.00
526 St. Johns	3	1,434	1920	1920	2001	1988	\$224,564.00
The Village**	3	113,060	2001	2001	2001	2001	\$16,997,084.34
Winton Hall	5	56,722	1968	1968	1968	1968	\$9,394,600.80
Westview-17 units	2	76,415	1969	1969	1969	1969	\$12,656,260.39
Westview-7 units	2	31,465	1967	1967	1967	1967	\$5,211,401.55
Wise Hall	5	66,963	1963	1963	1963	1963	\$11,090,769.34
TOTAL		1,562,987					\$265,452,340.61
						Average Cost/Sq. ft. =	\$169.84

Average Year Built 1962
Average Building Age 44

Average Year Built Weighted by Sq. Ft. 1964 1964 1964 1964
Average Age Weighted by Sq. Ft. (Years) 42 42 42 42
Average Architectural, Elec, Mech. (Years) 42

** Indicates unique Building Replacement Costs

**EASTERN MICHIGAN UNIVERSITY
CAPITAL OUTLAY REQUEST FY 2008
FACILITY ASSESSMENT**

Building Deficiencies Priorities by Category
Table 3

I. Consequences of the Problem

1. Hazards: Presents hazards to life, health or safety
2. Interruption: Potential for interruption of essential services
3. Deterioration: Conditions causing premature deterioration of property
4. Utility: Conditions that reduce the functional utility of facilities
5. Energy: Conditions that result in excessive consumption of energy

II. Need

1. Critical: If not accomplished, will result in serious and irrevocable loss or damage
2. Urgent: If not accomplished, will shortly deteriorate into a Category 1 position
3. Necessary: If not accomplished, may jeopardize the continued usefulness of the facility
4. Desirable: All other projects necessary to renew or restore the facility
5. A.D.A.: Project necessary to improve/meet handicap accessibility needs

III. Frequency of Use

1. Constant: Such as hospitals, prisons, police posts, etc.
2. Frequent: Offices, dormitories, etc.
3. Occasional: Classrooms, laboratories, etc.
4. Infrequent: Arenas, auditoriums, storage, etc.
5. Meager: Dead storage; To be repaired only if scheduled for retention and possible re-use (Do not include unused buildings or those which are scheduled to be vacated, abandoned, or demolished)

General Fund Building Deficiencies By System And Priority
Table 4

General Fund Building Deficiency Cost Summary By System

	<u>Architectural</u>	<u>Electrical</u>	<u>Elevators</u>	<u>Life Safety</u>	<u>Mechanical</u>	<u>Total</u>
General Fund Buildings	\$20,808,305	\$7,431,435	\$1,262,500	\$1,638,500	\$19,952,980	\$ 51,093,720

General Fund Building Deficiencies Cost Summary By Priority

	<u>3 - 6</u>	<u>7 - 8</u>	<u>9 - 10</u>	<u>11</u>	<u>12 and above</u>	<u>Total</u>
Table 3 Point Rating System						
Total Campus Deficiencies Including Sitework, Drains, & Utility Infrastructure	\$6,000	\$1,728,113	\$34,523,798	\$11,797,592	\$3,545,609	\$51,601,112
Total Deficiencies Excluding Sitework, Drains, & Utility Infrastructure	\$0	\$1,663,113	\$34,159,406	\$11,797,592	\$3,473,609	\$51,093,720

General Fund Building Deficiency Cost Summary By System
Table 4a

<u>Building</u>	<u>Architectural</u>	<u>Electrical</u>	<u>Elevators</u>	<u>Life Safety</u>	<u>Mechanical</u>	<u>Grand Total</u>
611 W. Cross Street	\$45,000	\$10,000	\$0	\$0	\$41,500	\$96,500
Alexander	271,000	145,000	20,000	95,000	564,000	\$1,095,000
Boone	0	10,000	50,000	0	50,000	\$110,000
Bowen	433,609	211,000	40,000	100,000	793,392	\$1,578,001
Briggs	174,000	115,000	0	0	36,000	\$325,000
Campus Buildings	1,135,000	343,716	249,500	225,000	2,270,547	\$4,223,763
Central Stores	155,000	0	0	10,000	7,000	\$172,000
Convocation Center	65,000	18,500	20,000	10,000	158,500	\$272,000
Cooper Building	228,500	0	30,000	50,000	115,000	\$423,500
Coral Sub	0	0	0	0	0	\$0
Ford Hall	201,000	272,000	0	0	376,500	\$849,500
Halle Library	216,000	0	50,000	0	210,000	\$476,000
Heating Plant	146,000	1,344,000	0	0	365,000	\$1,855,000
Hover	22,000	30,000	22,000	0	16,070	\$90,070
King	30,000	0	20,000	50,000	50,000	\$150,000
Kresge Center	41,000	0	0	0	41,000	\$82,000
Mark Jefferson	3,515,616	693,000	0	0	4,461,300	\$8,669,916
Marshall	20,000	3,000	15,000	0	0	\$38,000
Mckenny Union	1,978,164	1,006,219	116,000	225,000	2,276,424	\$5,601,807
Oestrike Stadium	95,000	0	0	0	0	\$95,000
Olds\Robb Center	356,000	30,000	40,000	55,000	521,000	\$1,002,000
Owen	505,500	250,000	95,000	0	216,500	\$1,067,000
Paint Research	132,500	10,000	0	0	35,000	\$177,500
Pease	96,563	168,000	5,000	0	15,000	\$284,563
Phys Plant Storage	49,000	0	0	0	36,000	\$85,000
Physical Plant	0	0	0	0	5,000	\$5,000
Pierce Hall	253,000	154,000	55,000	0	287,000	\$749,000
Porter	31,000	0	5,000	0	50,000	\$86,000
Pray Harrold	4,023,000	708,000	10,000	200,000	2,072,000	\$7,013,000
Quirk	293,200	130,000	15,000	0	133,000	\$571,200
Rackham	938,329	199,000	165,000	0	392,235	\$1,694,564
Roosevelt	835,024	138,000	10,000	125,000	354,000	\$1,462,024
Rynearson Football	452,000	95,000	10,000	54,000	65,000	\$676,000
School House	20,000	0	0	0	0	\$20,000
Sculpture Studio	140,000	45,000	0	30,000	25,000	\$240,000
Sherzer	152,000	195,000	14,000	47,500	201,000	\$609,500
Sill Hall	758,800	332,000	11,000	130,000	260,000	\$1,491,800
Snow	337,500	203,000	0	55,000	308,000	\$903,500
Starkweather Hall	267,000	10,000	150,000	20,000	84,000	\$531,000
Strong	938,000	161,000	0	110,000	1,657,120	\$2,866,120
Student Center	0	0	0	0	0	\$0
Team Building	51,000	0	0	5,000	10,000	\$66,000
Tunnels	488,000	0	0	12,000	281,000	\$781,000
University House	0	0	0	0	0	\$0
Warner	835,000	271,000	0	30,000	1,009,892	\$2,145,892
Welch Hall	84,000	131,000	45,000	0	103,000	\$363,000
Total Building Deficiencies	\$20,808,305	\$7,431,435	\$1,262,500	\$1,638,500	\$19,952,980	\$51,093,720

General Fund Building Deficiency Cost Summary By Priority
Table 4b

	<u>3 - 6 Totals</u>	<u>7 - 8 Totals</u>	<u>9 - 10 Totals</u>	<u>11 Totals</u>	<u>12 or Greater</u>	<u>Grand Totals</u>
611 W. Cross Street	\$0	\$5,000	\$91,500	\$0	\$0	\$96,500
Alexander	0	0	432,000	518,000	145,000	\$1,095,000
Boone	0	0	70,000	30,000	10,000	\$110,000
Bowen	0	0	360,392	1,018,000	199,609	\$1,578,001
Briggs	0	0	61,000	138,000	126,000	\$325,000
Campus Buildings	0	568,500	3,727,655	125,000	127,000	\$4,548,155
Central Stores	0	0	58,000	16,000	98,000	\$172,000
Convocation Center	0	0	78,500	183,500	10,000	\$272,000
Cooper Building	0	0	308,500	115,000	0	\$423,500
Coral Sub	0	0	0	0	0	\$0
Ford Hall	0	0	330,000	261,500	258,000	\$849,500
Halle Library	0	20,000	476,000	0	0	\$496,000
Heating Plant	0	435,000	1,420,000	0	0	\$1,855,000
Hover	0	0	60,070	30,000	0	\$90,070
King	0	5,000	145,000	0	0	\$150,000
Kresge Center	0	0	41,000	41,000	0	\$82,000
Mark Jefferson	0	0	7,297,916	1,372,000	0	\$8,669,916
Marshall	0	0	15,000	20,000	3,000	\$38,000
Mckenny Union	0	75,613	5,320,194	206,000	0	\$5,601,807
Oestrike Stadium	0	0	0	15,000	80,000	\$95,000
Olds\Robb Center	0	0	160,000	536,000	306,000	\$1,002,000
One Roome School House	0	0	0	0	20,000	\$20,000
Owen	0	0	736,500	345,500	0	\$1,082,000
Paint Research	0	0	111,500	56,000	10,000	\$177,500
Pease	0	0	0	51,563	233,000	\$284,563
Phys Plant Storage	0	0	24,000	61,000	0	\$85,000
Physical Plant	0	0	5,000	0	0	\$5,000
Pierce Hall	0	286,000	441,000	22,000	0	\$749,000
Porter	0	0	5,000	81,000	0	\$86,000
Pray Harrold	0	85,000	5,219,000	1,709,000	0	\$7,013,000
Quirk	0	0	321,000	120,200	130,000	\$571,200
Rackham	0	0	661,235	834,329	199,000	\$1,694,564
Roosevelt	6,000	0	724,024	600,000	138,000	\$1,468,024
Rynearson Football	0	0	75,000	299,000	324,000	\$698,000
Sculpture Studio	0	0	100,000	140,000	0	\$240,000
Sherzer	0	30,000	297,500	87,000	195,000	\$609,500
Sill Hall	0	0	595,800	599,000	297,000	\$1,491,800
Snow	0	0	500,500	183,000	220,000	\$903,500
Starkweather Hall	0	0	471,000	60,000	0	\$531,000
Strong	0	0	1,987,120	718,000	161,000	\$2,866,120
Team Building	0	0	10,000	6,000	50,000	\$66,000
Tunnels	0	218,000	683,000	0	0	\$901,000
University House	0	0	0	0	0	\$0
Warner	0	0	927,892	1,012,000	206,000	\$2,145,892
Welch Hall	0	0	175,000	188,000	0	\$363,000
Total Campus Deficiencies	\$6,000	\$1,728,113	\$34,523,798	\$11,797,592	\$3,545,609	\$51,601,112

Memo:

Less: Sitework, Drain, And Utility Infrastructure	6,000.00	65,000.00	364,392.00	0.00	72,000.00	507,392.00
Total Excl. S,D & UI	0	1,663,113	34,159,406	11,797,592	3,473,609	51,093,720

Total System Deficiencies By Building Age
Table 5

<u>Building Name</u>	<u>Building Sq. Ft.</u>	<u>Date Built/ Number</u>	<u>2008 Building Replacement Value</u>	<u>Anticipated 2008 Backlog Deficiency</u>	<u>Facility Condition Index</u>
<u>Before 1900</u>					
Starkweather Hall	8,706	1896	\$ 2,009,576.69	\$ 531,000.00	0.2642
Welch Hall	36,840	1896	8,503,653.30	363,000.00	0.0427
Total	45,546	2	\$ 10,513,229.99	\$ 894,000.00	
<u>1900-1949</u>					
Sherzer	35,253	1903	\$ 8,137,331.43	\$ 609,500.00	0.0749
School House	900	1905	578,917.31	20,000.00	0.0345
Boone	45,210	1914	10,435,672.24	110,000.00	0.0105
Pease	30,181	1914	6,966,578.71	284,563.00	0.0408
Roosevelt	75,639	1924	17,459,495.98	1,462,024.00	0.0837
Ford Hall	33,333	1929	7,694,144.27	849,500.00	0.1104
Mckenny Union	107,103	1931	24,722,225.26	5,601,807.00	0.2266
Briggs	9,500	1937	2,192,853.05	325,000.00	0.1482
Rackham	45,890	1938	10,592,634.37	1,694,564.00	0.1600
King	61,450	1939	15,749,415.31	150,000.00	0.0095
Pierce Hall	61,275	1948	14,143,902.17	749,000.00	0.0530
Total	505,734	11	\$ 118,673,170.10	\$ 11,855,958.00	
<u>1950-1969</u>					
Heating Plant	23,856	1951	\$ 38,377,761.04	\$ 1,855,000.00	0.0483
Bowen	89,220	1955	20,594,352.53	1,578,001.00	0.0766
Strong	80,713	1957	18,630,710.32	2,866,120.00	0.1538
Quirk	58,205	1959	13,435,264.39	571,200.00	0.0425
Sculpture Studio	4,648	1959	1,072,882.21	240,000.00	0.2237
Snow	30,035	1959	9,920,527.13	903,500.00	0.0911
Warner	95,349	1964	22,009,088.99	2,145,892.00	0.0975
Sill Hall	92,635	1965	21,382,625.49	1,491,800.00	0.0698
John W. Porter	143,775	1966	33,187,099.69	86,000.00	0.0026
Pray Harrold	237,108	1967	54,730,842.17	7,013,000.00	0.1281
Oestrike Stadium	1,312	1968	1,596,273.57	95,000.00	0.0595
Rynearson Football Stadium	49,595	1968	13,845,400.45	676,000.00	0.0488
Mark Jefferson	180,802	1969	60,241,709.34	8,669,916.00	0.1439
Total	1,087,253	13	\$ 309,024,537.32	\$ 28,191,429.00	
<u>1970-1979</u>					
West Cross Street, 611	4,050	1970	\$ 934,847.88	\$ 96,500.00	0.1032
Central Stores	10,140	1972	2,340,582.09	172,000.00	0.0735
Kresge Center	12,606	1974	2,909,800.58	82,000.00	0.0282
Total	26,796	3	\$ 6,185,230.55	\$ 350,500.00	
<u>1980-1989</u>					
Alexander	86,900	1980	\$ 20,058,834.73	\$ 1,095,000.00	0.0546
Cooper Building	12,150	1984	2,804,543.63	423,500.00	0.1510
Olds/Robb Center	180,631	1984	41,694,446.21	1,002,000.00	0.0240
Paint Research	8,000	1987	2,577,942.55	177,500.00	0.0689
Corporate Education Center	37,200	1989	9,580,689.57	0.00	0.0000
Total	324,881	5	\$ 76,716,456.69	\$ 2,698,000.00	
<u>1990-1999</u>					
Owen C.O.B.	126,000	1990	\$ 35,175,329.33	\$ 1,067,000.00	0.0303
Physical Plant	25,300	1995	5,839,913.90	5,000.00	0.0009
Physical Plant Storage	8,500	1995	1,962,026.41	85,000.00	0.0433
Team Building	13,536	1995	3,124,469.35	66,000.00	0.0211
Convocation Center	198,385	1998	45,792,542.33	272,000.00	0.0059
Greenhouse & Aquatic	5,200	1998	1,200,298.50	0.00	0.0000
Halle Library	273,715	1998	63,180,712.87	476,000.00	0.0075
Total	650,636	7	\$ 156,275,292.69	\$ 1,971,000.00	
<u>Post 2000</u>					
Everett C. Marshall	70,324	2000	\$ 16,232,652.40	\$ 38,000.00	0.0023
Hover	11,021	1941/2002	3,550,253.95	90,070.00	0.0254
University House	10,700	2003	2,961,552.62	0.00	0.0000
Student Union	176,000	2006	36,446,080.00	0.00	
Total	268,045	4	\$ 59,190,538.97	\$ 128,070.00	
<u>Sitework, Drains, & Infrastructure</u>					
Campus Buildings	n/a	n/a	n/a	\$ 4,223,763.00	
Coral Sub	n/a	n/a	n/a	0.00	
Tunnels	n/a	n/a	n/a	781,000.00	
Total	n/a	n/a	n/a	\$ 5,004,763.00	
Total Building Deficiencies					
	2,908,891	45	\$ 736,578,456.31	\$ 51,093,720.00	

Memo:
Average Cost Per Sq. Ft. \$ 253.00

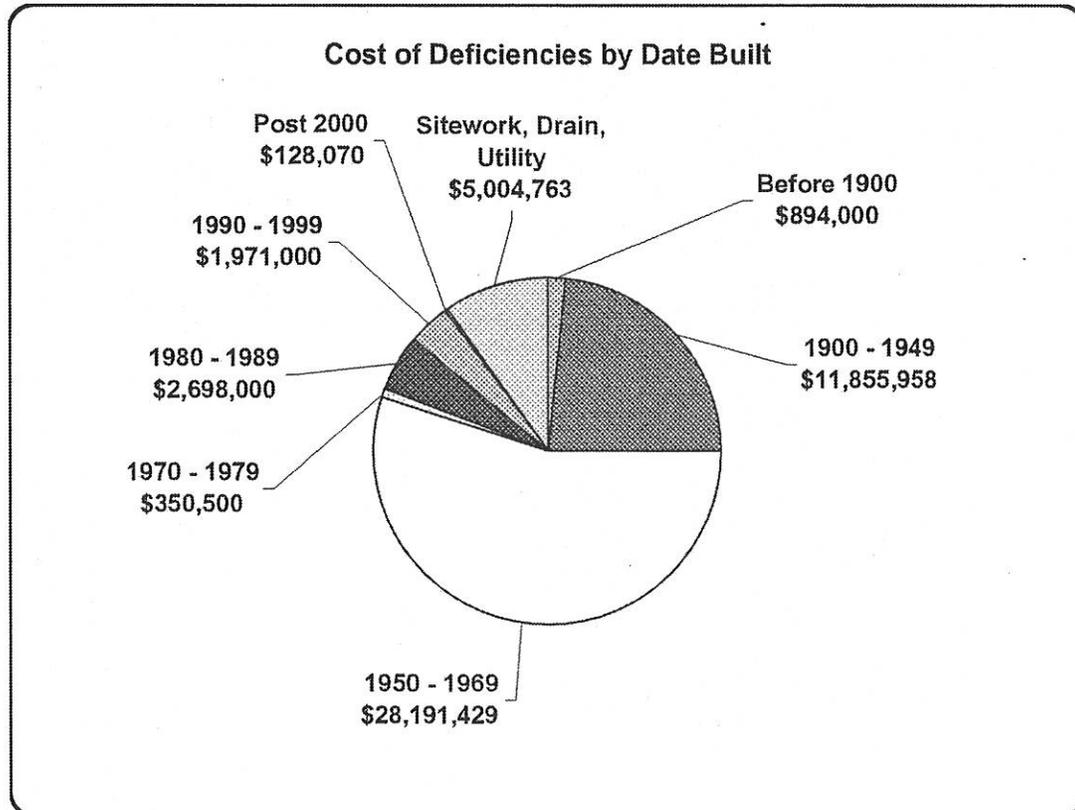
Building System Deficiencies by Age
Table 6

General Fund Building Profile Data

Total number of General Fund Facilities	45
Current Replacement Value	\$736,578,456
Total Gross Sq. ft.	2,908,891
Total Cost of General Fund Building Deficiencies (to date)	\$51,093,720

General Fund Building Age Summary

Date Built	No. of Facilities	Gross Sq. Ft.	Cost of Deficiencies
Before 1900	2	45,546	\$894,000
1900 - 1949	11	505,734	\$11,855,958
1950 - 1969	13	1,087,253	\$28,191,429
1970 - 1979	3	26,796	\$350,500
1980 - 1989	5	324,881	\$2,698,000
1990 - 1999	7	650,636	\$1,971,000
Post 2000	4	268,045	\$128,070
Sitework, Drain, Utility	n/a	n/a	\$5,004,763



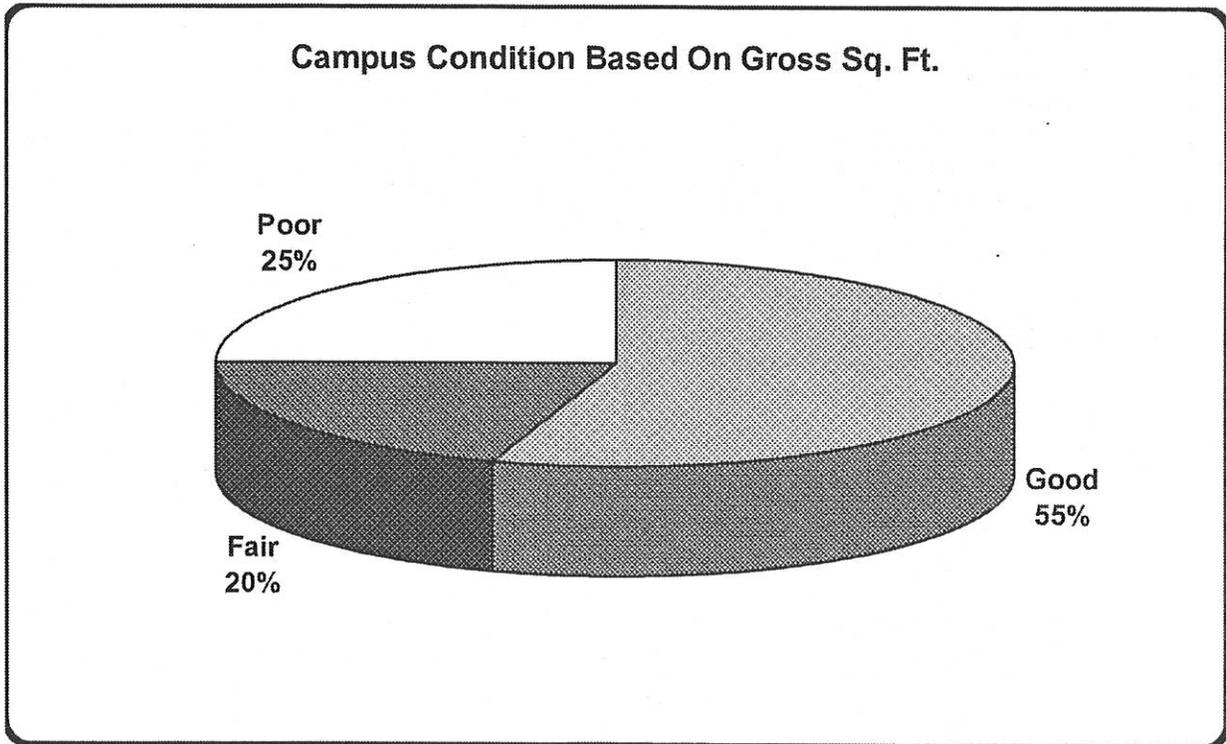
Facility Condition Index (FCI)
Table 7

General Fund Facility Condition Index

Facility Condition Index =	$\frac{\text{Backlog Deficiency}}{\text{Current Replacement Value}}$	=	$\frac{\$51,093,720}{\$736,578,456}$
Facility Condition Index (All Facilities) = 0.07			

General Fund Facility Condition Index Summary

	Facility Condition Index		
	Good (Under .05)	Fair (.05 - .10)	Poor (Over .10)
Number of Facilities	23	11	11
Gross Square ft.	1,599,130	589,808	719,953
Percentage of Campus Gross Sq. ft.	55%	20%	25%



Facility Condition Index (FCI) By Building
Table 8

Building Name	Building Sq. Ft.	Date Built/ Number	2008 Building Replacement Value	Building Deficiencies (All Systems)	Facility Condition Index
Good (Under .05)					
Student Union	176,000	2006	\$ 36,446,080.00	\$ -	
University House	10,700	2003	2,961,552.62	0.00	0.0000
Corporate Education Center	37,200	1989	9,580,689.57	0.00	0.0000
Greenhouse & Aquatic	5,200	1998	1,200,298.50	0.00	0.0000
Physical Plant	25,300	1995	5,839,913.90	5,000.00	0.0009
Everett C. Marshall	70,324	2000	16,232,652.40	38,000.00	0.0023
John W. Porter	143,775	1966	33,187,099.69	86,000.00	0.0026
Convocation Center	198,385	1998	45,792,542.33	272,000.00	0.0059
Halle Library	273,715	1998	63,180,712.87	476,000.00	0.0075
King	61,450	1939	15,749,415.31	150,000.00	0.0095
Boone	45,210	1914	10,435,672.24	110,000.00	0.0105
Team Building	13,536	1995	3,124,469.35	66,000.00	0.0211
Olds\Robb Center	180,631	1984	41,694,446.21	1,002,000.00	0.0240
Hover	11,021	1941/2002	3,550,253.95	90,070.00	0.0254
Kresge Center	12,606	1974	2,909,800.58	82,000.00	0.0282
Owen C.O.B.	126,000	1990	35,175,329.33	1,067,000.00	0.0303
School House	900	1905	578,917.31	20,000.00	0.0345
Pease	30,181	1914	6,966,578.71	284,563.00	0.0408
Quirk	58,205	1959	13,435,264.39	571,200.00	0.0425
Welch Hall	36,840	1896	8,503,653.30	363,000.00	0.0427
Physical Plant Storage	8,500	1995	1,962,026.41	85,000.00	0.0433
Heating Plant	23,856	1951	38,377,761.04	1,855,000.00	0.0483
Rynearson Football Stadium	49,595	1968	13,845,400.45	676,000.00	0.0488
Total	1,599,130	23	\$ 410,730,530.46	\$ 7,298,833.00	
Fair (.05 -.10)					
Pierce Hall	61,275	1948	14,143,902.17	749,000.00	0.0530
Alexander	86,900	1980	20,058,834.73	1,095,000.00	0.0546
Oestrike Stadium	1,312	1968	1,596,273.57	95,000.00	0.0595
Paint Research	8,000	1987	2,577,942.55	177,500.00	0.0689
Sill Hall	92,635	1965	\$ 21,382,625.49	\$ 1,491,800.00	0.0698
Central Stores	10,140	1972	2,340,582.09	172,000.00	0.0735
Sherzer	35,253	1903	8,137,331.43	609,500.00	0.0749
Bowen	89,220	1955	20,594,352.53	1,578,001.00	0.0766
Roosevelt	75,639	1924	17,459,495.98	1,462,024.00	0.0837
Snow	30,035	1959	\$ 9,920,527.13	\$ 903,500.00	0.0911
Warner	95,349	1964	22,009,088.99	2,145,892.00	0.0975
Total	589,808	11	\$ 141,155,804.54	\$ 10,575,717.00	
Poor (Over .10)					
West Cross Street, 611	4,050	1970	934,847.88	96,500.00	0.1032
Ford Hall	33,333	1929	7,694,144.27	849,500.00	0.1104
Pray Harrold	237,108	1967	54,730,842.17	7,013,000.00	0.1281
Mark Jefferson	180,802	1969	60,241,709.34	8,669,916.00	0.1439
Briggs	9,500	1937	2,192,853.05	325,000.00	0.1482
Cooper Building	12,150	1984	2,804,543.63	423,500.00	0.1510
Strong	80,713	1957	18,630,710.32	2,866,120.00	0.1538
Rackham	45,890	1938	10,592,634.37	1,694,564.00	0.1600
Sculpture Studio	4,648	1959	1,072,882.21	240,000.00	0.2237
Mckenny Union	107,103	1931	24,722,225.26	5,601,807.00	0.2266
Starkweather Hall	8,706	1896	2,009,576.69	531,000.00	0.2642
Total	719,953	11	\$ 184,692,121.31	\$ 28,214,407.00	
Sitework, Drains, Utilities I/F					
Campus Buildings	n/a	n/a	n/a	\$ 4,223,763.00	
Coral Sub	n/a	n/a	n/a	0.00	
Tunnels	n/a	n/a	n/a	781,000.00	
Total	n/a	n/a	n/a	\$ 5,004,763.00	
Total Building Deficiencies	2,908,891	45	\$ 736,578,456.31	\$ 51,093,720.00	0.0694

Memo:

Average Cost Per Sq. Ft.

\$ 253.00

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MANDATED FACILITY STANDARDS
TABLE 9

STANDARD	ALL BUILDINGS	PRAY-HARROLD MODERNIZATION	MARK JEFFERSON SCIENCE BUILDING RENEWAL	STRONG HALL RENOVATION
Air Contaminants	X	X	X	X
Americans with Disabilities	X	X	X	X
Asbestos	X-especially older buildings	X	X	X
Backflow Prevention	X	X	X	X
Blood borne Pathogens				
Building Codes:				
Construction		X	X	X
Mechanical	X	X	X	X
Plumbing	X	X	X	X
Demolition		X	X	X
National Electric	X	X	X	X
Construction involving gas	X-only buildings with natural gas			
Elevators	X	X	X	X
Confined Space entry	X	X	X	X
DEQ Air Quality	X	X	X	X
DEQ Hazardous Waste Regulations	X-only buildings with hazardous materials			
DEQ Universal Waste Regulations	X	X	X	X
DEQ Water Quality	X			
Design Safety Standards for Electrical Systems	X	X	X	X
Fire exits, fire extinguishers, fixed fire equipment, fire alarm testing	X	X	X	X
Flammable and combustible liquids	X-only buildings using these chemicals			
Formaldehyde				
Illumination	X	X	X	X
Laboratory Safety	X-only buildings with laboratories			
Lasers	X-only buildings with laser equipment			
Lead	X-especially older buildings	X	X	X
Life Safety Code	X	X	X	X
MIOSHA General rules	X	X	X	X
Refuse packer units				
Right-To-Know	X-only buildings w/ compactors	X	X	X
USDA/NIH and MI Dept. Of Agriculture rules for animal facilities				
Ventilation Control	X	X	X	X
Ventilation Control for specific processes				

MANDATED FACILITY REGULATIONS
TABLE 10

REGULATIONS	ALL BUILDINGS	PRAY-HARROLD MODERNIZATION	NEW SCIENCE BUILDING	RENOVATION OF MARK JEFFERSON AND STRONG
BOCA National Building Code	X	X	X	X
Gas and Vacuum Systems NFPA 99			X	X
Dept. Of Environmental Quality Hazardous Waste and Universal Waste Regulations	X	X	X	X
Life Safety Code NFPA 101	X	X	X	X
Michigan Dept. Of Labor & Economic Growth Safety and Health Standards	X	X	X	X
Asbestos	X-older buildings	X	X	X
Lead	X-older buildings	X	X	X
Laboratory Safety	X-laboratory buildings	X	X	X
Air Contaminants	X		X	X
Ventilation Controls	X		X	X
National Electrical Code - NFPA 70	X	X	X	X
National Fire Alarm Code - NFPA 72	X	X	X	X
State of Michigan Building Code	X	X	X	X
State of Michigan Dormitory Fire Safety Rules for Colleges and Universities	X-Residential Facilities			
State of Michigan Elevator Code	X	X	X	X
State of Michigan Fire Safety Rules for Colleges and Universities	X	X	X	X
State of Michigan Mechanical Code	X	X	X	X
State of Michigan Plumbing Code	X	X	X	X
Sprinkler Systems - NFPA 13	X	X	X	X
Uniform Federal Accessibility - ADA	X	X	X	X
USDA/NIH & MI Dept. Of Ag. Rules for animal facilities			X	X

**EASTERN MICHIGAN UNIVERSITY
CAPITAL OUTLAY REQUEST FY 2008
FACILITY ASSESSMENT**

ARCHITECTURAL SYSTEMS

Overview:

Architectural systems are primary building systems and components such as foundations, substructure, superstructure and building envelope. Secondary “exterior” systems include roofing, siding, glass, glazing, windows, exterior doors, flashings, painting and caulking. Secondary “interior” systems include interior partitions, doors, walls, wall finishes, floors, floor finishes, ceilings and ceiling finishes. Maintaining integrity in the primary systems is fundamental to long-term preservation of a building. Architectural systems not only protect the more sensitive mechanical and electrical systems but also reflect on the image of the owner and the quality of the activities and programs performed within the building.

System Condition and Adequacy:

The average age of the general fund buildings architectural systems is 25 years. The oldest systems date back to 1896 and include Starkweather and Welch Halls. Both buildings, however, have been restored several times since their construction. Every campus building more than 20 years old has had major roofing repairs or new roofing at least once. All but the newest buildings have some building envelope deficiencies. Deficiencies in buildings renovated or newly constructed since 1990 are limited primarily to interior walls, doors, floors and finishes. Of particular note is the Mark Jefferson building envelope, which is nearing the end of its useful life and is experiencing accelerated deterioration. Renovation of this building continues to be a critical need of the University. The Pray-Harrold classroom building also has serious deficiencies in all of its secondary systems, both interior and exterior. Pray-Harrold and Mark Jefferson have architectural system deficiencies totaling in excess of \$7.5 million.

Since 2001 the University has spent nearly \$2.8 million preserving the architectural assets of campus facilities. EMU’s future investments in the architectural systems of campus buildings are detailed in the 2008-2012 Asset Preservation Listing within the Implementation Plan later in this document.

Improvements Completed:

Recent Architectural System improvements on campus include, but are not limited to the following:

Pray-Harrold South Entrances (2) Replaced	Completed July 2004
Ford Hall Window Replacement	Completed April 2005
Heating Plant Partial Re-roof	Completed June 2006
Sill Hall Partial Re-roof	Completed August of 2006
Alexander 2 nd Floor Ceiling Tile Replaced	Completed September 2006

Architectural System Deficiencies By Building

Table 11

<u>Building Name</u>	<u>Building Sq. Ft.</u>	<u>Date Built/ Number</u>	<u>2008 Building Replacement Value</u>	<u>Architectural System Deficiencies</u>
Before 1900				
Starkweather Hall	8,706	1896	\$ 2,009,576.69	\$ 267,000.00
Welch Hall	36,840	1896	8,503,653.30	84,000.00
Total	45,546	2	\$ 10,513,229.99	\$ 351,000.00
1900-1949				
Sherzer	35,253	1903	\$ 8,137,331.43	\$ 152,000.00
School House	900	1905	578,917.31	20,000.00
Boone	45,210	1914	10,435,672.24	0.00
Pease	30,181	1914	6,966,578.71	96,563.00
Roosevelt	75,639	1924	17,459,495.98	835,024.00
Ford Hall	33,333	1929	7,694,144.27	201,000.00
Mckenny Union	107,103	1931	24,722,225.26	1,978,164.00
Briggs	9,500	1937	2,192,853.05	174,000.00
Rackham	45,890	1938	10,592,634.37	938,329.00
King	61,450	1939	15,749,415.31	30,000.00
Pierce Hall	61,275	1948	14,143,902.17	253,000.00
Total	505,734	11	\$ 118,673,170.10	\$ 4,678,080.00
1950-1969				
Heating Plant	23,856	1951	\$ 38,377,761.04	\$ 146,000.00
Bowen	89,220	1955	20,594,352.53	433,609.00
Strong	80,713	1957	18,630,710.32	938,000.00
Quirk	58,205	1959	13,435,264.39	293,200.00
Sculpture Studio	4,648	1959	1,072,882.21	140,000.00
Snow	30,035	1959	9,920,527.13	337,500.00
Warner	95,349	1964	22,009,088.99	835,000.00
Sill Hall	92,635	1965	21,382,625.49	758,800.00
John W. Porter	143,775	1966	33,187,099.69	31,000.00
Pray Harrold	237,108	1967	54,730,842.17	4,023,000.00
Oestrike Stadium	1,312	1968	1,596,273.57	95,000.00
Rynearson Football Stadium	49,595	1968	13,845,400.45	452,000.00
Mark Jefferson	180,802	1969	60,241,709.34	3,515,616.00
Total	1,087,253	13	\$ 309,024,537.32	\$ 11,998,725.00
1970-1979				
West Cross Street, 611	4,050	1970	\$ 934,847.88	\$ 45,000.00
Central Stores	10,140	1972	2,340,582.09	155,000.00
Kresge Center	12,606	1974	2,909,800.58	41,000.00
Total	26,796	3	\$ 6,185,230.55	\$ 241,000.00
1980-1989				
Alexander	86,900	1980	\$ 20,058,834.73	\$ 271,000.00
Cooper Building	12,150	1984	2,804,543.63	228,500.00
Olds/Robb Center	180,631	1984	41,694,446.21	356,000.00
Paint Research	8,000	1987	2,577,942.55	132,500.00
Corporate Education Center	37,200	1989	9,580,689.57	0.00
Total	324,881	5	\$ 76,716,456.69	\$ 988,000.00
1990-1999				
Owen C.O.B.	126,000	1990	\$ 35,175,329.33	\$ 505,500.00
Physical Plant	25,300	1995	5,839,913.90	0.00
Physical Plant Storage	8,500	1995	1,962,026.41	49,000.00
Team Building	13,536	1995	3,124,469.35	51,000.00
Convocation Center	198,385	1998	45,792,542.33	65,000.00
Greenhouse & Aquatic	5,200	1998	1,200,298.50	0.00
Halle Library	273,715	1998	63,180,712.87	216,000.00
Total	650,636	7	\$ 156,275,292.69	\$ 886,500.00
Post 2000				
Everett C. Marshall	70,324	2000	\$ 16,232,652.40	\$ 20,000.00
Hover	11,021	1941/2002	3,550,253.95	22,000.00
University House	10,700	2003	2,961,552.62	0.00
Student Union	176,000	2006	36,446,080.00	0.00
Total	268,045	4	\$ 59,190,538.97	\$ 42,000.00
Sitework, Drains, & Infrastructure				
Campus Buildings	n/a	n/a	n/a	\$ 1,135,000.00
Coral Sub	n/a	n/a	n/a	0.00
Tunnels	n/a	n/a	n/a	488,000.00
Total	n/a	n/a	n/a	\$ 1,623,000.00
Total Building Deficiencies	2,908,891.00	45	\$ 736,578,456.31	\$ 20,808,305.00

Memo:

Average Cost Per Sq. Ft.

\$ 253.00

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MECHANICAL SYSTEMS

Overview:

Mechanical systems and sub-systems are vital, diverse and complex of building systems. Preventative and predictive maintenance programs have been developed and implemented to preserve these critical systems and provide a quality learning environment. Failure in any one of the multiple sub-systems can create reactive deficiencies in other sub-systems and seriously detract from the quality of the learning environment and lead to premature depletion of a building.

Mechanical sub-systems include:

- Heating, Ventilation, Air Conditioning and Refrigeration (HVACR)
- Steam Distribution Systems
- Storm and Sanitary Drain Systems
- Chilled Water Systems
- Domestic Water Supply Systems

Heating Ventilating and Air Conditioning Sub-system

Overview:

Heating Ventilating and Air Conditioning (HVAC) systems vary from building to building because of age, use and utilization. HVAC systems include: Constant-Air-Volume (CAV) with hot and cold decks, CAV systems with only hot decks, CAV and only reheat boxes, CAV systems with variable discharge temperature, Variable-Air-Volume (VAV) systems employing both Vortex damper systems and Variable Frequency Drives, VAV boxes without reheat, VAV boxes with hot water reheat, steam reheat, and electric reheat. Perimeter heat systems include hot water, steam, baseboard fin tube, ceiling panel, or fan coil units.

System Condition and Adequacy:

Currently there are thirteen (13) buildings that have been renovated or newly constructed since 1995 that have HVAC systems in good working condition and operate properly. Although operating as designed, alterations to the building envelope and/or changes in program or utilization can at times reduce their efficiencies. Many of these systems require some minor upgrades, and all of the systems must have ongoing preventative maintenance programs to avoid costly renovations, premature deterioration and untimely system failure.

Normal life expectancy of an HVAC system is between 25 to 30 years. Twenty-One (21) buildings on campus have HVAC systems that are 20 years old or older. Many have outlived or are nearing the end of their useful lives. These buildings are being kept in service through

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extraordinary efforts, but are beginning to compromise the quality of the learning environment. Three of these buildings (Pray-Harrold, Mark Jefferson, and Strong) have mechanical system deficiencies totaling nearly \$8.2 million.

Since 2001 the University has spent nearly \$4.5 million preserving the mechanical assets of campus facilities. EMU's future investments in the mechanical systems of campus buildings are detailed in the 2008-2012 Asset Preservation Listing within the Implementation Plan later in this document.

Improvements Completed:

Installation of new energy-efficient Air Handling Units and other recent improvements in the mechanical systems on campus include, but are not limited to the following:

Mark Jefferson AHU 1,2,3 Heat/Cool Coil Replacement	Completed March 2005
Mark Jefferson Cooling Tower Replacement	Completed March 2005
Pray-Harrold AHU-1 Cooling Coil Replacement	Completed July 2005
Snow Health Center AHU 4 replacement	Completed July 2005
Ford Hall AHU-3 replacement	Completed November 2005
McKenny steam line replacement	Completed December 2005
Warner Club pool ventilation	Completed February 2006
COB 10yr chiller overhaul	Completed May 2006
Mark Jefferson steam station and safety valves	Completed April 2006
Quirk AHU-1 Replacement	Completion July 2007
Warner AHU-1 Replacement	Completion September 2008

Steam Distribution Sub-systems

Overview:

The University has a steam distribution and tunnel system consisting of a North loop that runs from the Heating Plant east to Alexander Music Building, approximately 3,800 feet in length; and a South loop that runs approximately 4,620 feet from the Heating Plant southeast to Sherzer and branches off in two directions to Pease Auditorium and Goddard Hall.

The 40 lb. steam lines vary in diameter from fourteen inches at the Heating Plant to six inches at the far extremity between Goddard and Alexander. While the North and South tunnels are not connected, the steam lines are joined between Goddard and Alexander by this six-inch line. There is a new six-inch steam line, 1200 feet in length serving the New Student Center. Additionally, there is an eight-inch, 120 lb. steam line that connects Halle Library in the south tunnel that serves a two-stage steam absorber in the Library.

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Tunnel construction varies from cast-in-place walls, floors, and roof for the main North and South tunnels, along with a brick arch construction tunnel connecting Ford and Sherzer. The physical condition of the tunnels also vary depending on the age of the structure and exposure to moisture.

System Condition and Adequacy:

The North and South tunnels are cast-in-place concrete, which appears to be in good condition with the exception of some isolated areas showing structural distress in the form of varying degrees of reinforcement corrosion and concrete spalling due to water infiltration. There is water seepage in the tunnel at various expansion joints. Drainage and ventilation needs to be improved. Pipe support systems are comprised of painted steel frames, located at twelve to fifteen foot intervals. These frames are experiencing varying stages of corrosive deterioration at their bases. Some isolated support frames are also corroded. The steam lines, expansion joints, and condensate return lines are in serviceable condition. The asbestos insulation was surveyed and areas of deterioration were either removed and reinsulated, or encapsulated. All remaining lines are original and insulated with asbestos. The ingress and egress points also need repair and modification, as well as security system renovation.

A listing of repairs required in the tunnels include:

- Repair spalled concrete and corroded reinforcement steel
- Improve drainage by cutting a wider trench and removing mineral deposits
- Install new and/or repair existing sump pumps
- Install new and/or repair existing ventilation fans
- Repair condensate leaks
- Repack steam line expansion joints
- Replace corroded pipe support frames and exposed steel (painted)
- Selective sealing of exterior joints
- Repair the lighting system
- Encapsulate insulation systems
- Repair manhole steps and lock down system
- Repair mechanical room entry and exit doors
- Repack/rebuild leaking steam and condensate valves
- Install new isolation valves as needed
- Repair traps as needed

Improvements Completed:

Replaced sump pumps
Water infiltration repair
Ann Street Ventilation Fan
Goddard Ventilation Intake

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McKenny Ventilation Intake
Sherzer Ventilation Intake
Repaired/replaced fifty-three (53) pipe support stanchions
Hover supply and return piping and pump
North Loop lighting/power circuit repair
Replaced eighteen (18) feet of 1" steam pipe between Rackham and Hover
Repaired fifteen (15) Steam Line expansion joints

Storm Drain Sub-systems

Overview:

The University storm drain system consists of 15,500 feet of storm sewer that drains rain water from 480 acres. This system catches all the surface water from roofs, parking lots, and streets on campus. The campus storm system is tied at various points to the City and County systems that eventually drain into the Huron River. City and County systems include a 24-inch main running down Cross Street, which borders the main campus to the south and the 66-inch Owen Drain that runs through the center of campus and collects water from, and intersects with, the 24-inch main, as well as other lines on the northern perimeter.

System Condition and Adequacy:

In recent years the University has been experiencing storm water backup into some of its buildings during heavy rains. Initial observations indicate that some building roof drains and perimeter footing drains are backing up because the main lines into which they drain are at capacity. The University is concerned that the storm drainage system has reached-or perhaps even exceeded-the design capacity and that the City and County lines have also become overloaded and exceed their design capacity. Consequently, water pressure builds and forces drains to discharge water rather than accept it and carry it away.

The following engineering studies have been performed on selected portions of campus:

- Map the existing system to include GPS location of manholes
- Review the capacity of the existing storm system
- Determine the elevations of the inverts and building basements
- Calculate the required system capacity
- Compare inlet and outlet capacities at each manhole

Dialogue continues regarding a plan of action and the associated costs for the recommendations of these studies.

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Chilled Water Sub-systems

Overview:

The University Chilled Water system is composed of seven loops with a good mix of steam and electric chillers including nine (9) steam absorption units totaling 4014 tons and nine (9) electric chillers totaling 3,539 tons. There are also a large number of smaller air conditioning systems throughout campus. Chilled water towers range in age from the 1989 tower at Owen building to the new tower at the New Student Center that was installed in 2006. Most University pumping systems include a backup condenser water pump and a backup chilled water pump.

System cooling is required in all buildings from April through the end of October. In the Halle Library cooling is required year round. The University has an active cooling tower water treatment program and has begun implementing a water treatment program for the chilled water system. Chiller tube bundles are routinely serviced each winter to keep heat transfer surfaces clean. Steam absorption units should cycle through a complete rebuild of bushings, seals, and gaskets on a three-year cycle. Eddie current testing is performed at five (5) year intervals for both electric and absorption units to verify tubing and machine integrity.

System Condition and Adequacy:

Loop 1 is the Pierce Loop and serves nine buildings. Loop 1 cooling includes three 250-ton steam absorption units with three cooling towers located at Pierce Hall. All units are in good condition.

Loop 2 is the Mark Jefferson Loop and consists of two (2) 781-ton steam absorbers, one installed in 1998 and one installed in 1969. This loop includes the McKenny ice storage system consisting of one 300-ton electric chiller and nine ice storage tanks. The ice storage system has experienced a major control failure which prevents ice-making. This loop serves five buildings. The University has added piping and pumps to connect Halle Library into this loop, allowing the two Mark Jefferson units to be used as backup for the chiller at Halle. If Mark Jefferson is renovated to include a modern VAV supply system and a variable-speed exhaust system on the fume hoods, there is the potential for significant chiller capacity savings.

Loop 3 is the Porter Loop and serves seven buildings. Chillers included in this loop are located in Pray-Harrold and Porter College of Education Building. Porter C.O.E. has one 590-ton steam absorber and one 600-ton electric chiller, both in good condition. Pray-Harrold has one failed 280-ton steam absorber and one 22 year-old, 560-ton electric chiller which has not been rebuilt and uses Freon 11, which has environmental issues. The Pray-Harrold electric chiller is scheduled for major re-build in winter 2006.

Loop 4 is the Alexander Loop. This loop currently serves two buildings. It consists of three chillers located in Alexander Music Building – one 255-ton electric chiller which is in good

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condition, and two 130-ton steam absorption units, one of which is 29 years old. However, the loop is at capacity and is challenged on hot, humid days.

Loop 5 is the College of Business Loop and serves one building. It contains one 320-ton electric chiller. A ten (10) year major overhaul was completed in July of 2006. This unit uses Freon 11, which has environmental issues. .

Loop 6 is the Convocation Center Loop and serves one building. It contains two 380-ton electric chillers which are in good condition.

Loop 7 is the New Student Center Loop. It contains two (2), 372 ton centrifugal chillers utilizing R 134-a. This is a new system; the building is scheduled to open November 2006.

The campus loop system lacks redundancy and is intra-loop dependent. Many of the components are approaching the end of their useful lives creating the potential for disruption of service. Because the components are so inter-dependent, any single equipment failure could take a loop out of service causing the loss of one or more buildings.

Eastern Michigan University
Chilled Water Loop
Equipment Data Sheet
Table 12

Loop #	Building	CHILLER MODEL & SERIAL NUMBERS				Chiller Type			Run Time (hrs)		Cooling Tower		
		Model Number	Serial Number	Electrical (Tonnage)	(Year)	Absorption (Tonnage)	(Year)	2006	Cumulative	(Tonnage)	(Type)	(Year)	
Loop 1	Pierce	ABSC022ALP01AAAF	L99M04867M-TRANE			250	1999	3014	15475	250	Marley	1999	
		ABSC022A0101AAADA	L95C03092-TRANE			250	1994	2832	33382	250	Marley	1994	
		ABSC022A0101AAADA	L95C03091-TRANE			250	1994	3421	20091	250	Marley	1994	
			Loop 1 Total			750				750			
Loop 2	Halle-Library	ABTE093FLD01AAABAB	L96K07725-TRANE			852	1998	2882	43220	1000	BAC	1997	
	Mark Jefferson	ABSC085FLP01AAA	L98H05010-TRANE			781	1998	2349	24434	1600	Marley	2004	
		B8C-3	2782-TRANE			781	1967	1830	47805				
	McKenny	RTHA300FCN0LDUI2LF	U91C03742-TRANE	300	1991			9	14057	300	Marley	1991	
			Loop 2 Total			2414				2900			
Loop 3	John C. Porter	CVHF064FAIB03UT	L98L06781-TRANE	600	1998			2620	19501	499	Marley	1998	
		ABSC05JOLGIFI	L92E13549-TRANE			590	1992	246	29821	400	Marley	1992	
										400	Marley	1992	
	Pray-Harold	CVHF050FAF2RB2571	L84M2478U-TRANE	560	1984			0	20994	860	Marley	2000	
			Loop 3 Total			590				2559			
Loop 4	Alexander	RTHB255FLC00EN	U95C06249-TRANE	255	1994			2440	14320	250	Marley	1994	
		ABSC01C4SG6BCE	L79E01587-TRANE			130	1977	584	53688	250	Marley	1994	
		ABSC01C4SG6BCE	L79E01588-TRANE			130		378	53356				
	College of Business	CVHE032FAV2JC233	L89K03460-TRANE	320	1989			926	33091*	500	Evapco	1989	
			Loop 4 Total			260				300			
Loop 5	Convocation Center	RTHB380FLF00	U97K05886-TRANE	380	1997			1911	13891	400	Marley	1997	
		RTHB380F-MF-00	U97K05887-TRANE	380	1997			400	5577	400	Marley	1997	
	New Student Center	E2612BE2-A	WA5310045	372	2006			0	0	375	Evapco	2006	
		E2612BE2-A	WA5310046	372	2006			0	0	375	Evapco	2006	
			Loop 6 Total			760				800			
			Loop 5 Total			320				300			
			Loop 6 Total			744				750			
			Combined loop totals			3539				8559			

* Note: hour meter replaced January 2006 @ 33091.

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Domestic Water Supply Sub-systems

Overview:

The University water supply system consists of approximately 13,700 feet of supply line (pipe). Included in this system is a 1,650 foot section of line running through the center of campus. This section was replaced in 1988 in collaboration with the Ypsilanti Community Utilities Authority and is in excellent condition.

System Condition and Adequacy:

The remaining lines on campus are old, and are believed to be in satisfactory condition with the exception of the following sections:

- Line extending West from Porter on West Circle Drive approximately 900 feet.
- Line extending South from Porter on West Circle Drive approximately 600 feet
- Line extending North from Goddard to East Circle approximately 1200 feet in length
- Line extending West from Goddard to West Circle Drive about 750 feet in length. There are 10 water main shut off valves associated with these that need to be replaced plus 5 additional water-main shut-off valves on campus that are in need of repair.

The future plan is to phase the replacement of these line section and valves to minimize the impact on connected building.

Mechanical System Deficiencies By Building
Table 13

<u>Building Name</u>	<u>Building Sq. Ft.</u>	<u>Date Built/ Number</u>	<u>2008 Building Replacement Value</u>	<u>Mechanical System Deficiencies</u>
<u>Before 1900</u>				
Starkweather Hall	8,706	1896	\$ 2,009,576.69	\$ 84,000.00
Welch Hall	36,840	1896	8,503,653.30	103,000.00
Total	45,546	2	\$ 10,513,229.99	\$ 187,000.00
<u>1900-1949</u>				
Sherzer	35,253	1903	\$ 8,137,331.43	\$ 201,000.00
School House	900	1905	578,917.31	0.00
Boone	45,210	1914	10,435,672.24	50,000.00
Pease	30,181	1914	6,966,578.71	15,000.00
Roosevelt	75,639	1924	17,459,495.98	354,000.00
Ford Hall	33,333	1929	7,694,144.27	376,500.00
Mckenny Union	107,103	1931	24,722,225.26	2,276,424.00
Briggs	9,500	1937	2,192,853.05	36,000.00
Rackham	45,890	1938	10,592,634.37	392,235.00
King	61,450	1939	15,749,415.31	50,000.00
Pierce Hall	61,275	1948	14,143,902.17	287,000.00
Total	505,734	11	\$ 118,673,170.10	\$ 4,038,159.00
<u>1950-1969</u>				
Heating Plant	23,856	1951	\$ 38,377,761.04	\$ 365,000.00
Bowen	89,220	1955	20,594,352.53	793,392.00
Strong	80,713	1957	18,630,710.32	1,657,120.00
Quirk	58,205	1959	13,435,264.39	133,000.00
Sculpture Studio	4,648	1959	1,072,882.21	25,000.00
Snow	30,035	1959	9,920,527.13	308,000.00
Warner	95,349	1964	22,009,088.99	1,009,892.00
Sill Hall	92,635	1965	21,382,625.49	260,000.00
John W. Porter	143,775	1966	33,187,099.69	50,000.00
Pray Harrold	237,108	1967	54,730,842.17	2,072,000.00
Oestrike Stadium	1,312	1968	1,596,273.57	0.00
Rynearson Football Stadium	49,595	1968	13,845,400.45	65,000.00
Mark Jefferson	180,802	1969	60,241,709.34	4,461,300.00
Total	1,087,253	13	\$ 309,024,537.32	\$ 11,199,704.00
<u>1970-1979</u>				
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Kresge Center	12,606	1974	2,909,800.58	41,000.00
Total	26,796	3	\$ 6,185,230.55	\$ 89,500.00
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Paint Research	8,000	1987	2,577,942.55	35,000.00
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Total	324,881	5	\$ 76,716,456.69	\$ 1,235,000.00
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Physical Plant Storage	8,500	1995	1,962,026.41	36,000.00
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Convocation Center	198,385	1998	45,792,542.33	158,500.00
Greenhouse & Aquatic	5,200	1998	1,200,298.50	0.00
Halle Library	273,715	1998	63,180,712.87	210,000.00
Total	650,636	7	\$ 156,275,292.69	\$ 636,000.00
<u>Post 2000</u>				
Everett C. Marshall	70,324	2000	\$ 16,232,652.40	\$ -
Hover	11,021	1941/2002	3,550,253.95	16,070.00
University House	10,700	2003	2,961,552.62	0.00
Student Union	176,000	2006	36,446,080.00	0.00
Total	268,045	4	\$ 59,190,538.97	\$ 16,070.00
<u>Sitework, Drains, & Infrastructure</u>				
Campus Buildings	n/a	n/a	n/a	\$ 2,270,547.00
Coral Sub	n/a	n/a	n/a	0.00
Tunnels	n/a	n/a	n/a	281,000.00
Total	n/a	n/a	n/a	\$ 2,551,547.00
Total Building Deficiencies	2,908,891.00	45	\$ 736,578,456.31	\$ 19,952,980.00

Memo:
Average Cost Per Sq. Ft. \$ 253.00

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ELECTRICAL SYSTEMS (BUILDINGS)

Overview:

The electrical system components within each building include: power transformers, switchgear, power distribution panel main breakers, electric distribution wiring, branch circuit breaker panels, motor control fuse switches and starters, receptacles, and lighting. Like mechanical systems, these systems are vital, complex and intra-dependent. Failure in one component can result in complete system failure.

System Condition and Adequacy:

The average age of Electrical Systems in General Fund buildings is 25 years (19 buildings have electrical systems at least 30 years old). As these electrical systems age, replacement parts have become increasingly difficult to obtain. Furthermore, the older systems were not designed to meet contemporary technology demands. In many instances the systems are at maximum capacity limiting the University's ability to support new educational programs. The University has identified over \$7.4 million dollars in electrical system deficiency needs in the General Fund buildings with 19% of the deficiencies in Pray-Harrold and Mark Jefferson. Electric distribution system deficiencies include outdated inefficient lighting systems, an inadequate number of distribution circuits and panels with no spare breakers, or electric capacity. The electrical system deficiency cost estimates pertain to existing systems and do not reflect the cost to expand electrical capacity that is needed in Pray-Harrold, Mark Jefferson and Strong.

Since 2001 the University has spent nearly \$1.4 million preserving the electrical system assets of campus facilities. EMU's future investments in the electrical systems of campus buildings are detailed in the 2008-2012 Asset Preservation Listing within the Implementation Plan later in this document.

Improvements Completed:

Installation of new energy efficient lamps and ballasts have been, or will be, completed as follows (improvements more than five (5) years old are not included):

Sill	Completed	December 2002
Pierce	Completed	December 2002
Roosevelt	Completed	December 2002
Sherzer	Completed	December 2002
Mark Jefferson	Scheduled Completion	December 2006
Alexander	Scheduled Completion	December 2006
Cooper Building	Scheduled Completion	December 2006

Electrical System Deficiencies By Building
Table 14

<u>Building Name</u>	<u>Building Sq. Ft.</u>	<u>Date Built/ Number</u>	<u>2008 Building Replacement Value</u>	<u>Electrical System Deficiencies</u>
<u>Before 1900</u>				
Starkweather Hall	8,706	1896	\$ 2,009,576.69	\$ 10,000.00
Welch Hall	36,840	1896	8,503,653.30	131,000.00
Total	45,546	2	\$ 10,513,229.99	\$ 141,000.00
<u>1900-1949</u>				
Sherzer	35,253	1903	\$ 8,137,331.43	\$ 195,000.00
School House	900	1905	578,917.31	0.00
Boone	45,210	1914	10,435,672.24	10,000.00
Pease	30,181	1914	6,966,578.71	168,000.00
Roosevelt	75,639	1924	17,459,495.98	138,000.00
Ford Hall	33,333	1929	7,694,144.27	272,000.00
Mckenny Union	107,103	1931	24,722,225.26	1,006,219.00
Briggs	9,500	1937	2,192,853.05	115,000.00
Rackham	45,890	1938	10,592,634.37	199,000.00
King	61,450	1939	15,749,415.31	0.00
Pierce Hall	61,275	1948	14,143,902.17	154,000.00
Total	505,734	11	\$ 118,673,170.10	\$ 2,257,219.00
<u>1950-1969</u>				
Heating Plant	23,856	1951	\$ 38,377,761.04	\$ 1,344,000.00
Bowen	89,220	1955	20,594,352.53	211,000.00
Strong	80,713	1957	18,630,710.32	161,000.00
Quirk	58,205	1959	13,435,264.39	130,000.00
Sculpture Studio	4,648	1959	1,072,882.21	45,000.00
Snow	30,035	1959	9,920,527.13	203,000.00
Warner	95,349	1964	22,009,088.99	271,000.00
Sill Hall	92,635	1965	21,382,625.49	332,000.00
John W. Porter	143,775	1966	33,187,099.69	0.00
Pray Harrold	237,108	1967	54,730,842.17	708,000.00
Oestrike Stadium	1,312	1968	1,596,273.57	0.00
Rynearson Football Stadium	49,595	1968	13,845,400.45	95,000.00
Mark Jefferson	180,802	1969	60,241,709.34	693,000.00
Total	1,087,253	13	\$ 309,024,537.32	\$ 4,193,000.00
<u>1970-1979</u>				
West Cross Street, 611	4,050	1970	\$ 934,847.88	\$ 10,000.00
Central Stores	10,140	1972	2,340,582.09	0.00
Kresge Center	12,606	1974	2,909,800.58	0.00
Total	26,796	3	\$ 6,185,230.55	\$ 10,000.00
<u>1980-1989</u>				
Alexander	86,900	1980	\$ 20,058,834.73	\$ 145,000.00
Cooper Building	12,150	1984	2,804,543.63	0.00
Olds/Robb Center	180,631	1984	41,694,446.21	30,000.00
Paint Research	8,000	1987	2,577,942.55	10,000.00
Corporate Education Center	37,200	1989	9,580,689.57	0.00
Total	324,881	5	\$ 76,716,456.69	\$ 185,000.00
<u>1990-1999</u>				
Owen C.O.B.	126,000	1990	\$ 35,175,329.33	\$ 250,000.00
Physical Plant	25,300	1995	5,839,913.90	0.00
Physical Plant Storage	8,500	1995	1,962,026.41	0.00
Team Building	13,536	1995	3,124,469.35	0.00
Convocation Center	198,385	1998	45,792,542.33	18,500.00
Greenhouse & Aquatic	5,200	1998	1,200,298.50	0.00
Halle Library	273,715	1998	63,180,712.87	0.00
Total	650,636	7	\$ 156,275,292.69	\$ 268,500.00
<u>Post 2000</u>				
Everett C. Marshall	70,324	2000	\$ 16,232,652.40	\$ 3,000.00
Hover	11,021	1941/2002	3,550,253.95	30,000.00
University House	10,700	2003	2,961,552.62	0.00
Student Union	176,000	2006	36,446,080.00	0.00
Total	268,045	4	\$ 59,190,538.97	\$ 33,000.00
<u>Sitework, Drains, & Infrastructure</u>				
Campus Buildings	n/a	n/a	n/a	\$ 343,716.00
Coral Sub	n/a	n/a	n/a	0.00
Tunnels	n/a	n/a	n/a	0.00
Total	n/a	n/a	n/a	\$ 343,716.00
Total Building Deficiencies	2,908,891.00	45	\$ 736,578,456.31	\$ 7,431,435.00

Memo:
Average Cost Per Sq. Ft. \$ 253.00

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**EASTERN MICHIGAN UNIVERSITY
CAPITAL OUTLAY REQUEST FY 2008
FACILITY ASSESSMENT**

ELEVATOR SYSTEMS

Overview:

The elevator equipment at Eastern Michigan University varies in age and condition. The oldest General Fund building elevator car still in service was installed in 1936. Elevators are a vital component to meet the ADA requirements and provide access to our campus buildings and facilities. There are a total of 42 elevators in General Fund buildings.

System Condition and Adequacy:

All 42 elevators are maintained by the Physical Plant staff and are continuously evaluated for condition safety. Five elevators need to be updated to meet ADA compliance. There are five buildings of two or more stories that do not have elevators. Total elevator deficiencies amount to over \$1.2 million. In the Mark Jefferson and Pray-Harrold buildings, seven elevators respond to as many as 800 calls per day, each.

Funding was allocated for separate elevator modernization projects in the Mark Jefferson (\$0.61 million), Pray-Harrold (\$0.77 million) and Snow Health Center (\$0.18 million) buildings. Snow Elevator was funded from the FY2005 Asset Preservation. Mark Jefferson and Pray-Harrold elevator modernization projects were funded with Facility Fee Funds.

The University has identified over \$1.3 million in Elevator System deficiency needs in the General Fund buildings. Since 2001 the University has spent nearly \$1.8 million preserving the elevator assets of campus facilities. EMU's future investments in the elevator systems of campus buildings are detailed in the 2008-2012 Asset Preservation Listing within the Implementation Plan later in this document.

Improvements Completed:

Recent Elevator System improvements on campus include, but are not limited to, the following:

Snow Health Center Elevator	Completed	October 2005
Mark Jefferson Elevators (3 systems/cars)	Completed	September 2006
Pray-Harrold Elevators (4 systems/cars)	Completion	December 2006

Elevator System Deficiencies By Building
Table 15

<u>Building Name</u>	<u>Building Sq. Ft.</u>	<u>Date Built/ Number</u>	<u>2008 Building Replacement Value</u>	<u>Elevator System Deficiencies</u>
<u>Before 1900</u>				
Starkweather Hall	8,706	1896	\$ 2,009,576.69	\$ 150,000.00
Welch Hall	36,840	1896	8,503,653.30	45,000.00
Total	45,546	2	\$ 10,513,229.99	\$ 195,000.00
<u>1900-1949</u>				
Sherzer	35,253	1903	\$ 8,137,331.43	\$ 14,000.00
School House	900	1905	578,917.31	0.00
Boone	45,210	1914	10,435,672.24	50,000.00
Pease	30,181	1914	6,966,578.71	5,000.00
Roosevelt	75,639	1924	17,459,495.98	10,000.00
Ford Hall	33,333	1929	7,694,144.27	0.00
Mckenny Union	107,103	1931	24,722,225.26	116,000.00
Briggs	9,500	1937	2,192,853.05	0.00
Rackham	45,890	1938	10,592,634.37	165,000.00
King	61,450	1939	15,749,415.31	20,000.00
Pierce Hall	61,275	1948	14,143,902.17	55,000.00
Total	505,734	11	\$ 118,673,170.10	\$ 435,000.00
<u>1950-1969</u>				
Heating Plant	23,856	1951	\$ 38,377,761.04	\$ -
Bowen	89,220	1955	20,594,352.53	40,000.00
Strong	80,713	1957	18,630,710.32	0.00
Quirk	58,205	1959	13,435,264.39	15,000.00
Sculpture Studio	4,648	1959	1,072,882.21	0.00
Snow	30,035	1959	9,920,527.13	0.00
Warner	95,349	1964	22,009,088.99	0.00
Sill Hall	92,635	1965	21,382,625.49	11,000.00
John W. Porter	143,775	1966	33,187,099.69	5,000.00
Pray Harrold	237,108	1967	54,730,842.17	10,000.00
Oestrike Stadium	1,312	1968	1,596,273.57	0.00
Ryncarson Football Stadium	49,595	1968	13,845,400.45	10,000.00
Mark Jefferson	180,802	1969	60,241,709.34	0.00
Total	1,087,253	13	\$ 309,024,537.32	\$ 91,000.00
<u>1970-1979</u>				
West Cross Street, 611	4,050	1970	\$ 934,847.88	\$ -
Central Stores	10,140	1972	2,340,582.09	0.00
Kresge Center	12,606	1974	2,909,800.58	0.00
Total	26,796	3	\$ 6,185,230.55	\$ -
<u>1980-1989</u>				
Alexander	86,900	1980	\$ 20,058,834.73	\$ 20,000.00
Cooper Building	12,150	1984	2,804,543.63	30,000.00
Olds/Robb Center	180,631	1984	41,694,446.21	40,000.00
Paint Research	8,000	1987	2,577,942.55	0.00
Corporate Education Center	37,200	1989	9,580,689.57	0.00
Total	324,881	5	\$ 76,716,456.69	\$ 90,000.00
<u>1990-1999</u>				
Owen C.O.B.	126,000	1990	\$ 35,175,329.33	\$ 95,000.00
Physical Plant	25,300	1995	5,839,913.90	0.00
Physical Plant Storage	8,500	1995	1,962,026.41	0.00
Team Building	13,536	1995	3,124,469.35	0.00
Convocation Center	198,385	1998	45,792,542.33	20,000.00
Greenhouse & Aquatic	5,200	1998	1,200,298.50	0.00
Halle Library	273,715	1998	63,180,712.87	50,000.00
Total	650,636	7	\$ 156,275,292.69	\$ 165,000.00
<u>Post 2000</u>				
Everett C. Marshall	70,324	2000	\$ 16,232,652.40	\$ 15,000.00
Hover	11,021	1941/2002	3,550,253.95	22,000.00
University House	10,700	2003	2,961,552.62	0.00
Student Union	176,000	2006	36,446,080.00	0.00
Total	268,045	4	\$ 59,190,538.97	\$ 37,000.00
<u>Sitework, Drains, & Infrastructure</u>				
Campus Buildings	n/a	n/a	n/a	\$ 249,500.00
Coral Sub	n/a	n/a	n/a	0.00
Tunnels	n/a	n/a	n/a	0.00
Total	n/a	n/a	n/a	\$ 249,500.00
Total Building Deficiencies	2,908,891.00	45	\$ 736,578,456.31	\$ 1,262,500.00

Memo:
Average Cost Per Sq. Ft. \$ 253.00

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**EASTERN MICHIGAN UNIVERSITY
CAPITAL OUTLAY REQUEST FY 2008
FACILITY ASSESSMENT**

LIFE SAFETY SYSTEMS

Overview:

The Life Safety category within the building includes the fire alarm system, central alarm reporting system, fire sprinkler system, fire pumps, standpipes, portable fire extinguishers, emergency lighting systems, eye wash/shower systems, exit signs, means of egress components, and some ADA compliance components.

Systems Condition and Adequacy:

The University Life Safety systems are functional but many have aged to the point of requiring repair or replacement. The University's central reporting (Keltron) system that reports fire and trouble alarms to the Department of Public Safety (DPS) is antiquate and funding has been identified and a comprehensive system upgrade has begun. The upgrade and modernization of this system will be a phased project that begins with the upgrade or replacement of the central system, and continues for all University buildings as their fire systems are updated. Once the upgrade is complete, DPS will be able to receive point-specific information from buildings with addressable fire alarm systems. This information will allow DPS to know the location and nature of the alarm prior to arrival at the facility. This upgrade system will have improved reliability and redundancy with loop connectivity between all buildings.

The following buildings will have the ability to send this point-specific information to DPS once the upgrade is completed:

General Fund

Boone
Convocation Center
Ford
Hover
Marshall
Porter
Rackham
Warner
Student Center
University House

Auxiliary

Buell Hall
Hoyt Conference Center (DCIII)
Goddard Hall
Pittman Hall
Wise Hall
Downing
Village

The University has identified over \$1.6 million dollars in Life Safety system deficiency needs in General Fund buildings. Since 2001 the University has spent nearly \$.75 million preserving the Life Safety assets of campus facilities. EMU's future investments in the life safety systems of campus buildings are detailed in the 2008-2012 Asset Preservation Listing within the Implementation Plan later in this document.

**EASTERN MICHIGAN UNIVERSITY
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Fire Alarm System Replacements have been completed or are scheduled as follows:

Rackham	Completed December 2002
Starkweather	Completed December 2002
Quirk	Completed June 2003
Ford	Completed October 2004
Warner	Completed June 2005
Mark Jefferson	Completed June 2005
Sill	Completion June 2008
Sculpture Studio	Completion June 2008
Snow	Completion June 2012
Bowen	Completion June 2012

The University has completed a number of ADA Improvements as follows:

Quirk ADA Ramp	Completed February 2005
Quirk ADA Restrooms	Completed February 2005
Strong ADA Restrooms	Completed September 2005
Quirk ADA Chair Lift	Completed August 2006
Major Sidewalk Replacement	Completion December 2006
Power Assist Doors Various Buildings	Ongoing

Life Safety System Deficiencies By Building
Table 16

<u>Building Name</u>	<u>Building Sq. Ft.</u>	<u>Date Built/ Number</u>	<u>2008 Building Replacement Value</u>	<u>Life Safety System Deficiencies</u>
<u>Before 1900</u>				
Starkweather Hall	8,706	1896	\$ 2,009,576.69	\$ 20,000.00
Welch Hall	36,840	1896	8,503,653.30	0.00
Total	45,546	2	\$ 10,513,229.99	\$ 20,000.00
<u>1900-1949</u>				
Sherzer	35,253	1903	\$ 8,137,331.43	\$ 47,500.00
School House	900	1905	578,917.31	0.00
Boone	45,210	1914	10,435,672.24	0.00
Pease	30,181	1914	6,966,578.71	0.00
Roosevelt	75,639	1924	17,459,495.98	125,000.00
Ford Hall	33,333	1929	7,694,144.27	0.00
Mckenny Union	107,103	1931	24,722,225.26	225,000.00
Briggs	9,500	1937	2,192,853.05	0.00
Rackham	45,890	1938	10,592,634.37	0.00
King	61,450	1939	15,749,415.31	50,000.00
Pierce Hall	61,275	1948	14,143,902.17	0.00
Total	505,734	11	\$ 118,673,170.10	\$ 447,500.00
<u>1950-1969</u>				
Heating Plant	23,856	1951	\$ 38,377,761.04	\$ -
Bowen	89,220	1955	20,594,352.53	100,000.00
Strong	80,713	1957	18,630,710.32	110,000.00
Quirk	58,205	1959	13,435,264.39	0.00
Sculpture Studio	4,648	1959	1,072,882.21	30,000.00
Snow	30,035	1959	9,920,527.13	55,000.00
Warner	95,349	1964	22,009,088.99	30,000.00
Sill Hall	92,635	1965	21,382,625.49	130,000.00
John W. Porter	143,775	1966	33,187,099.69	0.00
Pray Harrold	237,108	1967	54,730,842.17	200,000.00
Oestrike Stadium	1,312	1968	1,596,273.57	0.00
Rynearson Football Stadium	49,595	1968	13,845,400.45	54,000.00
Mark Jefferson	180,802	1969	60,241,709.34	0.00
Total	1,087,253	13	\$ 309,024,537.32	\$ 709,000.00
<u>1970-1979</u>				
West Cross Street, 611	4,050	1970	\$ 934,847.88	\$ -
Central Stores	10,140	1972	2,340,582.09	10,000.00
Kresge Center	12,606	1974	2,909,800.58	0.00
Total	26,796	3	\$ 6,185,230.55	\$ 10,000.00
<u>1980-1989</u>				
Alexander	86,900	1980	\$ 20,058,834.73	\$ 95,000.00
Cooper Building	12,150	1984	2,804,543.63	50,000.00
Olds/Robb Center	180,631	1984	41,694,446.21	55,000.00
Paint Research	8,000	1987	2,577,942.55	0.00
Corporate Education Center	37,200	1989	9,580,689.57	0.00
Total	324,881	5	\$ 76,716,456.69	\$ 200,000.00
<u>1990-1999</u>				
Owen C.O.B.	126,000	1990	\$ 35,175,329.33	\$ -
Physical Plant	25,300	1995	5,839,913.90	0.00
Physical Plant Storage	8,500	1995	1,962,026.41	0.00
Team Building	13,536	1995	3,124,469.35	5,000.00
Convocation Center	198,385	1998	45,792,542.33	10,000.00
Greenhouse & Aquatic	5,200	1998	1,200,298.50	0.00
Halle Library	273,715	1998	63,180,712.87	0.00
Total	650,636	7	\$ 156,275,292.69	\$ 15,000.00
<u>Post 2000</u>				
Everett C. Marshall	70,324	2000	\$ 16,232,652.40	\$ -
Hover	11,021	1941/2002	3,550,253.95	0.00
University House	10,700	2003	2,961,552.62	0.00
Student Union	176,000	2006	36,446,080.00	0.00
Total	268,045	4	\$ 59,190,538.97	\$ -
<u>Sitework, Drains, & Infrastructure</u>				
Campus Buildings	n/a	n/a	n/a	\$ 225,000.00
Coral Sub	n/a	n/a	n/a	0.00
Tunnels	n/a	n/a	n/a	12,000.00
Total	n/a	n/a	n/a	\$ 237,000.00
Total Building Deficiencies	2,908,891.00	45	\$ 736,578,456.31	\$ 1,638,500.00

Memo:
Average Cost Per Sq. Ft. \$ 253.00

**EASTERN MICHIGAN UNIVERSITY
CAPITAL OUTLAY REQUEST FY 2008
FACILITY ASSESSMENT**

ELECTRIC SUPPLY AND DISTRIBUTION SYSTEMS

Overview:

The Electrical Supply and Distribution System consists of an electric substation (Coral Substation) containing two 15/20/25,000 kVa transformers supplied by two separate DTE 40 kV feeder lines. The substation is supplying the campus with power at 13,200-volts (13.2 kV). Two new 13.2 kV distribution loops are served directly from the new substation, and two 13.2 kV tie lines connect the new substation to the Heating Plant 4800-volt buss through 2 step down transformers. Two distribution loops served from the Heating Plant are operated at 4,800-volts. The Heating Plant includes a 3.5-megawatt turbine cogeneration unit. These improvements were the result of a University \$5.5 million dollar self-funded project in fiscal year 1999. This phase I electrical distribution project relieved many of the critical deficiencies in the Electrical Supply and Distribution system.

System Condition and Adequacy:

The University has taken steps to limit or contain increased loading on the all campus feeders, by selective use of steam versus electric chillers during the expected peak period, and load shedding selective motors and chillers. Additionally, the University has begun a lighting retrofit program that will reduce energy consumption. Campus electrical peak demand and loop loading is reported below. Evidence of efforts in load control is shown by the decrease in coincident demands since 2002:

Campus Coincident Peak Demand	
Year	Demand (MW)
1997	8.700
1998	9.200
1999	9.130
2000	9.231
2001	9.225
2002	9.472
2003	8.769
2004	8.453
2005	8.764
2006	8.585

Loop Non-Coincident Peak Demand	
Loop 1	2.062
Loop 2	2.382
Loop 3	3.596
Loop 4	1.635
Total	
Non – Coincident	9.675

The 1999 Utility Master Plan prepared by Stanley Consultants, Inc. identified a number of deficiencies in the electric supply and distribution system. Construction of the new 42/13.2 kV Coral substation with two 15/20/25,000 kVa transformers fed from two (2) DTE Energy 40 kV transmission lines, construction of the 12-cell duct bank between the substation and the Heating Plant and installation of two new 13,200-volt feeders from Coral Substation to the Heating Plant

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eliminated the first major issue of DTE Supply capacity and reliability. Other deficiencies remain and are summarized as follows:

1. EMU's 4,800-volt distribution circuits were loaded near capacity during the peak period.
2. Sections of the 4,800-volt distribution circuits and cables had been in operation 30 to 40 years and are lead-paper insulated.

Loops 3 and 4 have been converted to 13.2 kV, with the final 2400-foot section of Loop 3 converted in September 2005. These two loops are served directly from Coral Substation.

Loops 1 and 2 continue to supply main campus from the Heating Plant at 4800-volts, with each loop being normally open at their respective mid-points. Loop cables in the underground duct bank are the old 450-kcmil lead paper insulation cable. These 4800-volt distribution cables have outlived their useful lives. Each building has its own 4800-volt service transformer and loop switches, which require upgrading to 13.2 kV.

Loop loading continues to be a concern for Loops 1 and 2. Loop metering has been upgraded at the Heating Plant on Loops 1 and 2 in order to more accurately track loop loading. The new metering connects to the Heating Plant SCADA system which was installed with the Coral Substation. Loops 1 and 2 have minimal growth capacity. As a result, construction of new facilities on these distribution feeders will necessitate upgrading the feeder involved to 13,200 volts to eliminate the potential for overloading, and ultimately cable failure. When approval of the capital projects funding for Pray-Harrold and Mark Jefferson occurs, the Loop 2 cables will need to be converted to 13.2 kV to each building in order to provide a reliable electrical service.

Master Plan recommendations included a phased construction approach, to meet the long-term projected campus load growth. Future planning includes:

1. Extend the new 13.2 kV distribution circuits to supply all existing and new loads on the Main Campus. All new construction will be developed using the 13.2 kV substation.
2. Mapping shall include manhole surveys with GPS locations on as-built drawings.
3. Continue to implement a power monitoring system
4. Additional system upgrades will be required to complete the conversion of the entire campus to 13.2 kV supply voltage. Conversion work will include the Heating Plant, all conductors, and all building transformers in the campus distribution system. A phased approach will be used to avoid disruptions in normal business.
5. Further building additions on main campus at EMU will require conversion of the Loop serving the project in order to insure the electrical system will have adequate capacity during the peak loading period and provide a reliable source of power for the building project.

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Funding Requirements:

Phase I – \$5.5 million - Complete

Substation Construction - Complete

12 Cell 5” duct bank construction - Complete

Loop 4 - 13.2kv to West Campus - Complete

Loop 3 - 13.2 kV from Coral - Complete

Loop 3/3a buildings - Nine buildings remain at 4800 volts being fed from a 13,200-volt to 4800-volt step-down transformer

Second Substation Transformer - Complete

Loop 3/3a Conductors Converted - Complete

Substation to Heating Plant interconnects, Tie 2 Lines to eliminate DECO 4800 v feeders. - Complete

Phase II - \$3,284,000

Conversion of the following:

Heating Plant Switchgear

Generator

Loop 1/1a and 2/2a to first set of buildings (four buildings)

3400 feet of distribution circuit conductors

Phase III - \$ 2,964,000

Conversion of the following:

\$1,707,000 - 15 Building Transformers and 10,600 ft cable Loop 1

\$1,257,000 - 7 Building Transformers and 9300 ft cable Loop 2

Improvements Completed:

Loop 3 conversion to 13.2 kV

Completed September 2005

Campus Electrical Metering/Monitoring

Completed September 2006

**EASTERN MICHIGAN UNIVERSITY
CAPITAL OUTLAY REQUEST FY 2008
FACILITY ASSESSMENT**

SITE WORK and DRAINAGE SYSTEMS

Overview:

Site work and drainage systems are integral components of primary building systems and include sidewalks, loading docks, exterior ADA improvements, and signage. An assessment of these systems has identified over \$500,000 in needed improvements. Improving these systems will protect the University's assets and enhance the image of the owner and the quality of life on campus.

System Condition and Adequacy:

These systems have been continually evaluated and consequently one mile of sidewalks has been replaced in the past two years and another one thousand lineal feet is slated to be completed in the next six months. This year, timber retaining walls installed more than twenty-five years ago have been replaced with decorative block walls that significantly improve structural integrity, enhance campus appearance, and will require minimal maintenance. Drainage repairs have been accomplished to prevent flooding, minimize damage to building system and landscaping. This work has included installation of new drain tile, repair of catch basins, curbing, and re-grading of certain areas. A campus landscape project to install new trees, repair turf, and revitalize landscaping is nearing completion. Improvements adhere to ADA and building code requirements, resulting in a safer and more accessible campus.

Site Work and Drainage System Deficiencies by Buildings
Table 17

Building Name	Building Sq. Ft.	Date Built/ Number	2008 Building Replacement Value	Site Work & Drainage System Deficiency
Before 1900				
Starkweather Hall	8,706	1896	\$ 2,009,576.69	\$ -
Welch Hall	36,840	1896	8,503,653.30	-
Total	45,546	2	\$ 10,513,229.99	\$ -
1900-1949				
Sherzer	35,253	1903	\$ 8,137,331.43	\$ -
School House	900	1905	578,917.31	-
Boone	45,210	1914	10,435,672.24	-
Pease	30,181	1914	6,966,578.71	-
Roosevelt	75,639	1924	17,459,495.98	6,000.00
Ford Hall	33,333	1929	7,694,144.27	-
Mckenny Union	107,103	1931	24,722,225.26	-
Briggs	9,500	1937	2,192,853.05	-
Rackham	45,890	1938	10,592,634.37	-
King	61,450	1939	15,749,415.31	-
Pierce Hall	61,275	1948	14,143,902.17	-
Total	505,734	11	\$ 118,673,170.10	\$ 6,000.00
1950-1969				
Heating Plant	23,856	1951	\$ 38,377,761.04	\$ -
Bowen	89,220	1955	20,594,352.53	-
Strong	80,713	1957	18,630,710.32	-
Quirk	58,205	1959	13,435,264.39	-
Sculpture Studio	4,648	1959	1,072,882.21	-
Snow	30,035	1959	9,920,527.13	-
Warner	95,349	1964	22,009,088.99	-
Sill Hall	92,635	1965	21,382,625.49	-
John W. Porter	143,775	1966	33,187,099.69	-
Pray Harrold	237,108	1967	54,730,842.17	-
Oestrike Stadium	1,312	1968	1,596,273.57	-
Rynearson Football Stadium	49,595	1968	13,845,400.45	22,000.00
Mark Jefferson	180,802	1969	60,241,709.34	-
Total	1,087,253	13	\$ 309,024,537.32	\$ 22,000.00
1970-1979				
West Cross Street, 611	4,050	1970	\$ 934,847.88	\$ -
Central Stores	10,140	1972	2,340,582.09	-
Kresge Center	12,606	1974	2,909,800.58	-
Total	26,796	3	\$ 6,185,230.55	\$ -
1980-1989				
Alexander	86,900	1980	\$ 20,058,834.73	\$ -
Cooper Building	12,150	1984	2,804,543.63	-
Olds/Robb Center	180,631	1984	41,694,446.21	-
Paint Research	8,000	1987	2,577,942.55	-
Corporate Education Center	37,200	1989	9,580,689.57	-
Total	324,881	5	\$ 76,716,456.69	\$ -
1990-1999				
Owen C.O.B.	126,000	1990	\$ 35,175,329.33	\$ 15,000.00
Physical Plant	25,300	1995	5,839,913.90	-
Physical Plant Storage	8,500	1995	1,962,026.41	-
Team Building	13,536	1995	3,124,469.35	-
Convocation Center	198,385	1998	45,792,542.33	-
Greenhouse & Aquatic	5,200	1998	1,200,298.50	-
Halle Library	273,715	1998	63,180,712.87	20,000.00
Total	650,636	7	\$ 156,275,292.69	\$ 35,000.00
Post 2000				
Everett C. Marshall	70,324	2000	\$ 16,232,652.40	\$ -
Hover	11,021	1941/2002	3,550,253.95	-
University House	10,700	2003	2,961,552.62	-
Student Union	176,000	2006	36,446,080.00	-
Total	268,045	4	\$ 59,190,538.97	\$ -
Sitework, Drains, & Infrastructure				
Campus Buildings	n/a	n/a	n/a	\$ 324,392.00
Coral Sub	n/a	n/a	n/a	-
Tunnels	n/a	n/a	n/a	120,000.00
Total	n/a	n/a	n/a	\$ 444,392.00
Total Building Deficiencies	2,908,891	45	\$ 736,578,456.31	\$ 507,392.00

Memo:
Average Cost Per Sq. Ft. \$ 253.00

**EASTERN MICHIGAN UNIVERSITY
CAPITAL OUTLAY REQUEST FY 2008
FACILITY ASSESSMENT**

ROADS, STREETS, PARKING LOTS AND STRUCTURES

Overview:

The University Parking and Roadway System (System) contains twenty-eight primary parking lots, multiple specialized parking lots, and two parking structures for a total of 10,409 parking spaces. The System also contains 5.2 miles of roads, miles of curbs, and 23 miles of sidewalks, providing access to all points on campus for pedestrian and vehicular traffic.

These quantities now include the new Student Center Parking Lot which contains 207 total parking spaces, seven of which are ADA compliant. This lot is scheduled to come on-line on November 2006.

System Condition and Adequacy:

The overall condition of the System is fair to good. The table that follow evaluate the present condition of pavements within the system, estimate future performance trends, determine the asset preservation and repair needs, and identifies a single and five-year prioritized pavement maintenance plan for the system.

The plan consists of several distinct steps to obtain the baseline inventory and condition information and to evaluate the data to create the single and five-year maintenance plan:

- Prepare a single-year and integrated five-year pavement and architectural civil plan
- Divide the overall pavement system into a series of distinct branches and sections based on their location, design, usage, and estimated construction or major maintenance dates
- Perform visual surveys of the paved areas
- Evaluate the field condition survey data
- Develop maintenance policies that can be used to identify repair and maintenance procedures/strategies, determine schedule and budget priorities, and establish serviceability levels for the various pavements

The Department of Public Safety is planning a renovation and addition to their current location. The project will include a complete rework of the Parking Department, relocating the Health and Safety Department, and a new men's locker room. This renovation will enhance campus security.

EMU's future investments in the University Parking and Roadway System are detailed in the Conditions Assessments Table, the University Parking 5 Years Plan, and the Annual Parking Maintenance Tables that follow:

**EASTERN MICHIGAN UNIVERSITY
CAPITAL OUTLAY REQUEST FY 2008
FACILITY ASSESSMENT**

CONDITION ASSESSMENT

University Roads

Street Name	Condition	Year of Replacement/ Improvement	Estimated Cost	Proposed Funding Source
Ainsley Extension	Poor	2010	\$125,000	General Fund
Convocation Center Service Drive	Good	2012	\$35,000	Auxiliaries
East Circle Drive - Lowell to Blount	Poor	2009	\$37,100	Auxiliaries
East Circle Drive - Blount to Ann Street	Fair	2009	\$262,880	Auxiliaries
Jones-Goddard Drive	Good	2012	\$87,980	Auxiliaries
Mayhew Street	Fair	2018	\$154,320	General Fund
McKenny Drive	Good	2013	\$121,900	General Fund
Oakwood Street	Good	2020	\$397,500	MDOT/General Fund
Parking Structure Drive	Good	2015	\$42,930	General Fund
Phelps-Sellers Service Drive	Good	2015	\$30,000	General Fund
West Circle Drive	Fair	2017	\$351,920	General Fund
Westview Entrance Drive	Good	2010	\$146,280	Auxiliaries
Westview Apartments - North	Excellent	2020	\$50,000	Auxiliaries
Westview Apartments - West	Excellent	2020	\$70,000	Auxiliaries
Total			\$1,912,810	
(1) Reflected in 2006 Dollars				
(2) Inflation Rate 6% over 2005 Dollars				

University Parking - 5 Year Plan
2008 --- 2012
Table 18

<u>Lot Name</u>	<u>Lot Condition</u>	<u>Action</u>	<u>Est. Cost</u>
<u>Fiscal Year 1 - 2007 - 2008</u>			
Main Campus Parking Structure	Good	Maintenance	\$31,800
COB Parking Structure	Fair	Maintenance	\$45,000
Snow Lot	Poor	Restoration	\$63,600
Rynearson Lot	Poor	Maintenance	\$31,800
Downing Meters	Poor	Maintenance	\$42,400
Bowman Lot	Poor	Restoration	\$100,000
Storm Detention		Maintenance	\$10,600
Misc. Concrete		Maintenance	\$26,500
Re-stripe		Maintenance	\$3,180
Estimated Year Total			\$354,880
<u>Fiscal Year 2 - 2008 - 2009</u>			
Ann Street Lot	Poor	Restoration	\$328,600
Main Campus Parking Structure	Good	Maintenance	\$26,500
Storm Detention		Maintenance	\$7,950
Misc. Concrete		Misc.	\$37,100
Re-stripe		Maintenance	\$3,180
Estimated Year Total			\$403,330
<u>Fiscal Year 3 - 2009 - 2010</u>			
Smith Lot	Fair	Maintenance	\$15,000
North Campus #1 Lot	Fair	Overlay	\$291,500
Ford Lot	Good	Maintenance	\$55,000
Storm Detention		Maintenance	\$7,950
Misc. Concrete		Misc.	\$15,900
Re-stripe		Maintenance	\$3,180
Estimated Year Total			\$388,530
<u>Fiscal Year 4 - 2010 - 2011</u>			
Rynearson Lot Phase I	Poor	Restoration	\$296,800
Storm Detention		Maintenance	\$7,950
Misc. Concrete		Misc.	\$37,100
Re-stripe		Maintenance	\$3,180
Estimated Year Total			\$345,030
<u>Fiscal Year 5 - 2011 - 2012</u>			
Rynearson Lot Phase II	Poor	Restoration	\$296,800
Storm Detention		Maintenance	\$7,950
Misc. Concrete		Misc.	\$37,100
Re-stripe		Maintenance	\$3,180
Estimated Year Total			\$345,030
Five Year Project Total			\$1,836,800

STATUS OF OTHER LOTS

Bowen Lot	Good
Children's Center Lot	Good
Convocation Center Lot	Fair
Jefferson Lot	Good
Mayhew Lot	Good
Normal Street Lot	Fair
Oakwood Lot	Good
Oakwood North	Good
Parking Structure Surface Lot	Good
Pierce Lot	Poor
Rynearson Lot	Poor
Smith Lot	Good

**Eastern Michigan University
Annual Parking Maintenance Funding
Table 19**

PARKING STRUCTURES							
Name	Year Constructed or Replaced	Size	Re-stripping Every 3 Yrs	Repairs Every 8 Yrs	Replacement Cost	Planned Year of Renovation or Improvement	Annual Funding Required
COB Parking Structure	1990	356	\$ 1,298.50	\$ 371,000.00	\$ 5,660,400.00	2010	\$ 56,975.00
Main Parking Structure	1992	780	\$ 2,862.00	\$ 821,500.00	\$ 12,402,000.00	2012	\$ 69,059.00
Total Parking Structures							\$ 126,034.00

PARKING LOTS							
Name	Year Constructed or Replaced	Size	Re-stripping Every 3 Yrs	Repairs Every 8 Yrs	Replacement Cost	Planned Year of Renovation or Improvement	Annual Funding Required
Ann Street Lot	1984	452	\$ 1,621.80	\$ 18,550.00	\$ 498,200.00	2008	\$ 12,720.00
Bowen Lot	1995	191	\$ 689.00	\$ 7,950.00	\$ 307,400.00	2010	\$ 12,720.00
Bowman Lot	1985	87	\$ 620.10	\$ 7,102.00	\$ 212,000.00	2006	\$ 18,020.00
Children's Center Lot	1990	16	\$ 106.00	\$ 795.00	\$ 40,280.00	2010	\$ 5,883.00
Convocation Center Lot	1998	958	\$ 3,351.00	\$ 40,280.00	\$ 2,030,960.00	2018	\$ 18,020.00
Ford Lot	1994	335	\$ 1,234.90	\$ 14,098.00	\$ 705,960.00	2011	\$ 5,300.00
Hoyt Parking Lot	1986	250	\$ 1,510.50	\$ 17,172.00	\$ 608,440.00	2009	\$ 13,780.00
Jefferson Lot	1993	39	\$ 159.00	\$ 1,590.00	\$ 82,680.00	2013	\$ 7,102.00
Mayhew Lot	1998	356	\$ 1,325.00	\$ 15,211.00	\$ 761,080.00	2018	\$ 3,710.00
McKenny Union Lot	1993	388	\$ 1,431.00	\$ 1,484.00	\$ 537,420.00	2013	\$ 7,420.00
New Alexander Lot	2002	72	\$ 1,431.00	\$ 3,180.00	\$ 13,250.00	2018	\$ 7,420.00
Normal Street Lot	1992	71	\$ 212.00	\$ 2,650.00	\$ 152,640.00	2012	\$ 11,448.00
North Campus Lot #1 - East	1991	896	\$ 3,286.00	\$ 37,948.00	\$ 1,899,520.00	2009	\$ 18,020.00
North Campus Lot #1 - East Addition	2002	856	\$ 3,286.00	\$ 37,948.00	\$ 1,902,700.00	2015	\$ 18,020.00
North Campus Lot #2	1986	407	\$ 1,510.50	\$ 17,172.00	\$ 968,840.00	2007	\$ 13,780.00
Oakwood Lot	1998	494	\$ 1,696.00	\$ 19,504.00	\$ 1,009,120.00	2012	\$ 10,600.00
Oakwood North	1998	100	\$ 371.00	\$ 4,346.00	\$ 216,240.00	2012	\$ 13,992.00
Parking Structure Surface Lot	1995	107	\$ 397.50	\$ 4,558.00	\$ 226,840.00	2015	\$ 15,582.00
Pease Lot	2005	287	\$ 1,060.00	\$ 12,190.00	\$ 455,800.00	2020	\$ 40,280.00
Pierce Lot	1988	9	\$ 106.00	\$ 371.00	\$ 40,280.00	2007	\$ 3,180.00
Rackham Lot	1989	11	\$ 106.00	\$ 1,060.00	\$ 79,500.00	2009	\$ 7,420.00
Roosevelt Lot	2000	66	\$ 265.00	\$ 2,650.00	\$ 148,400.00	2018	\$ 10,600.00
Rynearson Lot	1987	962	\$ 3,286.00	\$ 37,471.00	\$ 1,635,580.00	2010	\$ 32,860.00
Sill Lot	2002	75	\$ 402.80	\$ 4,664.00	\$ 132,500.00	2012	\$ 19,080.00
Softball Complex Lot	2003	356	\$ -	\$ 15,211.00	\$ 424,000.00	2008	\$ 6,360.00
Smith Lot	1992	68	\$ 212.00	\$ 1,908.00	\$ 97,520.00	2012	\$ 9,858.00
Snow Lot	1989	45	\$ 212.00	\$ 1,696.00	\$ 53,000.00	2007	\$ 8,586.00
Student Center Lot	2006	207	\$ 1,060.00	\$ 8,798.00	\$ 329,130.00	2020	\$ 7,950.00
Student Center Loading Dock Drive	2006	7	\$ 106.00	\$ 371.00	\$ 42,400.00	2020	\$ 1,060.00
Washington Street Lot	1990	121	\$ 450.50	\$ 5,088.00	\$ 256,520.00	2011	\$ 5,000.00
Total Parking Lots							\$ 365,771.00

Eastern Michigan University
Annual Parking Maintenance Funding
Table 19

OTHER PARKING AREAS										
Name	Year Constructed or Replaced	Size	Re-striping Every 3 Yrs	Repairs Every 8 Yrs	Replacement Cost	Planned Year of Renovation or Improvement	Annual Funding Required			
611 W. Cross	1969	39	\$ 106.00	\$ 212.00	\$ 63,600.00	2011	\$ 1,060.00			
Central Receiving Gravel Lot	1985	4	\$ 106.00	\$ 212.00	\$ 8,480.00	2009	\$ 2,544.00			
Cooper Parking Lot	1984	69	\$ 275.60	\$ 3,180.00	\$ 159,000.00	2015	\$ 12,190.00			
East Circle Drive Parking (South Segment)	1994	24	\$ 106.00	\$ 1,060.00	\$ 50,880.00	2007	\$ 4,240.00			
Heating Plant - Library Service Area	1998	12	\$ 106.00	\$ 530.00	\$ 25,440.00	2018	\$ 2,438.00			
Jones-Goddard Drive Parking	1992	25	\$ 106.00	\$ 1,060.00	\$ 53,000.00	2012	\$ 5,300.00			
Mayhew Drive Parking	2001	55	\$ 106.00	\$ 265.00	\$ 86,920.00	2013	\$ 2,120.00			
McKenny Loading	1993	6	\$ 106.00	\$ 265.00	\$ 12,720.00	2011	\$ 2,120.00			
North Rynearson	1987	11	\$ 106.00	\$ 530.00	\$ 25,440.00	2018	\$ 2,438.00			
Oestrike Parking Lot	1975	34	\$ 106.00	\$ 265.00	\$ 55,120.00	2013	\$ 2,120.00			
Parking Structure Drive	1995	7	\$ 106.00	\$ 318.00	\$ 14,840.00	2015	\$ 2,120.00			
Physical Plant Yard and Parking	1995	74	\$ 275.60	\$ 3,180.00	\$ 156,880.00	2015	\$ 12,190.00			
Physical Plant Meters	1995	49	\$ 212.00	\$ 4,240.00	\$ 23,320.00	2015	\$ 2,120.00			
Pray Harroid Meters	2002	13	\$ 106.00	\$ 530.00	\$ 25,440.00	2018	\$ 2,438.00			
Quirk-Sponberg Theatre Entrance	1985	3	\$ 106.00	\$ 212.00	\$ 6,360.00	2011	\$ 2,226.00			
Sculpture Studio Lot	1994	12	\$ 106.00	\$ 530.00	\$ 25,440.00	2011	\$ 2,438.00			
University Computing Loading Dock	1994	3	\$ 106.00	\$ 212.00	\$ 6,360.00	2011	\$ 1,060.00			
West Circle Drive Parking	2001	37	\$ 106.00	\$ 265.00	\$ 55,120.00	2013	\$ 2,120.00			
Total Other Parking Areas							\$ 63,282.00			

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Eastern Michigan University
Annual Parking Maintenance Funding
Table 19

HOUSING PARKING LOTS									
Name	Year Constructed or Replaced	Size	Re-striping Every 3 Yrs	Repairs Every 8 Yrs	Replacement Cost	Planned Year of Renovation or Improvement	Annual Funding Required		
600 W. Forest	1985	3	\$	233.20	\$ 6,360.00	2013	\$ 2,120.00		
Cornell-Bellows	1982	25	\$ 116.60	\$ 1,166.00	\$ 53,000.00	2008	\$ 17,702.00		
Cornell - Estabrook	1985	10	\$ 116.60	\$ 466.40	\$ 21,200.00	2015	\$ 3,604.00		
DC I	1985	10	\$ 116.60	\$ 466.40	\$ 21,200.00	2011	\$ 3,604.00		
Downing Meter	1989	26	\$ 116.60	\$ 1,166.00	\$ 50,880.00	2011	\$ 5,194.00		
East Circle Drive - Best	1989	24	\$ 116.60	\$ 1,166.00	\$ 50,880.00	2008	\$ 5,194.00		
East Circle Drive (W & N Segment)	1989	45	\$ 233.20	\$ 2,332.00	\$ 95,400.00	2008	\$ 9,858.00		
Goddard Meter	1989	15	\$ 116.60	\$ 1,166.00	\$ 50,880.00	2015	\$ 5,194.00		
Jones Meters	1985	8	\$ 116.60	\$ 466.40	\$ 21,200.00	2012	\$ 3,604.00		
Walton Parking	1989	46	\$ 233.20	\$ 2,332.00	\$ 97,520.00	2013	\$ 9,858.00		
Sellers Parking	1989	29	\$ 233.20	\$ 1,272.00	\$ 57,240.00	2013	\$ 5,936.00		
St. Johns Parking Lot	1985	8	\$ 116.60	\$ 233.20	\$ 8,480.00	2010	\$ 2,544.00		
Towers - Hoyt Center Lot	1990	6	\$ 116.60	\$ 280.90	\$ 1,272.00	2012	\$ 1,166.00		
Towers Parking - West	1998	27	\$ 116.60	\$ 795.00	\$ 38,160.00	2018	\$ 2,120.00		
Westview Apartments - Northeast Lot	1986	57	\$ 233.20	\$ 1,484.00	\$ 67,840.00	2011	\$ 9,752.00		
Westview Apartments - Northwest Lot	1986	59	\$ 233.20	\$ 2,703.00	\$ 125,928.00	2012	\$ 18,020.00		
Westview Apartments - South Lot	1991	53	\$ 233.20	\$ 1,802.00	\$ 84,800.00	2011	\$ 7,314.00		
Westview Apartments - West Lot	1986	56	\$ 233.20	\$ 2,491.00	\$ 118,720.00	2011	\$ 16,960.00		
Total Housing Parking Lots		507					\$ 129,744.00		
Less Housing Contribution (75%)							\$ 97,308.00		
Revised Housing Parking Lot Total							\$ 32,436.00		

TOTAL PARKING			
PARKING STRUCTURES	1136		\$ 126,034.00
PARKING LOTS	8289		\$ 365,771.00
OTHER PARKING AREAS	477		\$ 63,282.00
HOUSING PARKING LOTS	507		\$ 32,436.00
OVERALL TOTAL	10409		\$ 587,523.00

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EASTERN MICHIGAN UNIVERSITY

CAPITAL OUTLAY REQUEST FY 2008

Implementation Plan

- Pray-Harrold Modernization
 - Asset Preservation
 - Campus Facility Index Plan
- 2008 – 20012 Asset Preservation Project Plan
- Asset Preservation Projects – Greater than \$1.0 million
 - Summary of Major Building Renovation Projects



**EASTERN MICHIGAN UNIVERSITY
 FY 2008 CAPITAL OUTLAY PROJECT REQUEST
 PRAY-HARROLD MODERNIZATION
 TOTAL PROJECT COST \$52,694,936**

<i>Is the Project a Renovation or New Construction?</i>	Ren (X)	New (X)
<i>Is there a 5-Year Master Plan available?</i>	Yes (X)	No ()
<i>Are Professionally-Developed Program Statements and/or Schematic Plans Available Now?</i>	Yes (X)	No ()
<i>Are Match Resources Currently Available?</i>	Yes (X)	No ()
<i>Has the University Identified Available Operating Funds?</i>	Yes (X)	No ()

A. Project Description Narrative

The Pray-Harrold Classroom Building is the largest classroom building on the Eastern Michigan University (EMU) Campus, serving 10,000 students each day. When it was opened in 1969, it was the largest classroom building in the State of Michigan. Pray-Harrold houses the offices of the College of Arts and Sciences and the Departments of English Language and Literature, History and Philosophy, African American Studies, Economics, Computer Science, Mathematics, Political Science, Sociology, Anthropology and Criminology, as well as the Writing Center and the Mathematics Center. Pray-Harrold also houses the University's Information and Communications Technology (ICT) Department. Virtually every undergraduate student who attends EMU has classes in Pray-Harrold.

Deficiencies in Pray-Harrold include the following:

- Inadequate technology infrastructure; -
- Inadequate HVAC systems that are not designed for new technology;
- A taxed electrical system operating at maximum capacity;
- Energy inefficient original windows and other building envelope maintenance issues;
- Inadequate handicap accessibility;
- Overcrowded classrooms and laboratory space;
- Lack of student commons areas;
- Outdated departmental and faculty offices.

The project will include renovation of the existing structure and an addition to the building housing large classroom and lecture spaces as well as student commons areas. Renovation of the existing 234,500-square-foot structure will include reconfiguration of existing space to accommodate additional classroom and computer lab space as well as new technology; a new dedicated electrical primary service; replacing and modifying the HVAC system; wiring for information technology; replacement of architectural, structural, mechanical and electrical systems; upgrading to comply with ADA standards; and addressing code issues including life safety.

The 45,000 net square-foot addition will include classrooms, lecture halls and student commons areas.

**EASTERN MICHIGAN UNIVERSITY
CAPITAL OUTLAY REQUEST FY 2008
IMPLEMENTATION PLAN**

The total project is estimated to cost \$52,694,936 broken down in the following components:

• Infrastructure	\$14,800,000
• Renovation	6,553,850
• New Addition	11,885,250
• Technology	3,007,940
• Fees, Contingencies, Permits and Administrative Costs	11,229,504
• Owner Costs	<u>5,218,392</u>
Total	\$52,694,936

It is estimated that the project can begin as early as January 2007, and would be completed within 26 months.

The estimated additional annual operating costs are \$171,700 and would be funded from the University's General Fund. There will be no impact on student tuition and fees.

B. Other Alternatives Considered

Demolition and replacement of the Pray-Harrold Classroom Building was considered and abandoned for several reasons. As the largest classroom building on campus, the University cannot offer its full academic program without continuous use of this facility. There is no other academic building that can accommodate the 10,000 students who attend classes there daily or the faculty whose offices are located on the top floors. More than \$10 million was invested in Pray-Harrold in 2000 following a fire in the Mechanical Room. The fire restoration project included replacement of an air handler, asbestos abatement, new lighting system, ceilings, partial replacement of the roof and reconstruction of the Mechanical Room. We believe it is fiscally responsible to renovate this academic facility and to preserve the investment already made.

The building is centrally located on the campus, close to residence halls, other academic facilities, including the library, and parking. There is no other space on the central campus that can accommodate the foot print needed for the building. Relocating the building to another site loses its centrality to the core campus, would require additional parking and new infrastructure for utilities at costs that far exceed renovation costs. The building's structure is in good condition and therefore warrants renovation rather than a new building. Pray-Harrold would still have to be renovated or razed should a new edifice be constructed.

Eastern Michigan University is the second oldest campus in the State of Michigan, with the University of Michigan being the oldest institution. The state's investment in buildings and infrastructure should be preserved when possible and financially feasible to do so. The construction costs associated with a new building were carefully studied and found not to be fiscally prudent given the constraints on available state and institutional funds for capital

**EASTERN MICHIGAN UNIVERSITY
CAPITAL OUTLAY REQUEST FY 2008
IMPLEMENTATION PLAN**

projects. We believe, when possible, existing buildings that are structurally sound should be renovated and modernized as opposed to razing buildings for new structures.

C. Programmatic Benefit to State Taxpayers and Specific Clientele or Constituencies

The programmatic benefit of this project will be to better serve current and future students through enhanced learning spaces and technology and to help the University recruit and retain students and faculty. Classes are held in Pray-Harrold six days each week (Monday through Saturday), up to 14 hours per day. As many as 10,000 students attend classes in Pray-Harrold on a daily basis, which is more than 40 percent of EMU's student population. As the most utilized classroom building on campus, renovation of Pray-Harrold will impact virtually every undergraduate student, many graduate students and the largest number of faculty in any building on campus.

At the time Pray-Harrold opened, EMU served a student population of approximately 17,000. Today, EMU serves almost 24,000 students, which has resulted in an increased utilization of Pray-Harrold of more than 40 percent since it opened. Faculty and students have identified issues in Pray-Harrold for at least a decade, including HVAC issues and the constant breakdown of elevators. But most pressing is the lack of infrastructure to support modern technology such as data ports for student laptops and computer-assisted instructional capabilities for faculty. This 21st century technology is available in many of the high schools and community colleges that our students have attended.

The Pray-Harrold Renovation Project will provide economic benefit to the City of Ypsilanti and the eastern Washtenaw County area, both economically depressed areas, through the creation of more than 250 new construction jobs over 26 months. The creation of new jobs is critical given the announcement of an impending Visteon Ypsilanti Plant closing. EMU has a significant impact on the local economy, estimated at \$507 million annually in the most recent economic impact study. For this area of Washtenaw County, it is imperative that EMU remain a vital and vibrant institution. Further, this project will renovate existing facilities in order to utilize existing infrastructure and promote reinvestment on EMU's central campus.

D. Funding Resources

Matching funds of \$13,173,734 will be provided through the sale of bonds. The University is prepared, and has the financial capacity, to execute the borrowing. Repayment of these bonds will be funded by the four-percent tuition and fee increase that began in FY 2006 to address the campus' capital needs.

Eastern Michigan University
Classroom Utilization for Sections of Courses - Pray Harrold Hall - Fall Semester 2002
Rooms in General Use for Class Scheduling = 64

Time	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday	
	Rooms In Use	Percent In Use										
8:00 AM	22	34.38%	23	35.94%	22	34.38%	23	35.94%	20	31.25%	4	6.25%
9:00 AM	53	82.81%	55	85.94%	53	82.81%	53	82.81%	48	75.00%	9	14.06%
10:00 AM	60	93.75%	55	85.94%	60	93.75%	54	84.38%	56	87.50%	10	15.63%
11:00 AM	59	92.19%	59	92.19%	59	92.19%	57	89.06%	53	82.81%	13	20.31%
12:00 PM	50	78.13%	60	93.75%	49	76.56%	58	90.63%	42	65.63%	12	18.75%
1:00 PM	53	82.81%	54	84.38%	53	82.81%	53	82.81%	43	67.19%	12	18.75%
2:00 PM	38	59.38%	58	90.63%	38	59.38%	56	87.50%	31	48.44%	11	17.19%
3:00 PM	18	28.13%	56	87.50%	19	29.69%	58	90.63%	5	7.81%	4	6.25%
4:00 PM	28	43.75%	44	68.75%	28	43.75%	43	67.19%	0	0.00%	1	1.56%
5:00 PM	47	73.44%	40	62.50%	48	75.00%	38	59.38%	1	1.56%	0	0.00%
6:00 PM	46	71.88%	46	71.88%	48	75.00%	42	65.63%	1	1.56%	0	0.00%
7:00 PM	51	79.69%	51	79.69%	52	81.25%	44	68.75%	1	1.56%	0	0.00%
8:00 PM	43	67.19%	41	64.06%	45	70.31%	38	59.38%	1	1.56%	0	0.00%
9:00 PM	23	35.94%	27	42.19%	20	31.25%	20	31.25%	0	0.00%	0	0.00%
Averages	42.33	66.15%	51.56	80.56%	42.33	66.15%	50.56	78.99%	33.11	51.74%	8.44	13.19%

Day Class Schedule Averages - 8 AM to 5 PM

42.33	66.15%	51.56	80.56%	42.33	66.15%	50.56	78.99%	33.11	51.74%	8.44	13.19%
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Evening Class Schedule Averages - 5 PM to 10 PM

42.00	65.63%	41.00	64.06%	42.60	66.56%	36.40	56.88%	0.80	1.25%	0.00	0.00%
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Source: Integrated Student Information System as of September 30, 2002

Building Name	Room Type Code	Room Type Description	Room Nbr	Room Qty	Room Title
Pray-Harrold Hall	110	AS Classroom	201	00450	A&S Lg Lecture Hall
Pray-Harrold Hall	110	AS Classroom	202	00050	AS Classroom
Pray-Harrold Hall	110	AS Classroom	203	00050	College of A & S Classroom
Pray-Harrold Hall	110	ED Classroom	203	00030	ED Classroom
Pray-Harrold Hall	110	AS Classroom	204	00350	A&S Large Lecture Hall
Pray-Harrold Hall	110	AS Classroom	207	00027	English Classroom
Pray-Harrold Hall	110	AS Classroom	209	00050	Mathematics Classroom
Pray-Harrold Hall	110	AS Classroom	210	00035	English medium classroom
Pray-Harrold Hall	110	AS Classroom	213	00350	Arts & Sciences Large Lecture
Pray-Harrold Hall	110	AS Classroom	214	00050	Pre-College Mathematics Classrm
Pray-Harrold Hall	110	AS Classroom	215	00050	Pre-College Mathematics Classrm
Pray-Harrold Hall	110	AS Classroom	216	00250	A&S/HHS Lg Lecture Hall
Pray-Harrold Hall	110	AS Classroom	219	00050	Commun Theatre & Art Classroom
Pray-Harrold Hall	110	AS Classroom	301	00050	Computer Science Classroom
Pray-Harrold Hall	110	AS Classroom	302	00050	Computer Science Classroom
Pray-Harrold Hall	110	AS Classroom	303	00050	Computer Science Classroom
Pray-Harrold Hall	110	AS Classroom	304	00050	CTA Classroom
Pray-Harrold Hall	110	AS Classroom	305	00050	Math Classroom
Pray-Harrold Hall	110	AS Classroom	306	00050	English Classroom
Pray-Harrold Hall	110	AS Classroom	307	00050	English Classroom
Pray-Harrold Hall	110	AS Classroom	308	00050	English Classroom
Pray-Harrold Hall	110	AS Classroom	317	00045	English Medium Classroom
Pray-Harrold Hall	110	AS Classroom	319	00050	English Classroom
Pray-Harrold Hall	110	AS Classroom	320	00050	English/CTA Classroom
Pray-Harrold Hall	110	AS Classroom	321	00050	Math Classroom
Pray-Harrold Hall	110	AS Classroom	322	00050	Math Classroom
Pray-Harrold Hall	110	AS Classroom	323	00050	Math Classroom
Pray-Harrold Hall	110	AS Classroom	324	00050	Math Classroom
Pray-Harrold Hall	110	AS Classroom	325	00035	English Medium Classroom
Pray-Harrold Hall	110	AS Classroom	326	00025	English Small Classroom
Pray-Harrold Hall	110	AS Classroom	328	00025	English Small Classroom
Pray-Harrold Hall	110	AS Classroom	329	00035	English Medium Classroom
Pray-Harrold Hall	110	AS Classroom	401	00050	History/Philosophy Classroom
Pray-Harrold Hall	110	AS Classroom	402	00050	History/Philosophy Classroom
Pray-Harrold Hall	110	AS Classroom	403	00050	History/Philosophy Classroom
Pray-Harrold Hall	110	AS Classroom	404	00050	History/Philosophy Classroom
Pray-Harrold Hall	110	AS Classroom	405	00050	History/Philosophy Classroom
Pray-Harrold Hall	110	AS Classroom	406	00050	Economics Classroom
Pray-Harrold Hall	110	AS Classroom	407	00050	Economics Classroom
Pray-Harrold Hall	110	AS Classroom	408	00050	Economics Classroom
Pray-Harrold Hall	110	AS Classroom	414	00050	Math Classroom
Pray-Harrold Hall	110	AS Classroom	415	00050	Sociology/Anthropology Classrm
Pray-Harrold Hall	110	AS Classroom	416	00050	Sociology/Anthropology Classrm
Pray-Harrold Hall	110	AS Classroom	417	00050	History/Philosophy Classroom
Pray-Harrold Hall	110	AS Classroom	418	00050	History/Philosophy Classroom
Pray-Harrold Hall	110	AS Classroom	419	00050	Political Science Classroom
Pray-Harrold Hall	110	AS Classroom	420	00050	Political Science Classroom
Pray-Harrold Hall	110	AS Classroom	421	00050	Political Science Classroom
Pray-Harrold Hall	110	AS Classroom	422	00025	Arts & Sciences Classroom

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Building Name	Room Type Code	Room Type Description	Room Nbr	Room Qty	Room Title
Pray-Harrold Hall	110	AS Classroom	424	00025	English Small Classroom
Pray-Harrold Hall	110	AS Classroom	608	00025	Eng sm classrm
Pray-Harrold Hall	110	AS Classroom	609	00025	English Small Classroom
Pray-Harrold Hall	110	AS Classroom	618	00025	English Small Classroom
Pray-Harrold Hall	110	AS Classroom	709	00020	Arts & Sciences Small Classrm
Pray-Harrold Hall	110	AS Classroom	715	00020	College of Arts & Sciences
Pray-Harrold Hall	110	ED Classroom	715	00015	ED Seminar Room
Pray-Harrold Hall	110	ED Classroom	718	00025	ED Classroom
Pray-Harrold Hall	110	AS Classroom	718	00020	CAS Classroom
Pray-Harrold Hall	110	ED Classroom	719	00025	ED Classroom
Pray-Harrold Hall	110	AS Classroom	719	00025	CAS Classroom
Pray-Harrold Hall	210	AS Classroom Laboratory	312	00020	ENGL Computer Laboratory
Pray-Harrold Hall	210	AS Classroom Laboratory	314	00020	Journalism Lab
Pray-Harrold Hall	210	AS Classroom Laboratory	508	00000	Mathematics Education Lab
Pray-Harrold Hall	210	AS Classroom Laboratory	508D	00000	Mth Comp Lab
Pray-Harrold Hall	210	AS Classroom Laboratory	513	00000	Computer Science Gen. Open Lab
Pray-Harrold Hall	210	AS Classroom Laboratory	514	00000	Computer Science Computer Lab
Pray-Harrold Hall	210	AS Classroom Laboratory	520	00000	Computer Science Computer Lab
Pray-Harrold Hall	210	AS Classroom Laboratory	521	00000	Computer Science Literacy Lab
Pray-Harrold Hall	210	AS Classroom Laboratory	708	00000	Economics GA Lab
Pray-Harrold Hall	220	AS Special Class Laboratory	311	00035	Computer Science Computer Lab
Pray-Harrold Hall	220	AS Special Class Laboratory	503	00000	Mathematics Graphing Calc. Lab
Pray-Harrold Hall	220	AS Special Class Laboratory	619	00025	AS Special Class Laboratory
Pray-Harrold Hall	220	AS Special Class Laboratory	717	00000	
Pray-Harrold Hall	230	AS Individual Study Laboratory	217	00035	Math Testing and Tutoring
Pray-Harrold Hall	230	AS Individual Study Laboratory	221	00035	Mathematics Tutoring

COUNT 75

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**EASTERN MICHIGAN UNIVERSITY
CAPITAL OUTLAY REQUEST FY 2008
IMPLEMENTATION PLAN**

ASSET PRESERVATION

CAMPUS FACILITY INDEX PLAN

The campus facility index model incorporates current and projected building deterioration rates, inflation rates, price indexes, and other factors and variables for the purpose of demonstrating the affect of various funding levels on overall facility condition and backlog deficiency levels. The model can also be used to project over a specific duration of time the funding required to achieve a facilities-condition index goal.

Accepted facility condition index standards fall into three categories: an index of less than .05 is considered "good"; .05 to .10 is considered "fair"; and greater than .10 is rated "poor." Of the University's general fund buildings, 55 percent have an index level of "good", 20 percent are rated "fair" and 25 percent are rated "poor." The University's overall facility condition index is .07 – "fair" (Table 8, reflects facility condition index by building). The University's facility index goal is to achieve and maintain an overall rating of "good".

BACKLOG DEFICIENCY -- EXCLUDING MAJOR BUILDING RENEWALS

Table 20a

Campus Systems Repair vs. Replacement model
(Architectural, Mechanical, Electrical, Elevators, Life Safety)

Parameters:

Current Replacement Value	CRV	\$736,578,456
Systems Replacement Value (50% of CRV)	SRV	\$368,289,228
Deficiencies Backlog, current total campus	DB	\$51,093,720
General Fund Square Footage, total campus		2,908,891
Net Replacement Value	NRV	\$685,484,736
Average Annual Deterioration Rate	ADR	1.50%
Accelerated Annual Deterioration Rate	AcDR	0.00%
Producer Price Index	PPI	1.40%
Useful Life	UL	30
Rate of Appreciation	A	1.20%
Current Campus Facilities Condition Index	FCI	0.07
Annual Asset Preservation Spending		\$2,600,000

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Year	Backlog Deficiency	FCI	Current Facility Replacement Value (CRV)	System Replacement Value (SRV)	Net System Value	Annual Asset Preservation Expense
2006 - 2007	\$51,093,720	0.07	\$736,578,456	\$368,289,228	\$317,195,508	\$2,600,000
2007 - 2008	\$54,696,971	0.07	\$755,853,241	\$377,926,621	\$323,229,650	\$2,600,000
2008 - 2009	\$58,495,227	0.08	\$775,632,409	\$387,816,204	\$329,320,977	\$2,600,000
2009 - 2010	\$62,495,004	0.08	\$795,929,158	\$397,964,579	\$335,469,575	\$2,600,000
2010 - 2011	\$66,703,002	0.08	\$816,757,032	\$408,378,516	\$341,675,514	\$2,600,000
2011 - 2012	\$71,126,122	0.08	\$838,129,930	\$419,064,965	\$347,938,843	\$2,600,000
2012 - 2013	\$75,771,462	0.09	\$860,062,114	\$430,031,057	\$354,259,595	\$2,600,000
2013 - 2014	\$80,646,329	0.09	\$882,568,219	\$441,284,110	\$360,637,781	\$2,600,000
2014 - 2015	\$85,758,239	0.09	\$905,663,265	\$452,831,632	\$367,073,393	\$2,600,000
2015 - 2016	\$91,114,929	0.10	\$929,362,661	\$464,681,330	\$373,566,402	\$2,600,000
2016 - 2017	\$96,724,358	0.10	\$953,682,223	\$476,841,112	\$380,116,754	\$2,600,000
2017 - 2018	\$102,594,715	0.10	\$978,638,179	\$489,319,090	\$386,724,374	\$2,600,000
2018 - 2019	\$108,734,428	0.11	\$1,004,247,183	\$502,123,592	\$393,389,164	\$2,600,000

Memo:

1. Assumes no State funding is made available to EMU for the Mark Jefferson Science Building Renewal project.

BACKLOG DEFICIENCY -- INCLUDING MAJOR BUILDING RENEWALS

Table 20b

Campus Systems Repair vs. Replacement model

(Architectural, Mechanical, Electrical, Elevators, Life Safety)

Parameters:

Current Replacement Value	CRV	\$736,578,456
Systems Replacement Value (50% of CRV)	SRV	\$368,289,228
Deficiencies Backlog, current total campus	DB	\$51,093,720
General Fund Square Footage, total campus		2,908,891
Net Replacement Value	NRV	\$685,484,736
Average Annual Deterioration Rate	ADR	1.50%
Accelerated Annual Deterioration Rate	AcDR	0.00%
Producer Price Index	PPI	1.40%
Useful Life	UL	30
Rate of Appreciation	A	1.20%
Current Campus Facilities Condition Index	FCI	0.07
Annual Asset Preservation Spending		\$2,600,000

Year	Backlog Deficiency	FCI	Current Facility Replacement Value (CRV)	System Replacement Value (SRV)	Net System Value	Annual Asset Preservation Expense
2006 - 2007	\$51,093,720	0.07	\$736,578,456	\$368,289,228	\$317,195,508	\$2,600,000
2007 - 2008	\$54,696,971	0.07	\$755,853,241	\$377,926,621	\$323,229,650	\$2,600,000
2008 - 2009	\$58,495,227	0.08	\$775,632,409	\$387,816,204	\$329,320,977	\$2,600,000
2009 - 2010	\$62,495,004	0.08	\$795,929,158	\$397,964,579	\$335,469,575	\$11,269,916
2010 - 2011	\$57,911,708	0.07	\$816,757,032	\$408,378,516	\$350,466,808	\$2,600,000
2011 - 2012	\$62,211,749	0.07	\$838,129,930	\$419,064,965	\$356,853,216	\$2,600,000
2012 - 2013	\$66,732,288	0.08	\$860,062,114	\$430,031,057	\$363,298,769	\$2,600,000
2013 - 2014	\$71,480,606	0.08	\$882,568,219	\$441,284,110	\$369,803,504	\$2,600,000
2014 - 2015	\$76,464,196	0.08	\$905,663,265	\$452,831,632	\$376,367,436	\$2,600,000
2015 - 2016	\$81,690,769	0.09	\$929,362,661	\$464,681,330	\$382,990,561	\$2,600,000
2016 - 2017	\$87,168,260	0.09	\$953,682,223	\$476,841,112	\$389,672,851	\$2,600,000
2017 - 2018	\$92,904,832	0.09	\$978,638,179	\$489,319,090	\$396,414,257	\$2,600,000
2018 - 2019	\$98,908,886	0.10	\$1,004,247,183	\$502,123,592	\$403,214,705	\$2,600,000

Memo:

- Assumes State funding is made available to EMU for the Mark Jefferson Science Building Renewal project, temporarily eliminating the building's backlog deficiency by 2009-10.

BACKLOG DEFICIENCY -- INCL. MAJOR BLDG. RENEWALS & UNFUNDED ASSET PRESERVATION

Table 20c

Campus Systems Repair vs. Replacement model
(Architectural, Mechanical, Electrical, Elevators, Life Safety)

Parameters:

Current Replacement Value	CRV	\$736,578,456
Systems Replacement Value (50% of CRV)	SRV	\$368,289,228
Deficiencies Backlog, current total campus	DB	\$51,093,720
General Fund Square Footage, total campus		2,908,891
Net Replacement Value	NRV	\$685,484,736
Average Annual Deterioration Rate	ADR	1.50%
Accelerated Annual Deterioration Rate	AcDR	0.00%
Producer Price Index	PPI	1.40%
Useful Life	UL	30
Rate of Appreciation	A	1.20%
Current Campus Facilities Condition Index	FCI	0.07
Annual Asset Preservation Spending		\$6,000,000

Year	Backlog Deficiency	FCI	Current Facility Replacement Value (CRV)	System Replacement Value (SRV)	Net System Value	Annual Asset Preservation Expense
2006 - 2007	\$51,093,720	0.0694	\$736,578,456	\$368,289,228	\$317,195,508	\$6,000,000
2007 - 2008	\$51,249,371	0.0678	\$755,853,241	\$377,926,621	\$326,677,250	\$6,000,000
2008 - 2009	\$51,551,761	0.0665	\$775,632,409	\$387,816,204	\$336,264,443	\$6,000,000
2009 - 2010	\$52,006,729	0.0653	\$795,929,158	\$397,964,579	\$345,957,850	\$14,669,916
2010 - 2011	\$43,828,997	0.0537	\$816,757,032	\$408,378,516	\$364,549,519	\$6,000,000
2011 - 2012	\$44,484,280	0.0531	\$838,129,930	\$419,064,965	\$374,580,685	\$6,000,000
2012 - 2013	\$45,309,035	0.0527	\$860,062,114	\$430,031,057	\$384,722,022	\$6,000,000
2013 - 2014	\$46,309,827	0.0525	\$882,568,219	\$441,284,110	\$394,974,283	\$6,000,000
2014 - 2015	\$47,493,426	0.0524	\$905,663,265	\$452,831,632	\$405,338,206	\$6,000,000
2015 - 2016	\$48,866,809	0.0526	\$929,362,661	\$464,681,330	\$415,814,522	\$6,000,000
2016 - 2017	\$50,437,164	0.0529	\$953,682,223	\$476,841,112	\$426,403,947	\$6,000,000
2017 - 2018	\$52,211,901	0.0534	\$978,638,179	\$489,319,090	\$437,107,189	\$6,000,000
2018 - 2019	\$54,198,654	0.0540	\$1,004,247,183	\$502,123,592	\$447,924,938	\$6,000,000

Memo:

- Assumes State funding is made available to EMU for the Mark Jefferson Science Building Renewal project, eliminating the building's backlog deficiency by 2009-2010.

Eastern Michigan University
Asset Preservation Listing
 Fiscal Year 2008

Building	Project No.	Budget	Project Name	Con	Need	Freq	Total	System Type
Briggs	0040	10,000	BRIG - Interior finishes 2008	04	04	03	11	Architectural
Campus	2218	20,000	CAMP - Absorber 3 yr. overhauls 2008	04	04	02	10	Mechanical
Campus	0101	30,000	CAMP - ADA Accessibility 2008	04	05	02	11	Architectural
Campus	1098	28,000	CAMP - Carpet replacement 2008	04	04	02	10	Architectural
Campus	2405	14,000	CAMP - Chiller & Absorber Ammonia Removal - 2008	03	03	02	08	Mechanical
Campus	2241	15,000	CAMP - Chillers - Eddie Current Testing 2008	04	04	02	10	Mechanical
Campus	0126	45,000	CAMP - Classroom painting 2008	04	04	02	10	Architectural
Campus	2228	25,000	CAMP - Coil Winterizing 2008	03	03	02	08	Mechanical
Campus	0089	243,000	CAMP - Contingency money 2008	04	03	02	09	Architectural
Campus	2236	30,000	CAMP - Cooling Tower and Chilled water sys. chem treat 2008	03	03	02	08	Mechanical
Campus	2247	35,000	CAMP - Damper repairs/filter replacement 2008	03	03	02	08	Mechanical
Campus	2283	25,000	CAMP - Electrical repairs 2008	04	03	02	09	Electrical
Campus	2280	40,000	CAMP - Elevator repairs 2008	04	03	02	09	Elevators
Campus	0103	40,000	CAMP - Fire safety - phase 3 inspections 2008	02	03	02	07	Life Safety
Campus	2287	20,000	CAMP - Generator Emergency services 2008	03	03	02	08	Electrical
Campus	2256	37,000	CAMP - Insulation 2008	04	03	02	09	Mechanical
Campus	2470	10,000	CAMP - Interior finishes 2008	04	04	02	10	Architectural
Campus	2716	25,000	CAMP - Loop 1/1A switchgear and transformer cleaning 2008	04	03	02	09	Electrical
Campus	0715	65,000	CAMP - Project eng. funding 2008	04	04	02	10	Architectural
Campus	2714	52,000	CAMP - Roof Repairs 2008	04	04	04	12	Architectural
Campus	0142	40,000	CAMP - Site work & sidewalk repairs 2008	04	04	02	10	Site Work Drainage
Campus	1086	20,000	CAMP - Water main repairs 2008	03	03	02	08	Mechanical
Campus	1092	20,000	CAMP - Window treatment replacement 2008	04	04	02	10	Architectural
Heating Plant	2261	20,000	HEAT - Feed water pump 2 and stator controls 2008	03	03	01	07	Mechanical
Heating Plant	0182	22,000	HEAT - Flash tank replacement include ash 2008	04	04	01	09	Mechanical
Heating Plant	2263	95,000	HEAT - Roof replacement 2008	03	04	01	08	Architectural
King	0465	5,000	KING - Roof repairs 2008	03	03	02	08	Architectural
Marshall	0688	20,000	MARS - Refurbish interior finishes 2008	04	04	03	11	Architectural
Olds\Robb Center	2269	10,000	OLDS - HVAC Pool Pak maintenance and filter replacement 2008	04	03	04	11	Mechanical
Owen	2479	47,500	OWEN - HVAC controls, tracer replacement 2008	03	04	03	10	Mechanical
Owen	2715	200,000	OWEN - Lighting Retrofit 2008	04	04	03	11	Electrical
Owen	0743	15,500	OWEN - Walls & finishes 2008	04	04	03	11	Architectural
Porter	2485	20,000	PORT - Painting & Architectural repairs 2008	04	04	03	11	Architectural
Rackham	0309	135,000	RACK - Window replacement 2008	04	04	03	11	Architectural

Eastern Michigan University
Asset Preservation Listing
 Fiscal Year 2008

Building	Project No.	Budget	Project Name	Con	Need	Freq	Total	System Type
Roosevelt	0326	20,000	ROOS - Interior finishes 2008	04	04	03	11	Architectural
Roosevelt	0328	115,500	ROOS - Roof repairs 2008	03	03	03	09	Architectural
Rynearson Football	0335	60,000	RYNE - Light replacement 2008	04	03	04	11	Electrical
Rynearson Football	2457	55,000	RYNE - Water proofing 2008	04	04	04	12	Architectural
Sculpture Studio	0512	30,000	SCUL - Fire alarm repairs 2008	04	03	03	10	Life Safety
Sherzer	0355	28,000	SHER - Floors & finishes 2008	04	04	03	11	Architectural
Sherzer	0351	70,000	SHER - HVAC air & fan noise repairs 2008	03	03	03	09	Mechanical
Sherzer	2489	30,000	SHER - Masonry Repairs 2008	02	03	03	08	Architectural
Sill	0514	130,000	SILL - Fire alarm repairs 2008	04	03	03	10	Life Safety
Sill	0363	20,000	SILL - HVAC replace heat pumps, controls, valves, stats 2008	04	04	03	11	Mechanical
Sill	2502	82,000	SILL - Window replacement 2008	04	04	03	11	Architectural
Snow	0377	20,000	SNOW - Electrical panel replacement 2008	04	03	02	09	Electrical
Snow	0380	13,500	SNOW - Floor & finishes 2008	04	04	02	10	Architectural
Snow	0317	24,000	SNOW - Wall & finishes 2008	04	04	02	10	Architectural
Starkweather	0382	70,000	STAR - Window replacement 2008	04	04	02	10	Architectural
Tunnels	2293	28,000	TUNN - Mechanical & structural repairs 2008	03	03	01	07	Architectural
Tunnels	2494	30,000	TUNN - Steam/condensate repairs 2008	03	03	01	07	Mechanical
Warner	2496	195,000	WARN - HVAC System & controls repair/replace. 2008	04	03	03	10	Mechanical
Warner	0426	100,000	WARN - Masonry repairs 2008	03	03	03	09	Architectural

Total	\$2,600,000
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Eastern Michigan University
Asset Preservation Listing
 Fiscal Year 2009

Building	Project No.	Budget	Project Name	Con	Need	Freq	Total	System Type
Alexander	0524	95,000	ALEX - HVAC VAV box & reheat coils 2009	03	03	03	09	Mechanical
Bowen	0028	28,392	BOWE - Plumbing & fixtures 2009	03	03	04	10	Mechanical
Briggs	2467	25,000	BRIG - Masonry repairs 2009	03	03	03	09	Architectural
Campus	2242	15,000	CAMP - Chillers - Eddie Current Testing 2009	04	03	02	09	Mechanical
Campus	2468	25,000	CAMP - ADA Accessibility 2009	04	05	02	11	Architectural
Campus	0110	25,000	CAMP - Carpet replacement 2009	04	04	02	10	Architectural
Campus	2219	18,000	CAMP - Chillers 3 yr. overhaul 2009	04	04	02	10	Mechanical
Campus	2503	12,500	CAMP - Classroom painting 2009	04	04	02	10	Architectural
Campus	2229	16,000	CAMP - Coil Winterizing 2009	04	04	02	10	Mechanical
Campus	1094	259,108	CAMP - Contingency money 2009	04	03	02	09	Mechanical
Campus	2237	30,000	CAMP - Cooling Tower and Chilled water sys. chem treat 2009	04	04	02	10	Mechanical
Campus	1089	30,000	CAMP - Damper repairs and filter replacement 2009	04	03	02	09	Mechanical
Campus	0062	24,500	CAMP - Elevator full load tests 2009	04	03	02	09	Elevators
Campus	2281	25,000	CAMP - Elevator repairs 2009	04	03	02	09	Elevators
Campus	1090	40,000	CAMP - Fire safety - Phase 4 2009	02	03	02	07	Life Safety
Campus	2288	20,000	CAMP - Generator Emergency services 2009	04	03	02	09	Electrical
Campus	2248	30,000	CAMP - HVAC Controls, vavles and damper repairs 2009	04	03	02	09	Mechanical
Campus	2257	20,000	CAMP - Insulation 2009	05	03	02	10	Mechanical
Campus	2277	25,000	CAMP - Lighting repairs 2009	04	03	02	09	Electrical
Campus	0719	25,000	CAMP - Loop 1/1A switchgear and transformer cleaning 2009	04	03	02	09	Electrical
Campus	0716	65,000	CAMP - Project eng. 2009	04	04	02	10	Life Safety
Campus	0121	45,000	CAMP - Roof repairs 2009	03	03	02	08	Architectural
Campus	0462	45,000	CAMP - Site work storm sewer repairs 2009	03	03	02	08	Site Work Drainage
Campus	1091	45,000	CAMP - Steam/condensate repair 2009	04	03	02	09	Mechanical
Campus	1087	21,000	CAMP - Water main repair 2009	03	03	02	08	Mechanical
Cooper	2474	28,000	COOP - Floors & finishes 2009	04	04	02	10	Architectural
Cooper	2453	90,500	COOP - Roof replacement 2009	04	04	02	10	Architectural
Ford	0152	33,000	FORD - Ceiling refurbish - gallery 2009	04	04	03	11	Architectural
Ford	0151	14,000	FORD - Electrical replace secondary panels 2009	03	04	03	10	Electrical
Ford	0149	28,000	FORD - Floors & finishes 2009	04	04	03	11	Architectural
Ford	0158	70,000	FORD - Roof flashing repairs 2009	03	03	03	09	Architectural
Halle library	2475	76,000	HALL - Floors & finishes 2009	04	04	02	10	Architectural
Mark Jefferson	0739	500,000	MARK - Electrical upgrade to 13.2 Kv 2009	04	03	03	10	Electrical
Marshall	0726	15,000	MARS - Elevator repairs 2009	03	03	03	09	Elevators

Eastern Michigan University
Asset Preservation Listing
 Fiscal Year 2009

Building	Project No.	Budget	Project Name	Con	Need	Freq	Total	System Type
Oestrike Stadium	2416	50,000	OEST - Fence Repairs 2009	04	04	04	12	Architectural
Olds/Robb Center	2270	10,000	OLDS - HVAC Pool Pak maintenance and filter replacement 2009	04	03	04	11	Mechanical
Paint Research	2423	15,000	PAIN - Eye wash Life Safety repairs 2009	03	03	03	09	Mechanical
Paint Research	2482	24,000	PAIN - Painting & Architectural repairs 2009	04	03	03	10	Architectural
Pease	0125	45,000	PEAS - Auditorium refurbish 2009	04	04	04	12	Architectural
Phys Plant Storage	2483	25,000	PHST - Roofing & Architectural repairs 2009	04	03	04	11	Architectural
Pierce	0749	24,000	PIER - Painting & Architectural repairs 2009	04	03	02	09	Architectural
Quirk	0290	10,000	QUIR - Asbestos abatement heating system & reinsulate 2009	04	04	03	11	Mechanical
Quirk	0297	100,000	QUIR - HVAC Controls, valves and damper repairs 2009	03	04	03	10	Mechanical
Quirk	0300	15,200	QUIR - Interior finishes 2009	04	04	03	11	Architectural
Rackham	0308	30,000	RACK - Classroom upgrades 2009	04	04	03	11	Architectural
Rynearson Football	0327	35,000	RYNE - Electrical Tower Light repairs 2009	04	03	04	11	Electrical
Rynearson Football	0766	25,000	RYNE - Painting & Architectural repairs 2009	04	04	04	12	Architectural
Sculpture Studio	2418	25,000	SCUL - HVAC exhaust Systems 2009	04	03	03	10	Mechanical
Sill	0360	12,000	SILL - Doors & hardware replacement (interior foyer) 2009	04	04	03	11	Architectural
Sill	2414	154,800	SILL - Window replacement 2009	03	03	03	09	Architectural
Starkweather	0387	14,000	STAR - Interior finishes 2009	04	04	02	10	Architectural
Tunnels	0416	39,000	TUNN - Steam & condensate repairs 2009	03	03	01	07	Architectural
Tunnels	0420	33,000	TUNN - Structural repairs - walls & pipe supports 2009	03	03	01	07	Architectural
Warner	2444	50,000	WARN - Door wall replacement gyms A,B,C - 09	04	03	03	10	Architectural

Total	\$2,600,000
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Eastern Michigan University
Asset Preservation Listing
 Fiscal Year 2010

Building	Project No.	Budget	Project Name	Con	Need	Freq	Total	System	Type
611 W. Cross Street	2443	5,000	611 - Electrical Repairs 2010	04	03	02	09	Electrical	Electrical
611 W. Cross Street	2465	25,000	611 - HVAC Controls Valves & Dampers repair 2010	04	03	02	09	Mechanical	Mechanical
Alexander	0018	30,000	ALEX - Interior finishes 2010	04	04	03	11	Architectural	Architectural
Alexander	2447	60,000	ALEX - Roof repairs to High roof 2010	04	04	03	11	Architectural	Architectural
Bowen	0034	20,000	BOWE - Asbestos abatement for heat renovation 2010	04	03	04	11	Mechanical	Mechanical
Bowen	0035	130,000	BOWE - HVAC Controls, valves and damper repairs 2010	04	03	04	11	Mechanical	Mechanical
Campus	2220	33,000	CAMP - Absorber 3 yr. overhauls 2010	04	02	02	08	Mechanical	Mechanical
Campus	0117	40,000	CAMP - ADA Accessibility 2010	04	05	02	11	Architectural	Architectural
Campus	0085	25,000	CAMP - Carpet replacement 2010	04	04	02	10	Architectural	Architectural
Campus	2243	10,000	CAMP - Chillers - Eddie Current Testing 2010	04	04	02	10	Mechanical	Mechanical
Campus	2230	26,000	CAMP - Coil Winterizing 2010	04	04	02	10	Mechanical	Mechanical
Campus	2232	296,000	CAMP - Contingency money 2010	04	03	02	09	Mechanical	Mechanical
Campus	2238	38,000	CAMP - Cooling Tower and Chilled water sys. chem treat 2010	04	04	02	10	Mechanical	Mechanical
Campus	2249	47,000	CAMP - Damper repairs/filter replacement 2010	04	03	02	09	Mechanical	Mechanical
Campus	2284	25,000	CAMP - Electrical repairs 2010	04	03	02	09	Electrical	Electrical
Campus	2282	45,000	CAMP - Elevator repairs 2010	04	03	02	09	Elevators	Elevators
Campus	2289	19,608	CAMP - Generator Emergency services 2010	04	03	02	09	Electrical	Electrical
Campus	0616	130,000	CAMP - HVAC train control to summit system 2010	03	03	02	08	Mechanical	Mechanical
Campus	2258	40,000	CAMP - Insulation 2010	04	03	02	09	Mechanical	Mechanical
Campus	2471	25,000	CAMP - Interior finishes 2010	04	04	02	10	Architectural	Architectural
Campus	2278	25,000	CAMP - Lighting repairs 2010	04	04	02	10	Electrical	Electrical
Campus	0717	70,000	CAMP - Project eng. 2010	04	04	02	10	Elevators	Elevators
Campus	0134	45,000	CAMP - Roof repairs 2010	04	03	02	09	Architectural	Architectural
Campus	1088	20,000	CAMP - Tree & side walk replacement	03	03	02	08	Mechanical	Mechanical
Campus	0087	25,000	CAMP - Window treatment replacement 2010	04	04	02	10	Architectural	Architectural
Central Stores	0443	20,000	CENT - Roof repairs 2010	03	03	04	10	Architectural	Architectural
Convocation Center	2431	18,500	CONV - Light repairs 2010	03	03	04	10	Electrical	Electrical
Ford	0157	28,000	FORD - Lecture hall upgrades 2010	04	04	03	11	Architectural	Architectural
Halle Library	0168	15,000	HALL - Interior finishes 2010	04	04	02	10	Architectural	Architectural
Heating Plant	0173	80,000	HEAT - AIR compressor replacement 2010	03	03	01	07	Mechanical	Mechanical
Heating Plant	0186	145,000	HEAT - Deaerator tank replacement 2010	03	04	01	08	Mechanical	Mechanical
Heating Plant	0180	11,000	HEAT - Doors and finishes replacement 2010	04	04	01	09	Architectural	Architectural
Mark Jefferson	0542	12,500	MARK - Plumbing replace drinking fountains 2010	03	03	03	09	Mechanical	Mechanical
Olds/Robb Center	0242	96,000	OLDS - Carpentry running track replacement 2010	04	04	04	12	Architectural	Architectural

Eastern Michigan University
Asset Preservation Listing
 Fiscal Year 2010

Building	Project No.	Budget	Project Name	Con	Need	Freq	Total	System Tyoe
Olds/Robb Center	2446	25,000	OLDS - Interior finishes 2010	04	04	04	12	Architectural
Olds/Robb Center	2427	40,000	OLDS - Plumbing mechanical upgrades 2010	03	03	04	10	Mechanical
Olds/Robb Center	2420	20,000	OLDS - Pool Pump Replacement 2010	03	03	04	10	Mechanical
Owen	0055	30,000	OWEN - Glass glazing and window repairs 2010	04	04	03	11	Architectural
Owen	2448	95,000	OWEN - Roof Repairs 2010	03	03	03	09	Architectural
Paint Research	2449	35,000	PAIN - Roof repairs 2010	03	04	03	10	Architectural
Porter	0734	11,000	PORT - Doors & Hardware 2010	04	04	03	11	Architectural
Quirk	0508	105,000	QUIR - Masonry repairs 2010	03	04	03	10	Architectural
Quirk	2415	101,000	QUIR - Window replacement 2010	03	03	03	09	Architectural
Roosevelt	0325	20,000	ROOS - Walls & finishes 2010	04	04	03	11	Architectural
Rynearson Football	0336	10,000	RYNE - Doors & hardware replacement 2010	04	04	04	12	Architectural
Rynearson Football	2417	22,000	RYNE - Fence Replacement 2010	04	04	04	12	Site Work Drainage
Sculpture Studio	0349	11,000	SCUL - Doors & finishes replacement 2010	04	04	03	11	Architectural
Sculpture Studio	0350	11,000	SCUL - Interior finishes 2010	04	04	03	11	Architectural
Sculpture Studio	0346	17,000	SCUL - Siding replacement/refurbish 2010	04	04	03	11	Architectural
Sherzer	2274	47,500	SHER - Fire alarm repairs 2010	04	03	03	10	Life Safety
Sherzer	0352	29,000	SHER - Interior finishes 2010	04	04	03	11	Architectural
Sill	2408	200,000	SILL - Roof replacement phase 2 to NE side of roof 2010	03	03	03	09	Architectural
Strong	0401	25,000	STRO - Painting doors and frames 2010	04	04	03	11	Architectural
Tunnels	2292	33,000	TUNN - Structural repairs - walls & pipe supports 2010	03	03	01	07	Architectural
Warner	2422	23,892	WARN - Water heater repair/replace 2010	04	03	03	10	Mechanical
Welch	0613	8,000	WELC - Light repairs 2010	04	03	02	09	Electrical

Total	\$2,600,000
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Eastern Michigan University
Asset Preservation Listing
 Fiscal Year 2011

Building	Project No.	Budget	Project Name	Con	Need	Freq	Total	System Type
611 W. Cross Street	0460	10,000	611 - Masonry repairs 2011	04	03	02	09	Architectural
Alexander	0096	25,000	ALEX - Auditorium refurbish 2011	04	04	03	11	Architectural
Bowen	0031	43,000	BOWE - Doors & hardware 2011	04	04	04	12	Architectural
Bowen	1096	33,000	BOWE - Walls & finishes arena 2011	04	03	04	11	Architectural
Campus	0709	18,500	CAMP - Absorber 3 yr overhauls 2011	04	04	02	10	Mechanical
Campus	0095	30,000	CAMP - Carpet replacement 2011	04	04	02	10	Architectural
Campus	2244	18,000	CAMP - Chillers - Eddie Current Testing 2011	04	04	02	10	Mechanical
Campus	2504	12,500	CAMP - Classroom painting 2011	04	04	02	10	Architectural
Campus	2206	21,000	CAMP - Coil winterizing 2011	04	04	02	10	Mechanical
Campus	2233	330,000	CAMP - Contingency money 2011	04	04	02	10	Mechanical
Campus	2239	38,633	CAMP - Cooling Tower and Chilled water sys. chem treat 2011	04	04	02	10	Mechanical
Campus	2250	40,000	CAMP - Damper repairs/filter replacement 2011	04	03	02	09	Mechanical
Campus	2285	19,608	CAMP - Generator Emergency services 2011	04	03	02	09	Electrical
Campus	0077	20,000	CAMP - Health & Safety issues 2011	03	04	02	09	Life Safety
Campus	2259	40,000	CAMP - Insulation 2011	05	03	02	10	Mechanical
Campus	0318	49,000	CAMP - Roof repairs 2011	04	03	02	09	Architectural
Campus	0099	25,000	CAMP - Window treatment replacement 2011	04	04	02	10	Architectural
Central Stores	0532	45,000	CENT - ADA Accessibility 2011	04	05	04	13	Architectural
Cooper	2473	17,000	COOP - Interior finishes 2011	04	04	02	10	Architectural
Ford	0156	17,000	FORD - Interior finishes 2011	04	04	03	11	Architectural
Ford	0155	20,000	FORD - Renovate restroom 2011	04	04	03	11	Mechanical
Mark Jefferson	0208	66,000	MARK - Caulking windows 2011	04	04	03	11	Architectural
Mark Jefferson	0215	50,000	MARK - Ceiling tile and grid work 2011	04	04	03	11	Architectural
Mark Jefferson	0216	35,000	MARK - Doors & hardware 2011	04	04	03	11	Architectural
McKenny Union	0233	20,000	MCKE - HVAC controls, valves and damper repairs 2011	04	03	02	09	Mechanical
Oestrike Stadium	2433	30,000	OEST - ADA Accessibility 2011	03	05	04	12	Architectural
Olds\Robb Center	2271	10,000	OLDS - HVAC Pool Pak maintenance and filter replacement 2011	04	03	04	11	Mechanical
Olds\Robb Center	2439	100,000	OLDS - Masonry repairs 2011	03	03	04	10	Architectural
Owen	0241	200,000	OWEN - Masonry repairs 2011	03	03	03	09	Architectural
Pease	0253	25,000	PEAS - Interior finishes 2011	03	04	04	11	Architectural
Pierce	2451	132,000	PIER - Roof repairs 2011	03	03	02	08	Architectural
Porter	0735	5,000	PORT - Elevators repairs 2011	04	03	03	10	Elevators
Rackham	0971	7,235	RACK - A/C Motor replacement & controls 2011	04	03	03	10	Mechanical
Roosevelt	0518	10,000	ROOS - Elevator repairs 2011	04	03	03	10	Elevators

Eastern Michigan University
Asset Preservation Listing
 Fiscal Year 2011

Building	Project No.	Budget	Project Name	Con	Need	Freq	Total	System Type
Roosevelt	0510	125,000	ROOS - Fire alarm repairs 2011	04	03	03	10	Life Safety
Roosevelt	2450	198,524	ROOS - Roof repairs 2011	04	03	03	10	Architectural
Rynearson Football	0736	10,000	RYNE - Elevator repairs 2011	04	03	04	11	Elevators
Rynearson Football	0511	54,000	RYNE - Fire alarm repairs 2011	04	03	04	11	Life Safety
One Room School	2505	20,000	SCHO - Painting & Architectural repairs 2011	04	04	04	12	Architectural
Sculpture Studio	2434	35,000	SCUL - ADA Accessibility 2011	03	05	03	11	Architectural
Sherzer	0738	14,000	SHER - Elevator repairs 2011	04	03	03	10	Elevators
Sherzer	2438	35,000	SHER - Masonry Repairs 2011	03	04	03	10	Architectural
Sill	0740	11,000	SILL - Elevator repairs 2011	04	03	03	10	Elevators
Snow	0381	170,000	SNOW - Window replacement 2011	04	04	02	10	Architectural
Team Building	2492	45,000	TEAM - Locker room renovation 2011	04	04	04	12	Architectural
Tunnels	2493	55,000	TUNN - Mechanical & structural repairs 2011	03	03	01	07	Architectural
Tunnels	0411	50,000	TUNN - Steam/condensate repairs 2011	04	04	01	09	Mechanical
Warner	2435	45,000	WARN - ADA Accessibility 2011	04	05	03	12	Architectural
Warner	1097	35,000	WARN - Classroom upgrades 2011	04	04	03	11	Architectural
Warner	2437	25,000	WARN - Doors & hardware 2011	04	03	03	10	Architectural
Weich	1099	35,000	WELC - Doors & hardware & windows 2011	04	04	03	11	Architectural
Weich	0094	45,000	WELC - Elevator repairs 2011	04	04	02	10	Elevators
Weich	2498	30,000	WELC - Interior surfaces 2011	04	04	03	11	Architectural

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Total	\$2,600,000
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Eastern Michigan University
Asset Preservation Listing
 Fiscal Year 2012

Building	Project No.	Budget	Project Name	Con	Need	Freq	Total	System Type
611 W. Cross Street	0721	5,000	611 - Electrical upgrades 2012	03	03	02	08	Electrical
Alexander	2411	66,000	ALEX - Roof repairs to Low Roof 2012	03	03	03	09	Architectural
Bowen	2546	125,000	BOWE - AHU 13&14 Replacement 2012	04	03	04	11	Mechanical
Bowen	2544	180,000	BOWE - AHU 15&16 Replacement 2012	04	03	04	11	Mechanical
Bowen	2717	30,000	BOWE - Asbestos abatement for heat renovation 2012	04	03	04	11	Mechanical
Bowen	2557	30,000	BOWE - Condensate Receivers Replacement 2012	04	03	04	11	Mechanical
Bowen	0494	100,000	BOWE - Fire alarm upgrade/repairs 2012	04	03	04	11	Life Safety
Bowen	2432	75,000	BOWE - Light replacement 2012	03	03	04	10	Electrical
Briggs	2562	10,000	BRIG - Closet AC Unit Replacement 2012	04	03	03	10	Mechanical
Briggs	0038	20,000	BRIG - Doors & hardware & windows 2012	04	03	03	10	Architectural
Briggs	0039	6,000	BRIG - HVAC water heater & mechanical 2012	04	03	03	10	Mechanical
Campus	2254	35,000	CAMP - Insulation 2012	04	04	02	10	Mechanical
Campus	0112	75,000	CAMP - Classroom painting 2012	04	04	02	10	Architectural
Campus	2227	25,500	CAMP - Coil Winterizing 2012	03	03	02	08	Mechanical
Campus	2718	199,500	CAMP - Contingency money 2012	04	04	02	10	Mechanical
Campus	0102	30,000	CAMP - Health & Safety issues 2012	04	04	02	10	Life Safety
Campus	0066	50,000	CAMP - Landscape repairs 2012	04	04	02	10	Site Work Drainage
Campus	0063	52,000	CAMP - Lecture hall upgrades 2012	04	04	02	10	Architectural
Campus	2252	39,500	CAMP - Lighting repairs 2012	04	04	02	10	Electrical
Campus	0358	55,000	CAMP - Surfacing 2012	04	04	02	10	Site Work Drainage
Campus	0092	20,000	CAMP - Water main repairs 2012	04	03	02	09	Mechanical
Campus	0128	25,000	CAMP - Window treatment replacement 2012	04	04	02	10	Architectural
Ford	0163	135,500	FORD - HVAC repairs/upgrades 2012	04	04	03	11	Mechanical
Ford	0161	25,000	FORD - Tuck point and seal 2012	04	03	03	09	Architectural
Halle Library	0464	20,000	HALL - Site Work and drainage 2012	03	03	02	08	Site Work Drainage
Heating Plant	0178	3,000	HEAT - Plumbing fixture repairs 2012	04	04	01	09	Mechanical
Heating Plant	0171	20,000	HEAT - Interior finishes 2012	05	04	01	10	Architectural
Hover	0191	10,000	HOVE - Masonry repairs 2012	04	04	02	10	Architectural
Olds/Robb Center	2272	11,000	OLDS - HVAC Pool Pak maintenance and filter replacement 2012	04	03	04	11	Mechanical
Olds/Robb Center	0246	25,000	OLDS - Roof repairs (gutter grating) 2012	04	04	04	12	Architectural
Olds/Robb Center	2580	30,000	OLDS - Condensate Receivers 2012	04	03	04	11	Mechanical
Owen	0057	15,000	OWEN - Site Work & drainage 2012	03	04	03	10	Site Work Drainage
Paint Research	2410	36,000	PAIN - Roof repairs 2012	04	04	03	11	Architectural
Pierce	2464	22,000	PIER - Interior surfaces 2012	04	04	03	11	Architectural

Eastern Michigan University
Asset Preservation Listing
 Fiscal Year 2012

Building	Project No.	Budget	Project Name	Con	Need	Freq	Total	System Type
Quirk	0291	22,000	QUIR - Ceiling replacement 2012	04	04	03	11	Architectural
Quirk	0293	50,000	QUIR - Floors & finishes 2012	04	04	03	11	Architectural
Quirk	0294	23,000	QUIR - Plumbing fixture repairs 2012	04	04	03	11	Mechanical
Rackham	0315	28,000	RACK - Plumbing fixture repairs 2012	04	04	03	11	Mechanical
Roosevelt	0323	141,000	ROOS - Walls & finishes 2012	04	04	03	11	Architectural
Roosevelt	0489	125,000	ROOS - Window replacement 2012	04	04	03	11	Architectural
Rynearson Football	0333	6,000	RYNE - Carpentry - Partitions 2012	04	04	04	12	Architectural
Rynearson Football	0338	6,000	RYNE - Doors & hardware replacement (team building) 2012	04	04	04	12	Architectural
Rynearson Football	2425	65,000	RYNE - Plumbing & fixtures 2012	03	04	04	11	Mechanical
Rynearson Football	2412	75,000	RYNE - Water Proofing Walls & finishes 2012	03	03	04	11	Architectural
Sculpture Studio	0347	57,000	SCUL - Roof replacement 2012	04	04	03	11	Architectural
Sculpture Studio	0348	9,000	SCUL - Windows replacement 2012	04	04	03	11	Architectural
Sherzer	0353	30,000	SHER - HVAC replace EMS control system 2012	04	04	03	11	Mechanical
Sherzer	2436	30,000	SHER - Window repairs 2012	03	04	03	10	Architectural
Snow	0374	55,000	SNOW - Fire alarm repairs 2012	04	03	02	09	Life Safety
Starkweather	0520	60,000	STAR - ADA Accessibility restrooms 2012	04	05	02	11	Architectural
Starkweather	0386	14,000	STAR - Computer controls on heat exchanger 2012	04	03	02	09	Mechanical
Starkweather	0515	20,000	STAR - Fire alarm repairs 2012	04	03	02	09	Life Safety
Starkweather	0388	35,000	STAR - Gutters & downspouts, fascia, soffits 2012	04	04	02	10	Architectural
Starkweather	0385	37,000	STAR - Masonry repairs 2012	04	04	02	10	Architectural
Team Building	0505	5,000	TEAM - Plumbing system repairs, 2012	04	04	04	12	Life Safety
Tunnels	0421	40,000	TUNN - Pipe support replacement 2012	04	04	01	09	Mechanical
Tunnels	0408	21,000	TUNN - Plumbing sump pumps 2012	04	04	01	09	Mechanical
Tunnels	0412	40,000	TUNN - Steam Condensate Repair 2012	04	04	01	09	Mechanical

Total	\$2,600,000
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**EASTERN MICHIGAN UNIVERSITY
FY 2008 CAPITAL OUTLAY REQUEST
IMPLEMENTATION PLAN**

Asset Preservation Projects - Greater Than \$1 Million

Building Modernization Projects	<u>Amount</u>
Mark Jefferson	\$8,669,916
Pray Harrold	\$7,013,000
McKenny Union	\$5,601,807
Strong	\$2,866,120
Warner	\$2,145,892
Heating Plant	\$1,855,000
Rackham	\$1,694,564
Bowen	\$1,578,001
Roosevelt	\$1,462,024
Sill Hall	\$1,491,800
Alexander	\$1,095,000
Owen C.O.B.	\$1,067,000
Olds\Robb Center	\$1,002,000
Total Building Projects Greater Than \$1 Million	<u><u>\$37,542,124</u></u>

System Modernization Projects	
Electric Supply And Distribution Systems Upgrade -- Phase II	\$3,284,000
Electric Supply And Distribution Systems Upgrade -- Phase III	2,964,000
Elevators	1,262,500

Note:

1. Because Building Modernization projects may contain elevator work, if the System Modernization projects are completed, then the funding required for certain building projects would be lower.
2. Use and Financing Statements will be submitted for all projects in excess of \$1 million.

**EASTERN MICHIGAN UNIVERSITY
CAPITAL OUTLAY REQUEST FY 2008
IMPLEMENTATION PLAN**

Summary of Major Building Renovation Projects

Established in 1849, Eastern Michigan University has one of the oldest campuses in the State of Michigan. EMU has not had a capital outlay project funded by the state since 1996. Despite enrolling more than 8 percent of the students attending a Michigan public university over the last 10 years, EMU has received less than 2 percent of the approved capital outlay funding and ranks last in percentage of capital outlay funding among the 15 public universities.

Several of EMU's major classroom buildings are in serious need of renovation, including the Pray-Harrold Classroom Building, the Mark Jefferson Science Complex, Strong Hall and Sill Hall. EMU's top capital priority is the \$52.7 million renovation of the Pray-Harrold Classroom Building, the largest classroom building on campus.

Faculty and students have identified issues with Pray-Harrold for at least a decade. Deficiencies include inadequate technology infrastructure; inadequate HVAC systems that are not designed for new technology; a taxed electrical system operating at maximum capacity; energy inefficient original windows and other building envelope maintenance issues; inadequate handicap accessibility; overcrowded classrooms and laboratory space; lack of student commons areas; and outdated departmental and faculty offices. Equally pressing is the lack of infrastructure to support modern technology—technology that is available in many of the high schools and community colleges that our students have attended.

STATE COST PARTICIPATION REQUESTS

Pray-Harrold Classroom Building Renovation

Pray-Harrold Classroom Building Renovation is EMU's top priority capital outlay request for state funding for FY 2008. The project request is for \$52.7 million.

Pray-Harrold is the largest classroom building on EMU's campus, serving 10,000 students each day. It was built in 1969 when EMU's student population was approximately 17,000. Today, EMU serves almost 24,000 students which has increased the building's utilization by more than 40 percent since it opened in 1969. This project has been included in EMU's capital outlay requests to the state since 1999. A project description, other alternatives considered, programmatic benefit and funding resources are detailed in the FY 2008 Capital Outlay Project Request.

Other capital projects anticipated in the future in which state cost participation may be requested include: Mark Jefferson Science Complex Project, Strong Hall Renovation, Sill Hall Renovation and Fine and Performing Arts Building.

**EASTERN MICHIGAN UNIVERSITY
CAPITAL OUTLAY REQUEST FY 2008
IMPLEMENTATION PLAN**

Mark Jefferson Science Building Renovation

The renovation and modernization of the Mark Jefferson Science Building has been identified in the University's Five-Year Capital Outlay Plan since 1998. The Mark Jefferson building houses the Biology, Chemistry and Psychology departments. Built in 1969, the 180,802 square-foot building has deficiencies that include aging mechanical and electrical system conditions and capabilities, lack of specialized academic spaces and a lack of technology. Structural erosion, health and safety issues and other critical building systems require immediate attention so as not to compromise the integrity of the building.

A new addition to the Mark Jefferson Building for science laboratories and research space to serve the biology, chemistry and psychology departments would encompass Phase 1 of the Mark-Jefferson Science Complex Project. The scope of the renovation and modernization of Mark Jefferson will focus on infrastructure including mechanical system, electrical systems/building transmission loop, structural improvements to the building exterior, roof replacement, interior improvements and scientific instrumentation. Renovations to this building would be Phase 2 and in addition to infrastructure and systems needs, would address classrooms, faculty office updates and student commons space.

Strong Hall Renovation

Strong Hall was built in 1957 as an 80,713 square-foot, three-story building to house the physical science programs that include geography and geology and physics and astronomy. The building has had no major renovations and is in need of classroom upgrades, technology repair and replacement of infrastructure and building improvements including mechanical and electrical systems, removal of asbestos, etc. The foot-print of the building will remain unchanged, although it will be connected to Mark Jefferson on its west side via the addition to Mark Jefferson. The program statement to renovate Strong Hall is being developed with a projected cost between \$30 to \$40 million.

Sill Hall Renovation

Sill Hall was built in 1965 as a 92,635 square-foot facility originally for industrial education. In 1980, the College of Technology was established and assigned to Sill Hall.

Sill Hall is 40-years old and has not been renovated to accommodate the expanded College of Technology programs, centers and institutes. The College of technology has requested renovation of Sill Hall to provide adequate instructional research and outreach environments for COT students and faculty. An accreditation team from the National Association of Industrial Technology found Sill Hall to have insufficient space for instruction and research; ineffective and obsolete mechanical systems and insufficient air handling; handicap accessibility issues; old

**EASTERN MICHIGAN UNIVERSITY
CAPITAL OUTLAY REQUEST FY 2008
IMPLEMENTATION PLAN**

and inefficient windows; insufficient and inefficient lighting; insufficient office and interior spaces; and lack of technology. No program statement has been completed for Sill Hall.

Fine and Performing Arts Facility

A new Fine and Performing Arts facility is needed to house the fine and performing arts programs in one building. Presently, the performing arts (Communication and Theater Arts, Music and Dance) are housed in seven different buildings on campus. The visual arts programs are housed in five different buildings. One facility for the fine and performing arts programs will alleviate the need to address individual programmatic needs and provide a cost-efficient approach to enhance space utilization for an integrated arts curriculum. Feasibility studies, preliminary program statement and cost estimates are yet to be determined.

SELF-FUNDED PROJECTS

Multipurpose Indoor Facility

A multipurpose indoor facility is proposed for construction as a self-funded project by the Intercollegiate Athletics Department. The facility will house an Academic Center for student-athletes and serve as a practice area for several sports programs including football, baseball, women's softball, women's soccer, men's and women's golf and men's and women's track. The facility also would be utilized for strengthening and conditioning of all student athletes. This facility will enhance EMU's ability to attract, recruit and retain quality student-athletes and maintain competitiveness within the State of Michigan and the Mid-American Conference. The estimated cost to construct the facility on the west campus Athletics Complex is \$15 million. Sources of funding include fundraising, rental fees, corporate sponsorships and athletics revenues.

Residence Hall Renovations

Over the next five years, EMU plans to renovate 10 residence halls built between 1955 and 1969. These residence halls need renovations and modernization. Additionally, both of the major dining facilities will require substantial upgrades. Cost estimates vary depending on the facility and a thorough analysis of auxiliary facilities for housing and dining is underway. However, based on the experience of a major renovation of a 300-bed residence hall in 2006, it is estimated that an average of \$4 million to \$6 million will be required to renovate each hall. Priority consideration will be given to a residence hall designated for honor students.

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Appendix



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APPENDIX I

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