



## FY 2023 FIVE-YEAR CAPITAL OUTLAY PLAN

### I. MISSION STATEMENT

Schoolcraft is a comprehensive, open door, community-based College. The mission of the College is to provide a transformational learning experience designed to increase the capacity of individuals and groups to achieve intellectual, social, and economic goals.

**The Vision:** The College wishes to be a first choice provider of educational services, a competent organization, functioning with integrity, behaving strategically, and providing value beyond expectations.

#### **College Values:**

- We recognize the students are our reason for existence and that student success is paramount to our mission.
- We pledge to follow ethical practices in the classroom, boardroom, business operations, and all other areas of the College.
- We value diversity in our students, staff, and programming.
- We are committed to having a positive intellectual, social, and economic impact on the communities we serve.
- We strive to achieve leadership in academics, management practices, employee relations, and institutional innovation.
- We strive to maintain a supportive, cordial, and aesthetically pleasing environment for our students, staff, and community.
- We encourage lifelong learning for our students and staff by providing the most current programs, utilizing the most effective instructional delivery methods.
- We believe that higher education should be accessible to the greatest number of our constituents.

### II. INSTRUCTIONAL PROGRAMMING

- a) ***Description of various existing academic programs and projected programming changes during the next five (5) years, insofar as academic programs are affected by specific structural considerations (i.e. laboratories, classrooms, current and future distance learning initiatives, etc.).***

#### **Traditional Classrooms and Labs**

Schoolcraft College offers certificate and associate degree programs in career areas such as Nursing, Culinary Arts, Computer Information Systems, Public Safety/Homeland Security, and Business. Schoolcraft College also offers a Bachelor of Science Degree in Culinary and Dietary Operations Management. In addition, the College offers nine major areas of study that include Arts, Humanities and Communications, Business and Information Technology, Culinary Arts, Brewing & Distillation Technology, Education, Healthcare and Health Sciences, Manufacturing and Technology, Natural Sciences, Public Safety, and Social Sciences. Student majors are roughly 50% career and 50% transfer.<sup>1</sup>

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<sup>1</sup> From Total Pre-Programs, Skills, Career, and Post-Certificate Enrollment and Transfer Programs tables, later in this report 1

For Fall 2021, Schoolcraft College has 8,736<sup>2</sup> credit students enrolled with 75%<sup>3</sup> seats filled. This enrollment number has been impacted by COVID-19. Due to COVID-19, we are unable to fully project the use of traditional classroom and lab facilities until courses have fully resumed on-campus classes.

Fall 2021 classes began August 30. As of September 21, 2021, the number of late starting classes were as follows:<sup>4</sup>

Modality	# Late Starting 12-Week Classes	# Late Starting 7-Week Classes
Traditional and Hybrid Classes	208	33
Online Classes	132	33
Remote Classes	29	2

Enrollment is monitored daily from the first day of registration through the last day to enroll for second 7-week courses to identify trends and courses filling early and/or throughout the registration process. Just-in-time courses are added to the current offerings, when possible, to meet the needs of students. For Fall 2021, 62 additional courses were offered after registration began.<sup>5</sup>

The Health Professions programs that are currently held at Radcliff include Emergency Medical Technology/Paramedic (EMT), Health Information Technology (HIT), Health Coding/Specialist, Medical Assisting (MA), and Pharmacy Technician (PHT). Additionally, Schoolcraft College is a Michigan Department of Community Health approved sponsor for EMT programs, enabling the College to increase college credit offerings and provide continuing education courses. The Pharmacy Technician program has earned expanded recognition by the Pharmacy Technician Certification Board (PTCB) as a Compounded Sterile Preparation Technician (CSPT) Advanced-level program.<sup>6</sup>

The new Health Sciences Center (HS) is a 35,000 sq. ft. expansion and 30,000 sq. ft. renovation of our existing Applied Sciences building. The building will house laboratories for our current health programs in Nursing, Medical Assistant, and EMT; and for other new health programs in Diagnostic Medical Sonography (DMS), Radiologic Technologist (RAD), Surgical Technologist (SURG), Sterile Processing Technician (SPT), Occupational Therapy Assistant (OTA), and Physical Therapist Assistant (PTA). The HSC will house two additional laboratories that can accommodate six total patient workstations, in addition to two dedicated adjacent classrooms. The Health Sciences Center is scheduled to be completed by Spring/Summer 2022.

### Alternative Delivery

The College actively supports alternative deliveries of instruction that meet the needs of a diverse student population. These include online, hybrid (a combination of face-to-face and online), remote, and variable length (e.g., 5, 7, 12, and 15 week) courses.

In Fall 2021, over 8,933 seats were filled in online courses. This semester also offered 112 unique online courses comprising 335 sections.<sup>7</sup>

Hybrid courses were first offered in Spring 2004. The number of courses and sections available

<sup>2</sup> SC Reports: Student Profile Report, Fall 2021, as of 09/21/2021

<sup>3</sup> YRAC: Last page of Fall 2021 report, exclude Grants, include everything else

<sup>4</sup> Informer, Summary of Classes: Fall 2021, Active Sections, excludes MCO

<sup>5</sup> M:\Group\Instructional Operations\Just-In-Time Schedule Building\JIT Documentation\2021, Count of Fall JIT

<sup>6</sup> Dr. Robert Leadley, Dean of Occupational Programs & Economic Development, David Kesler, D.C., Assoc. Dean, Health Professions

<sup>7</sup> Lori M. Timmis, Dean of Distance Learning & Faculty Development (*Source: 2021-04 SC.DL.COUNT (Y082) Report,*

*Duplicated Count; STIS 3.21 (State Report 3) Fall 2021 Distance Learning Only - Credit Students*

continues to increase. The popularity of hybrid offerings continues to grow over time. For example, in Fall 2005, the College offered 11 hybrid courses comprising 14 sections. In Fall 2021, the College offered 38 hybrid courses comprising 107 sections. Remote synchronous courses were first offered in Fall 2020 in response to Covid-19. In Fall 2021, the College offered 158 remote courses, with a total of 241 sections.<sup>8</sup>

These distance-learning modalities have impacted the physical space in several ways:

- The rapid growth of distance learning precipitated a need for additional online support staff, training capabilities for new faculty, and consequential new spaces for specialized hardware used to build digital learning objects.
- Accelerated courses have created a demand for more flexible scheduling to deliver more course work in fewer calendar days with longer class sessions.

***b) Identify unique characteristics of each institution's academic mission: (i.e. two-year degree and certificated technical/vocational training; workforce development training activities; adult education focus; continuing or lifelong educational programming; partnerships with intermediate school district(s), community activities; geographic service delivery area(s), articulation agreements or partnerships with four-year institutions, etc.).***

Schoolcraft College is a two-year community college offering one Bachelor's Degree and a variety of associate degrees and certificates, as well as skill-specific certifications. For the 2020-21 academic year, there were 10,844<sup>9</sup> credit students who attended the College and 4,789<sup>10</sup> students who were registered for continuing education, professional development, or adult education programs. The Business Development Center (BDC) has been in existence since 1985 and through its Procurement Technical Assistance Center (PTAC), it has been one of the largest contributors for new government contracts awarded to Michigan businesses with over \$3.7 billion infused into the local economy. Since 2011, the Center has also helped small businesses obtain over \$83 million in financing and has helped launch over 101 small businesses. In 2020, the Center also provided training to over 1,408 workers (duplicated) in technical and professional areas to enhance their skills on the job.<sup>11</sup>

Schoolcraft College has also coordinated efforts with the Michigan Works! Agency to deliver many "boot camps" to quickly and successfully prepare unemployed and under-employed citizens for jobs in machining and welding.

Schoolcraft College offers educational programs leading directly to third party certifications in areas such as Welding (American Welding Society), Machining (National Institute for Metalworking Skills), Mechatronics (Smart Automation Certification Alliance), and Computer Information Systems (Cisco Academy). Other programs provide education and training to prepare for third party certification in areas such as Nursing (NCLEX), Criminal Justice (MCOLES), and EMT/Paramedic. Schoolcraft continues to create new programs to meet the needs of the local economy. For example, Schoolcraft recently initiated programs in Mechatronics, Plastic Technology, Computer Cybersecurity, and Networking. An innovative program to certify individuals for K-12 teaching in Michigan (Alternative Route to Teacher Certification) has experienced continual increases in enrollment throughout the state.

The College's official geographic boundaries consist of several Michigan school districts: Livonia, Plymouth-Canton, Northville, Garden City, and Clarenceville. The College has three locations in Livonia, and a satellite center in Garden City.

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<sup>8</sup> Informer: Summary of Classes, 2021-04, Credit Students, Location = Hybrid and RMT

<sup>9</sup> SC RS: STIS.3.11 Credit Students after Grades Posted - 2020

<sup>10</sup> SC RS: STIS.3.11 CES Students after Grades Posted - 2020

<sup>11</sup> Tammy Thomson, Director of Business Development Center

The College maintains articulation agreements and partnerships with many Michigan universities and the K-12 districts within and nearby the College's district boundaries. In partnership with Michigan universities, Schoolcraft has more than 60 articulation agreements with 17 colleges, universities, and technical institutions. Several of the articulation agreements are generous plans that allow students to complete up to 90 credits at the community college and the final 30 credits at a university, resulting in great monetary savings for students, as well as transferring very well prepared students who are able to complete their Bachelor's degree. The College has 33 articulation agreements with eight career technical centers or secondary schools for 44 Schoolcraft College courses. These agreements provide students college credit for entry-level courses in career pathways such as computer graphics technology, culinary arts, engineering technology, or welding. The College will continue to build partnerships with area high schools and four-year universities to create pathways for students to progress seamlessly toward a certificate or degree leading to employment or higher education credentials.<sup>12</sup>

In addition to traditional articulations with colleges, universities, and technical institutions, the College has four articulations created in partnership with the Medical Education Training Center (METC) in Texas. These articulations provide military personnel (and traditional students) college credit for prior learning toward credentials in Health Information Technology at the associate degree level, Pharmacy Technician at certificate levels, and the newly approved Health Professionals Management associate option for Pharmacy Technicians. This articulation opportunity not only honors prior training and learning, but also provides great monetary and time savings for students.

Schoolcraft College partners with the Galileo Leadership Consortium in a special program called "Galileo Leadership Academy" to prepare leaders to improve learning in their classrooms, departments, schools, districts, and community colleges. Over 130 teachers and faculty from 30 school districts, two community colleges, and one university participate in the program from Wayne, Oakland, and Macomb counties. The total number of Galileo Leaders trained to date is over 970 strong.<sup>13</sup>

### **c) Identify other initiatives, which may impact facilities usage.**

Opened in Fall 2020, Schoolcraft College's new Manufacturing & Engineering Center (MEC) is a 48,000 sq. ft. state-of-the-art facility that more than doubles the previous space that was on our main campus. Faculty in these programs are industry experts, facilitating an interactive, hands-on learning experience and preparing students for the workplace. MEC is located in Livonia, only minutes away from Main Campus. This location increases opportunities for dual enrollment/middle college, apprenticeship training, and non-credit training for businesses, university partnerships, and workforce development such as boot camps.

The Radcliff Center is currently home to a Wayne Metropolitan Community Action Agency Head Start program, meeting various academic and family support needs of local families. In addition, it is home to the t.Lab, an online-accelerated learning program, also based here in Wayne County. Both initiatives are supporting the mission of the College and allowing for partnerships with families and community to enhance and promote educational goals.<sup>14</sup>

Healthcare simulation technology facilities are available and impact facility use by making possible the development of cross-discipline activities between Nursing, Emergency Medical Technology, and Allied Health programs. In addition, the partnerships fostered between the College and local hospitals and healthcare professionals wishing to make use of the Health Professions Simulation Lab will expose our students to encounters with industry professionals.

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<sup>12</sup> Rachael Szymanski, Advising - Transfer Coordinator

<sup>13</sup> Dennis Genig, Dean of Occupational Programs

<sup>14</sup> Dr. Robert Leadley, Dean of Occupational Programs & Economic Development; David Kesler, D.C., Assoc. Dean of Health Professions

The Public Safety and Training Complex (PSTC) is home to state-of-the-art law enforcement training facilities and simulators. The complex is equipped with many unique features, including a maze room, configurable to different room layouts to practice standoff and rescue techniques; a 4,500 sq. ft. training room, allowing students to practice entering dark homes with hazards; a gun range with total blackout capability; a FATS system (Fire Arms Training Simulator), which allows for a wide variety of scenarios to be programmed for de-escalation and 360-degree awareness training; an 11-acre driving facility; and a four-story fire tower that can produce fire at several hundred degrees and simulate high-angle rescues. Several area, state, and national agencies frequently use the PSTC for continued skills training.

**d) *Demonstration of economic development impact of current and future programs (i.e. technical training centers, life science corridor initiatives, etc.).***

Having a trained workforce is critical to the economic development of Michigan. Businesses choose to locate and expand in areas where there is a pool of people with the needed job skills, and where communities are safe and supportive of business. Schoolcraft, through its Business Development Center, Procurement Technical Assistance Center, and Workforce Training Solutions, helps entrepreneurs as well as established businesses grow their markets, secure new funds, and train their workforce. For several years the College has offered a “Small Business for Entrepreneurs Associate Degree” and a “One-Year Certificate.”

Schoolcraft College offers many career and technical programs for students seeking an education and the skills to enter the job market or to advance their current careers. The College’s career programs are based on students’ interests and community employment needs. Advisory Boards for each career and technical education area are composed of industry leaders and professionals. Advisory board input is critical to the continued improvement of career programs and preparation of our students for their occupations. Competencies and program outcomes incorporated into occupational programs prepare students to enter challenging specialized careers after two years of college or less. Instructors emphasize job-specific knowledge, and students can pursue most programs full- or part-time. Schoolcraft tracks job placement in high demand, high skill, and high wage employment to ensure students find jobs.

Current programs, certificates, and courses are continually reviewed and updated for modernization and continuous quality improvement as well as to meet changing business and industry requirements. Job market sites, business needs, assessment surveys, advisory committee input, and Department of Labor job forecasting help Schoolcraft stay current with job market demands and provide valuable information/data to drive program initiation and revision. Newly developed environmental scans produced by the College’s Research and Analytics department have provided a wealth of information about the prospects and outlook for viability of new educational programs based on reliable data. Enrollment trends are evaluated on a semester-by-semester basis to determine student interest and are reviewed for program expansion or contraction.

To increase access for all students to career and technical education programs, many of the courses in these programs are offered through the College’s various modalities such as online, remote, and hybrid, as well as traditional classrooms. For students balancing work, life, and an education, the availability of flexible scheduling affords them the opportunity to complete their education.

The College’s Business Development Center and Personal and Professional Learning (PPL) department, offer classes aimed at preparing people for the workplace and building career and technical skills. This includes certificate programs, such as digital sculpting, program management, and computer classes geared toward workplace applications. Additionally, courses in specific content areas such as accounting, event planning, and nursing continuing education are offered through PPL. Still more credit and non-credit programs have been submitted to the state for approval for funding through the Michigan Works! agencies. A growing partnership with the surrounding K-12 districts has resulted in additional course offerings in teacher professional development and certification.

With health care emerging as Michigan's number one private employer, Schoolcraft offers programs in Phlebotomy, Medical Billing, Coding Specialist, Nursing Assistant Training, Biomedical Engineering Technology, Pharmacy Technician, Emergency Medical Services, and the Nursing Career Ladder Curriculum program.

National employment forecasts through 2030 project employment requiring an associate's degree will increase by 10.5%, compared to 5.1% for high school diploma or equivalent, 9.7% for postsecondary non-degree awards, 9.9% for bachelor's degree, and 16.4% for master's degree. The highest growth "hot" occupations (favorable mix of projected long-term job growth, projected annual job openings, and median wages) in Southeast Michigan through 2028 that require an associate's degree/vocational training include CNC Machine Tool Operators, Paralegals and Legal Assistants, Physical Therapy Assistants, Diagnostic Medical Sonographers, Dental laboratory Technicians, Millwrights, Occupational Therapy Assistants, and Respiratory Therapists.<sup>15</sup>

Schoolcraft College actively participates with a number of Economic Development organizations including:<sup>16</sup>

- Advance Michigan Center for Apprenticeship Innovation (AMCAI)
- Ann Arbor Spark
- Ann Arbor/Ypsilanti Regional Chamber
- Association of Procurement Technical Assistance Centers (APTAC)
- Association of Small Business Development Centers (ASBDC)
- Automation Alley
- Canton Chamber of Commerce
- Detroit Regional Chamber of Commerce
- Garden City Business Alliance
- HR Manufacturing Roundtable Plymouth
- I-275 Industrial Council
- Learning Resources Network (LERN)
- Livonia Chamber of Commerce
- Michigan Alliance for Greater Mobility Advancement (MAGMA)
- Michigan Association of Continuing Education and Training (MACET)
- Michigan Chamber of Commerce
- Michigan College Access Network (MCAN)
- Michigan Department of Labor and Economic Opportunity (LEO)
- Michigan Department of Licensing and Regulatory Affairs (LARA)
- Michigan Economic Developers Association (MEDA)
- Michigan Economic Development Corporation (MEDC)
- Michigan Educational Apprenticeship Training Association (MEATA)
- Michigan Energy Workforce Development Consortium (MEWDC)
- Michigan International Technology Center (MITC)
- Michigan Manufacturing Technology Center (MMTC)
- Michigan Small Business Development Center (MI-SBDC)
- Michigan Workforce Development Agency
- Midwest Higher Education Compact (MHEC )
- National Center for Women & Information Technology (NCWIT)

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<sup>15</sup> Michelle Stando, Director of Research and Analytics, <https://www.bls.gov/emp/tables/education-summary.htm>,  
[https://www.milmi.org/\\_docs/publications/CareerOutlook2028/Region10\\_CareerOutlook\\_2028.pdf](https://www.milmi.org/_docs/publications/CareerOutlook2028/Region10_CareerOutlook_2028.pdf),  
U:\Institutional Research\Marketing Research\Labor Market Information\Hot50Jobs\_Statewide\_Through2028.pdf

<sup>16</sup> Gerald Champagne, Assoc. Dean Public Safety; Amy Jones, Assoc. Dean Occupational Programs; Tammy Thomson, Dir. Business Development; Dr. Robert Leadley, Dean of Occupational Programs & Economic Development; David Kesler, D.C., Assoc. Dean, Health Professions

- National Contract Management Association (NCMA)
- National Council for Continuing Education and Training (NCCET)
- National Defense Industrial Association (NDIA)
- Northville Chamber of Commerce
- Novi Chamber of Commerce
- Novi Economic Development
- Plymouth Chamber of Commerce
- Procurement Technical Assistance Centers (PTACs) of Michigan
- Small Business Association of Michigan (SBAM)
- Southeast Michigan Community Alliance (SEMCA)
- Southeast Michigan Council of Governments (SEMCOG)
- Health Care Alliance of Southeast Michigan (HCA)
- US Department of Labor
- Wayne County Economic Development Corporation (WCEDC)
- Westland Chamber of Commerce
- Workforce Intelligence Network for Southeast Michigan (WIN)

### III. STAFFING AND ENROLLMENT

- a) Describe current full- and part-time student enrollment levels by academic program and define how the programs are accessed by the student (i.e. main or satellite campus instruction, collaboration efforts with other institutions, internet or distance learning, etc.).**

Enrollment for Fall 2021 late-starting classes continues through November 2, 2021.<sup>17</sup> As of September 21, enrollment for Fall 2021 had reached 8,736.<sup>18</sup> For the full 2020-21 academic year, Schoolcraft College had 10,844<sup>19</sup> credit students enrolled. As of Fall 2021, of the College's credit students, 70% attend on a part-time basis (less than 12 credit hours) and 30% attend on a full-time basis (12 credit hours or more); 47% of our students reside within our College district and 53% reside outside of the College's district (including international students).<sup>20</sup>

In addition to credit students, Schoolcraft College has a large base of students in Personal and Professional Learning (PPL) formerly known as Continuing Education & Professional Development, enrolling 4,789<sup>21</sup> students during the same academic year. PPL non-credit courses include contracted training, certification programs, professional development, and personal development.

Our credit student population can be defined by attendance type as follows:<sup>22</sup>

Student Attendance by Type	Number of Students
Day Only	1,488
Evening Only	786
Distance Learning (Online) Only	2,197
Distributed Learning (or Hybrid) Only	331
Combination (traditional, online, day, evening, and weekend)	3,934

As shown in the following charts, 49% of Schoolcraft College's credit students are enrolled in

<sup>17</sup> Important Dates - Fall 2021, Last Day for Schedule Adjustment/Refund, 2<sup>nd</sup> 7 Week Classes

<sup>18</sup> SC RS: Student Profile Report, 2021-04

<sup>19</sup> SC RS: STIS.3.11 Credit Students after Grades Posted, 2020

<sup>20</sup> SC RS: Student Profile Report, 2021-04

<sup>21</sup> SC RS: STIS.3.11 CES Students after Grades Posted, 2020

<sup>22</sup> SC RS: Student Profile Report, 2021-04

transfer programs. Another 32% are enrolled in associate or certificate career programs, and 19% are enrolled in special programs such as post-certificate programs, skills certificate programs, and pre-programs (completing course requirements for admissions into Associate Degree programs).

The five largest populated career programs are Criminal Justice, Business, Nursing, Culinary Arts, and Marketing. Some programs limit their enrollment based upon available resources (space, staffing, clinical sites, etc.), such as Culinary Arts, Nursing, and Criminal Justice.

Students can gain access to academic programs through multiple venues. In addition to our main campus in Livonia, some programs can be completed at our satellite campus in Garden City, including Health Profession programs in Health Information Technology, Medical Assisting, Emergency Medical Technology/Paramedic, and Pharmacy Technician. The Public Safety Training Center, located in Livonia, houses the Wayne County Regional Police Training Academy, Schoolcraft Fire Academy, Fire Technology, Homeland Security, and Criminal Justice programs. Schoolcraft College's new Manufacturing & Engineering Center (MEC), also located in Livonia, houses engineering and technology programs such as Mechatronics Technology, Robotics, CAD, Manufacturing, and Welding, to name a few. Students can also access programs through a combination of traditional, hybrid, remote, and online courses.

Currently active sections available for Fall 2021 comprise 566 traditional sections, and independent learning, 241 remote sections, 107 hybrid sections, and 334 online sections.<sup>23</sup> Because of the COVID-19, distance learning instructional delivery methods (i.e., remote, hybrid, and online) have experienced the fastest growth over the last year increasing the number of sections by 19%.

#### Enrollment in Fall 2021 by Program Majors and Full-time/Part-time

For the charts below, enrollment is divided into part-time students (less than 12 credit hours), full-time students (12 or more credit hours), and others (18 or more credit hours).

#### Pre-Programs<sup>24</sup>

Code	Program Name	Full-time	Part-time	Other	Total
P000	Pre-Nursing (RN)	205	796	0	1,001
P017	Pre-Nursing (PN)	30	102	0	132
P024	Pre-Emergency Medical Technology (1 yr.)	2	3	0	5
P026	Pre-Medical Assisting Certificate	8	26	0	34
P079	Pre-Culinary Arts (1 yr.)	3	6	0	9
P087	Pre-Culinary Arts (AAS)	25	50	0	75
P128	Pre-Biomedical Engineering Technology	12	12	0	24
P153	Pre-Health Info Tech	11	40	0	51
P240	Pre-Health Coding Specialist	5	13	0	18
P247	Pre-Culinary Baking and Pastry Arts	4	8	0	12
P249	Pharmacy One-Year Certificate	2	5	0	7
P250	Pre-Emergency Medical Technology	4	10	0	14
P266	Pre-Massage Therapy*	0	1	0	1
P281	Pre-Diagnostic Medical Sonography**	36	54	0	90
P283	Pre-Radiology Technology**	6	33	0	39
P321	Pre-Nursing Assistant Skills Certificate*	0	1	0	1
P397	Pre-Culinary & Dietary Operations Mgmt BS	1	5	0	6
Pre-Programs Totals		354	1,165	0	1,519
% of Total Enrollment		4%	13%	0%	17%

\*Program Inactive, \*\*New Program

<sup>23</sup> Informer: Summary of Classes, 2021-04, TR, Active Sections, excludes VLC

<sup>24</sup> SC RS: Enrollment by Program, 2021-04

**Skills Programs: Certificates<sup>25</sup>**

Code	Program Name	Full-time	Part-time	Other	Total
238	CAD Mechanical Design	0	4	0	4
271	Engineering Technology	0	2	0	2
290	Real Estate Property Management**	0	1	0	1
315	Child Development Associate	1	9	0	10
320	Electronic Technology	1	1	0	2
321	Nursing Assistant	2	5	1	8
324	Emergency Medical Technology	3	8	1	12
325	Phlebotomy	0	9	0	9
326	Mechatronics	0	1	0	1
327	Welding Sculpture Certificate	0	2	0	2
328	Information Technology	0	6	0	6
329	Cisco and Network	0	3	0	3
337	Advanced Manufacturing	0	8	0	8
338	Supply Chain Management**	0	3	0	3
340	Plastic Technology	0	4	0	4
349	Pharmacy Technician Certificate	1	1	0	2
350	Medical Biller/Receptionist	0	13	0	13
364	Computer Graphics Technology	1	10	0	11
365	Accounting for Small Business	0	6	0	6
366	Application Developer	1	4	0	5
376	Geographic Information Systems	0	2	0	2
Totals (Skills Programs: Certificates)		10	102	2	114
% of Total Enrollment		0.12%	1.18%	0.01%	1.30%

\*\*New Program

**Career Programs: One-Year Certificates<sup>26</sup>**

Code	Program Name	Full-time	Part-time	Other	Total
1	Accounting	3	14	0	17
2	Basic Business	10	25	0	35
4	Programming	0	9	0	9
17	Practical Nursing	0	4	0	4
24	Emergency Medical Technology	2	7	0	9
26	Medical Assisting	5	15	0	20
31	Early Childhood Education	2	16	0	18
32	Special Needs Para Educator	1	2	0	3
79	Culinary Arts	1	6	0	7
84	Brewing and Distillation Technology	6	17	0	23
115	Piano Teacher	0	1	0	1
124	Metallurgy Applied Physical	1	2	0	3
125	Electronic Technology	0	6	0	6
127	Welding Fabrication	10	33	0	43
129	Welding Pre-Apprenticeship	3	12	0	15
131	Web and Interactive Media	0	1	0	1
132	3D and Video Graphics	0	3	0	3
136	Computer Graphics Technology	0	8	0	8
144	Sound Recording Technology	3	13	0	16
149	Fire Fighter Technology	1	22	11	34
159	Computer Service Technician*	0	1	0	1
170	Elementary Education	0	20	1	21

<sup>25</sup> SC RS: Enrollment by Program, 2021-04

<sup>26</sup> SC RS: Enrollment by Program, 2021-04

171	Secondary Education	0	19	0	19
213	Small Business for Entrepreneurs	4	11	1	16
214	Movement Science	0	4	0	4
219	Plastic Technology	1	1	0	2
230	Computer Systems Support	2	4	0	6
231	Networking Specialist	1	3	0	4
232	Cybersecurity	2	8	0	10
237	Advanced Manufacturing	2	13	0	15
240	Health Coding Specialist	1	14	0	15
241	Web Specialist	0	1	0	1
242	Business Info Technology	1	4	0	5
247	Culinary Baking & Pastry Arts	13	3	12	28
248	CAD Mechanical Design	2	12	0	14
249	Pharmacy Technician Certificate	1	1	0	2
270	Networking Technology Integration*	0	2	0	2
272	Engineering Technology	1	1	0	2
276	Environmental Science Technician	0	5	0	5
291	Real Estate Property Management**	0	3	0	3
339	Supply Chain Management**	1	2	0	3
346	Music Entrepreneurship	1	3	0	4
Totals (Career Programs: One-Year Certificates)		81	351	25	457
% of Total Enrollment		1%	4%	0.29%	5%

\* Program Inactive, \*\*New Program

#### Career Programs: Associate and Bachelor's Degree<sup>27</sup>

Code	Program Name	Full-time	Part-time	Other	Total
0	Registered Nursing	10	354	0	364
5	Accounting	43	81	0	124
7	Networking Specialist	7	13	0	20
8	General Business	102	159	0	261
9	Marketing & Applied Management	27	55	0	82
10	Cosmetology Management	2	10	0	12
11	Small Business Entrepreneur	24	21	0	45
12	Programming	46	81	0	127
14	Computer Systems Support	8	25	0	33
20	Early Childhood Education	27	68	0	95
21	Special Needs Para Educator	4	5	0	9
28	Computer Graphics Technology	17	38	0	55
31	Web and Interactive Media	5	9	0	14
32	3D and Video Graphics	11	22	0	33
41	Broadcast Communications	6	8	0	14
66	Cybersecurity	38	68	0	106
68	Special Study - Career	6	25	0	31
82	Welding Fabrication Technology	9	18	0	27
86	Criminal Justice	102	138	17	257
87	Culinary Arts	48	59	0	107
120	Electronics Technology	10	19	0	29
128	Biomedical Engineering Technology	4	13	0	17
135	Advanced Manufacturing	3	14	0	17
153	Health Information Technology	4	35	0	39
170	Computer Aided Mechanical Design	1	5	0	6
176	Environmental Studies	10	14	0	24
177	Fire Technology	11	25	4	40
184	Metallurgy and Materials Science	1	7	0	8
217	Fire and Emergency Services	4	3	3	10

<sup>27</sup> SC RS: Enrollment by Program, 2021-04

226	Mechatronics	7	19	0	26
229	Health Professionals Management for Pharmacy Technicians	3	5	0	8
244	Sound Recording Technology	9	14	0	23
250	Emergency Medical Technology	1	13	0	14
252	Homeland Security	3	9	0	12
258	CAD Mechanical Design	4	12	0	16
273	Engineering Technology	19	11	0	30
275	Web Specialist	1	3	0	4
277	Business Information Technology	23	34	0	57
284	Movement Science	14	19	0	33
292	Real Estate Property Management**	10	13	0	23
341	Supply Chain Management**	3	14	0	17
347	Music Entrepreneurship	3	3	0	6
397	B.S. Culinary & Dietary Operations Management	1	0	0	1
Totals (Career Programs: Associate/Bachelor Degree)		691	1,561	24	2,276
% of Total Enrollment		8%	18%	0.29%	26%

\*\*New Program

#### Career Programs: Total of Bachelor's Degree, Associate Degree, and One-Year Certificate<sup>28</sup>

	Full-time	Part-time	Other	Total
Enrollment	772	1,917	50	2,739
% of Total Enrollment	9%	22%	0.58%	32%

#### Career Programs: Post-Certificates<sup>29</sup>

Code	Program Name	Full-time	Part-time	Other	Total
155	Computer Information Systems	2	1	0	3
Totals (Career Programs: Post-Certificates)		2	1	0	3
% of Total Enrollment		0.02%	0.01%	0.00%	0.03%

#### Career Programs: Total Pre-Programs, Skills, and Post-Certificate Enrollment<sup>30</sup>

	Full-time	Part-time	Other	Total
Enrollment	362	1,270	1	1,633
% of Total Enrollment	4%	15%	0.01%	19%

#### Transfer Programs<sup>31</sup>

Code	Program Name	Full-time	Part-time	Other	Total
39	Associate in Engineering	115	140	0	255
42	Associate in Arts	175	295	0	470
42	Associate In General Studies	590	845	7	1,442
42	Associate in Science	191	270	0	461
167	Guest Transfer	35	393	2	430
268	Dual Enrollment	1	300	0	301
368	Early College	0	32	0	32
401	Associate in Business Administration	256	368	0	624
402	Associate in Fine Arts	19	33	0	52
403	Pre-Pharmacy Associate Degree	4	5	0	9
500	Business Transfer*	0	1	0	1
600	Health Transfer*	1	1	0	2
700	Education Transfer	15	22	0	37
900	Non-Degree Seeking	32	153	2	187
Totals (Transfer Programs)		1,434	2,858	11	4,303

<sup>28</sup> SC RS: Enrollment by Program, 2021-04

<sup>29</sup> SC RS: Enrollment by Program, 2021-04

<sup>30</sup> SC RS: Enrollment by Program, 2021-04

<sup>31</sup> SC RS: Enrollment by Program, 2021-04

% of Total Enrollment	17%	33%	0.13%	50%
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\* Program Inactive

### Total Enrollment for Certificates, Associate Degrees, and Transfer<sup>32</sup>

	Full-time	Part-time	Other	Total
Pre-Programs	350	1,167	0	1,517
Skills Certificates	10	102	1	113
One-Year Certificates	81	351	25	457
Associate and Bachelor's Degrees	691	1,561	25	2,277
Post-Associate Certificates	2	1	0	3
Transfer	1,434	2,858	11	4,303
Totals	2,568	6,040	62	8,670
% of Total Enrollment	30%	70%	0.72%	

NOTE: This report reflects students enrolled in more than one major.

### c) *Projected enrollment pattern next five (5) years (includes distance-learning initiatives).*

The following chart shows annual unduplicated student credit enrollments and the projections for the next five years.

Academic Year	Credit Enrollment
2011-2012	20,969
2012-2013	20,458
2013-2014	20,247
2014-2015	19,307
2015-2016	18,855
2016-2017	17,875
2017-2018	15,324
2018-2019	14,110
2019-2020	13,556
2020-2021	10,844 <sup>33</sup>
2021-2022*	10,736
2022-2023	10,629
2023-2024	10,523
2024-2025	10,418
2025-2026	10,314
*2021-2022 data not yet available; however, total will be impacted by COVID 19	

*Italics = projection of 1% enrollment decline*

### Distance Learning Courses: Current Enrollment/Future Growth

The growth of distance learning courses (i.e., online, hybrid, and remote synchronous) continues to increase over the past several years. Students have and continue to seek distance-learning modalities to accommodate their varied schedules.

Students Enrolled Exclusively In: <sup>34</sup>	Fall 2021
Online Courses	2,362

<sup>32</sup> Consists of the total lines from the category tables above

<sup>33</sup> STIS.3.11 Reporting Year 2020

<sup>34</sup> Lori M. Timmis, Dean of Distance Learning (Online Courses: *Source: 2021-04 SC.DL.COUNT (Y082) Report, Students and Guest Students*)

**d) Evaluate enrollment patterns over the last five years.**

The table below provides the headcount for each Fall Semester for the past five years taken at the end of the late registration/schedule adjustment period (Fall 2021 run September 24, 2021).<sup>35</sup>

	2021	2020	2019	2018	2017
<b>Fall Headcount</b>	8,751	8,487	9,823	10,213	10,852

**e) Provide instructional staff/student and administrative staff/student ratios for major academic programs or colleges.**

For the 2020-21 academic year, the student (10,844)<sup>36</sup> to instructional staff (421) ratio was 26:1. Instructional staff includes both full-time and part-time faculty members. The ratio for students to administrative staff (60) was 181:1. Administrative staff includes executives and administrators.<sup>37</sup>

**f) Project future staffing needs based on 5-year enrollment estimates and future programming changes.**

The following chart shows annual staffing figures (includes both full-time and part-time employees for Fall 2020) and the projections for the next five years.

Year	Staffing (FT & PT)
2011-2012	881
2012-2013	854
2013-2014	841
2014-2015	845
2015-2016	832
2016-2017	830
2017-2018	802
2018-2019	827
2019-2020	818
2020-2021	758 <sup>38</sup>
2021-2022	766
2022-2023	774
2023-2024	782
2024-2025	790

*\*Italics = projection of 1% employee growth*

**g) Identify current average class size and projected average class size based on the institution's mission and planned programming changes.**

In general, class size has been a result of negotiated contracts between the College and faculty union. While the previous contracts allowed for a degree of flexibility, no major modifications occurred in the 31:1 maximum class size ratio. Section size may vary depending on room capacity and may be discipline specific. For example, the Computer Information Systems class sizes are determined by computer workstations in the lab, with a seat count in most of these courses ranging from 20-24 seats. While these numbers align to contractually determined ratios, class size has been adjusted to comply with social distancing requirements due to COVID-19.

<sup>35</sup> STIS 3.11 Credit Classes by Term

<sup>36</sup> SC RS: STIS.3.11 Credit Students after Grades Posted - 2020

<sup>37</sup> SC Staffing Summary Report, Fall 2020 as of 10/11/2021

<sup>38</sup> SC Staffing Summary Report, Fall 2020 as of 10/11/2021

The average class size for 2020 was 17 students per course and included enrollment in alternative delivery courses.<sup>39</sup>

#### IV. Facility Assessment

- a) **Summary description of each facility according to categories outlined in “net-to-gross ratio guidelines for various building types,” DMB-Office of Design and Construction Major Project Design Manual, appendix 7. If a facility is of more than one “type,” please identify the percentage of each type within a given facility.**

See Exhibit A.

- b) **Building and/or classroom utilization rates to industry standards.**

##### Room Utilization Methodology

Due to COVID-19, like many colleges, our goal is to deliver quality instruction while keeping the safety of our students and staff a top priority. Because of this, 19% of our class offerings for Fall 2021 are being held in a remote synchronous format, 27% are online, and 54% are face-to-face.<sup>40</sup>

During a normal semester, the heaviest demand by students for classes falls into two categories: Daytime - Monday through Thursday, 8:00 a.m. - 2:00 p.m., Evenings - Monday through Thursday, 6:00 p.m. - 10:00 p.m. However, we have reported room utilization based on the parameters set forth in this section of the capital outlay as follows:

- Peak Monday through Friday 10:00 a.m. – 3:00 p.m.
- Off Peak Monday through Friday 8:00 a.m. – 10:00 a.m.
- Off Peak Monday through Friday 3:00 p.m. – 5:00 p.m.
- Evening Monday through Thursday 5:00 p.m. – 10:00 p.m.
- Weekends Friday 5:00 p.m. – 10:00 p.m.
- Saturday & Sunday 8:00 a.m. – 10:00 p.m.

#### Main Campus Fall Semester 2021 Facility Usage<sup>41</sup>

Building / Room Type	Peak	Off Peak		Evening	Weekend	
	M-F 10am-3pm	M-F 8am-10am	M-F 3pm-5pm	M-Th 5pm-10pm	F 5pm-10pm	Sa Su 8am-10pm
Applied Science Classrooms*	9.3%	18.6%	8.3%	8.0%	4.2%	0.0%
Biomedical Technology Center Classrooms	57.4%	56.6%	66.4%	34.5%	0.0%	0.9%
Bradner Library Classrooms	4.2%	0.0%	10.6%	0.0%	0.0%	0.0%
Elite Sport Center Classrooms	45.9%	0.0%	8 2.8%	27.1%	0.0%	0.0%

<sup>39</sup> SC RS: SC.3.21 Credit Classes, 2020 (Total Resident Headcount + Non Resident Headcount ÷ Total Number of Sections) (21,780 + 23,811)/2,608 = 17.48)

<sup>40</sup> Informer: Summary of Classes, 2021-04, exclude VLC - as of 10/11/2021

<sup>41</sup> EMS Academic Room Utilization Report - Fall 2021

Forum Classrooms	23.5%	34.9%	30.4%	12.0%	0.0%	0.0%
Jeffress Center Classrooms	9.7%	19.1%	3.1%	16.8%	0.0%	1.2%
Liberal Arts Classrooms	50.6%	57.1%	39.9%	26.2%	0.0%	0.4%
McDowell Center Classrooms	46.0%	52.8%	31.2%	14.7%	0.0%	0.0%
Physical Education Classrooms	7.5%	14.0%	28.8%	19.3%	0.0%	0.0%
VisTaTech Center Classrooms	9.3%	0.0%	22.7%	6.5%	19.3%	2.2%
Applied Science Labs*, ***	2.4%	5.9%	5.9%	0.0%	0.0%	0.0%
Biomedical Technology Center Labs***	55.9%	77.6%	73.9%	50.7%	0.0%	1.5%
Elite Sport Center Labs***	11.5%	0.0%	0.0%	0.0%	0.0%	0.0%
Forum Labs***	43.2%	43.3%	47.9%	23.5%	10.8%	1.4%
Jeffress Center Labs***	38.2%	19.1%	66.2%	36.5%	38.2%	1.8%
Liberal Arts Labs - Theater****	23.2%	0.0%	58.0%	19.0%	0.0%	0.0%
McDowell Center Labs**	100.0%	88.4%	100.0%	28.7%	0.0%	0.0%
Physical Education Labs	38.1%	37.3%	33.9%	33.4%	24.8%	6.4%
VisTaTech Center Labs***	99.2%	89.4%	100.0%	38.0%	3.0%	1.4%
<b>Computer Labs**</b>						
Applied Science Computer Labs	100%	100%	100%	100%	100%	100%
Biomedical Technology Center Computer Labs	100%	100%	100%	100%	100%	100%
Forum Computer Labs	100%	100%	100%	100%	100%	100%
Jeffress Center Computer Labs	100%	100%	100%	100%	100%	100%
Liberal Arts Computer Labs	100%	100%	100%	100%	100%	100%
McDowell Center Computer Labs	100%	100%	100%	100%	100%	100%
VisTaTech Center Computer Labs	100%	100%	100%	100%	100%	100%

\*Beginning in September 2020, the Applied Science building is undergoing renovations. Rooms may be unavailable for use during construction.

\*\*When not scheduled for classes, computer labs are open for faculty to work with students from 8:00AM to 10:00PM, as such, shown as having 100% utilization.

\*\*\*These are very specialized labs that are only open when a class is being held or an instructor is present in the lab because of the equipment present.

\*\*\*\*Theater is used for performances, plays, stage set-up, rehearsals, etc. when not scheduled for classes.

NOTE: Class size has been adjusted to comply with social distancing requirements due to COVID-19 in 2021, which has impacted room utilization.

## Radcliff Center/ Manufacturing & Engineering Center - Fall Semester 2021 Facility Usage<sup>42</sup>

Building / Room Type	Peak	Off Peak		Evening	Weekend	
	M-F 10am-3pm	M-F 8am-10am	M-F 3pm-5pm	M-Th 5pm-10pm	F 5pm-10pm	Sa Su 8am-10pm
Radcliff Center Classrooms	13.5%	25.9%	15.8%	13.5%	1.8%	4.2%
Manufacturing & Engineering Center Classrooms	32.1%	26.4%	42.7%	25.7%	16.0%	1.1%
Radcliff Center Labs	2.9%	7.3%	0.0%	1.1%	0.0%	0.0%
Manufacturing & Engineering Center Labs	8.1%	5.0%	12.2%	11.8%	8.6%	0.5%
Computer Labs**						
Radcliff Center Computer Labs	100%	100%	100%	100%	100%	100%
Manufacturing & Engineering Center Computer Labs	100%	100%	100%	100%	100%	100%

\*\*When not scheduled for classes, computer labs are open for faculty to work with students from 8:00AM to 10:00PM, as such, shown as having 100% utilization.

\*\*\*These are very specialized labs that are only open when a class is being held or an instructor is present in the lab because of the equipment present.

NOTE: Class size has been adjusted to comply with social distancing requirements due to COVID-19 in 2021, which has impacted room utilization.

## Public Safety Training Complex Fall Semester 2021 Facility Usage<sup>43</sup>

Building / Room Type	Peak	Off Peak		Evening	Weekend	
	M-F 10am-3pm	M-F 8am-10am	M-F 3pm-5pm	M-Th 5pm-10pm	F 5pm-10pm	Sa Su 8am-10pm
Academy Training Center Classrooms	61.1%	100.0%	100.0%	32.5%	13.5%	6.4%
Firearms Training Center Classrooms	48.6%	82.6%	84.9%	40.0%	5.6%	0.6%
Academy Training Center Classrooms	10.0%	25.0%	25.0%	0.0%	0.0%	0.0%
Firearms Training Center Classrooms	1.7%	0.0%	4.2%	4.1%	0.0%	1.4%
Computer Labs**						
Firearms Training Center Computer Lab	100%	100%	100%	100%	100%	100%

\*\*When not scheduled for classes, computer labs are open for faculty to work with students from 8:00AM to 10:00PM, as such, shown as having 100% utilization.

NOTE: Class size has been adjusted to comply with social distancing requirements due to COVID-19 in 2021, which impacted room utilization.

<sup>42</sup> EMS Academic Room Utilization Report - Fall 2021

<sup>43</sup> EMS Academic Room Utilization Report - Fall 2021

## Fall 2021 - Classroom and Lab Usage - All Campus Buildings<sup>44</sup>

Schoolcraft College	Peak	Off Peak		Evening	Weekend	
	M-F 10am-3pm	M-F 8am-10am	M-F 3pm-5pm	M-Th 5pm-10pm	F 5pm-10pm	Sa Su 8am-10pm
<b>Classrooms</b>						
Total Classroom Hours for All Buildings	14,808	7,360	6,485	7,426	273	736
Average Utilization Rate for All Buildings	29.6%	41.8%	36.9%	21.1%	3.1%	1.5%
<b>Labs</b>						
Total Lab Hours for All Buildings	8,914	3,720	4,817	4,636	460	420
Average Utilization Rate for All Buildings	33.4%	30.2%	39.1%	18.8%	7.5%	1.2%

NOTE: Class size has been adjusted to comply with social distancing requirements due to COVID-19 in 2021, which has impacted room utilization.

**c) Mandated facility standards for specific programs, where applicable.**

Many of our programs require specialized classrooms/labs such as Welding, Robotics, Plastic Technology, Manufacturing, Metallurgy, Nursing, Recording Technology, Pharmacy Technician, Medical Imaging, Police and Fire Academies, EMT, and Medical Assisting.

**d) Functionality of existing structures and space allocation to program areas served.**

See Renovation Priorities and Major Maintenance Priorities (under Section V, part b) and Exhibit A.

**e) Replacement value of existing facilities (insured value of structures to the extent available).**

Annually R.A. Schettler, Inc., an independent certified appraisal service, establishes the replacement value of the College's buildings. The most recently completed version was on October 1, 2021 and the summation is included in Exhibit B.

**f) Utility system condition.**

See Exhibit A.

**g) Facility infrastructure condition.**

See Exhibit A.

**h) Adequacy of existing utilities and infrastructure systems to current and 5-year projected programmatic needs.**

The IT Infrastructure project is complete. Expansion of the wireless system is ongoing. Utilities and other infrastructure systems will need to be extended to incorporate additional parking and buildings anticipated over the next five years.

- i) ***Does the institution have an enterprise-wide energy plan? What are its goals? Have energy audits been completed on all facilities, if not, what is the plan/timetable for completing such audits?***

The College has a written five-year Energy Plan with the goals of providing energy savings and associated cost avoidance. We are constantly evaluating and updating campus systems.

- j) ***Land owned by the institution; include a determination of whether capacity exists for future development, if additional acquisitions are needed to meet future demands, or surplus land can be conveyed for a different purpose.***

The College has performed a long-range master planning exercise identifying several building sites on the main campus.

- k) ***What portions of existing buildings, if any, are currently obligated to the State Building Authority and when are these State Building Authority leases set to expire.***

The Business and Industry Training Center and Waterman Campus Center Expansion (VisTaTech) is leased to the State. The Technical Services Facility (Biomedical Technology Center) is leased to the State and will expire approximately November 1, 2043.

## V. IMPLEMENTATION PLAN

- a) ***Prioritize major capital projects requested from the State, including a brief project description and estimated cost, in the format provided.***

The College was approved and is presently working on a capital outlay project for our Applied Sciences building to become a Health Science Center.

- b) ***Define the impact of addressing deferred maintenance and structural repairs, including programmatic impact, immediately versus over the next five years.***

Exhibit A outlines the total deferred maintenance backlog of the College by building showing the costs of doing the repairs immediately and the additional cost that is accrued the longer the repairs are deferred. This information is taken from our 10-year Deferred Maintenance plan that has been created by Schoolcraft with the help of an outside architectural firm and is maintained by Schoolcraft's Department of Construction and Design.

Continuing to defer the maintenance needed in these buildings limits the opportunities that Schoolcraft can offer to its students. With limited lab and classroom space for particular programs, wait lists have to be created instead of allowing more students into the in-demand programs. Additionally, some of the classrooms need an update in technology to bring the classrooms to current Schoolcraft standards.

### Major Maintenance (2021 - 2025)

Year 2021		
Secondary Electrical Replacement Phase 1 (WCC)	\$	200,000.00
PE Roof Replacement - NE Mechanical	\$	107,000.00
Replace Forum Entry/Ramp Tile	\$	25,000.00
Service Building Windows	\$	65,000.00
Replace LA Interior Doors and Hardware	\$	100,000.00
Parking Lot Sealcoating	\$	50,000.00
Campus Sidewalk Replacements	\$	30,000.00
<b>Year Total</b>	<b>\$</b>	<b>577,000.00</b>

Year 2022		
Waterman Wing Roof Replacement	\$	75,000.00
Rebuild Parking Lot - Main Campus Center	\$	300,000.00
Water Main Replacements	\$	150,000.00
Secondary Electrical Phase 2 (A/F)	\$	150,000.00
Campus Sidewalk Replacements	\$	30,000.00
Parking Lot Sealcoating	\$	50,000.00
<b>Year Total</b>	<b>\$</b>	<b>755,000.00</b>

Year 2023		
Fascia Replacement (SB/WCC)	\$	100,000.00
Secondary Electrical Phase 3	\$	250,000.00
Secondary Electrical Subpanels	\$	250,000.00
Rebuild Parking Lot - Main Campus South	\$	1,500,000.00
Parking Lot Sealcoating	\$	60,000.00
Campus Sidewalk Replacements	\$	60,000.00
<b>Year Total</b>	<b>\$</b>	<b>2,220,000.00</b>

Year 2024		
PE North Roof Replacements - Pool/NE Mechanical Room	\$	220,000.00
Service Building Roof Replacement	\$	115,000.00
Grote Flat Roof & Fascia Replacement	\$	55,000.00
<b>Year Total</b>	<b>\$</b>	<b>390,000.00</b>

Year 2025		
Rebuild Parking Lot - Main Campus North	\$	1,250,400.00
<b>Year Total</b>	<b>\$</b>	<b>1,250,400.00</b>

## Renovation Priorities (2021 - 2025)

Year 2021		
Capital Outlay - Forum Science and Humanities Renovation & Addition	\$	22,500,000.00
<b>Year Total</b>	<b>\$</b>	<b>22,500,000.00</b>

Year 2022		
Liberal Arts Classroom Renovations (20)	\$	1,400,000.00
Computer Room Upgrades - Phase 2	\$	200,000.00
<b>Year Total</b>	<b>\$</b>	<b>1,600,000.00</b>

Year 2023		
FTC and ATC Parking Lot Replacements	\$	750,000.00
Renovate DDC (Duplication/Design Center)	\$	100,000.00
Waterman Student Activities - Phase 3 Renovation	\$	500,000.00
Renovate 4 BTC Classrooms	\$	240,000.00
<b>Year Total</b>	<b>\$</b>	<b>1,590,000.00</b>

Year 2024		
Waterman Wing Atrium	\$	250,000.00
Renovate Campus Classrooms	\$	600,000.00
<b>Year Total</b>	<b>\$</b>	<b>850,000.00</b>

Year 2025		
BTC Simulation Upgrade	\$	850,000.00
Expand Cold Storage and Add Utilities	\$	150,000.00
Renovate Campus Classrooms	\$	600,000.00
<b>Year Total</b>	<b>\$</b>	<b>1,600,000.00</b>

**c) Include the status of on-going projects financed with State Building Authority resources and explain how completion coincides with the overall 5-year plan.**

We are at the 600 phase of our currently approved Capital Outlay project.

**d) Identify, to the extent possible, a rate of return on planned expenditures.**

Not applicable.

**c) Where applicable, consider alternatives to new infrastructure, such as distance learning.**

We currently offer a wide variety of online and hybrid courses and have been experiencing enrollment increases each year.

**f) Identify a maintenance schedule for major maintenance items in excess of \$1,000,000 for fiscal year 2021 through fiscal year 2025.**

See Major Maintenance Priorities and Renovation Priorities (under Section V, part b).

SCHOOLCRAFT COLLEGE; ACADEMY TRAINING CENTER - SCHEDULED MAINTENANCE PROGRAM

SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:					2013					INFLATION RATE (%):					1.8%					LEGEND				
BUILDING SECTION (BUILDING TYPE)					BUILDING AGE (YRS)					BUILDING AREA (GSF)										AVG: AVERAGE				
ACADEMY TRAINING CENTER (CLASSROOM)					1988					23,068										CF: CUBIC FEET				
																				CY: CUBIC YARDS				
																				EA: EACH				
																				EUL: ESTIMATED USEFUL LIFE				
																				GSF: GROSS SQUARE FEET				
																				LOC: LOCATION (SITE/BLDG)				
																				PV: PRESENT VALUE				
																				RUL: ESTIMATED USEFUL LIFE				
																				SF: SQUARE FEET				
																				SY: SQUARE YARDS				
																				YRS: YEARS				
																				REMAINING USEFUL LIFE (RUL) BAROMETER				
																				RUL = 1 YEAR OR LESS				
																				RUL = 5 YEARS				
																				RUL = 10 YEARS OR GREATER				

Schoolcraft College

FCI

BUILDING CONDITION

FCI < 5%

GOOD

5%< FCI< 10%

FAIR

10% < FCI

POOR

ITEM NO. CODES

AI: ACCESSIBILITY IMPROVEMENT

BE: BUILDING EXTERIOR

BI: BUILDING INTERIOR

BS: BUILDING SYSTEM

ES: ELECTRICAL SYSTEM

MS: MECHANICAL SYSTEM

PS: PLUMBING SYSTEM

SG: SITE GROUNDS

SE: SPECIALTY EQUIPMENT

SCHEDULED MAINTENANCE PLAN YEAR																
ITEM		FICM		YEAR ITEM		ITEM TOTAL		AVG		TIME		ITEM		SCHEDULED MAINTENANCE PLAN YEAR		
LOC	NO.	ITEM	CODE	WAS PUT INTO SERVICE	QUANTITY	UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	COST	FIRST COST	2019	2020	2021	2022	2023
BUILDING ENVELOPE (includes items exterior to building)												\$ 3,426	\$ 3,487	\$ 3,550	\$ 3,614	\$ 3,679
ATC-	BE001	ROOF REPLACEMENT.	MMM16	2012	--	--	25	1	24	\$0.00	--					
ATC-	BE002	STEEL LINTEL MAINTENANCE.	MMM16	1988	110	LF	15	25	-10	\$10.80	\$ 1,188	\$ 1,322	\$ 1,346	\$ 1,370	\$ 1,395	\$ 1,420
ATC-	BE003	OVERHEAD DOOR SEAL REPAIRS. COMPLETED	780	2018	1	LS	15	0	15	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ATC-	BE004	CONCRETE WALK REPLACEMENTS	SSS18	1988	200	SF	25	25	0	\$9.45	\$ 1,890	\$ 2,104	\$ 2,141	\$ 2,180	\$ 2,219	\$ 2,259
BUILDING INTERIOR												\$ -	\$ -	\$ -	\$ -	\$ -
ATC-	BI001	WALL FINISH UPDATES - ALLOWANCE.	110, 310, 550, 555, 590, W05, W06 AND X03	VARIOUS	--	--	--	--	--	\$0.00	--					
ATC-	BI002	FLOOR FINISH UPDATES - ALLOWANCE.	110, 310, 550, 555, 590, W05, W06 AND X03 TRAINING ROOM / 2018 - PULASTIC TRAINING ROOM FLOOR RECOATED.	VARIOUS	--	--	--	--	--	\$0.00	--					
PLUMBING SYSTEMS (may be packaged with BI item scope)												\$ -	\$ -	\$ -	\$ -	\$ -
ATC-	PS001	DOMESTIC HOT WATER RETURN CIRCULATING PUMP MAINTENANCE/REPLACEMENT.	UUU24	2012	--	--	20	1	19	\$0.00	--					
ATC-	PS002	PLUMBING FIXTURE REPLACEMENTS.	UUU24	2012	--	--	20	1	19	\$0.00	--					
ATC-	PS003	DOMESTIC HOT WATER HEATER REPLACEMENT.	UUU24	2012	--	--	10	1	9	\$0.00	--					
MECHANICAL SYSTEMS (may be packaged with BI item scope)												\$ 29,525	\$ 30,057	\$ 30,598	\$ 31,149	\$ 31,709
ATC-	MS001	RAPID AIR HANDLING UNIT REPLACEMENT.	UUU25	2012	--	--	20	1	19	\$0.00	--					
ATC-	MS002	VAV/CAV BOX MAINTENANCE/REPLACEMENTS.	UUU25	2012	--	--	20	1	19	\$0.00	--					

SCHOOLCRAFT COLLEGE; ACADEMY TRAINING CENTER - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM CODE	YEAR ITEM	ITEM TOTAL QUANTITY	ITEM UNITS	AVG TIME			ITEM	SCHEDULED MAINTENANCE PLAN YEAR					
LOC	NO.	ITEM		WAS PUT INTO SERVICE			EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
ATC-	MS003	EXHAUST AIR FAN MAINTENANCE/REPLACEMENT.	UUU25	2012	--	--	20	1	19	\$0.00	--					
ATC-	MS004	PACKAGED SMALL ROOFTOP AIR HANDLING UNIT REPLACEMENTS.	UUU25	2012	--	--	20	1	19	\$0.00	--					
ATC-	MS005	CABINET UNIT HEATER REPLACEMENT.	UUU25	2010	--	--	20	3	17	\$0.00	--					
ATC-	MS006	SPLIT-SYSTEM DX A/C UNIT REPLACEMENT.	UUU25	2010	--	--	15	3	12	\$0.00	--					
ATC-	MS007	REFRIGERANT CONDENSING UNIT REPLACEMENT.	UUU25	2010	--	--	15	3	12	\$0.00	--					
ATC-	MS008	AIR COMPRESSOR MAINTENANCE/REPLACEMENT.	UUU25	2010	--	--	20	3	17	\$0.00	--					
ATC-	MS009	MAIN JCI ROOFTOP UNIT.	UUU25	2010	--	--	20	3	17	\$0.00	--					
ATC-	MS010	MAIN JCI ROOFTOP UNIT CONDENSER.	UUU25	2010	--	--	20	3	17	\$0.00	--					
ATC-	MS011	DUCT CLEANING.	UUU25	2010	23,068	SF	10	3	7	\$1.15	\$ 26,528	\$ 29,525	\$ 30,057	\$ 30,598	\$ 31,149	\$ 31,709
ELECTRICAL SYSTEMS (may be packaged with BI item scope)												\$ -	\$ -	\$ -	\$ -	\$ -
ATC-	ES001	BUILDING SERVICE TRANSFORMER (OWNED BY DTE).	UUU04	2010	--	--	20	3	17	\$0.00	--					
ATC-	ES002	MAIN SWITCHBOARD.	UUU05	2010	--	--	20	3	17	\$0.00	--					
ATC-	ES003	STANDBY GENERATOR.	UUU25	2010	--	--	20	3	17	\$0.00	--					
ATC-	ES004	LIFE SAFETY AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2010	--	--	20	3	17	\$0.00	--					
ATC-	ES005	STANDBY POWER SYSTEMS AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2010	--	--	20	3	17	\$0.00	--					
ATC-	ES006	ELECTRICAL DISTRIBUTION EQUIPMENT.	UUU05	2010	--	--	20	3	17	\$0.00	--					
ATC-	ES007	VARIABLE FREQUENCY DRIVE (VFD).	UUU25	2012	--	--	15	1	14	\$0.00	--					
ATC-	ES008	LIGHTING AND RECEPTACLE PANELBOARDS.	UUU05	2010	--	--	20	3	17	\$0.00	--					
ATC-	ES009	EXTERIOR BUILDING MOUNTED LIGHTING.	UUU25	2010	--	--	20	3	17	\$0.00	--					
ATC-	ES010	EXIT LIGHTING.	U06	2010	--	--	20	3	17	\$0.00	--					
ATC-	ES011	CORRIDOR LIGHTING.	W06	2010	--	--	20	3	17	\$0.00	--					
ATC-	ES012	CLASSROOM LIGHTING	100	2010	--	--	20	3	17	\$0.00	--					
ATC-	ES013	OFFICE LIGHTING.	300	2010	--	--	20	3	17	\$0.00	--					
ATC-	ES014	GARAGE LIGHTING.	740	2010	--	--	20	3	17	\$0.00	--					
ATC-	ES015	PARKING LOT LIGHTING.	UUU10 AND UUU11	2010	--	--	30	3	27	\$0.00	--					
ATC-	ES016	STORAGE AND UTILITY ROOM LIGHTING.	X01 AND Y04	2010	--	--	20	3	17	\$0.00	--					
ATC-	ES017	VACANCY SENSOR LIGHTING CONTROLS (CLASSROOMS).	110 AND 210	2010	--	--	20	3	17	\$0.00	--					
ATC-	ES018	VACANCY SENSOR LIGHTING CONTROLS (CORRIDORS)	W05 AND W06	2010	--	--	20	3	17	\$0.00	--					
BUILDING SYSTEMS (fire, security, IT/media infrastructure)												\$ -	\$ -	\$ -	\$ -	\$ -
ATC-	BS001	FIRE ALARM SYSTEM MAIN AND REMOTE PANELS.	UUU07	2010	--	--	20	3	17	\$0.00	--					
ATC-	BS002	FIRE ALARM DEVICES.	UUU07	2010	--	--	20	3	17	\$0.00	--					
ATC-	BS003	BOILER EPO SYSTEM.	Y04	2010	--	--	20	3	17	\$0.00	--					
ATC-	BS004	PRIMAX CLOCK SYSTEM.	UUU25	2010	--	--	20	3	17	\$0.00	--					
ATC-	BS005	SECURITY SURVEILLANCE SYSTEM.	UUU14	2010	--	--	20	3	17	\$0.00	--					
ATC-	BS006	SECURITY ACCESS SYSTEM. COMPLETED 2021.	UUU14	2021	--	--	20	0	20	\$0.00	--					
ATC-	BS007	IT SYSTEMS	UUU02	2010	--	--	20	--	--	\$0.00	--					
SPECIALTY EQUIPMENT (food service, theatre, labs, shops)												\$ -	\$ -	\$ -	\$ -	\$ -
ATC-	SE001	POLICE/FIRE TRAINING MAZE MAJOR MAINTENANCE.	550	2010	--	--	25	3	22	\$0.00	--					
ACCESSIBILITY IMPROVEMENTS												\$ -	\$ -	\$ -	\$ -	\$ -
ATC-		NONE						--	--							

SCHOOLCRAFT COLLEGE; ACADEMY TRAINING CENTER - SCHEDULED MAINTENANCE PROGRAM

				YEAR ITEM	AVG				TIME	ITEM	SCHEDULED MAINTENANCE PLAN YEAR										
ITEM			FICM	WAS PUT	ITEM TOTAL	ITEM	EUL	IN USE	RUL	UNIT	ITEM										
LOC	NO.	ITEM	CODE	INTO SERVICE	QUANTITY	UNITS	(YRS)	(YRS)	(YRS)	COST	FIRST COST	2019	2020	2021	2022	2023					
ANNUAL FUNDING REQUIREMENTS (ROUNDED):												\$	32,951	\$	33,544	\$	34,148	\$	34,763	\$	35,388




## SCHOOLCRAFT COLLEGE; BIOTECHNOLOGY CENTER - SCHEDULED MAINTENANCE PROGRAM

SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:		2013
BUILDING SECTION (BUILDING TYPE)	BUILDING AGE (YRS)	BUILDING AREA (GSF)
BIOTECHNOLOGY CENTER (CLASSROOM)	2008	50,128
YEAR: 2022		
MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:	\$	151,146
REPLACEMENT VALUE FOR THE BUILDING:	\$	17,206,400
FACILITY CONDITION INDEX (FCI):		1%

<b>INFLATION RATE (%):</b>	1.8%
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LEGEND	
AVG: AVERAGE	
CF: CUBIC FEET	
CY: CUBIC YARDS	
EA: EACH	
EUL: ESTIMATED USEFUL LIFE	
GSF: GROSS SQUARE FEET	
LOC: LOCATION (SITE/BLDG)	
PV: PRESENT VALUE	
RUL: ESTIMATED USEFUL LIFE	
SF: SQUARE FEET	
SY: SQUARE YARDS	
YRS: YEARS	

ITEM NO. CODES
AI: ACCESSIBILITY IMPROVEMENT
BE: BUILDING EXTERIOR
BI: BUILDING INTERIOR
BS: BUILDING SYSTEM
ES: ELECTRICAL SYSTEM
MS: MECHANICAL SYSTEM
PS: PLUMBING SYSTEM
SG: SITE GROUNDS
SE: SPECIALTY EQUIPMENT

<b>REMAINING USEFUL LIFE (RUL) BAROMETER</b>	
	<b>RUL = 1 YEAR OR LESS</b>
	<b>RUL = 5 YEARS</b>
	<b>RUL = 10 YEARS OR GREATER</b>



FCI	BUILDING CONDITION
FCI < 5%	GOOD
5% < FCI < 10%	FAIR
10% < FCI	POOR

ITEM		FICM	YEAR ITEM	ITEM TOTAL	AVG	TIME	ITEM	DEFERRED MAINTENANCE PLAN YEAR								
LOC	NO.	ITEM	CODE	WAS PUT INTO SERVICE	QUANTITY	ITEM UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
BUILDING ENVELOPE (includes items exterior to building)												\$ -	\$ -	\$ -	\$ -	\$ -
BTC-	BE001	ROOF REPLACEMENT.	MMM16	2008	--	--	20	5	15	\$0.00	--					
BTC-	BE002	MASONRY MAINTENANCE.	MMM16	2008	--	--	50	5	45	\$0.00	--					
BTC-	BE003	EXTERIOR SEALANT MAINTENANCE.	MMM16	2008	--	--	20	5	15	\$0.00	--					
BTC-	BE004	WINDOW REPLACEMENTS.	MMM16	2008	--	--	30	5	25	\$0.00	--					
BTC-	BE005	WEST ENTRY SLIDER DOOR MAINTENANCE/REPLACEMENTS.	W06	2008	--	--	20	5	15	\$0.00	--					
BTC-	BE006	CLERESTORY MAINTENANCE.	MMM16	2008	--	--	20	5	15	\$0.00	--					
BTC-	BE007	EAST PATIO MAINTENANCE.	SSS18	2008	--	--	20	5	15	\$0.00	--					
BTC-	BE008	BREAKOUT AREA (OUTSIDE OF BTC300) LOUNGE FURNITURE UPDATES/REPAIRS/REPLACEMENTS	650	2008	--	--	20	5	15	\$0.00	--					
BTC-	BE009	CORRECT GRADE DRAINAGE PROBLEM.	SSS18	2017	1	LS	20	0	20	\$10,000.00	\$0	\$ -	\$ -	\$ -	\$ -	\$ -
BTC-	BE010	PAVEMENT REPAIRS AT EXTERIOR BREAKOUT AREAS.	SSS18	2017	25	SF	20	0	20	\$300.00	\$0	\$ -	\$ -	\$ -	\$ -	\$ -
BUILDING INTERIOR												\$ 55,927	\$ 56,934	\$ 57,959	\$ 59,002	\$ 60,064
BTC-	BI001	LAB STOOL REPLACEMENTS.	210	2008	40	EA	10	5	5	\$200.00	\$8,000	\$ 8,903.83	\$ 9,064.09	\$ 9,227.25	\$ 9,393.34	\$ 9,562.42
BTC-	BI002	LABORATORY SHEET FLOORING REPLACEMENTS.	210 AND 215	2008	2,400	SF	20	5	15	\$8.00	\$19,200	\$ 21,369.18	\$ 21,753.83	\$ 22,145.40	\$ 22,544.01	\$ 22,949.81
BTC-	BI003	INTERIOR WOOD DOOR ASSESSMENT/MAINTENANCE/REPLACEMENTS.	110, 210, 215, 310 AND 410	2008	--	--	20	5	15	\$0.00	--					
BTC-	BI004	WALL FINISH UPDATES - ALLOWANCE.	110, 210, 215, 310, 410, 650, W05 AND W06	2008	--	--	15	5	10	\$0.00	--					
BTC-	BI005	FLOOR FINISH UPDATES - ALLOWANCE.	110, 210, 215, 310, 410, 650, W05 AND W06	2008	--	--	15	5	10	\$0.00	--					
BTC-	BI006	ENTRANCE MAT REPLACEMENT.	W05 AND W06	2008	1,270	SF	10	5	5	\$15.00	\$19,050	\$ 21,202.24	\$ 21,583.88	\$ 21,972.39	\$ 22,367.89	\$ 22,770.51
BTC-	BI007	STUDY ROOM GYPSUM BOARD WALL REPAIRS/PROTECTION TO ADDRESS DAMAGE FROM CHAIRS.	410	NONE	100	LF	20	--	--	\$40.00	\$4,000	\$ 4,451.91	\$ 4,532.05	\$ 4,613.62	\$ 4,696.67	\$ 4,781.21


SCHOOLCRAFT COLLEGE; BIOTECHNOLOGY CENTER - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM CODE	YEAR ITEM	ITEM TOTAL QUANTITY	AVG TIME				ITEM	DEFERRED MAINTENANCE PLAN YEAR					
LOC	NO.	ITEM		WAS PUT INTO SERVICE		ITEM UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
BTC-	BI008	FURNITURE UPDATES IN VENDING AREA.	650	2008	--	--	15	5	10	\$0.00	--					
BTC-	BI009	CORRIDOR BENCH REPAIRS/REPLACEMENTS/UPDATES.	W05 AND W06	2008	--	--	15	5	10	\$0.00	--					
PLUMBING SYSTEMS (may be packaged with BI item scope)												\$ -	\$ -	\$ -	\$ -	\$ -
BTC-	PS001	DOMESTIC HOT WATER PUMP MAINTENANCE/REPLACEMENT.	UUU24	2008	--	--	20	5	15	\$0.00	--					
BTC-	PS002	ACID WASTE TANK MAJOR MAINTENANCE.	210 AND 215	2008	--	--	10	5	5	\$0.00	--					
MECHANICAL SYSTEMS (may be packaged with BI item scope)												\$ 3,339	\$ 3,399	\$ 3,460	\$ 3,523	\$ 3,586
BTC-	MS001	WEATHER CAPS ON BOILER STACKS.	UUU22	2008	2	EA	40	5	35	\$1,500.00	\$3,000	\$ 3,338.93	\$ 3,399.04	\$ 3,460.22	\$ 3,522.50	\$ 3,585.91
BTC-	MS002	BOILER REPLACEMENT.	UUU22	2008	--	--	30	5	25	\$0.00	--					
BTC-	MS003	HEATING HOT WATER PUMP MAINTENANCE/REPLACEMENTS.	UUU22	2008	--	--	20	5	15	\$0.00	--					
BTC-	MS004	CHILLED WATER PUMP MAINTENANCE/REPLACEMENTS.	UUU20	2008	--	--	20	5	15	\$0.00	--					
BTC-	MS005	AHU-1 CIRCULATING PUMP MAINTENANCE/REPLACEMENTS.	Y04	2008	--	--	20	5	15	\$0.00	--					
BTC-	MS006	VF-1 CIRCULATING PUMP MAINTENANCE/REPLACEMENTS.	Y04	2008	--	--	20	5	15	\$0.00	--					
BTC-	MS007	UNIT HEATER REPLACEMENTS.	Y04	2008	--	--	20	5	15	\$0.00	--					
BTC-	MS008	CHILLER MAINTENANCE/REPLACEMENT/INDOOR UNIT.	UUU20	2008	--	--	25	5	20	\$0.00	--					
BTC-	MS009	GENERAL EXHAUST FAN MAINTENANCE/REPLACEMENTS.	UUU25	2008	--	--	20	5	15	\$0.00	--					
BTC-	MS010	LABORATORY EXHAUST FAN MAINTENANCE/REPLACEMENTS.	210	2008	--	--	25	5	20	\$0.00	--					
BTC-	MS011	VAV BOX MAINTENANCE/REPLACEMENTS.	UUU25	VARIOUS	--	--	20	--	--	\$0.00	--					
BTC-	MS012	LABORATORY AIRFLOW TERMINAL UNIT MAINTENANCE/REPLACEMENTS.	210 AND 215	2008	--	--	25	5	20	\$0.00	--					
BTC-	MS013	AIR-COOLED CONDENSER.	UUU20	2008	--	--	15	5	10	\$0.00	--					
BTC-	MS014	JCI BAS CONTROLS.	UUU06	VARIOUS	--	--	15	--	--	\$0.00	--					
BTC-	MS015	CLEAN AIR DUCT.	UUU25	2008	--	--	10	5	5	\$0.00	--					
ELECTRICAL SYSTEMS (may be packaged with BI item scope)												\$ 74,013	\$ 75,345	\$ 76,702	\$ 78,082	\$ 79,488
BTC-	ES001	BUILDING SERVICE TRANSFORMER.	UUU04	2008	--	--	20	5	15	\$0.00	--					
BTC-	ES002	MAIN SWITCHBOARD.	UUU05	2008	--	--	20	5	15	\$0.00	--					
BTC-	ES003	STANDBY GENERATOR.	UUU25	2008	--	--	20	5	15	\$0.00	--					
BTC-	ES004	LIFE SAFETY AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2008	--	--	20	5	15	\$0.00	--					
BTC-	ES005	STANDBY POWER SYSTEMS ATS.	UUU25	2008	--	--	20	5	15	\$0.00	--					
BTC-	ES006	ELECTRICAL DISTRIBUTION EQUIPMENT.	UUU05	2008	--	--	20	5	15	\$0.00	--					
BTC-	ES007	VARIABLE FREQUENCY DRIVE (VFD).	UUU25	2008	--	--	20	5	15	\$0.00	--					
BTC-	ES008	LIGHTING AND RECEPTACLE PANELBOARDS.	UUU05	2008	--	--	20	5	15	\$0.00	--					
BTC-	ES009	EXTERIOR BUILDING MOUNTED LIGHTING.	UUU25	2008	--	--	20	5	15	\$0.00	--					
BTC-	ES010	EXIT LIGHTING.	W05 AND W06	2008	--	--	20	5	15	\$0.00	--					
BTC-	ES011	SECONDARY CORRIDOR LIGHTING.	W05 AND W06	2008	1	LS	20	5	15	\$2,500.00	\$2,500	\$ 2,782.45	\$ 2,832.53	\$ 2,883.52	\$ 2,935.42	\$ 2,988.26
BTC-	ES012	MAIN CORRIDOR LIGHTING.	W05 AND W06	2008	--	--	20	5	15	\$0.00	--					
BTC-	ES013	CLASSROOMS/MEETING ROOM LIGHTING.	110, 210 AND 680	2008	1	LS	20	5	15	\$5,000.00	\$5,000	\$ 5,564.89	\$ 5,665.06	\$ 5,767.03	\$ 5,870.84	\$ 5,976.51
BTC-	ES014	OFFICE LIGHTING.	310	2008	1	LS	20	5	15	\$2,500.00	\$2,500	\$ 2,782.45	\$ 2,832.53	\$ 2,883.52	\$ 2,935.42	\$ 2,988.26
BTC-	ES015	STORAGE AND UTILITY ROOM LIGHTING.	Y04	2008	1	LS	20	5	15	\$1,500.00	\$1,500	\$ 1,669.47	\$ 1,699.52	\$ 1,730.11	\$ 1,761.25	\$ 1,792.95
BTC-	ES016	VACANCY SENSOR LIGHTING CONTROLS.	110 AND 210	2008	1	LS	20	5	15	\$20,000.00	\$20,000	\$ 22,259.56	\$ 22,660.24	\$ 23,068.12	\$ 23,483.35	\$ 23,906.05
BTC-	ES017	DAYLIGHT SENSORS.	W06	NONE	1	LS	20	--	--	\$35,000.00	\$35,000	\$ 38,954.24	\$ 39,655.41	\$ 40,369.21	\$ 41,095.86	\$ 41,835.58
BUILDING SYSTEMS (fire, security, IT/media infrastructure)												\$ 6,344	\$ 6,458	\$ 6,574	\$ 6,693	\$ 6,813
BTC-	BS001	FIRE ALARM SYSTEM MAIN AND REMOTE PANELS.	UUU07	2008	--	--	20	5	15	\$0.00	--					
BTC-	BS002	FIRE ALARM DEVICES.	UUU07	2008	--	--	20	5	15	\$0.00	--					

SCHOOLCRAFT COLLEGE; BIOTECHNOLOGY CENTER - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM	YEAR ITEM	ITEM TOTAL QUANTITY	ITEM UNITS	AVG TIME			ITEM	DEFERRED MAINTENANCE PLAN YEAR					
LOC	NO.	ITEM	CODE	WAS PUT INTO SERVICE			EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
BTC-	BS003	BOILER ROOM EPO SYSTEM.	Y04	2008	--	--	20	5	15	\$0.00	---					
BTC-	BS004	PRIMAX CLOCK SYSTEM.	UUU25	2008	--	--	20	5	15	\$0.00	---					
BTC-	BS005	SECURITY SURVEILLANCE SYSTEM.	UUU14	2008	--	--	20	5	15	\$0.00	---					
BTC-	BS006	SECURITY ACCESS SYSTEM. IMPROVEMENTS WERE MADE IN 2016 & 2019.	UUU14	2008	--	--	20	5	15	\$0.00	---					
BTC-	BS007	IT SYSTEMS.	UUU02	2008	14	EA	10	5	5	\$300.00	\$4,200	\$ 4,674.51	\$ 4,758.65	\$ 4,844.31	\$ 4,931.50	\$ 5,020.27
BTC-	BS008	IT SYSTEMS.	UUU02	2008	--	--	10	5	5	\$0.00	---					
BTC-	BS009	IT SYSTEMS.	UUU02	2008	5	EA	10	5	5	\$300.00	\$1,500	\$ 1,669.47	\$ 1,699.52	\$ 1,730.11	\$ 1,761.25	\$ 1,792.95
BTC-	BS010	IT SYSTEMS.	UUU02	2008	--	--	10	5	5	\$0.00	---					
SPECIALTY EQUIPMENT (food service, theatre, labs, shops)												\$ -	\$ -	\$ -	\$ -	\$ -
BTC-	SE001	EXTERIOR BUILDING SIGNAGE UPGRADE (COMPLIANCE WITH CURRENT COLLEGE BRANDING STANDARDS).	SSS16	2008	1	LS	20	5	15	\$0.00	\$0	\$ -	\$ -	\$ -	\$ -	\$ -
ACCESSIBILITY IMPROVEMENTS												\$ 1,113	\$ 1,133	\$ 1,153	\$ 1,174	\$ 1,195
BTC-	AI001	DISPLAY CASE IMPROVEMENTS.	W06	2012	1	LS	20	1	19	\$1,000.00	\$1,000	\$ 1,112.98	\$ 1,133.01	\$ 1,153.41	\$ 1,174.17	\$ 1,195.30
ANNUAL FUNDING REQUIREMENTS (ROUNDED):												\$ 140,736	\$ 143,269	\$ 145,848	\$ 148,473	\$ 151,146

SCHOOLCRAFT COLLEGE; CHILDREN'S CENTER - SCHEDULED MAINTENANCE PROGRAM

SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:					2013					INFLATION RATE (%):					1.8%					LEGEND							
BUILDING SECTION (BUILDING TYPE)					BUILDING AGE (YRS)		BUILDING AREA (GSF)																				
CHILDREN'S CENTER - TOTAL (CLASSROOM)					1995		9,597																				
YEAR: 2022																											
MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:					\$ 562,322																						
REPLACEMENT VALUE FOR THE BUILDING:					\$ 1,510,800																						
FACILITY CONDITION INDEX (FCI):					37%																						
					FCI		BUILDING CONDITION																				
					FCI < 5%		GOOD																				
					5%< FCI< 10%		FAIR																				
					10% < FCI		POOR																				
					ITEM NO. CODES																						
					AI: ACCESSIBILITY IMPROVEMENT																						
					BE: BUILDING EXTERIOR																						
					BI: BUILDING INTERIOR																						
					BS: BUILDING SYSTEM																						
					ES: ELECTRICAL SYSTEM																						
					MS: MECHANICAL SYSTEM																						
					PS: PLUMBING SYSTEM																						
					SG: SITE GROUNDS																						
					SE: SPECIALTY EQUIPMENT																						
															REMAINING USEFUL LIFE (RUL) BAROMETER												
					RUL = 1 YEAR OR LESS																						
					RUL = 5 YEARS																						
					RUL = 10 YEARS OR GREATER																						
DEFERRED MAINTENANCE PLAN YEAR																											
ITEM NO.		FICM CODE		YEAR ITEM WAS PUT INTO SERVICE		ITEM TOTAL QUANTITY		AVG EUL (YRS)		TIME IN USE (YRS)		RUL (YRS)		ITEM UNIT COST		ITEM FIRST COST		2019		2020		2021		2022		2023	
BUILDING ENVELOPE (includes items exterior to building)												\$ 7,035		\$ 7,162		\$ 7,291		\$ 7,422		\$ 7,556							
CC-	BE001	EXTERIOR FENCING REPLACEMENT.	MMM05	2012	--	--	30	1	29	\$0.00	--																
CC-	BE002	REDESIGN / REPAIR PAVEMENT IN CHILDREN'S CENTER DROP-OFF AREA TO ELIMINATE TRIP HAZARD POTENTIAL.	SSS09	2014	100	LF	15	0	15	\$141.75	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CC-	BE003	BRICK TUCKPOINTING.	MMM16	1995	10	SF	10	18	-8	\$10.80	\$ 108	\$ 120	\$ 122	\$ 125	\$ 127	\$ 129	\$ 129	\$ 129	\$ 129	\$ 129	\$ 129	\$ 129	\$ 129	\$ 129	\$ 129	\$ 129	\$ 129
CC-	BE004	EXTERIOR SIDING AND COPING MAINTENANCE.	MMM16	1995	--	--	15	18	-3	\$0.00	--																
CC-	BE005	SEALANT MAINTENANCE AROUND EXTERIOR WINDOWS.	MMM16	1995	600	LF	20	18	2	\$4.73	\$ 2,838	\$ 3,159	\$ 3,215	\$ 3,273	\$ 3,332	\$ 3,392	\$ 3,392	\$ 3,392	\$ 3,392	\$ 3,392	\$ 3,392	\$ 3,392	\$ 3,392	\$ 3,392	\$ 3,392	\$ 3,392	
CC-	BE006	SPALLING BRICK REPAIRS NEAR MAIN ENTRANCE.	MMM16	1995	3	SF	10	18	-8	\$945.00	\$ 2,835	\$ 3,155	\$ 3,212	\$ 3,270	\$ 3,329	\$ 3,389	\$ 3,389	\$ 3,389	\$ 3,389	\$ 3,389	\$ 3,389	\$ 3,389	\$ 3,389	\$ 3,389	\$ 3,389	\$ 3,389	
CC-	BE007	ROOFING REPLACEMENT.	MMM16	1995	--	--	25	18	7	\$0.00	--																
CC-	BE008	SEAL AROUND CONCRETE FLATWORK AT NORTHEAST EXTERIOR CORNER OF CHILDREN'S CENTER TO PREVENT WATER INTRUSION.	SSS18	1995	8	LF	15	18	-3	\$67.50	\$ 540	\$ 601	\$ 612	\$ 623	\$ 634	\$ 645	\$ 645	\$ 645	\$ 645	\$ 645	\$ 645	\$ 645	\$ 645	\$ 645	\$ 645	\$ 645	
CC-	BE009	MAIN ENTRY SLIDER DOOR REPLACEMENT.	W06	1995	--	--	15	18	-3	\$0.00	--																
CC-	BE010	MAIN CORRIDOR SKYLIGHT MAINTENANCE.	W06	1995	100	SF	25	18	7	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
CC-	BE011	EXTERIOR DOOR REPLACEMENTS.	640 AND W06	1995	--	--	25	18	7	\$0.00	--																
BUILDING INTERIOR												\$ 155,933		\$ 158,740		\$ 161,597		\$ 164,506		\$ 167,467							
CC-	BI001	CC105 - STORAGE ROOM VCT FLOOR FINISH REPLACEMENT.	645	1995	700	SF	35	18	17	\$7.09	\$ 4,963	\$ 5,524	\$ 5,623	\$ 5,724	\$ 5,827	\$ 5,932	\$ 5,932	\$ 5,932	\$ 5,932	\$ 5,932	\$ 5,932	\$ 5,932	\$ 5,932	\$ 5,932	\$ 5,932	\$ 5,932	
CC-	BI002	REPLACEMENT OF CORRIDOR VCT FLOORING WITH HIGHER GRADE SOLID SURFACE FLOOR FINISH.	W06	1995	1,400	SF	35	18	17	\$4.73	\$ 6,622	\$ 7,370	\$ 7,503	\$ 7,638	\$ 7,775	\$ 7,915	\$ 7,915	\$ 7,915	\$ 7,915	\$ 7,915	\$ 7,915	\$ 7,915	\$ 7,915	\$ 7,915	\$ 7,915	\$ 7,915	
CC-	BI003	STAFF TOILET ROOM FLOORING REPLACEMENT.	X03	1995	160	SF	20	18	2	\$28.01	\$ 4,482	\$ 4,988	\$ 5,078	\$ 5,169	\$ 5,262	\$ 5,357	\$ 5,357	\$ 5,357	\$ 5,357	\$ 5,357	\$ 5,357	\$ 5,357	\$ 5,357	\$ 5,357	\$ 5,357	\$ 5,357	
CC-	BI004	STAFF TOILET ROOM COUNTER AND SINK REPLACEMENT.	X03	2014	8	LF	15	0	15	\$214.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

SCHOOLCRAFT COLLEGE; CHILDREN'S CENTER - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM	YEAR ITEM	ITEM TOTAL	ITEM	AVG	TIME	ITEM	DEFERRED MAINTENANCE PLAN YEAR						
LOC	NO.	ITEM	CODE	WAS PUT INTO SERVICE	QUANTITY	EUL	IN USE	RUL	UNIT	ITEM	2019	2020	2021	2022	2023	
CC-	BI005	PAINTING ALLOWANCE - ENTIRE BUILDING ON 5 YR CYCLE.	310, 640, 645, W06 AND X03	VARIOUS	--	--	--	--	\$0.00	--						
CC-	BI006	MAIN CORRIDOR COAT/BOOT STORAGE UPGRADES.	W06	1995	80	LF	25	18	7	\$432.00	\$ 34,560	\$ 38,465	\$ 39,157	\$ 39,862	\$ 40,579	\$ 41,310
CC-	BI007	ALLOWANCE FOR CLASSROOM MILLWORK REPLACEMENTS.	640 AND 645	VARIOUS	30	LF	25	--	--	\$432.00	\$ 12,960	\$ 14,424	\$ 14,684	\$ 14,948	\$ 15,217	\$ 15,491
CC-	BI008	MAIN CORRIDOR WOOD DOOR REPLACEMENTS/UPGRADE TO LAMINATE COVERED DOOR FOR CLEANING EASE AND IMPACT PROTECTION.	310, 640 AND 645	1995	18	EA	50	18	32	\$1,431.00	\$ 25,758	\$ 28,668	\$ 29,184	\$ 29,709	\$ 30,244	\$ 30,789
CC-	BI009	MAINTENANCE/REPLACEMENT OF FRONT ENTRANCE SLIDER DOORS.	W06	1995	2	EA	15	18	-3	\$11,070.00	\$ 22,140	\$ 24,641	\$ 25,085	\$ 25,536	\$ 25,996	\$ 26,464
CC-	BI010	MAIN CORRIDOR WALK-OFF MATTING SYSTEM REPLACEMENT.	W06	2008	240	SF	5	5	0	\$62.10	\$ 14,904	\$ 16,588	\$ 16,886	\$ 17,190	\$ 17,500	\$ 17,815
CC-	BI011	ROOM CC100 CARPET REPLACEMENT.	640	2019	0	SF	12	0	12	\$7.09	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CC-	BI012	ROOM CC110 CARPET REPLACEMENT.	640	2019	0	SF	12	0	12	\$7.09	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CC-	BI013	GYPSUM BOARD WALL DAMAGE REPAIR	645	1995	6	SF	15	18	-3	\$13.50	\$ 81	\$ 90	\$ 92	\$ 93	\$ 95	\$ 97
CC-	BI014	MILLWORK CABINET REPLACEMENT	645	2008	20	LF	25	5	20	\$681.75	\$ 13,635	\$ 15,175	\$ 15,449	\$ 15,727	\$ 16,010	\$ 16,298
PLUMBING SYSTEMS (may be packaged with BI item scope)											\$ -	\$ -	\$ -	\$ -	\$ -	
CC-	PS001	CENTRALIZED DOMESTIC HOT WATER HEATER REPLACEMENT.	UUU24	2019	0	EA	10	0	10	\$5,562.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
MECHANICAL SYSTEMS (may be packaged with BI item scope)											\$ 134,670	\$ 137,094	\$ 139,562	\$ 142,074	\$ 144,632	
CC-	MS001	HVAC DUCT CLEANING.	UUU25	1995	9,500	SF	10	18	-8	\$1.15	\$ 10,925	\$ 12,159	\$ 12,378	\$ 12,601	\$ 12,828	\$ 13,059
CC-	MS002	HVAC SYSTEMS REPLACEMENT. INCLUDES A/C CONDENSING UNITS AND HUMIDIFIERS. REPLACED HVAC SYSTEM FURNACE / CONDENSING UNIT #2 IN 2019. REPLACED (1) FURNACE IN 2021. TWO (2) OTHER REPLACEMENTS REMAINING.	UUU25	1995	2	EA	15	18	-3	\$16,200.00	\$ 32,400	\$ 36,060	\$ 36,710	\$ 37,370	\$ 38,043	\$ 38,728
CC-	MS003	TEMPERATURE CONTROLS UPGRADE FROM STAND-ALONE ELECTRICAL TO NETWORKED DDC.	UUU06	1995	9,000	SF	20	18	2	\$6.08	\$ 54,720	\$ 60,902	\$ 61,998	\$ 63,114	\$ 64,250	\$ 65,407
CC-	MS004	ADD VENTILATION AND HEATING EQUIPMENT FOR EAST STORAGE ROOM USED FOR STORING PLAYGROUND EQUIPMENT.	645	NONE	1	LS	15	--	--	\$6,750.00	\$ 6,750	\$ 7,513	\$ 7,648	\$ 7,785	\$ 7,926	\$ 8,068
CC-	MS005	VENT GAS PRESSURE REGULATOR TO THE OUTDOORS.	645	NONE	1	LS	30	--	--	\$5,000.00	\$ 5,000	\$ 5,565	\$ 5,665	\$ 5,767	\$ 5,871	\$ 5,977
CC-	MS006	STAFF KITCHEN EXHAUST FAN.	645	NONE	1	LS	25	--	--	\$11,205.00	\$ 11,205	\$ 12,471	\$ 12,695	\$ 12,924	\$ 13,157	\$ 13,393
ELECTRICAL SYSTEMS (may be packaged with BI item scope)											\$ 138,755	\$ 141,253	\$ 143,795	\$ 146,383	\$ 149,018	
CC-	ES001	MAIN SWITCHBOARD.	UUU05	1995	1	EA	20	18	2	\$81,000.00	\$ 81,000	\$ 90,151	\$ 91,774	\$ 93,426	\$ 95,108	\$ 96,819
CC-	ES002	ELECTRICAL DISTRIBUTION EQUIPMENT	UUU05	1995	2	EA	20	18	2	\$10,000.00	\$ 20,000	\$ 22,260	\$ 22,660	\$ 23,068	\$ 23,483	\$ 23,906
CC-	ES003	LIGHTING AND RECEPTACLE PANELBOARDS.	UUU05	2006	--	--	20	7	13	\$0.00	--					
CC-	ES004	EXTERIOR BUILDING MOUNTED LIGHTING.	UUU25	1995	8	EA	20	18	2	\$708.75	\$ 5,670	\$ 6,311	\$ 6,424	\$ 6,540	\$ 6,658	\$ 6,777
CC-	ES005	EXIT LIGHTING.	W06	2006	--	--	20	7	13	\$0.00	--					
CC-	ES006	CORRIDOR LIGHTING.	W06	2006	--	--	20	7	13	\$0.00	--					
CC-	ES007	CLASSROOM LIGHTING.	640	2006	--	--	20	7	13	\$0.00	--					
CC-	ES008	OFFICE LIGHTING.	310	2006	--	--	20	7	13	\$0.00	--					
CC-	ES009	STORAGE AND UTILITY ROOM LIGHTING.	X01 AND Y04	2006	--	--	20	7	13	\$0.00	--					

SCHOOLCRAFT COLLEGE; CHILDREN'S CENTER - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM	YEAR ITEM	ITEM TOTAL	ITEM	AVG	TIME	ITEM	DEFERRED MAINTENANCE PLAN YEAR							
LOC	NO.	ITEM	CODE	WAS PUT INTO SERVICE	QUANTITY	UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023	
CC-	ES010	VACANCY SENSOR LIGHTING CONTROLS (CLASSROOMS).	640	2006	--	--	20	7	13	\$0.00	--						
CC-	ES011	VACANCY SENSOR LIGHTING CONTROLS (CORRIDORS).	W06	NONE	1	LS	20	--	--	\$18,000.00	\$ 18,000	\$ 20,034	\$ 20,394	\$ 20,761	\$ 21,135	\$ 21,515	
CC-	ES012	EMERGENCY LIGHTING	310, 640, 645, W06 AND X03	2014	1	LS	20	0	20	\$27,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
BUILDING SYSTEMS (fire, security, IT/media infrastructure)												\$ 35,663	\$ 36,305	\$ 36,958	\$ 37,624	\$ 38,301	
CC-	BS001	FIRE ALARM SYSTEM MAIN AND REMOTE PANELS.	UUU07	2006	--	--	20	7	13	\$0.00	--						
CC-	BS002	FIRE ALARM DEVICES.	UUU07	2006	--	--	20	7	13	\$0.00	--						
CC-	BS003	BOILER EPO SYSTEM.		NONE	1	LS	20	--	--	\$5,000.00	\$ 5,000	\$ 5,565	\$ 5,665	\$ 5,767	\$ 5,871	\$ 5,977	
CC-	BS004	CLOCK SYSTEM.	UUU25	1995	1	LS	20	18	2	\$8,421.37	\$ 8,421	\$ 9,373	\$ 9,542	\$ 9,713	\$ 9,888	\$ 10,066	
CC-	BS005	SECURITY SURVEILLANCE SYSTEM.	UUU14	2004	1	LS	20	9	11	\$8,421.37	\$ 8,421	\$ 9,373	\$ 9,542	\$ 9,713	\$ 9,888	\$ 10,066	
CC-	BS006	SECURITY ACCESS SYSTEM.	UUU14	2004	1	LS	20	9	11	\$10,000.00	\$ 10,000	\$ 11,130	\$ 11,330	\$ 11,534	\$ 11,742	\$ 11,953	
CC-	BS007	COMMUNICATIONS SYSTEMS.			1	LS	10	2013	--	\$100.00	\$ 100	\$ 111	\$ 113	\$ 115	\$ 117	\$ 120	
CC-	BS008	NETWORK CABLING.			2	EA	10	2013	--	\$50.00	\$ 100	\$ 111	\$ 113	\$ 115	\$ 117	\$ 120	
SPECIALTY EQUIPMENT (food service, theatre, labs, shops)												\$ 51,536	\$ 52,464	\$ 53,408	\$ 54,370	\$ 55,348	
CC-	SE001	OUTDOOR PLAY SURFACE/STRUCTURE REPAIRS/REPLACEMENTS.	SSS18	VARIOUS	3,500	SF	15	--	--	\$13.23	\$ 46,305	\$ 51,536	\$ 52,464	\$ 53,408	\$ 54,370	\$ 55,348	
ACCESSIBILITY IMPROVEMENTS																	
CC-	0	NONE						--	--								
ANNUAL FUNDING REQUIREMENTS (ROUNDED):												\$ 523,593	\$ 533,018	\$ 542,612	\$ 552,379	\$ 562,322	

SCHOOLCRAFT COLLEGE; FIREARMS TRAINING CENTER - SCHEDULED MAINTENANCE PROGRAM

SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:					2013		INFLATION RATE (%):					1.8%		LEGEND				
BUILDING SECTION (BUILDING TYPE)					BUILDING AGE (YRS)		BUILDING AREA (GSF)							AVG: AVERAGE				
FIREARMS TRAINING CENTER (CLASSROOM)							26,609							CF: CUBIC FEET				
														CY: CUBIC YARDS				
														EA: EACH				
														EUL: ESTIMATED USEFUL LIFE				
														GSF: GROSS SQUARE FEET				
														LOC: LOCATION (SITE/BLDG)				
														PV: PRESENT VALUE				
														RUL: ESTIMATED USEFUL LIFE				
														SF: SQUARE FEET				
														SY: SQUARE YARDS				
														YRS: YEARS				
														REMAINING USEFUL LIFE (RUL) BAROMETER				
														RUL = 1 YEAR OR LESS				
														RUL = 5 YEARS				
														RUL = 10 YEARS OR GREATER				

Schoolcraft College

FCI

BUILDING CONDITION

FCI < 5%

GOOD

5%< FCI< 10%

FAIR

10% < FCI

POOR

ITEM NO. CODES

AI: ACCESSIBILITY IMPROVEMENT

BE: BUILDING EXTERIOR

BI: BUILDING INTERIOR

BS: BUILDING SYSTEM

ES: ELECTRICAL SYSTEM

MS: MECHANICAL SYSTEM

PS: PLUMBING SYSTEM

SG: SITE GROUNDS

SE: SPECIALTY EQUIPMENT


DEFERRED MAINTENANCE PLAN YEAR																
ITEM LOC	ITEM NO.	ITEM	FICM CODE	YEAR ITEM WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	ITEM UNITS	AVG EUL (YRS)	TIME IN USE (YRS)	RUL (YRS)	ITEM UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
BUILDING ENVELOPE (includes items exterior to building)												\$ -	\$ -	\$ -	\$ -	\$ -
FTC-	BE001	ROOF REPLACEMENT.	MMM16	2012	--	--	25	1	24	\$0.00	--					
FTC-	BE002	OVERHEAD DOOR FRAME MAINTENANCE. COMPLETE	730	2018	2	EA	10	0	10	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
BUILDING INTERIOR												\$ 7,513	\$ 7,648	\$ 7,785	\$ 7,926	\$ 8,068
FTC-	BI001	FIRING RANGE ARCHITECTURAL MAINTENANCE.	550	2012	1	LS	5	1	4	\$6,750.00	\$ 6,750	\$ 7,513	\$ 7,648	\$ 7,785	\$ 7,926	\$ 8,068
FTC-	BI002	WALL FINISH UPDATES - ALLOWANCE.	110, 310, 550, 555, W06 AND X03	2012	--	--	15	1	14	\$0.00	--					
FTC-	BI003	FLOOR FINISH UPDATES - ALLOWANCE.	110, 310, 550, 555, W06 AND X03	2012	--	--	15	1	14	\$0.00	--					
PLUMBING SYSTEMS (may be packaged with BI item scope)												\$ -	\$ -	\$ -	\$ -	\$ -
FTC-	PS001	DOMESTIC HOT WATER RETURN CIRCULATING PUMP MAINTENANCE/REPLACEMENT.	UUU24	2012	--	--	20	1	19	\$0.00	--					
FTC-	PS002	PLUMBING FIXTURE REPLACEMENTS.	X03	2012	--	--	20	1	19	\$0.00	--					
FTC-	PS003	DOMESTIC HOT WATER HEATER REPLACEMENT.	UUU24	2012	--	--	10	1	9	\$0.00	--					
MECHANICAL SYSTEMS (may be packaged with BI item scope)												\$ -	\$ -	\$ -	\$ -	\$ -
FTC-	MS001	AIR HANDLING UNIT REPLACEMENTS (YORK FAN WALL).	UUU25	2012	--	--	25	1	24	\$0.00	--					
FTC-	MS002	AIR HANDLING UNIT REPLACEMENTS (YORK DIRECT FIRED).	UUU25	2012	--	--	25	1	24	\$0.00	--					
FTC-	MS003	VAV/CAV BOX MAINTENANCE/REPLACEMENTS.	UUU25	2012	--	--	25	1	24	\$0.00	--					
FTC-	MS004	SPLIT-SYSTEM DX A/C UNIT REPLACEMENTS.	UUU25	2012	--	--	15	1	14	\$0.00	--					
FTC-	MS005	REFRIGERANT CONDENSING UNIT REPLACEMENTS.	UUU25	2012	--	--	15	1	14	\$0.00	--					
FTC-	MS006	ELECTRIC DUCT HEATER MAINTENANCE/REPLACEMENTS.	UUU25	2012	--	--	10	1	9	\$0.00	--					
FTC-	MS007	UNIT HEATER REPLACEMENTS.	UUU25	2012	--	--	20	1	19	\$0.00	--					
FTC-	MS008	CABINET UNIT HEATER REPLACEMENT.	UUU25	2012	--	--	20	1	19	\$0.00	--					
FTC-	MS009	EXHAUST AIR FAN MAINTENANCE/REPLACEMENTS.	UUU25	2012	--	--	20	1	19	\$0.00	--					
FTC-	MS010	BOILER REPLACEMENT.	UUU22	2012	--	--	20	1	19	\$0.00	--					

SCHOOLCRAFT COLLEGE; FIREARMS TRAINING CENTER - SCHEDULED MAINTENANCE PROGRAM

ITEM			YEAR ITEM			AVG			TIME			DEFERRED MAINTENANCE PLAN YEAR				
LOC	NO.	ITEM	FICM CODE	WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	ITEM UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	ITEM UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
FTC-	MS011	DUCT CLEANING.	UUU25	1989	--	--	10	24	-14	\$0.00	--					
ELECTRICAL SYSTEMS (may be packaged with BI item scope)												\$ -	\$ -	\$ -	\$ -	\$ -
FTC-	ES001	BUILDING SERVICE TRANSFORMER.	UUU04	2012	--	--	20	1	19	\$0.00	--					
FTC-	ES002	MAIN SWITCHBOARD.	UUU05	2012	--	--	20	1	19	\$0.00	--					
FTC-	ES003	STANDBY GENERATOR.	UUU25	2012	--	--	20	1	19	\$0.00	--					
FTC-	ES004	LIFE SAFETY AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2012	--	--	20	1	19	\$0.00	--					
FTC-	ES005	STANDBY POWER SYSTEMS AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2012	--	--	20	1	19	\$0.00	--					
FTC-	ES006	ELECTRICAL DISTRIBUTION EQUIPMENT.	UUU05	2012	--	--	20	1	19	\$0.00	--					
FTC-	ES007	VARIABLE FREQUENCY DRIVE (VFD).	UUU25	2012	--	--	15	1	14	\$0.00	--					
FTC-	ES008	LIGHTING AND RECEPTACLE PANELBOARDS.	UUU05	2012	--	--	20	1	19	\$0.00	--					
FTC-	ES009	EXTERIOR BUILDING MOUNTED LIGHTING.	UUU25	2012	--	--	20	1	19	\$0.00	--					
FTC-	ES010	EXIT LIGHTING.	W06	2012	--	--	20	1	19	\$0.00	--					
FTC-	ES011	CORRIDOR LIGHTING.	W06	2012	--	--	20	1	19	\$0.00	--					
FTC-	ES012	CLASSROOM LIGHTING	110	2012	--	--	20	1	19	\$0.00	--					
FTC-	ES013	OFFICE LIGHTING.	310	2012	--	--	20	1	19	\$0.00	--					
FTC-	ES014	SHOOTING RANGE LIGHTING.	550	2012	--	--	20	1	19	\$0.00	--					
FTC-	ES015	PARKING LOT LIGHTING.	UUU10 AND UUU11	2012	--	--	30	1	29	\$0.00	--					
FTC-	ES016	STORAGE AND UTILITY ROOM LIGHTING.	X01 AND Y04	2012	--	--	20	1	19	\$0.00	--					
FTC-	ES017	VACANCY SENSOR LIGHTING CONTROLS (CLASSROOMS).	110	2012	--	--	20	1	19	\$0.00	--					
FTC-	ES018	VACANCY SENSOR LIGHTING CONTROLS (CORRIDORS)	W05 AND W06	2012	--	--	20	1	19	\$0.00	--					
BUILDING SYSTEMS (fire, security, IT/media infrastructure)												\$ -	\$ -	\$ -	\$ -	\$ -
FTC-	BS001	FIRE ALARM SYSTEM MAIN AND REMOTE PANELS.	UUU07	2012	--	--	20	1	19	\$0.00	--					
FTC-	BS002	FIRE ALARM DEVICES.	UUU07	2012	--	--	20	1	19	\$0.00	--					
FTC-	BS003	BOILER EPO SYSTEM.	Y04	2012	--	--	20	1	19	\$0.00	--					
FTC-	BS004	PRIMAX CLOCK SYSTEM.	UUU25	2012	--	--	20	1	19	\$0.00	--					
FTC-	BS005	SECURITY SURVEILLANCE SYSTEM.	UUU14	2012	--	--	20	1	19	\$0.00	--					
FTC-	BS006	SECURITY ACCESS SYSTEM. COMPLETED 2021.	UUU14	2021	--	--	20	0	20	\$0.00	--					
FTC-	BS007	IT SYSTEMS.	UUU02	2012	--	--	20	--	--	\$0.00	--					
SPECIALTY EQUIPMENT (food service, theatre, labs, shops)												\$ -	\$ -	\$ -	\$ -	\$ -
FTC-	SE001	FIRING RANGE SYSTEM MAINTENANCE/REPLACEMENT.	550 / - PEPP BALLISTIC PANELS LAYOUT MODIFIED WITH SELECT PANEL REPLACEMENTS. 2019 - FIRING RANGE BULLET TRAPS REBUILT	2012	--	--	20	1	19	\$0.00	--					
ACCESSIBILITY IMPROVEMENTS																
FTC-		NONE						--	--							
ANNUAL FUNDING REQUIREMENTS (ROUNDED):												\$ 7,513	\$ 7,648	\$ 7,785	\$ 7,926	\$ 8,068

SCHOOLCRAFT COLLEGE; FORUM - SCHEDULED MAINTENANCE PROGRAM

SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:					2013					INFLATION RATE (%):					1.8%					LEGEND				
BUILDING SECTION (BUILDING TYPE)					BUILDING AGE (YRS)					BUILDING AREA (GSF)										AVG: AVERAGE				
FORUM - TOTAL (CLASSROOM)										54,953										CF: CUBIC FEET				
FORUM - ORIGINAL					1963					53,867										CY: CUBIC YARDS				
FORUM (PUMP HOUSE)					2004					1,086										EA: EACH				
FORUM (GREEN HOUSE - NOT INCLUDED IN FORUM GSF)					2006					563										EUL: ESTIMATED USEFUL LIFE				
FORUM (KILN SHEDS - NOT INCLUDED IN FORUM GSF)					2006					855										GSF: GROSS SQUARE FEET				
MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:					\$ 1,610,747					- YEAR: 2022										LOC: LOCATION (SITE/BLDG)				
REPLACEMENT VALUE FOR THE BUILDING:					\$ 19,841,800															PV: PRESENT VALUE				
FACILITY CONDITION INDEX (FCI):					8%															RUL: ESTIMATED USEFUL LIFE				
																				SF: SQUARE FEET				
																				SY: SQUARE YARDS				
																				YRS: YEARS				
																				REMAINING USEFUL LIFE (RUL) BAROMETER				
																				RUL = 1 YEAR OR LESS				
																				RUL = 5 YEARS				
																				RUL = 10 YEARS OR GREATER				



Schoolcraft  
College

FCI	BUILDING CONDITION
FCI < 5%	GOOD
5%< FCI< 10%	FAIR
10% < FCI	POOR

DEFERRED MAINTENANCE PLAN YEAR																	
ITEM		FICM		YEAR ITEM		ITEM TOTAL		AVG		TIME		ITEM		ITEM			
LOC	NO.	ITEM	CODE	WAS PUT	QUANTITY	ITEM	EUL	IN USE	RUL	UNIT	FIRST COST	2019	2020	2021	2022	2023	
BUILDING ENVELOPE (includes items exterior to building)												\$ 147,747	\$ 150,406	\$ 153,113	\$ 155,870	\$ 158,675	
F-	BE001	EXTERIOR SEALANT MAINTENANCE.	MMM16	2004	1,000	LF	20	9	11	\$4.73	\$ 4,730	\$ 5,264	\$ 5,359	\$ 5,456	\$ 5,554	\$ 5,654	
F-	BE002	EXTERIOR MASONRY MAINTENANCE.	MMM16	1963	500	SF	10	50	-40	\$1.89	\$ 945	\$ 1,052	\$ 1,071	\$ 1,090	\$ 1,110	\$ 1,130	
F-	BE003	LIMESTONE CAPS AND SILLS REPAIRS / REPLACEMENTS.	MMM16	2015	115	SF	50	0	50	\$104.96	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
F-	BE004	PAINTING SLOPED SOFFITS AND STRUCTURAL WOOD BEAMS.	MMM16	VARIOUS	--	--	15	--	--	\$0.00	--						
F-	BE005	ENTRANCE SOFFITS	MMM16	2005	1,200	SF	15	8	7	\$3.38	\$ 4,056	\$ 4,514	\$ 4,595	\$ 4,678	\$ 4,762	\$ 4,848	
F-	BE006	EAST AND WEST ENTRANCE EIFS REPAIRS.	MMM16	2005	--	--	20	8	12	\$0.00	--						
F-	BE007	NORTH AND SOUTH EXTERIOR DOOR REPLACEMENTS.	W06	2005	8	EA	25	8	17	\$11,340.00	\$ 90,720	\$ 100,969	\$ 102,787	\$ 104,637	\$ 106,520	\$ 108,438	
F-	BE008	EXTERIOR WINDOW MAINTENANCE/REPLACEMENT.	210 AND W06	2005	--	--	30	8	22	\$0.00	--						
F-	BE009	EXTERIOR DOOR MAINTENANCE/REPLACEMENT (EXCLUDES DOORS MENTIONED ELSEWHERE IN THIS SECTION THAT ARE DETERIORATING FASTER THAN DOORS IN GENERAL).	215 AND W06 / 2018 - KILN #4 DOOR REPLACED.	2001	--	--	25	12	13	\$0.00	--						
F-	BE010	SINGLE-PLY MEMBRANE REROOFING - GENERAL.	MMM16	2001	--	--	25	12	13	\$0.00	--						
F-	BE011	SINGLE-PLY MEMBRANE REROOFING - PUMP HOUSE.	MMM16	2004	--	--	25	9	16	\$0.00	--						
F-	BE012	STANDING SEAM METAL ROOFING MAINTENANCE/REPLACEMENT.	MMM16	2001	--	--	50	12	38	\$0.00	--						
F-	BE013	KILN SHED WEST WALL EXTERIOR GUTTER AND BRICK CLEANING OF MOLD ON FACE BRICK.	580	2006	600	SF	15	7	8	\$1.89	\$ 1,134	\$ 1,262	\$ 1,285	\$ 1,308	\$ 1,332	\$ 1,355	
F-	BE014	GREENHOUSE MAINTENANCE WITH BRICK/SILL BASE CLEANING AND MAINTENANCE.	580	2006	--	--	15	7	8	\$0.00	--						
F-	BE015	SOUTH COURT DOUBLE-DOOR REPLACEMENT INCLUDING DOOR FRAME REPLACEMENT.	W06	1963	1	EA	25	50	-25	\$2,808.00	\$ 2,808	\$ 3,125	\$ 3,181	\$ 3,239	\$ 3,297	\$ 3,356	
F-	BE016	ENTRANCE SOFFITS		1963	1,200	SF	15	50	-35	\$23.63	\$ 28,356	\$ 31,560	\$ 32,128	\$ 32,706	\$ 33,295	\$ 33,894	
BUILDING INTERIOR												\$ 467,946	\$ 476,369	\$ 484,944	\$ 493,673	\$ 502,559	

SCHOOLCRAFT COLLEGE; FORUM - SCHEDULED MAINTENANCE PROGRAM

ITEM			YEAR ITEM		ITEM TOTAL	AVG		TIME		ITEM		DEFERRED MAINTENANCE PLAN YEAR				
LOC	NO.	ITEM	FICM CODE	WAS PUT INTO SERVICE		ITEM UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
F-	BI001	REPLACE FLOOR TILE ON CORRIDOR RAMPS.	W06	1963	1,450	SF	35	50	-15	\$31.05	\$ 45,023	\$ 50,109	\$ 51,011	\$ 51,929	\$ 52,864	\$ 53,816
F-	BI002	REPLACE BENCHES AND BOOTHS IN CORRIDORS ADDING LAPTOP POWER.	W05 AND W06	VARIOUS	60	LF	20	--	--	\$344.25	\$ 20,655	\$ 22,989	\$ 23,402	\$ 23,824	\$ 24,252	\$ 24,689
F-	BI003	VCT CORRIDOR FLOOR TILE REPLACEMENT.	W06	VARIOUS	9,670	SF	35	--	--	\$4.73	\$ 45,739	\$ 50,907	\$ 51,823	\$ 52,756	\$ 53,705	\$ 54,672
F-	BI004	INTERIOR WOOD DOOR REPLACEMENTS. DOOR HARDWARE - COMPLETED 2019.	110, 115, 210, 215, 310, 315, X01 AND X03	VARIOUS	35	EA	50	--	--	\$904.50	\$ 31,658	\$ 35,234	\$ 35,868	\$ 36,514	\$ 37,171	\$ 37,840
F-	BI005	CORRIDOR CEILING AND LIGHTING UPGRADES.	W05 AND W06	2002	12,920	SF	35	11	24	\$5.67	\$ 73,256	\$ 81,533	\$ 83,000	\$ 84,494	\$ 86,015	\$ 87,564
F-	BI006	FLOOR FINISH REPLACEMENTS.	110, 115, 210, 215, 310, 315 AND 610	VARIOUS	6,134	SF	15	--	--	\$7.09	\$ 43,490	\$ 48,403	\$ 49,275	\$ 50,162	\$ 51,065	\$ 51,984
F-	BI007	INTERIOR WALL FINISH UPDATES - ALLOWANCE.	110, 115, 210, 215, 310, 315, X01 AND X03	VARIOUS	--	--	--	--	--	\$0.00	--					
F-	BI008	CORRIDOR LOCKER MAINTENANCE/REPLACEMENTS.	W06	2007	--	--	25	6	19	\$0.00	--					
F-	BI009	FLOOR FINISH UPDATES - ALLOWANCE.	110, 115, 210, 215, 310, 315, X01 AND X03	VARIOUS	--	--	--	--	--	\$0.00	--					
F-	BI010	ASBESTOS FLOORING ABATEMENT / FLOOR FINISH REPLACEMENT IN ROOM F21.	Y04	1963	15	SF	35	50	-15	\$3.71	\$ 56	\$ 62	\$ 63	\$ 64	\$ 65	\$ 67
F-	BI011	ASBESTOS FLOORING ABATEMENT / FLOOR FINISH REPLACEMENT IN ROOM F81.	Y04	1963	40	SF	35	50	-15	\$3.71	\$ 148	\$ 165	\$ 168	\$ 171	\$ 174	\$ 177
F-	BI012	REPLACE ASBESTOS CONTAINING DOOR FROM F81 TO RETURN AIR TUNNEL.	Y04	1963	1	EA	50	50	0	\$1,350.00	\$ 1,350	\$ 1,503	\$ 1,530	\$ 1,557	\$ 1,585	\$ 1,614
F-	BI013	TOILET ROOM UPDATES.	X03	2002	700	SF	25	11	14	\$54.00	\$ 37,800	\$ 42,071	\$ 42,828	\$ 43,599	\$ 44,384	\$ 45,182
F-	BI014	EAST AND WEST LOBBY FLOORING REPLACEMENT.	W05 AND W06	2012	--	--	35	1	34	\$0.00	--					
F-	BI015	ENTRY MAT REPLACEMENT	W06	2008	1,880	SF	5	5	0	\$62.10	\$ 116,748	\$ 129,938	\$ 132,277	\$ 134,658	\$ 137,082	\$ 139,549
F-	BI016	LAB SINK AND COUNTER REPLACEMENT.	210	2002	5	LF	25	11	14	\$418.50	\$ 2,093	\$ 2,329	\$ 2,371	\$ 2,414	\$ 2,457	\$ 2,501
F-	BI017	CORRIDOR DOOR HARDWARE UPGRADES.	W06	VARIOUS	6	EA	50	--	--	\$405.00	\$ 2,430	\$ 2,705	\$ 2,753	\$ 2,803	\$ 2,853	\$ 2,905
PLUMBING SYSTEMS (may be packaged with BI item scope)												\$ 101,570	\$ 103,399	\$ 105,260	\$ 107,155	\$ 109,083
F-	PS001	SANITARY DRAINAGE PIPING MAINTENANCE.	UUU13	1963	50,000	SF	50	50	0	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
F-	PS002	BIOLOGY/CHEMISTRY LABORATORY ACID WASTE SYSTEM INSPECTION/MAINTENANCE.	UUU25	VARIOUS	5,000	SF	10	--	--	\$6.75	\$ 33,750	\$ 37,563	\$ 38,239	\$ 38,927	\$ 39,628	\$ 40,341
F-	PS003	GEOLOGY LABORATORY ACID WASTE SYSTEM INSPECTION/MAINTENANCE.	UUU25	2002	5,000	SF	10	11	-1	\$6.75	\$ 33,750	\$ 37,563	\$ 38,239	\$ 38,927	\$ 39,628	\$ 40,341
F-	PS004	TOILET FIXTURES	X03	VARIOUS	44	EA	40	--	--	\$540.00	\$ 23,760	\$ 26,444	\$ 26,920	\$ 27,405	\$ 27,898	\$ 28,400
MECHANICAL SYSTEMS (may be packaged with BI item scope)												\$ 327,063	\$ 332,950	\$ 338,943	\$ 345,044	\$ 351,255
F-	MS001	REPLACE ELECTRICAL HALL HEATERS AND PNEU CONTROLS WITH DDC.	UUU06 AND UUU25	1963	10	EA	20	50	-30	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
F-	MS002	REPLACE REMAINING ORIG ELECTRIC DUCT HEATERS WITH PNEU TO DDC CONTROLS UPGRADE.	UUU06 AND UUU25	1963	10	EA	20	50	-30	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
F-	MS003	ADDRESS AIR HANDLING UNIT 3 CONDENSATE DRAINAGE ISSUES.	UUU25	2004	1	LS	30	9	21	\$13,200.00	\$ 13,200	\$ 14,691	\$ 14,956	\$ 15,225	\$ 15,499	\$ 15,778
F-	MS004	CHEMISTRY LAB VACUUM PUMP MAINTENANCE/REPLACEMENT.	210	2003	1	LS	10	10	0	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
F-	MS005	CONVERSION OF REMAINING PNEUMATIC TEMPERATURE CONTROLS TO DDC.	UUU06	2004	15,000	SF	10	9	1	\$6.08	\$ 91,200	\$ 101,504	\$ 103,331	\$ 105,191	\$ 107,084	\$ 109,012

SCHOOLCRAFT COLLEGE; FORUM - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM	YEAR ITEM	ITEM TOTAL	ITEM	AVG	TIME	ITEM	DEFERRED MAINTENANCE PLAN YEAR						
LOC	NO.	ITEM	CODE	WAS PUT INTO SERVICE	QUANTITY	UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
F-	MS006	ELECTRIC DUCT HEATER REPLACEMENTS IN FACULTY OFFICE BAYS.	310	2004	2,000	SF	20	9	11	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
F-	MS007	EAST MECHANICAL ROOM EXPOSED DUCT INSULATION REPAIRS.	UUU25	1963	100	SF	25	50	-25	\$40.50	\$ 4,050	\$ 4,508	\$ 4,589	\$ 4,671	\$ 4,755	\$ 4,841
F-	MS008	HVAC SYSTEMS CLEANING.	UUU25	2007	50,000	SF	10	6	4	\$1.15	\$ 57,500	\$ 63,996	\$ 65,148	\$ 66,321	\$ 67,515	\$ 68,730
F-	MS009	KILN SHED EXHAUST FAN REPLACEMENTS.	210	2005	--	--	20	8	12	\$0.00	--					
F-	MS010	WEST MECHANICAL ROOM EXPOSED DUCT INSULATION REPAIRS.	UUU25	2006	100	SF	25	7	18	\$40.50	\$ 4,050	\$ 4,508	\$ 4,589	\$ 4,671	\$ 4,755	\$ 4,841
F-	MS011	LABORATORY/TEMPERATURE CONTROLS AIR COMPRESSOR REPLACEMENT.	UUU25	1963	1	EA	20	50	-30	\$56,025.00	\$ 56,025	\$ 62,355	\$ 63,477	\$ 64,620	\$ 65,783	\$ 66,967
F-	MS012	PRIMARY CHILLED WATER LOOP PUMP MAINTENANCE/REPLACEMENTS.	UUU20	2014	--	--	20	0	20	\$0.00	--					
F-	MS013	CAMPUS CHILLED WATER DISTRIBUTION PUMP REPLACEMENTS.	UUU20	2004	--	--	20	9	11	\$0.00	--					
F-	MS014	BOILER CIRCULATING WATER PUMP REPLACEMENTS.	UUU22	2004	--	--	20	9	11	\$0.00	--					
F-	MS015	FORUM BUILDING HEATING WATER PUMP REPLACEMENTS.	UUU22	2004	--	--	20	9	11	\$0.00	--					
F-	MS016	AIR HANDLING UNIT REPLACEMENTS AHU-1, 2 AND 3.	UUU25	2004	--	--	30	9	21	\$0.00	--					
F-	MS017	CABINET UNIT HEATER REPLACEMENTS.	UUU25	2004	--	--	25	9	16	\$0.00	--					
F-	MS018	EXHAUST FAN MAINTENANCE/REPLACEMENTS.	UUU25	2004	5	EA	25	9	16	\$6,412.50	\$ 32,063	\$ 35,685	\$ 36,327	\$ 36,981	\$ 37,647	\$ 38,324
F-	MS019	BOILER REPLACEMENTS.	UUU22	2004	--	--	25	9	16	\$0.00	--					
F-	MS020	PUMP HOUSE SPLIT SYSTEM A/C REPLACEMENT.	UUU25	2004	--	--	15	9	6	\$0.00	--					
F-	MS021	FUME HOOD BALANCING AND SAFETY INSPECTION	210	2004	1	LS	2	9	-7	\$35,775.00	\$ 35,775	\$ 39,817	\$ 40,533	\$ 41,263	\$ 42,006	\$ 42,762
ELECTRICAL SYSTEMS (may be packaged with BI item scope)												\$ 227,891	\$ 231,993	\$ 236,169	\$ 240,420	\$ 244,747
F-	ES001	BUILDING SERVICE TRANSFORMER.	UUU04	2007	--	--	20	6	14	\$0.00	--					
F-	ES002	MAIN SWITCHBOARD.	UUU05	1963	1	EA	20	50	-30	\$81,000.00	\$ 81,000	\$ 90,151	\$ 91,774	\$ 93,426	\$ 95,108	\$ 96,819
F-	ES003	STANDBY GENERATOR.	UUU25	2007	--	--	20	6	14	\$0.00	--					
F-	ES004	LIFE SAFETY AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2007	--	--	20	6	14	\$0.00	--					
F-	ES005	STANDBY POWER SYSTEMS AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2007	--	--	20	6	14	\$0.00	--					
F-	ES006	ELECTRICAL DISTRIBUTION EQUIPMENT.	UUU05	1963	2	EA	20	50	-30	\$1,000.00	\$ 2,000	\$ 2,226	\$ 2,266	\$ 2,307	\$ 2,348	\$ 2,391
F-	ES007	VARIABLE FREQUENCY DRIVE (VFD).	UUU25	2004	--	--	15	9	6	\$0.00	--					
F-	ES008	LIGHTING AND RECEPTACLE PANELBOARDS.	UUU05	1963	1	LS	20	50	-30	\$81,000.00	\$ 81,000	\$ 90,151	\$ 91,774	\$ 93,426	\$ 95,108	\$ 96,819
F-	ES009	EXTERIOR BUILDING MOUNTED LIGHTING.	UUU25	1963	18	EA	20	50	-30	\$708.75	\$ 12,758	\$ 14,199	\$ 14,454	\$ 14,715	\$ 14,979	\$ 15,249
F-	ES010	EXIT LIGHTING.	W06	2002	--	--	2	11	-9	\$0.00	--					
F-	ES011	CORRIDOR LIGHTING.	W06	2002	--	--	20	11	9	\$0.00	--					
F-	ES012	CLASSROOM LIGHTING	110 AND 210 / 2018 - F470 TRACK / TRACK LIGHTING HEADS REPLACED.	2002	--	--	20	11	9	\$0.00	--					
F-	ES013	OFFICE LIGHTING.	310	2002	--	--	20	11	9	\$0.00	--					
F-	ES014	STORAGE AND UTILITY ROOM LIGHTING.	X01 AND Y04	1963	1	LS	20	50	-30	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
F-	ES015	VACANCY SENSOR LIGHTING CONTROLS (CLASSROOMS).	110 AND 210	2002	--	--	20	11	9	\$0.00	--					
F-	ES016	VACANCY SENSOR LIGHTING CONTROLS (CORRIDORS)	W05 AND W06	NONE	1	LS		--	--	\$28,000.00	\$ 28,000	\$ 31,163	\$ 31,724	\$ 32,295	\$ 32,877	\$ 33,468
BUILDING SYSTEMS (fire, security, IT/media infrastructure)												\$ 136,916	\$ 139,380	\$ 141,889	\$ 144,443	\$ 147,043
F-	BS001	FIRE ALARM SYSTEM MAIN AND REMOTE PANELS.	UUU07	2007	--	--	20	6	14	\$0.00	--					
F-	BS002	FIRE ALARM DEVICES.	UUU07	2007	--	--	20	6	14	\$0.00	--					

SCHOOLCRAFT COLLEGE; FORUM - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM	YEAR ITEM	ITEM TOTAL	AVG	TIME	ITEM			DEFERRED MAINTENANCE PLAN YEAR					
LOC	NO.	ITEM	CODE	WAS PUT INTO SERVICE	QUANTITY	ITEM UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
F-	BS003	BOILER EPO SYSTEM.	Y04	NONE	1	EA	20	--	--	\$3,375.00	\$ 3,375	\$ 3,756	\$ 3,824	\$ 3,893	\$ 3,963	\$ 4,034
F-	BS004	CLOCK SYSTEM.	UUU25	1963	1	LS	20	50	-30	\$48,221.26	\$ 48,221	\$ 53,669	\$ 54,635	\$ 55,619	\$ 56,620	\$ 57,639
F-	BS005	SECURITY SURVEILLANCE SYSTEM.	UUU14	2004	1	LS	20	9	11	\$48,221.26	\$ 48,221	\$ 53,669	\$ 54,635	\$ 55,619	\$ 56,620	\$ 57,639
F-	BS006	SECURITY ACCESS SYSTEM. IMPROVEMENTS WERE MADE IN 2019. FURTHER UPGRADES FROM GALAXY ACCESS SYSTEM TO LENEL S2 SYSTEM CHANGE IN 2020.	UUU14	2004 W/ 2019 & 2020 CHANGES	--	--	20	--	--	\$0.00	--					
F-	BS007	THEATER LIGHTING AND CONTROL EQUIPMENT.	590	1963	1	LS	20	50	-30	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
F-	BS008	NETWORK CABLING.	UUU02	VARIOUS	1	LS	10	--	--	\$400.00	\$ 400	\$ 445	\$ 453	\$ 461	\$ 470	\$ 478
F-	BS009	NETWORK CABLE.	UUU02	VARIOUS	106	EA	10	--	--	\$200.00	\$ 21,200	\$ 23,595	\$ 24,020	\$ 24,452	\$ 24,892	\$ 25,340
F-	BS010	NETWORK SYSTEMS.	UUU02	VARIOUS	2	EA	10	--	--	\$300.00	\$ 600	\$ 668	\$ 680	\$ 692	\$ 705	\$ 717
F-	BS011	TP COMMUNICATION CABLE.	UUU02	VARIOUS	10	EA	10	--	--	\$100.00	\$ 1,000	\$ 1,113	\$ 1,133	\$ 1,153	\$ 1,174	\$ 1,195
SPECIALTY EQUIPMENT (food service, theatre, labs, shops)												\$ 48,081	\$ 48,946	\$ 49,827	\$ 50,724	\$ 51,637
F-	SE001	F200 FUME HOODS RECONDITIONING/REPLACEMENT.	210	2007	--	--	20	6	14	\$0.00	--					
F-	SE002	F210 FUME HOODS RECONDITIONING/REPLACEMENT.	210	2004	--	--	20	9	11	\$0.00	--					
F-	SE003	F270 FUME HOODS RECONDITIONING/REPLACEMENT.	210	1997	--	--	20	16	4	\$0.00	--					
F-	SE004	F400 SPRAY BOOTH RECONDITIONING/REPLACEMENT.	110	2001	--	--	20	12	8	\$0.00	--					
F-	SE005	F410 CERAMICS GLAZING SPRAY BOOTH RECONDITIONING/REPLACEMENT.	210	2010	--	--	20	3	17	\$0.00	--					
F-	SE006	EXTERIOR BUILDING SIGNAGE UPGRADE (COMPLIANCE WITH CURRENT COLLEGE BRANDING STANDARDS).	SSS16	1963	1	LS	25	50	-25	\$43,200.00	\$ 43,200	\$ 48,081	\$ 48,946	\$ 49,827	\$ 50,724	\$ 51,637
ACCESSIBILITY IMPROVEMENTS												\$ 42,597	\$ 43,364	\$ 44,144	\$ 44,939	\$ 45,748
F-	AI001	ADA WHEELCHAIR LIFT FOR IMPROVED ACCESS BETWEEN UPPER AND LOWER HALVES OF FORUM..	W06	NONE	60	LF	20	--	--	\$637.88	\$ 38,273	\$ 42,597	\$ 43,364	\$ 44,144	\$ 44,939	\$ 45,748
ANNUAL FUNDING REQUIREMENTS (ROUNDED):												\$ 1,499,810	\$ 1,526,806	\$ 1,554,289	\$ 1,582,266	\$ 1,610,747

SCHOOLCRAFT COLLEGE; GROTE CENTER (FORMERLY ADMINISTRATION BUILDING)

SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:					2013					INFLATION RATE (%):					1.8%					LEGEND				
BUILDING SECTION (BUILDING TYPE)					BUILDING AGE (YRS)					BUILDING AREA (GSF)					AVG: AVERAGE									
GROTE CENTER - TOTAL (ADMIN)					1963					15,076					CF: CUBIC FEET									
[FORMERLY NAMED ADMINISTRATION BUILDING]															CY: CUBIC YARDS									
															EA: EACH									
															EUL: ESTIMATED USEFUL LIFE									
															GSF: GROSS SQUARE FEET									
															LOC: LOCATION (SITE/BLDG)									
															PV: PRESENT VALUE									
															RUL: ESTIMATED USEFUL LIFE									
															SF: SQUARE FEET									
															SY: SQUARE YARDS									
															YRS: YEARS									
															REMAINING USEFUL LIFE (RUL) BAROMETER									
															RUL = 1 YEAR OR LESS									
															RUL = 5 YEARS									
															RUL = 10 YEARS OR GREATER									

YEAR: 2022				
MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING: \$ 862,429				
REPLACEMENT VALUE FOR THE BUILDING: \$ 4,530,800				
FACILITY CONDITION INDEX (FCI): 19%				

FCI		BUILDING CONDITION	
FCI < 5%		GOOD	
5%< FCI< 10%		FAIR	
10% < FCI		POOR	

ITEM NO. CODES	
AI: ACCESSIBILITY IMPROVEMENT	
BE: BUILDING EXTERIOR	
BI: BUILDING INTERIOR	
BS: BUILDING SYSTEM	
ES: ELECTRICAL SYSTEM	
MS: MECHANICAL SYSTEM	
PS: PLUMBING SYSTEM	
SG: SITE GROUNDS	
SE: SPECIALTY EQUIPMENT	

SCHEDULED MAINTENANCE PLAN YEAR																															
ITEM NO.		FICM CODE		YEAR ITEM WAS PUT INTO SERVICE		ITEM TOTAL QUANTITY		AVG EUL (YRS)		TIME IN USE (YRS)		RUL (YRS)		ITEM UNIT COST		ITEM FIRST COST		2019		2020		2021		2022		2023					
BUILDING ENVELOPE (includes items exterior to building)																	\$ 82,662		\$ 84,150		\$ 85,665		\$ 87,206		\$ 88,776						
GC-	BE001	EXTERIOR PAINTING (SOFFITS, FASCIA, WOOD BEAMS).		MMM16		2020		1		EA		15		0		15		\$12,100.00		\$ 12,100											
GC-	BE002	EXTERIOR METAL DOOR FRAME / DOOR REPLACEMENTS (FRAME CORROSION INVOLVED).		W06		VARIOUS		3		EA		25		--		--		\$2,754.00		\$ 8,262		\$ 9,195		\$ 9,361		\$ 9,529		\$ 9,701		\$ 9,876	
GC-	BE003	FROST SLAB REPLACEMENTS AT EXTERIOR DOORS.		W06		1963		30		SF				50		-50		\$117.00		\$ 3,510		\$ 3,907		\$ 3,977		\$ 4,048		\$ 4,121		\$ 4,196	
GC-	BE004	LIMESTONE WING WALL CAP REPLACEMENTS.		MMM16		1963		40		SF		50		50		0		\$36.11		\$ 1,444		\$ 1,608		\$ 1,637		\$ 1,666		\$ 1,696		\$ 1,726	
GC-	BE005	EXTERIOR SEALANT MAINTENANCE.		MMM16		1963		150		LF		20		50		-30		\$4.73		\$ 710		\$ 790		\$ 804		\$ 818		\$ 833		\$ 848	
GC-	BE006	BELL TOWER PAINTING.		MMM16		2011		--		--		15		2		13		\$0.00		--											
GC-	BE007	EXTERIOR WINDOWS REPLACEMENT.		MMM16		2006		--		--		30		7		23		\$0.00		--											
GC-	BE008	CLEAN BRICK EFFLORESCENCE.		MMM16		1963		--		--		10		50		-40		\$0.00		--											
GC-	BE009	MASONRY MAINTENANCE.		MMM16		1963		--		--		10		50		-40		\$0.00		--											
GC-	BE010	EAST AND WEST LOBBY STOREFRONT WINDOW SYSTEM MAINTENANCE.		W05		VARIOUS		--		--		30		--		--		\$0.00		--											
GC-	BE011	WINDOW MAINTENANCE (EXCLUDING EAST AND WEST LOBBY STOREFRONT WINDOW SYSTEM).		MMM16		2006		--		--		30		7		23		\$0.00		--											
GC-	BE012	ASPHALT BUILT-UP ROOFING MAINTENANCE/REPLACEMENT.		MMM16		1993		3,400		SF		20		20		0		\$16.20		\$ 55,080		\$ 61,303		\$ 62,406		\$ 63,530		\$ 64,673		\$ 65,837	
GC-	BE013	STANDING SEAM METAL ROOFING MAINTENANCE/REPLACEMENT.		MMM16		1998		--		--		50		15		35		\$0.00		--											
GC-	BE014	PRESSURE LAMINATED STRUCTURAL WOOD BEAM RE-FINISHING.		MMM16		2005		650		SF		15		8		7		\$2.70		\$ 1,755		\$ 1,953		\$ 1,988		\$ 2,024		\$ 2,061		\$ 2,098	
GC-	BE015	PROVIDE CONCRETE PAD AT EXTERIOR EXIT DOOR		W06		2006		15		SF		20		7		13		\$234.00		\$ 3,510		\$ 3,907		\$ 3,977		\$ 4,048		\$ 4,121		\$ 4,196	
BUILDING INTERIOR																	\$ 154,059		\$ 156,832		\$ 159,655		\$ 162,529		\$ 165,454						
GC-	BI001	CORRIDOR VCT TILE REPLACEMENT.		W05 AND W06		2000		5,460		SF		35		13		22		\$4.73		\$ 25,826		\$ 28,744		\$ 29,261		\$ 29,788		\$ 30,324		\$ 30,870	
GC-	BI002	INTERIOR WOOD DOOR / DOOR HARDWARE REPLACEMENT.		310 AND 350		VARIOUS		14		EA		50		--		--		\$1,350.00		\$ 18,900		\$ 21,035		\$ 21,414		\$ 21,799		\$ 22,192		\$ 22,591	
GC-	BI003	UPDATE INFORMATION / BROCHURE RACK AT NORTHEAST CORRIDOR.		W05		1963		40		SF		15		50		-35		\$67.50		\$ 2,700		\$ 3,005		\$ 3,059		\$ 3,114		\$ 3,170		\$ 3,227	
GC-	BI004	TOILET ROOM RENOVATIONS (FLOOR TILE, WALL TILE, ADA COMPLIANCE ISSUES INCLUDED).		X03		1963		350		SF		25		50		-25		\$54.00		\$ 18,900		\$ 21,035		\$ 21,414		\$ 21,799		\$ 22,192		\$ 22,591	

SCHOOLCRAFT COLLEGE; GROTE CENTER (FORMERLY ADMINISTRATION BUILDING)


ITEM			FICM	YEAR ITEM	ITEM TOTAL	AVG	TIME	ITEM			SCHEDULED MAINTENANCE PLAN YEAR					
LOC	NO.	ITEM	CODE	WAS PUT INTO SERVICE	QUANTITY	ITEM UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
GC-	BI005	UPDATE / REPLACE CORRIDOR BENCH SEATING.	W05	1963	32	LF	20	50	-30	\$344.25	\$ 11,016	\$ 12,261	\$ 12,481	\$ 12,706	\$ 12,935	\$ 13,167
GC-	BI006	FLOOR FINISH UPDATES - ALLOWANCE.	310 AND 350	VARIOUS	--	--	--	--	--	\$0.00	--					
GC-	BI007	WALL FINISH UPDATES - ALLOWANCE.	310, 350, W05 AND W06	VARIOUS	--	--	--	--	--	\$0.00	--					
GC-	BI008	A13 - PHONE SWITCHGEAR ASBESTOS FLOORING ABATEMENT AND REPLACEMENT.	Y04	2015	--	SF	--	0	--	\$5.06	--					
GC-	BI009	A13 - PHONE SWITCHGEAR ASBESTOS DOOR ABATEMENT AND REPLACEMENT.	Y04	1963	1	EA	50	50	0	\$1,485.00	\$ 1,485	\$ 1,653	\$ 1,683	\$ 1,713	\$ 1,744	\$ 1,775
GC-	BI010	BOARD ROOM KITCHENETTE REPLACEMENT.	355	2012	--	--	20	1	19	\$0.00	--					
GC-	BI011	REPLACE OFFICE CARPETING	310 AND 350	VARIOUS	3,150	SF	15	--	--	\$7.09	\$ 22,334	\$ 24,857	\$ 25,304	\$ 25,760	\$ 26,223	\$ 26,695
GC-	BI012	REPLACE ENTRANCE MATS	W06	2009	600	SF	5	4	1	\$62.10	\$ 37,260	\$ 41,470	\$ 42,216	\$ 42,976	\$ 43,749	\$ 44,537
PLUMBING SYSTEMS (may be packaged with BI item scope)												\$ -	\$ -	\$ -	\$ -	\$ -
GC-		NONE					--	--			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
MECHANICAL SYSTEMS (may be packaged with BI item scope)												\$ 255,216	\$ 259,810	\$ 264,486	\$ 269,247	\$ 274,094
GC-	MS001	HVAC SYSTEM CLEANING.	UUU25	1999	15,000	SF	10	14	-4	\$1.15	\$ 17,250	\$ 19,199	\$ 19,544	\$ 19,896	\$ 20,254	\$ 20,619
GC-	MS002	MECHANICAL SUMP PUMP MAINTENANCE / REPLACEMENT.	UUU16	VARIOUS	1	LS	15	--	--	\$1,080.00	\$ 1,080	\$ 1,202	\$ 1,224	\$ 1,246	\$ 1,268	\$ 1,291
GC-	MS003	AIR HANDLING UNIT REPLACEMENT (ORIGINAL UNIT HOUSING MODIFIED AND RECOMMISSIONED IN 2006).	UUU25	2006	--	--	25	7	18	\$0.00	--					
GC-	MS004	CABINET UNIT HEATER REPLACEMENTS.	UUU25	2006	--	--	25	7	18	\$0.00	--					
GC-	MS005	FINNED TUBE RADIATION MAINTENANCE.	UUU25	2006	--	--	25	7	18	\$0.00	--					
GC-	MS006	INDUCED DRAFT FAN (HOT WATER BOILER STACK) MAINTENANCE.	UUU22	2006	--	--	15	7	8	\$0.00	--					
GC-	MS007	RETURN AIR FAN MAINTENANCE.	UUU25	2006	--	--	20	7	13	\$0.00	--					
GC-	MS008	ELECTRIC DUCT HEATER REPLACEMENTS.	UUU25	2006	--	--	10	7	3	\$0.00	--					
GC-	MS009	CHILLED WATER DISTRIBUTION PUMP REPLACEMENTS.	UUU20	2006	--	--	20	7	13	\$0.00	--					
GC-	MS010	HEATING HOT WATER DISTRIBUTION PUMP REPLACEMENTS.	UUU22	2006	--	--	20	7	13	\$0.00	--					
GC-	MS011	HEATING HOT WATER BOILER CIRCULATING PUMPS.	UUU22	2006	2	EA	20	7	13	\$6,750.00	\$ 13,500	\$ 15,025	\$ 15,296	\$ 15,571	\$ 15,851	\$ 16,137
GC-	MS012	HEATING HOT WATER BOILER REPLACEMENTS.	UUU22	2006	2	EA	20	7	13	\$47,250.00	\$ 94,500	\$ 105,176	\$ 107,070	\$ 108,997	\$ 110,959	\$ 112,956
GC-	MS013	BAS UPGRADE.	UUU06	2006	15,000	SF	20	7	13	\$6.08	\$ 91,200	\$ 101,504	\$ 103,331	\$ 105,191	\$ 107,084	\$ 109,012
GC-	MS014	UPGRADE TOILET ROOM FIXTURES.	X03	VARIOUS	3	EA	40	--	--	\$2,700.00	\$ 8,100	\$ 9,015	\$ 9,177	\$ 9,343	\$ 9,511	\$ 9,682
GC-	MS015	CHW BUTTERFLY VALVES.	UUU20	2004	2	EA	15	9	6	\$1,350.00	\$ 2,700	\$ 3,005	\$ 3,059	\$ 3,114	\$ 3,170	\$ 3,227
GC-	MS016	RIGID INSULATION ON DUCTWORK.	UUU25	1963	50	SF	15	50	-35	\$19.58	\$ 979	\$ 1,090	\$ 1,109	\$ 1,129	\$ 1,150	\$ 1,170
ELECTRICAL SYSTEMS (may be packaged with BI item scope)												\$ 147,623	\$ 150,280	\$ 152,985	\$ 155,739	\$ 158,542
GC-	ES001	BUILDING SERVICE TRANSFORMER.	UUU04	2007	--	--	20	6	14	\$0.00	--					
GC-	ES002	MAIN SWITCHBOARD.	UUU05	1963	1	EA	20	50	-30	\$54,000.00	\$ 54,000	\$ 60,101	\$ 61,183	\$ 62,284	\$ 63,405	\$ 64,546
GC-	ES003	STANDBY GENERATOR.	UUU25	2006	--	--	20	7	13	\$0.00	--					
GC-	ES004	LIFE SAFETY AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2006	--	--	20	7	13	\$0.00	--					
GC-	ES005	STANDBY POWER SYSTEMS AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2006	--	--	20	7	13	\$0.00	--					
GC-	ES006	ELECTRICAL DISTRIBUTION EQUIPMENT.	UUU05	1963	2	EA	20	50	-30	\$20,250.00	\$ 40,500	\$ 45,076	\$ 45,887	\$ 46,713	\$ 47,554	\$ 48,410
GC-	ES007	VARIABLE FREQUENCY DRIVE (VFD).	UUU25	2006	--	--	15	7	8	\$0.00	--					
GC-	ES008	LIGHTING AND RECEPTACLE PANELBOARDS.	UUU05	1963	1	LS	20	50	-30	\$13,500.00	\$ 13,500	\$ 15,025	\$ 15,296	\$ 15,571	\$ 15,851	\$ 16,137
GC-	ES009	EXTERIOR BUILDING MOUNTED LIGHTING.	UUU25	2006	10	EA	20	7	13	\$708.75	\$ 7,088	\$ 7,888	\$ 8,030	\$ 8,175	\$ 8,322	\$ 8,472
GC-	ES010	EXIT LIGHTING.	W05 AND W06	2006	--	--	20	7	13	\$0.00	--					
GC-	ES011	CORRIDOR LIGHTING.	W05 AND W06	2006	--	--	20	7	13	\$0.00	--					
GC-	ES012	MEETING/CONFERENCE ROOM LIGHTING.	350	1999	--	--	20	14	6	\$0.00	--					
GC-	ES013	OFFICE LIGHTING.	310	2006	--	--	20	7	13	\$0.00	--					
GC-	ES014	STORAGE AND UTILITY ROOM AND ATTIC LIGHTING.	Y04	1963	1	LS	20	50	-30	\$13,500.00	\$ 13,500	\$ 15,025	\$ 15,296	\$ 15,571	\$ 15,851	\$ 16,137

SCHOOLCRAFT COLLEGE; GROTE CENTER (FORMERLY ADMINISTRATION BUILDING)

												SCHEDULED MAINTENANCE PLAN YEAR				
ITEM			FICM	YEAR ITEM	ITEM TOTAL	ITEM	AVG	TIME	ITEM							
LOC	NO.	ITEM	CODE	INTO SERVICE	QUANTITY	UNITS	(YRS)	(YRS)	(YRS)	COST	FIRST COST	2019	2020	2021	2022	2023
GC-	ES015	LIGHTING CONTROLS (OFFICES/MEETING ROOMS).	310 AND 350	2006	--	--	20	7	13	\$0.00	--					
GC-	ES016	VACANCY SENSOR LIGHTING CONTROLS (CORRIDORS).	W05 AND W06	NONE	1	LS	20	--	--	\$4,050.00	\$ 4,050	\$ 4,508	\$ 4,589	\$ 4,671	\$ 4,755	\$ 4,841
BUILDING SYSTEMS (fire, security, IT/media infrastructure)												\$ 87,805	\$ 89,386	\$ 90,995	\$ 92,632	\$ 94,300
GC-	BS001	FIRE ALARM SYSTEM MAIN AND REMOTE PANELS.	UUU07	2006	--	--	20	7	13	\$0.00	--					
GC-	BS002	FIRE ALARM DEVICES.	UUU07	2006	--	--	20	7	13	\$0.00	--					
GC-	BS003	BOILER EPO SYSTEM.	Y04	NONE	1	EA	20	--	--	\$3,375.00	\$ 3,375	\$ 3,756	\$ 3,824	\$ 3,893	\$ 3,963	\$ 4,034
GC-	BS004	CLOCK SYSTEM.	UUU25	1963	1	LS	20	50	-30	\$13,229.00	\$ 13,229	\$ 14,724	\$ 14,989	\$ 15,258	\$ 15,533	\$ 15,813
GC-	BS005	SECURITY SURVEILLANCE SYSTEM.	UUU14	2004	1	LS	20	9	11	\$45,588.00	\$ 45,588	\$ 50,738	\$ 51,652	\$ 52,581	\$ 53,528	\$ 54,491
GC-	BS006	SECURITY ACCESS SYSTEM. COMPLETED 2021.	UUU14	2021	1	LS	20	0	20	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GC-	BS007	NETWORK LABELING	UUU02	VARIOUS	1	LS	10	--	--	\$200.00	\$ 200	\$ 223	\$ 227	\$ 231	\$ 235	\$ 239
GC-	BS008	NETWORK CABLE	UUU02	2015	--	EA	--	--	--	\$200.00	--					
GC-	BS009	NETWORK CABLE	UUU02	2015	--	EA	--	--	--	\$25.00	--					
GC-	BS010	T.P. COMMUNICATION CABLE	UUU02	2015	--	EA	--	--	--	\$100.00	--					
GC-	BS011	NETWORK SYSTEMS	UUU02	VARIOUS	1	LS	10	--	--	\$12,000.00	\$ 12,000	\$ 13,356	\$ 13,596	\$ 13,841	\$ 14,090	\$ 14,344
GC-	BS012	NETWORK CABLE	UUU02	VARIOUS	12	EA	10	--	--	\$200.00	\$ 2,400	\$ 2,671	\$ 2,719	\$ 2,768	\$ 2,818	\$ 2,869
GC-	BS013	NETWORK CABLE	UUU02	VARIOUS	24	EA	10	--	--	\$25.00	\$ 600	\$ 668	\$ 680	\$ 692	\$ 705	\$ 717
GC-	BS014	NETWORK SYSTEMS	UUU02	VARIOUS	15	EA	10	--	--	\$100.00	\$ 1,500	\$ 1,669	\$ 1,700	\$ 1,730	\$ 1,761	\$ 1,793
SPECIALTY EQUIPMENT (food service, theatre, labs, shops)												\$ 75,126	\$ 76,478	\$ 77,855	\$ 79,256	\$ 80,683
GC-	SE001	EXTERIOR BUILDING SIGNAGE UPGRADE (COMPLIANCE WITH CURRENT COLLEGE BRANDING STANDARDS).	SSS16	1963	1	LS	25	50	-25	\$43,200.00	\$ 43,200	\$ 48,081	\$ 48,946	\$ 49,827	\$ 50,724	\$ 51,637
GC-	SE002	ENTRY ELECTRONIC KIOSK.	W05	NONE	1	EA	15	--	--	\$24,300.00	\$ 24,300	\$ 27,045	\$ 27,532	\$ 28,028	\$ 28,532	\$ 29,046
ACCESSIBILITY IMPROVEMENTS												\$ 541	\$ 551	\$ 561	\$ 571	\$ 581
GC-	AI001	FIRE EXTINGUISHER ACCESSIBILITY	W05 AND W06	1963	4	EA	50	50	0	\$121.50	\$ 486	\$ 541	\$ 551	\$ 561	\$ 571	\$ 581
ANNUAL FUNDING REQUIREMENTS (ROUNDED):												\$ 803,031	\$ 817,486	\$ 832,201	\$ 847,180	\$ 862,429

SCHOOLCRAFT COLLEGE; HEALTH SCIENCES - SCHEDULED MAINTENANCE PROGRAM

SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:					2013				
NOTE: THIS BUILDING WAS RENAMED 2022 FROM APPLIED SCIENCE BUILDING.									
BUILDING SECTION (BUILDING TYPE)				BUILDING AGE (YRS)		BUILDING AREA (GSF)			
HEALTH SCIENCES CENTER - TOTAL (CLASSROOM)						110,800			
APPLIED SCIENCE - ORIGINAL				1965		46,755			
APPLIED SCIENCE - NORTH WING				1972		27,345			
HEALTH SCIENCES CENTER - BUILDING EXPANSIONS				2021		36,700			
YEAR: 2022									
MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:					\$ 2,976,999				
REPLACEMENT VALUE FOR THE BUILDING:					\$32,225,600				
FACILITY CONDITION INDEX (FCI):					9%				



FCI	BUILDING CONDITION
FCI < 5%	GOOD
5%< FCI< 10%	FAIR
10% < FCI	POOR

INFLATION RATE (%):		1.8%	
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ITEM NO. CODES	
AI: ACCESSIBILITY IMPROVEMENT	
BE: BUILDING EXTERIOR	
BI: BUILDING INTERIOR	
BS: BUILDING SYSTEM	
ES: ELECTRICAL SYSTEM	
MS: MECHANICAL SYSTEM	
PS: PLUMBING SYSTEM	
SG: SITE GROUNDS	
SE: SPECIALTY EQUIPMENT	

LEGEND	
AVG: AVERAGE	
CF: CUBIC FEET	
CY: CUBIC YARDS	
EA: EACH	
EUL: ESTIMATED USEFUL LIFE	
GSF: GROSS SQUARE FEET	
LOC: LOCATION (SITE/BLDG)	
PV: PRESENT VALUE	
RUL: ESTIMATED USEFUL LIFE	
SF: SQUARE FEET	
SY: SQUARE YARDS	
YRS: YEARS	
REMAINING USEFUL LIFE (RUL) BAROMETER	
	RUL = 1 YEAR OR LESS
	RUL = 5 YEARS
	RUL = 10 YEARS OR GREATER

DEFERRED MAINTENANCE PLAN YEAR																
ITEM LOC	ITEM NO.	ITEM	FICM CODE	YEAR ITEM WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	ITEM UNITS	AVG EUL (YRS)	TIME IN USE (YRS)	RUL (YRS)	ITEM UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
BUILDING ENVELOPE (includes items exterior to building)												\$ 531,414	\$ 540,979	\$ 550,717	\$ 560,630	\$ 570,721
HS-	BE001	SOUTHWEST RETAINING WALL MASONRY AND LIMESTONE CAP REPAIRS.	MMM16	1965	18	LF	50	48	2	\$33.75	\$ 608	\$ 676	\$ 688	\$ 701	\$ 713	\$ 726
HS-	BE002	NORTHWEST RETAINING WALL LIMESTONE CAP REPAIRS.	MMM16	2017	30	LF	50	0	50	\$14.85	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HS-	BE003	NORTHWEST CONCRETE STEP TREADS REPLACEMENT	MMM16	2014	150	LF	25	0	25	\$60.75	\$ 9,113	\$ -	\$ -	\$ -	\$ -	\$ -
HS-	BE004	SPALLING FACE BRICK REPAIRS (ESPECIALLY EAST EXPOSURE).	MMM16	1965	700	SF	75	48	27	\$17.55	\$ 12,285	\$ 13,673	\$ 13,919	\$ 14,170	\$ 14,425	\$ 14,684
HS-	BE005	EXTERIOR DOOR REPLACEMENTS (ACCELERATED DETERIORATION AT EAST DOORS).	W06	2006	--	--	25	7	18	\$0.00	--					
HS-	BE006	EXTERIOR WINDOW REPLACEMENTS.	MMM16	2007	--	--	30	6	24	\$0.00	--					
HS-	BE007	EXTERIOR SEALANT MAINTENANCE.	MMM16	VARIOUS	2,000	LF	20	--	--	\$4.73	\$ 9,460	\$ 10,529	\$ 10,718	\$ 10,911	\$ 11,108	\$ 11,308
HS-	BE008	NORTH WING THEATRE SCENE SHOP ROLL UP DOOR REPLACEMENT. INCLUDES NEW GARAGE DOOR OPENER. ELIMINATED.	210	2016	80	SF	25	0	25	\$4,252.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HS-	BE009	REPLACE DOOR AND DOOR HARDWARE ON AS84 - MEZZ MECHANICAL ROOM TO EXTERIOR.	Y04	1972	1	EA	15	41	-26	\$5,643.00	\$ 5,643	\$ 6,281	\$ 6,394	\$ 6,509	\$ 6,626	\$ 6,745
HS-	BE010	REPLACE EXTERIOR BENCHES IN NORTHWEST PATIO AREA WITH COLLEGE STANDARD LANDSCAPING FURNITURE.	SSS02	1972	50	LF	20	41	-21	\$499.50	\$ 24,975	\$ 27,797	\$ 28,297	\$ 28,806	\$ 29,325	\$ 29,853
HS-	BE011	REPLACE EXTERIOR BENCHES IN SOUTHWEST PATIO AREA WITH COLLEGE STANDARD LANDSCAPING FURNITURE.	SSS02	1965	32	LF	20	48	-28	\$499.50	\$ 15,984	\$ 17,790	\$ 18,110	\$ 18,436	\$ 18,768	\$ 19,106
HS-	BE012	EXTERIOR SOFFIT REPAIRS AND PAINTING.	MMM16	VARIOUS	6,500	SF	15	--	--	\$23.63	\$ 153,595	\$ 170,948	\$ 174,025	\$ 177,157	\$ 180,346	\$ 183,592
HS-	BE013	CLEAN EXTERIOR BRICK EFFLORESCENCE.	MMM16	1965	200	SF	75	48	27	\$1.89	\$ 378	\$ 421	\$ 428	\$ 436	\$ 444	\$ 452
HS-	BE014	EXTERIOR MORTAR JOINT REPAIRS.	MMM16	VARIOUS	--	--	50	--	--	\$0.00	--					
HS-	BE015	NORTH WING REROOFING (WHITE, SINGLE-PLY MEMBRANE).	MMM16	1997	15,400	SF	25	16	9	\$16.20	\$ 249,480	\$ 277,666	\$ 282,664	\$ 287,752	\$ 292,931	\$ 298,204
HS-	BE016	WELDING LAB ADDITION REROOFING.	MMM16	2003	--	--	25	10	15	\$0.00	--					

SCHOOLCRAFT COLLEGE; HEALTH SCIENCES - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM	YEAR ITEM	ITEM TOTAL	ITEM	AVG	TIME		ITEM	DEFERRED MAINTENANCE PLAN YEAR					
LOC	NO.	ITEM	CODE	INTO SERVICE	QUANTITY	UNITS	(YRS)	(YRS)	(YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
HS-	BE017	TAN, SINGLE-PLY REROOFING.	MMM16	2003	--	--	25	10	15	\$0.00	--					
HS-	BE018	STANDING SEAM METAL ROOFING.	MMM16	2003	--	--	50	10	40	\$0.00	--					
HS-	BE019	PENTHOUSE EXTERIOR LOUVER	Y04	1972	50	SF	40	41	-1	\$101.25	\$ 5,063	\$ 5,634	\$ 5,736	\$ 5,839	\$ 5,944	\$ 6,051
BUILDING INTERIOR												\$ 167,967	\$ 170,990	\$ 174,068	\$ 177,201	\$ 180,391
HS-	BI001	INTERIOR DOOR REPLACEMENTS (MOSTLY WOOD DOORS). DOOR HARDWARE - COMPLETED 2019.	110, 210 AND 310	VARIOUS	40	EA	50	--	--	\$1,153.24	\$ 46,130					
HS-	BI002	CORRIDOR BENCH SEATING / BOOTHS UPGRADES. POWER AND USB PORTS FOR STUDENT LAPTOPS ADDED 2013.	W05	VARIOUS / 2013 PWR & USB ADDS	260	LF	20	--	--	\$344.25	\$ 89,505					
HS-	BI003	SOUTH WING TOILET ROOM UPGRADES (INCLUDES PLUMBING FIXTURES, ADA COMPLIANCE IMPROVEMENTS, AND LIGHTING UPGRADES).	X03	2004	760	SF	25	9	16	\$54.00	\$ 41,040	\$ 45,677	\$ 46,499	\$ 47,336	\$ 48,188	\$ 49,055
HS-	BI004	NORTH WING TOILET ROOM UPGRADES (INCLUDES PLUMBING FIXTURES, ADA COMPLIANCE IMPROVEMENTS, AND LIGHTING UPGRADES).	X03	VARIOUS	430	SF	25	--	--	\$54.00	\$ 23,220	\$ 25,843	\$ 26,309	\$ 26,782	\$ 27,264	\$ 27,755
HS-	BI005	LAY-IN CEILING TILE REPLACEMENTS - ALLOWANCE. COMPLETED 2021.	100, 200, 300 AND W06	2021	0	SF	35	--	--	\$4.32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HS-	BI006	FLOOR FINISH UPDATES - ALLOWANCE.	100, 200, 300 AND W06	VARIOUS	--	--	--	--	--	\$0.00	--					
HS-	BI007	WALL FINISH UPDATES - ALLOWANCE.	100, 200, 300 AND W06	VARIOUS	--	--	--	--	--	\$0.00	--					
HS-	BI008	SOUTH WING CORRIDOR DISPLAY CASE UPGRADES.	W05 AND W06	1965	1	LS	40	48	-8	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HS-	BI009	NORTH WING LOBBY EAST WALL UPGRADE (WALL WITH DATED LOOK MOSAIC TILE).	W05	1972	160	SF	25	41	-16	\$40.50	\$ 6,480	\$ 7,212	\$ 7,342	\$ 7,474	\$ 7,609	\$ 7,746
HS-	BI010	MAIN COMPUTER ROOM UPGRADES.	710	2010	--	--	25	3	22	\$0.00	--					
HS-	BI011	WATER-PROOF AS90 WHERE ELECTRICAL SERVICE FOR NORTH WING OF APPLIED SCIENCE ENTERS THE BUILDING.-- ELIMINATED.	UUU05	1972	0	LS	15	41	-26	\$6,750.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HS-	BI012	NON-FIRE STOPPED FLOOR PENETRATIONS.	Y04	1965	5	SF	50	48	2	\$135.00	\$ 675	\$ 751	\$ 765	\$ 779	\$ 793	\$ 807
HS-	BI013	PAINTED CONCRETE FLOOR.	Y04	1965	700	SF	15	48	-33	\$2.03	\$ 1,421	\$ 1,582	\$ 1,610	\$ 1,639	\$ 1,668	\$ 1,699
HS-	BI014	ENTRANCE CARPETS.	W06	2016	1,300	SF	5	0	--	\$62.10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HS-	BI015	FOLDING PARTITIONS.	110 AND 210	2001	450	SF	20	12	8	\$9.86	\$ 4,437	\$ 4,938	\$ 5,027	\$ 5,118	\$ 5,210	\$ 5,304
HS-	BI016	CARPET REPLACEMENT	110	VARIOUS	7,150	SF	12	--	--	\$7.09	\$ 50,694	\$ 56,421	\$ 57,436	\$ 58,470	\$ 59,523	\$ 60,594
HS-	BI017	MASONRY WALL REPAIR	110	1972	1	LS	50	41	9	\$22,950.00	\$ 22,950	\$ 25,543	\$ 26,003	\$ 26,471	\$ 26,947	\$ 27,432
PLUMBING SYSTEMS (may be packaged with BI item scope)												\$ 11,130	\$ 11,330	\$ 11,534	\$ 11,742	\$ 11,953
HS-	PS001	DOMESTIC HOT WATER HEATER REPLACEMENT - SOUTH WING.	UUU24	2008	--	--	10	5	5	\$0.00	--					
HS-	PS002	DOMESTIC HOT WATER HEATER REPLACEMENT - NORTH WING	UUU24	2010	--	--	10	3	7	\$0.00	--					
HS-	PS003	METALLURGY LABORATORY ACID WASTE SYSTEM- INSPECTION/MAINTENANCE. METALLURGY MOVED TO "MEC" BUILDING IN 2020.	UUU25	2010	--	--	10	3	7	\$0.00	--					
HS-	PS004	PLUMBING FIXTURES - SOUTH	X03	VARIOUS	--	--	40	--	--	\$0.00	--					
HS-	PS005	PLUMBING FIXTURES - NORTH	X03	VARIOUS	--	--	40	--	--	\$0.00	--					
HS-	PS006	INVESTIGATE SLOW FLUSHING URINALS IN NORTH GANG TOILETS - ALLOWANCE	X03	UNKNOWN	1	LS	1	--	--	\$10,000.00	\$ 10,000	\$ 11,130	\$ 11,330	\$ 11,534	\$ 11,742	\$ 11,953
MECHANICAL SYSTEMS (may be packaged with BI item scope)												\$ 1,556,453	\$ 1,584,469	\$ 1,612,990	\$ 1,642,023	\$ 1,671,580

SCHOOLCRAFT COLLEGE; HEALTH SCIENCES - SCHEDULED MAINTENANCE PROGRAM

ITEM		FICM CODE	YEAR ITEM	ITEM TOTAL	ITEM	AVG	TIME	RUL	ITEM	DEFERRED MAINTENANCE PLAN YEAR						
LOC	NO.		WAS PUT INTO SERVICE			EUL (YRS)	IN USE (YRS)		UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023	
HS-	MS001	MAIN COMPUTER ROOM BACK-UP A/C SYSTEM AND ASSOCIATED ROOF MOUNTED CONDENSER	710	2010	--	--	20	3	17	\$0.00	--					
HS-	MS002	MAIN COMPUTER ROOM PRIMARY A/C SYSTEM AND ASSOCIATED ROOF MOUNTED CONDENSER.	710	2017	--	--	20	0	20	\$0.00	--					
HS-	MS003	AS100/120 NURSING LABS AIR COMPRESSOR (FOR OXYGEN SIMULATION) REPLACEMENT.	210	2005	--	--	10	8	2	\$0.00	--					
HS-	MS004	AS100/120 NURSING LABS VACUUM PUMP REPLACEMENT (SOUTH WING).	210	2005	--	--	10	8	2	\$0.00	--					
HS-	MS005	NATP NURSING LAB VACUUM PUMP REPLACEMENT (NORTH WING).	210	2011	--	--	10	2	8	\$0.00	--					
HS-	MS006	REPLACEMENT OF FIVE (5) INDOOR AIR HANDLING UNITS INSTALLED UNDER MECHANICAL SYSTEMS UPGRADE PROJECT.	UUU25	2008	--	--	10	5	5	\$0.00	--					
HS-	MS007	REPLACEMENT OF OUTDOOR / SOUTH WING AIR HANDLING UNIT INSTALLED UNDER MECHANICAL SYSTEMS UPGRADE PROJECT (CLIMATECRAFT).	UUU25	2008	--	--	25	5	20	\$0.00	--					
HS-	MS008	<del>REPLACEMENT OF WELDING LAB DIRECT FIRED, ROOF-MOUNTED AIR HANDLING UNIT. ELIMINATED.</del>	210	2008	0	EA	25	5	20	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HS-	MS009	<del>REPLACEMENT OF METALLURGY LAB INTERIOR, SUSPENDED-MAKE-UP AIR UNIT. ELIMINATED.</del>	210	2003	0	EA	15	10	5	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HS-	MS010	<del>METALLURGY LAB FUME HOODS.</del> METALLURGY MOVED TO "MEC" BUILDING IN 2020.	210	1965	0	EA	20	48	-28	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HS-	MS011	REPLACE OF FOUR (4) RETURN AIR FANS.	UUU25	2008	4	EA	20	5	15	\$6,075.00	\$ 24,300	\$ 27,045	\$ 27,532	\$ 28,028	\$ 28,532	\$ 29,046
HS-	MS012	<del>WELDING LAB EXHAUST FAN REPLACEMENTS.-ELIMINATED.</del>	210	2003	0	EA	15	10	5	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HS-	MS013	AIR-COOLED CHILLER REPLACEMENTS.	UUU20	2008	2	EA	20	5	15	\$143,775.00	\$ 287,550	\$ 320,037	\$ 325,798	\$ 331,662	\$ 337,632	\$ 343,709
HS-	MS014	HEATING HOT WATER BOILER REPLACEMENTS.	UUU22	2008	2	EA	20	5	15	\$44,550.00	\$ 89,100	\$ 99,166	\$ 100,951	\$ 102,768	\$ 104,618	\$ 106,501
HS-	MS015	CHILLED WATER SYSTEM PUMPS REPLACEMENT.	UUU20	2008	2	EA	20	5	15	\$31,725.00	\$ 63,450	\$ 70,618	\$ 71,890	\$ 73,184	\$ 74,501	\$ 75,842
HS-	MS016	HEATING HOT WATER SYSTEM PUMPS REPLACEMENT.	UUU22	2008	2	EA	20	5	15	\$31,725.00	\$ 63,450	\$ 70,618	\$ 71,890	\$ 73,184	\$ 74,501	\$ 75,842
HS-	MS017	DOMESTIC HOT WATER CIRCULATION PUMP REPLACEMENT.	UUU24	2008	1	EA	20	5	15	\$4,725.00	\$ 4,725	\$ 5,259	\$ 5,353	\$ 5,450	\$ 5,548	\$ 5,648
HS-	MS018	ELECTRIC DUCT HEATER REPLACEMENTS.	UUU25	2008	10	EA	10	5	5	\$8,775.00	\$ 87,750	\$ 97,664	\$ 99,422	\$ 101,211	\$ 103,033	\$ 104,888
HS-	MS019	CABINET UNIT HEATER REPLACEMENTS.	UUU25	2008	12	EA	20	5	15	\$6,075.00	\$ 72,900	\$ 81,136	\$ 82,597	\$ 84,083	\$ 85,597	\$ 87,138
HS-	MS020	HOT WATER UNIT HEATER REPLACEMENTS.	UUU25	2008	2	EA	20	5	15	\$4,725.00	\$ 9,450	\$ 10,518	\$ 10,707	\$ 10,900	\$ 11,096	\$ 11,296
HS-	MS021	VAV BOXES WITH ELECTRIC REHEAT REPLACEMENTS.	UUU25	2008	24	EA	20	5	15	\$6,075.00	\$ 145,800	\$ 162,272	\$ 165,193	\$ 168,167	\$ 171,194	\$ 174,275
HS-	MS022	EXHAUST FAN REPLACEMENTS FOR THOSE INSTALLED UNDER MECHANICAL SYSTEMS UPGRADE PROJECT.	UUU25	2008	4	EA	20	5	15	\$4,725.00	\$ 18,900	\$ 21,035	\$ 21,414	\$ 21,799	\$ 22,192	\$ 22,591
HS-	MS023	HVAC SYSTEMS CLEANING - SOUTH BUILDING.	UUU25	2000	46,000	SF	10	13	-3	\$1.15	\$ 52,900	\$ 58,877	\$ 59,936	\$ 61,015	\$ 62,113	\$ 63,231
HS-	MS024	HVAC SYSTEMS CLEANING - NORTH BUILDING.	UUU25	2010	24,000	SF	10	3	7	\$1.15	\$ 27,600	\$ 30,718	\$ 31,271	\$ 31,834	\$ 32,407	\$ 32,990
HS-	MS025	SUMP PUMP.	UUU16	2010	--	--	15	3	12	\$0.00	--					
HS-	MS026	JCI BUILDING CONTROL SYSTEM.	UUU06	2002	74,109	SF	15	11	4	\$6.08	\$ 450,583	\$ 501,489	\$ 510,516	\$ 519,705	\$ 529,060	\$ 538,583
ELECTRICAL SYSTEMS (may be packaged with BI item scope)												\$ 194,215	\$ 197,711	\$ 201,269	\$ 204,892	\$ 208,580
HS-	ES001	BUILDING SERVICE TRANSFORMER. REPLACED 2020.	UUU04	2020	--	--	20	-7	27	\$0.00	--					
HS-	ES002	MAIN SWITCHBOARD.	UUU05	2008	--	--	20	5	15	\$0.00	--					
HS-	ES003	STANDBY GENERATOR (OLYMPIA). ELIMINATED 2016.	UUU25	--	--	EA	--	--	--	\$136,350.00	--					
HS-	ES004	STANDBY GENERATOR (CUMMINS). REPLACED 2016.	UUU25	2016	--	--	20	0	20	\$0.00	--					
HS-	ES005	LIFE SAFETY AUTOMATIC TRANSFER SWITCH (ATS). REPLACED 2016.	UUU25	2016	--	--	20	0	20	\$0.00	--					

SCHOOLCRAFT COLLEGE; HEALTH SCIENCES - SCHEDULED MAINTENANCE PROGRAM

ITEM		FICM CODE	YEAR ITEM	ITEM TOTAL QUANTITY	ITEM UNITS	AVG	TIME	RUL	ITEM	DEFERRED MAINTENANCE PLAN YEAR						
LOC	NO.		WAS PUT INTO SERVICE			EUL (YRS)	IN USE (YRS)		UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023	
HS-	ES006	STANDBY POWER SYSTEMS AUTOMATIC TRANSFER SWITCH (ATS). REPLACED 2016.	UUU25	2016	--	--	20	0	20	\$0.00	--					
HS-	ES007	ELECTRICAL DISTRIBUTION EQUIPMENT.	UUU05	1965	2	EA	20	48	-28	\$30,000.00	\$ 60,000	\$ 66,779	\$ 67,981	\$ 69,204	\$ 70,450	\$ 71,718
HS-	ES008	VARIABLE FREQUENCY DRIVE (VFD).	UUU25	2008	--	--	15	5	10	\$0.00	--					
HS-	ES009	WELDING LAB VARIABLE FREQUENCY DRIVE. ELIMINATED	210	2003	0	0	15	10	5	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HS-	ES010	LIGHTING AND RECEPTACLE PANELBOARDS.	UUU05	1965	1	LS	20	48	-28	\$74,000.00	\$ 74,000	\$ 82,360	\$ 83,843	\$ 85,352	\$ 86,888	\$ 88,452
HS-	ES011	EXTERIOR BUILDING MOUNTED LIGHTING. COMPLETED 2021.	UUU25	2021	22	EA	20	0	20	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HS-	ES012	EXIT LIGHTING. ADDRESSED 2021 - 2022.	W06	2022	--	--	20	0	20	\$0.00	--					
HS-	ES013	CORRIDOR LIGHTING. ADDRESSED 2021 - 2022.	W06	2022	--	--	20	0	20	\$0.00	--					
HS-	ES014	CLASSROOM LIGHTING. VARIOUS LOCATIONS UPGRADED 2021 - 2022.	110 AND 210	2022	--	--	20	0	20	\$0.00	--					
HS-	ES015	OFFICE LIGHTING. VARIOUS LOCATIONS UPGRADED 2021 - 2022.	310	2022	--	--	20	0	20	\$0.00	--					
HS-	ES016	STORAGE AND UTILITY ROOM LIGHTING.	X01 AND Y04	1965	1	LS	20	48	-28	\$13,500.00	\$ 13,500	\$ 15,025	\$ 15,296	\$ 15,571	\$ 15,851	\$ 16,137
HS-	ES017	VACANCY SENSOR LIGHTING CONTROLS (CLASSROOMS). VARIOUS LOCATIONS UPGRADED 2021 - 2022.	110 AND 210	2022	--	--	20	0	20	\$0.00	--					
HS-	ES018	VACANCY SENSOR LIGHTING CONTROLS (CORRIDORS). COMPLETED 2021 - 2022.	W05 AND W06	2022	0	LS	20	--	--	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HS-	ES019	DATA CENTER ELECTRICAL SERVICE EQUIPMENT.	710	2010	--	--	20	3	17	\$0.00	--					
HS-	ES020	POWER BUSWAYS.	UUU05	1965	1	LS	20	48	-28	\$27,000.00	\$ 27,000	\$ 30,050	\$ 30,591	\$ 31,142	\$ 31,703	\$ 32,273
BUILDING SYSTEMS (fire, security, IT/media infrastructure)												\$ 300,644	\$ 306,056	\$ 311,565	\$ 317,173	\$ 322,882
HS-	BS001	FIRE ALARM SYSTEM MAIN AND REMOTE PANELS. COMPLETED 2021 - 2022.	UUU07	2021 - 2022	--	--	20	#####	#####	\$0.00	--					
HS-	BS002	FIRE ALARM DEVICES. COMPLETED 2021 - 2022.	UUU07	2021 - 2022	--	--	20	#####	#####	\$0.00	--					
HS-	BS003	BOILER EPO SYSTEM.	Y04	2008	--	--	20	5	15	\$0.00	--					
HS-	BS004	CONVERSION TO PRIMAX CLOCK SYSTEM. STARTED 2021.	UUU25	1965	1	LS	20	48	-28	\$65,030.00	\$ 65,030	\$ 72,377	\$ 73,680	\$ 75,006	\$ 76,356	\$ 77,731
HS-	BS005	CLOCK SYSTEM.	UUU25	1972	1	LS	20	41	-21	\$65,030.00	\$ 65,030	\$ 72,377	\$ 73,680	\$ 75,006	\$ 76,356	\$ 77,731
HS-	BS006	SECURITY SURVEILLANCE SYSTEM. COMPLETED 2021 - 2022.	UUU14	2021 - 2022	--	--	20	#####	#####	\$0.00	--					
HS-	BS007	SECURITY ACCESS SYSTEM. COMPLETED 2021 - 2022.	UUU14 / 2016 - GALAXY PANEL AND AS810 INSTALLED. 2017 - CARD ACCESS ADDED TO IT CLOSETS. 2017 - ADDED DEAN'S OFFICE & AS162 CODE BLUES PANIC BUTTONS.	2021 - 2022	--	--	20	#####	#####	\$0.00	--					
HS-	BS008	LIGHTNING PROTECTION SYSTEM.	UUU25	NONE	1	LS	20	--	--	\$140,066.00	\$ 140,066	\$ 155,890	\$ 158,696	\$ 161,553	\$ 164,461	\$ 167,421
SPECIALTY EQUIPMENT (food service, theatre, labs, shops)												\$ -	\$ -	\$ -	\$ -	\$ -
HS-	SE001	WELDING LAB DUST COLLECTOR MAINTENANCE/REPLACEMENT. METALLURGY MOVED TO "MEC" BUILDING IN 2020.	210	2020	0	LS	20	-7	27	\$54,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

SCHOOLCRAFT COLLEGE; HEALTH SCIENCES - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM CODE	YEAR ITEM	ITEM TOTAL QUANTITY	ITEM UNITS	AVG	TIME	RUL	ITEM	DEFERRED MAINTENANCE PLAN YEAR					
LOC	NO.	ITEM		WAS PUT INTO SERVICE			EUL (YRS)	IN USE (YRS)		UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
HS-	SE002	EXTERIOR BUILDING SIGNAGE UPGRADE (COMPLIANCE WITH CURRENT COLLEGE BRANDING STANDARDS). COMPLETED 2021.	SSS16	2021	0	LS	25	--	--	\$43,200.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HS-	SE003	<del>METALLURGY LABORATORY FUME HOOD-</del> MAINTENANCE/REPLACEMENTS. METALLURGY MOVED TO "MEC" BUILDING IN 2020.	210	2020	0	LS	20	-7	27	\$35,775.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ACCESSIBILITY IMPROVEMENTS												\$ 10,142	\$ 10,325	\$ 10,510	\$ 10,700	\$ 10,892
HS-	AI001	EAST COURTYARD REPLACEMENT OF ASPHALT PAVING WITH DIVETS TO CONCRETE PAVED ADA WHEELCHAIR PATH. COMPLETED 2021.	SSS18	2021	0	SF	15	--	--	\$9.45	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HS-	AI002	ADA LIFT REPLACEMENT / RECONFIGURATION; SUCH AS LIFT TO ELEVATOR OR LIFT TO WHEELCHAIR RAIL SYSTEM PARALLEL TO EXISTING STAIRS THAT ARE ADJACENT TO WHEEL CHAIR LIFT. ELIMINATED FOR WHEELCHAIR RAMP.	W02	N/A	0	EA	20	#####	#####	\$27,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HS-	AI003	DISPLAY CASE CONSTITUTES PROTRUDING OBJECT	W06	2000	8	SF	40	13	27	\$126.56	\$ 1,012	\$ 1,127	\$ 1,147	\$ 1,168	\$ 1,189	\$ 1,210
HS-	AI004	BF ACCESSIBLE DRINKING FOUNTAINS. INSTALLED ONE (1) BF COMPLIANT DRINKING FOUNTAIN AT SW CORNER OF SOUTH WING.	W06	VARIOUS W/ 2020 REPLACEMENT AT SW LOCATION	2	EA	20	--	--	\$4,050.00	\$ 8,100	\$ 9,015	\$ 9,177	\$ 9,343	\$ 9,511	\$ 9,682
ANNUAL FUNDING REQUIREMENTS (ROUNDED):												\$ 2,771,964	\$ 2,821,860	\$ 2,872,653	\$ 2,924,361	\$ 2,976,999





SCHOOLCRAFT COLLEGE; 7 MILE BUILDING - SCHEDULED MAINTENANCE PROGRAM

SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:					2013					INFLATION RATE (%):					1.8%					LEGEND				
BUILDING SECTION (BUILDING TYPE)					BUILDING AGE (YRS)					BUILDING AREA (GSF)														
JEFFRESS CENTER (FORMERLY 7 MILE BUILDING)										110,000														
WINGS A AND B					1980																			
WING C					1985																			
YEAR: 2022																								
MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:					\$ 1,002,462																			
REPLACEMENT VALUE FOR THE BUILDING:					\$ 29,586,900																			
FACILITY CONDITION INDEX (FCI):					3%																			

SCHOOLCRAFT COLLEGE; 7 MILE BUILDING - SCHEDULED MAINTENANCE PROGRAM

JC-	MS011	CABINET UNIT HEATER.	UUU25	1985	1	EA	25	28	-3	\$2,295.00	\$ 2,295	\$ 2,554	\$ 2,600	\$ 2,647	\$ 2,695	\$ 2,743
JC-	MS012	FIN TUBE RADIATION.	UUU22	2014	100	LF	25	0	25	\$108.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
JC-	MS013	AHU-1 AND AHU-2 - A/B WING.	UUU25	1985	2	EA	40	28	12	\$35,775.00	\$ 71,550	\$ 79,634	\$ 81,067	\$ 82,526	\$ 84,012	\$ 85,524
JC-	MS014	AHU-B.	UUU25	1985	1	EA	40	28	12	\$35,775.00	\$ 35,775	\$ 39,817	\$ 40,533	\$ 41,263	\$ 42,006	\$ 42,762
JC-	MS015	AHU-1.	UUU25	1985	1	EA	40	28	12	\$35,775.00	\$ 35,775	\$ 39,817	\$ 40,533	\$ 41,263	\$ 42,006	\$ 42,762
JC-	MS016	AHU-2.	UUU25	1985	1	EA	40	28	12	\$35,775.00	\$ 35,775	\$ 39,817	\$ 40,533	\$ 41,263	\$ 42,006	\$ 42,762
JC-	MS017	AHU-3.	UUU25	1985	1	EA	40	28	12	\$35,775.00	\$ 35,775	\$ 39,817	\$ 40,533	\$ 41,263	\$ 42,006	\$ 42,762
JC-	MS018	AHU-4.	UUU25	1985	1	EA	40	28	12	\$22,275.00	\$ 22,275	\$ 24,792	\$ 25,238	\$ 25,692	\$ 26,155	\$ 26,625
JC-	MS019	ROOF RELIEF LOUVER.	UUU25	1985	1	EA	25	28	-3	\$6,750.00	\$ 6,750	\$ 7,513	\$ 7,648	\$ 7,785	\$ 7,926	\$ 8,068
ELECTRICAL SYSTEMS (may be packaged with BI item scope)												\$ 180,302	\$ 183,548	\$ 186,852	\$ 190,215	\$ 193,639
JC-	ES001	BUILDING SERVICE TRANSFORMER T-1. ELIMINATED IN 2017. ENTIRE BUILDING NOW SERVICED BY TRANS T-2.	UUU04	--	1	EA	20	--	-8	\$101,250.00	\$ -					
JC-	ES002	BUILDING SERVICE TRANSFORMER T-2. RECONDITIONED AND ELECTRICALLY TESTED IN 2017.	UUU04	2017	1	EA	20	0	-8	\$101,250.00	\$ -					
JC-	ES003	MAIN SWITCHBOARD MSB-1.	UUU05	1985	1	EA	20	28	-8	\$81,000.00	\$ 81,000	\$ 90,151	\$ 91,774	\$ 93,426	\$ 95,108	\$ 96,819
JC-	ES004	MAIN SWITCHBOARD MSB-2.	UUU05	1985	1	EA	20	28	-8	\$81,000.00	\$ 81,000	\$ 90,151	\$ 91,774	\$ 93,426	\$ 95,108	\$ 96,819
JC-	ES005	STANDBY GENERATOR.	UUU25	1985	--	--	20	28	-8	\$0.00	--					
JC-	ES006	LIFE SAFETY AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	1985	--	--	20	28	-8	\$0.00	--					
JC-	ES007	STANDBY POWER SYSTEMS AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	1985	--	--	15	28	-13	\$0.00	--					
JC-	ES008	ELECTRICAL DISTRIBUTION EQUIPMENT.	UUU05	1985	--	--	20	28	-8	\$0.00	--					
JC-	ES009	VARIABLE FREQUENCY DRIVE (VFD)/STARTERS.	UUU25	2014	8	EA	20	0	20	\$6,750.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
JC-	ES010	LIGHTING AND RECEPTACLE PANELBOARDS.	UUU05	1985	--	--	20	28	-8	\$0.00	--					
JC-	ES011	EXTERIOR BUILDING MOUNTED LIGHTING.	UUU25	2014	--	--	20	0	-8	\$0.00	--					
JC-	ES012	EXIT LIGHTING.	W06	2014	--	--	20	0	20	\$0.00	--					
JC-	ES013	CORRIDOR LIGHTING.	W05 AND W06	2014	--	--	20	0	20	\$0.00	--					
JC-	ES014	GENERAL AREA LIGHTING.	650	2014	--	--	20	0	20	\$0.00	--					
JC-	ES015	OFFICE LIGHTING.	310	2014	--	--	20	0	20	\$0.00	--					
JC-	ES016	STORAGE AND UTILITY ROOM LIGHTING.	X01 AND Y04	2014	--	--	20	0	20	\$0.00	--					
JC-	ES017	VACANCY SENSOR LIGHTING CONTROLS.	110, 210, W05 AND W06	2014	--	--	20	0	20	\$0.00	--					
JC-	ES018	EXTERIOR SITE LIGHTING.	UUU10	2014	--	--	20	0	20	\$0.00	--					
BUILDING SYSTEMS (fire, security, IT/media infrastructure)												\$ -	\$ -	\$ -	\$ -	\$ -
JC-	BS001	FIRE ALARM SYSTEM MAIN PANEL.	UUU07	2014	--	--	20	0	20	\$0.00	--					
JC-	BS002	FIRE ALARM DEVICES.	UUU07	2014	--	--	20	0	20	\$0.00	--					
JC-	BS003	BOILER ROOM EPO SYSTEM.	Y04	2014	--	--	20	0	20	\$0.00	--					
JC-	BS004	CLOCK SYSTEM.	UUU25	2014	--	--	20	0	20	\$0.00	--					
JC-	BS005	SECURITY SURVEILLANCE SYSTEM.	UUU14	2014	--	--	20	0	20	\$0.00	--					
JC-	BS006	SECURITY ACCESS SYSTEM. COMPLETED 2021.	UUU14	2021	--	--	20	0	20	\$0.00	--					
JC-	BS007	LIGHTNING PROTECTION SYSTEM	UUU25	2014	--	--	20	0	20	\$0.00	--					
SPECIALTY EQUIPMENT (food service, theatre, labs, shops)												\$ -	\$ -	\$ -	\$ -	\$ -
JC-	SE001	EAST PASSENGER ELEVATORS	W02	2014	1	LS	25	0	25	\$350,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ACCESSIBILITY IMPROVEMENTS												\$ -	\$ -	\$ -	\$ -	\$ -
JC-	AI001	DOOR HARDWARE REPLACEMENTS	110, 310, 350, 410, 650, 680, W05, W06, W07, X02, X03 AND Y04	2014	30	EA	20	0	20	\$743.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
JC-	AI002	WEST PASSENGER ELEVATOR IMPROVEMENTS	W02	2014	1	LS	20	0	--	\$80,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
JC-	AI003	STAIR HANDRAIL IMPROVEMENTS	W07	1985	--	--	25	28	26	\$0.00	--					
ANNUAL FUNDING REQUIREMENTS (ROUNDED):												\$ 933,419	\$ 950,221	\$ 967,325	\$ 984,737	\$ 1,002,462

SCHOOLCRAFT COLLEGE; LIBERAL ARTS - SCHEDULED MAINTENANCE PROGRAM

SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:					2013					INFLATION RATE (%):					1.8%					LEGEND				
BUILDING SECTION (BUILDING TYPE)					BUILDING AGE (YRS)					BUILDING AREA (GSF)														
LIBERAL ARTS (CLASSROOM)										45,475														
LIBERAL ARTS - ORIGINAL					1967					40,071														
LIBERAL ARTS - SOUTH ADDITION					1972					5,404														
					YEAR: 2022																			
MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:					\$ 1,978,230																			
REPLACEMENT VALUE FOR THE BUILDING:					\$ 13,819,000																			
FACILITY CONDITION INDEX (FCI):					14%																			
					FCI					BUILDING CONDITION														
					FCI < 5%					GOOD														
					5%< FCI< 10%					FAIR														
					10% < FCI					POOR														
										ITEM NO. CODES														
										AI: ACCESSIBILITY IMPROVEMENT														
										BE: BUILDING EXTERIOR														
										BI: BUILDING INTERIOR														
										BS: BUILDING SYSTEM														
										ES: ELECTRICAL SYSTEM														
										MS: MECHANICAL SYSTEM														
										PS: PLUMBING SYSTEM														
										SG: SITE GROUNDS														
										SE: SPECIALTY EQUIPMENT														
																				REMAINING USEFUL LIFE (RUL) BAROMETER				
																				 RUL = 1 YEAR OR LESS				
																				 RUL = 5 YEARS				
																				 RUL = 10 YEARS OR GREATER				

DEFERRED MAINTENANCE PLAN YEAR																
ITEM		FICM	YEAR ITEM	ITEM TOTAL	AVG	TIME				ITEM						
LOC	NO.	ITEM	CODE	WAS PUT INTO SERVICE	QUANTITY	ITEM UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
BUILDING ENVELOPE (includes items exterior to building)												\$ 36,334	\$ 36,988	\$ 37,654	\$ 38,332	\$ 39,022
LA-	BE001	EXTERIOR SOFFIT, FASCIA, AND WINDOW/DOOR HEADER PAINTING.	MMM16	2020	0	EA	15	0	15	\$9,250.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
LA-	BE002	SLIDER DOOR MAINTENANCE / REPLACEMENT. THESE DOORS WERE REPLACED IN 2019.	W06	2019	--	--	15	--	--	\$0.00	--					
LA-	BE003	EXTERIOR SEALANT MAINTENANCE.	MMM16	VARIOUS	600	LF	20	--	--	\$4.73	\$ 2,838	\$ 3,159	\$ 3,215	\$ 3,273	\$ 3,332	\$ 3,392
LA-	BE004	STEEL DOOR REPLACEMENT AT EAST CUSTODIAL CLOSET.	X01	1967	1	EA	20	46	-26	\$2,808.00	\$ 2,808	\$ 3,125	\$ 3,181	\$ 3,239	\$ 3,297	\$ 3,356
LA-	BE005	REPAINTING OF ROOF-MOUNTED AIR HANDLING UNIT AND ASSOCIATED DUCTWORK.	UUU25	2005	1	EA	15	8	7	\$13,500.00	\$ 13,500	\$ 15,025	\$ 15,296	\$ 15,571	\$ 15,851	\$ 16,137
LA-	BE006	SLOPED/MEZZ MECHANICAL ROOM SINGLE-PLY MEMBRANE REROOFING.	MMM16	2000	--	--	25	13	12	\$0.00	--					
LA-	BE007	STANDING SEAM METAL REROOFING.	MMM16	2000	--	--	50	13	37	\$0.00	--					
LA-	BE008	FLAT SINGLE-PLY MEMBRANE REROOFING.	MMM16	2006	--	--	25	7	18	\$0.00	--					
LA-	BE009	EXTERIOR DOOR MAINTENANCE/REPLACEMENTS.	W05 AND W06	2006	--	--	25	7	18	\$0.00	--					
LA-	BE010	EXTERIOR WINDOW MAINTENANCE/REPLACEMENT.	110, 310, W05 AND W06	2006	--	--	30	7	23	\$0.00	--					
LA-	BE011	CLEAN EXTERIOR BRICK EFFLORESCENCE.	MMM16	1967	0	0	15	46	-31	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
LA-	BE012	IMPROVE ACCESS TO ROOF MECHANICAL UNIT.	Y04	1967	1	LS	20	46	-26	\$13,500.00	\$ 13,500	\$ 15,025	\$ 15,296	\$ 15,571	\$ 15,851	\$ 16,137
BUILDING INTERIOR												\$ 518,180	\$ 527,507	\$ 537,002	\$ 546,668	\$ 556,508
LA-	BI001	REPLACEMENT OF LIBERAL ARTS INTERIOR DOOR AND DOOR HARDWARE REPLACEMENTS.	110 AND 310	VARIOUS	65	EA	50	--	--	\$1,350.00	\$ 87,750	\$ 97,664	\$ 99,422	\$ 101,211	\$ 103,033	\$ 104,888
LA-	BI002	CORRIDOR BRICK CLEANING.	W06	1967	200	SF	20	46	-26	\$1.89	\$ 378	\$ 421	\$ 428	\$ 436	\$ 444	\$ 452
LA-	BI003	REPLACE CORRIDOR BENCHES AND BOOTHS WITH POWER FOR LAPTOPS INCLUDED.	W05	VARIOUS	8	EA	20	--	--	\$4,050.00	\$ 32,400	\$ 36,060	\$ 36,710	\$ 37,370	\$ 38,043	\$ 38,728
LA-	BI004	CORRIDOR CEILING AND LIGHTING UPGRADE.	W05 AND W06	2000	11,000	SF	35	13	22	\$5.67	\$ 62,370	\$ 69,416	\$ 70,666	\$ 71,938	\$ 73,233	\$ 74,551

SCHOOLCRAFT COLLEGE; LIBERAL ARTS - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM	YEAR ITEM	ITEM TOTAL	AVG	TIME	ITEM			DEFERRED MAINTENANCE PLAN YEAR					
LOC	NO.	ITEM	CODE	WAS PUT INTO SERVICE	QUANTITY	ITEM UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
LA-	BI005	TOILET ROOM UPGRADES; INCLUDING EXPANSION OF CENTRAL TOILET ROOMS AND ADA COMPLIANCE IMPROVEMENTS.	X03	VARIOUS	880	SF	25	--	--	\$54.00	\$ 47,520	\$ 52,889	\$ 53,841	\$ 54,810	\$ 55,796	\$ 56,801
LA-	BI006	INTERIOR WOOD DOOR AND DOOR HARDWARE REPLACEMENTS.	110 AND 310	VARIOUS	12	EA	50	--	--	\$877.50	\$ 10,530	\$ 11,720	\$ 11,931	\$ 12,145	\$ 12,364	\$ 12,587
LA-	BI007	THEATRE STAGE/BACKSTAGE IMPROVEMENTS/UPGRADES.	590	VARIOUS	1	LS	--	--	--	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
LA-	BI008	INSTALL PERMANENT STEEL STAIR TREADS FOR MEZZANINE MECHANICAL ROOM DOOR TO ROOF.	Y04	NONE	1	EA	40	--	--	\$13,500.00	\$ 13,500	\$ 15,025	\$ 15,296	\$ 15,571	\$ 15,851	\$ 16,137
LA-	BI009	WALL FINISH UPDATES - ALLOWANCE.	110, 210, 310, 590, W05, W06 AND X03	VARIOUS	--	--	--	--	--	\$0.00	--					
LA-	BI010	FLOOR FINISH UPDATES - ALLOWANCE. 2019 CARPET REPLACEMENTS WERE PERFORMED IN LA240, LA330, LA410, LA415, LA420, LA465, & LA470.	110, 210, 310, 590, W05, W06 AND X03	VARIOUS	--	--	--	--	--	\$0.00	--					
LA-	BI011	ACOUSTICAL CEILING PANEL REPLACEMENT.	110, 210, 310, 590, W05, W06 AND X03	VARIOUS	12,500	SF	35	--	--	\$3.65	\$ 45,625	\$ 50,780	\$ 51,694	\$ 52,624	\$ 53,571	\$ 54,536
LA-	BI012	ACOUSTICAL CEILING UPGRADE.	590	1967	1,750	SF	35	46	-11	\$4.32	\$ 7,560	\$ 8,414	\$ 8,566	\$ 8,720	\$ 8,877	\$ 9,036
LA-	BI013	CORRIDOR DOORS HARDWARE UPGRADE.	110	VARIOUS	10	EA	50	--	--	\$405.00	\$ 4,050	\$ 4,508	\$ 4,589	\$ 4,671	\$ 4,755	\$ 4,841
LA-	BI014	CORRIDOR BENCHES UPGRADE.	W06	VARIOUS	80	LF	20	--	--	\$452.25	\$ 36,180	\$ 40,268	\$ 40,992	\$ 41,730	\$ 42,481	\$ 43,246
LA-	BI015	ENTRANCE MATS AT EXTERIOR DOORS. (SOUTH ENTRANCE DONE 2017)	W06	2008	360	SF	5	5	0	\$62.10	\$ 22,356	\$ 24,882	\$ 25,330	\$ 25,786	\$ 26,250	\$ 26,722
LA-	BI016	CARPET REPLACEMENT.	110 AND 310	VARIOUS	13,450	SF	15	--	--	\$7.09	\$ 95,361	\$ 106,134	\$ 108,045	\$ 109,989	\$ 111,969	\$ 113,985
LA-	BI017	DOOR THRESHOLD MAINTENANCE.	W06	2017	1	EA	25	0	--	\$5,562.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PLUMBING SYSTEMS (may be packaged with BI item scope)												\$ -	\$ -	\$ -	\$ -	\$ -
LA-	PS001	INVESTIGATE THEATRE STORM DRAINAGE PIPING WITH INTENT TO ELIMINATE POSSIBILITY OF SANITARY DRAINAGE BACK-UP INTO THEATRE AS OCCURRED IN 2010. COMPLETED	590	2018 - SUMP PIT WAS CREATED.	1	LS	25	--	--	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
LA-	PS002	TOILET ROOM FIXTURES.	X03	VARIOUS	--	--	40	--	--	\$0.00	--					

SCHOOLCRAFT COLLEGE; LIBERAL ARTS - SCHEDULED MAINTENANCE PROGRAM

ITEM		FICM CODE	YEAR ITEM	ITEM TOTAL QUANTITY	ITEM EUL UNITS (YRS)	AVG TIME			ITEM	DEFERRED MAINTENANCE PLAN YEAR						
LOC	NO.		WAS PUT INTO SERVICE			UNIT	IN USE	RUL	COST	FIRST COST	2019	2020	2021	2022	2023	
MECHANICAL SYSTEMS (may be packaged with BI item scope)												\$ 719,852	\$ 732,809	\$ 746,000	\$ 759,428	\$ 773,098
LA-	MS001	REPLACE TOILET ROOM EXHAUST FAN EF-1.	X03	1967	1	EA	20	46	-26	\$7,087.50	\$ 7,088	\$ 7,888	\$ 8,030	\$ 8,175	\$ 8,322	\$ 8,472
LA-	MS002	REPLACE RETURN AIR FAN RAF-1.	UUU25	1967	1	EA	20	46	-26	\$11,137.50	\$ 11,138	\$ 12,396	\$ 12,619	\$ 12,846	\$ 13,077	\$ 13,313
LA-	MS003	ELIMINATE REDUNDANT HEATING AND COOLING COIL SHUT-OFFS CONVERTING REMAINING GATE VALVES TO QUARTER-TURN BALL VALVES.	UUU25	1967	4	EA	25	46	-21	\$607.50	\$ 2,430	\$ 2,705	\$ 2,753	\$ 2,803	\$ 2,853	\$ 2,905
LA-	MS004	CHILLED WATER DISTRIBUTION PUMP MAINTENANCE/REPLACEMENTS.	UUU20	2005	--	--	20	8	12	\$0.00	--					
LA-	MS005	BOILER CIRCULATING WATER PUMP MAINTENANCE/REPLACEMENTS.	UUU22	2005	--	--	20	8	12	\$0.00	--					
LA-	MS006	BUILDING HEATING WATER PUMP MAINTENANCE/REPLACEMENTS.	UUU22	2005	--	--	20	8	12	\$0.00	--					
LA-	MS007	AIR HANDLING UNIT, AHR-1 HEATING WATER RECIRCULATING PUMP MAINTENANCE/REPLACEMENT.	UUU25	2005	--	--	20	8	12	\$0.00	--					
LA-	MS008	VAV BOX MAINTENANCE/REPLACEMENTS.	UUU25	2005	--	--	30	8	22	\$0.00	--					
LA-	MS009	ELECTRIC DUCT HEATER REPLACEMENTS.	UUU25	2005	24	EA	15	8	7	\$21,500.00	\$ 516,000	\$ 574,297	\$ 584,634	\$ 595,158	\$ 605,870	\$ 616,776
LA-	MS010	BOILER REPLACEMENTS.	UUU22	2005	--	--	25	8	17	\$0.00	--					
LA-	MS011	AIR HANDLING UNIT REPLACEMENTS AH-1.	UUU25	2005	1	EA	40	8	32	\$28,350.00	\$ 28,350	\$ 31,553	\$ 32,121	\$ 32,699	\$ 33,288	\$ 33,887
LA-	MS012	AIR HANDLING UNIT REPLACEMENTS AHR-1.	UUU25	2005	--	--	40	8	32	\$0.00	--					
LA-	MS013	EXHAUST FAN MAINTENANCE/REPLACEMENTS.	UUU25	2005	--	--	20	8	12	\$0.00	--					
LA-	MS014	CABINET UNIT HEATER REPLACEMENTS.	UUU25	2005	--	--	25	8	17	\$0.00	--					
LA-	MS015	JCI BUILDING AUTOMATION SYSTEM.	UUU06	2005	--	--	20	8	12	\$0.00	--					
LA-	MS016	DUCT CLEANING.	UUU25	2005	40,000	SF	10	8	2	\$1.15	\$ 46,000	\$ 51,197	\$ 52,119	\$ 53,057	\$ 54,012	\$ 54,984
LA-	MS017	VERTICAL UNIT VENTILATOR REPLACEMENT.	W06	2002	2	EA	25	11	14	\$17,887.50	\$ 35,775	\$ 39,817	\$ 40,533	\$ 41,263	\$ 42,006	\$ 42,762
ELECTRICAL SYSTEMS (may be packaged with BI item scope)												\$ 236,422	\$ 240,677	\$ 245,009	\$ 249,420	\$ 253,909
LA-	ES001	BUILDING SERVICE TRANSFORMER.	UUU04	2004	--	--	20	9	11	\$0.00	--					
LA-	ES002	MAIN SWITCHBOARD.	UUU05	1967	1	EA	20	46	-26	\$81,000.00	\$ 81,000	\$ 90,151	\$ 91,774	\$ 93,426	\$ 95,108	\$ 96,819
LA-	ES003	STANDBY GENERATOR.	UUU25	2009	--	--	20	4	16	\$0.00	--					
LA-	ES004	LIFE SAFETY AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2009	--	--	20	4	16	\$0.00	--					
LA-	ES005	STANDBY POWER SYSTEMS AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2009	--	--	20	4	16	\$0.00	--					
LA-	ES006	ELECTRICAL DISTRIBUTION EQUIPMENT.	UUU05	1967	2	EA	20	46	-26	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
LA-	ES007	VARIABLE FREQUENCY DRIVE (VFD).	UUU25 / 2018 CHILLED WATER PUMP # 1 VFD REPLACED.	2007	--	--	15	6	9	\$0.00	--					
LA-	ES008	LIGHTING AND RECEPTACLE PANELBOARDS.	UUU05	1967	1	LS	20	46	-26	\$81,000.00	\$ 81,000	\$ 90,151	\$ 91,774	\$ 93,426	\$ 95,108	\$ 96,819
LA-	ES009	EXTERIOR BUILDING MOUNTED LIGHTING.	UUU25	1967	14	EA	20	46	-26	\$708.75	\$ 9,923	\$ 11,044	\$ 11,242	\$ 11,445	\$ 11,651	\$ 11,860
LA-	ES010	EXIT LIGHTING.	W06	2000	--	--	2	13	-11	\$0.00	--					
LA-	ES011	CORRIDOR LIGHTING.	W06	2000	--	--	20	13	7	\$0.00	--					
LA-	ES012	CLASSROOM LIGHTING.	110 AND 210	VARIOUS	--	--	20	--	--	\$0.00	--					
LA-	ES013	OFFICE LIGHTING.	310	VARIOUS	--	--	20	--	--	\$0.00	--					
LA-	ES014	STORAGE AND UTILITY ROOM LIGHTING.	X01 AND Y04	1967	1	LS	20	46	-26	\$27,000.00	\$ 27,000	\$ 30,050	\$ 30,591	\$ 31,142	\$ 31,703	\$ 32,273
LA-	ES015	VACANCY SENSOR LIGHTING CONTROLS.	110 AND 210	2002	--	--	20	11	9	\$0.00	--					
LA-	ES016	VACANCY SENSOR LIGHTING CONTROLS.	W05 AND W06	NONE	1	LS	20	--	--	\$13,500.00	\$ 13,500	\$ 15,025	\$ 15,296	\$ 15,571	\$ 15,851	\$ 16,137
BUILDING SYSTEMS (fire, security, IT/media infrastructure)												\$ 200,476	\$ 204,085	\$ 207,758	\$ 211,498	\$ 215,305
LA-	BS001	FIRE ALARM SYSTEM MAIN AND REMOTE PANELS.	UUU07	2007	--	--	20	6	14	\$0.00	--					

SCHOOLCRAFT COLLEGE; LIBERAL ARTS - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM	YEAR ITEM	ITEM TOTAL	AVG	TIME	ITEM			DEFERRED MAINTENANCE PLAN YEAR					
LOC	NO.	ITEM	CODE	WAS PUT INTO SERVICE	QUANTITY	ITEM UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
LA-	BS002	FIRE ALARM DEVICES.	UUU07	2007	--	--	20	6	14	\$0.00	--					
LA-	BS003	BOILER EPO SYSTEM.	Y04	NONE	1	EA	20	--	--	\$3,375.00	\$ 3,375	\$ 3,756	\$ 3,824	\$ 3,893	\$ 3,963	\$ 4,034
LA-	BS004	CLOCK SYSTEM.	UUU25	1967	1	LS	20	46	-26	\$39,904.00	\$ 39,904	\$ 44,412	\$ 45,212	\$ 46,026	\$ 46,854	\$ 47,697
LA-	BS005	SECURITY SURVEILLANCE SYSTEM.	UUU14	2004	1	LS	20	9	11	\$136,847.00	\$ 136,847	\$ 152,308	\$ 155,049	\$ 157,840	\$ 160,681	\$ 163,574
LA-	BS006	SECURITY ACCESS SYSTEM. IMPROVEMENTS WERE MADE IN 2018. COMPLETED 2021.	UUU14 / 2018 EXTERIOR DOOR CARD ACCESS & GALAXY PANEL INSTALLED.	2021	1	LS	20	0	20	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
LA-	BS007	LIGHTNING PROTECTION SYSTEM.	UUU25	NONE	1	LS	20	--	--	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
LA-	BS008	THEATER LIGHTING AND CONTROL EQUIPMENT.	UUU25	2004	1	LS	20	9	11	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
LA-	BS009	NETWORK SYSTEMS. ENTIRE MDF WAS RELOCATED TO LA30.	UUU02	2017	1	LS	25	--	--	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
LA-	BS010	NETWORK CABLING. ENTIRE MDF WAS RELOCATED TO LA30.	UUU02	2017	2	LS	25	--	--	\$200.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
LA-	BS011	TP COMMUNICATION CABLE. ENTIRE MDF WAS RELOCATED TO LA30.	UUU02	2017	48	EA	25	--	--	\$100.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
LA-	BS012	NETWORK SYSTEMS. ENTIRE MDF WAS RELOCATED TO LA30.	UUU02	2017	4	LS	25	--	--	\$2,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
LA-	BS013	NETWORK CABLE. ENTIRE MDF WAS RELOCATED TO LA30.	UUU02	2017	48	EA	25	--	--	\$200.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
LA-	BS014	TELEPHONE SYSTEMS. COMPLETED	UUU02	2017	10	EA	25	--	--	\$100.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SPECIALTY EQUIPMENT (food service, theatre, labs, shops)												\$ 93,156	\$ 94,833	\$ 96,540	\$ 98,278	\$ 100,047
LA-	SE001	EXTERIOR BUILDING SIGNAGE UPGRADE (COMPLIANCE WITH CURRENT COLLEGE BRANDING STANDARDS).	SSS16	1967	1	LS	25	46	-21	\$43,200.00	\$ 43,200	\$ 48,081	\$ 48,946	\$ 49,827	\$ 50,724	\$ 51,637
LA-	SE002	INSTALL CRANE RAIL FOR CHAIN FALL THAT CAN BE USED TO HOIST EQUIPMENT OVER STAIRS.	Y04	NONE	1	EA	35	--	--	\$40,500.00	\$ 40,500	\$ 45,076	\$ 45,887	\$ 46,713	\$ 47,554	\$ 48,410
LA-	SE003	THEATRE STAGE LIGHTING SYSTEM MAINTENANCE/UPGRADES.	590	2004	--	--	20	9	11	\$0.00	--					
ACCESSIBILITY IMPROVEMENTS												\$ 37,563	\$ 38,239	\$ 38,927	\$ 39,628	\$ 40,341
LA-	AI001	BARRIER-FREE IMPROVEMENTS TO FACULTY OFFICE BAYS.	310	1967	2	EA	20	46	-26	\$16,875.00	\$ 33,750	\$ 37,563	\$ 38,239	\$ 38,927	\$ 39,628	\$ 40,341
ANNUAL FUNDING REQUIREMENTS (ROUNDED):												\$ 1,841,983	\$ 1,875,139	\$ 1,908,892	\$ 1,943,252	\$ 1,978,230

## SCHOOLCRAFT COLLEGE; BRADNER LIBRARY - SCHEDULED MAINTENANCE PROGRAM

SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:	2013
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BUILDING SECTION (BUILDING TYPE)	BUILDING AGE (YRS)	BUILDING AREA (GSF)
BRADNER LIBRARY - TOTAL (LIBRARY)		24,236
BRADNER LIBRARY - ORIGINAL	1963	22,011
FLOOR AREA INCREASE AT NORTH END	2005	2,225

**YEAR: 202**

MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:	\$ 509,275
REPLACEMENT VALUE FOR THE BUILDING:	\$ 6,953,900
FACILITY CONDITION INDEX (FCI):	7%



FCI	BUILDING CONDITION
FCI < 5%	GOOD
5% < FCI < 10%	FAIR
10% < FCI	POOR

INFLATION RATE (%):	1.8%
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ITEM NO. CODES
AI: ACCESSIBILITY IMPROVEMENT
BE: BUILDING EXTERIOR
BI: BUILDING INTERIOR
BS: BUILDING SYSTEM
ES: ELECTRICAL SYSTEM
MS: MECHANICAL SYSTEM
PS: PLUMBING SYSTEM
SG: SITE GROUNDS
SE: SPECIALTY EQUIPMENT

LEGEND
AVG: AVERAGE
CF: CUBIC FEET
CY: CUBIC YARDS
EA: EACH
EUL: ESTIMATED USEFUL LIFE
GSF: GROSS SQUARE FEET
LOC: LOCATION (SITE/BLDG)
PV: PRESENT VALUE
RUL: ESTIMATED USEFUL LIFE
SF: SQUARE FEET
SY: SQUARE YARDS
YRS: YEARS

### REMAINING USEFUL LIFE (RUL) BAROMETER

**RUL = 1 YEAR OR LESS**

**RUL = 5 YEARS**

**RUL = 10 YEARS OR GREATER**

ITEM			FICM	YEAR ITEM	ITEM TOTAL	ITEM	AVG	TIME	RUL	ITEM	DEFERRED MAINTENANCE PLAN YEAR					
LOC	NO.	ITEM	CODE	WAS PUT INTO SERVICE	QUANTITY	UNITS	EUL (YRS)	IN USE (YRS)	(YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
BUILDING ENVELOPE (includes items exterior to building)												\$ 305,991	\$ 311,498	\$ 317,105	\$ 322,813	\$ 328,624
L-	BE001	EXTERIOR WING WALL LIMESTONE CAP REPAIRS.	MMM16	1963	100	LF	50	50	0	\$10.80	\$ 1,080	\$ 1,202	\$ 1,224	\$ 1,246	\$ 1,268	\$ 1,291
L-	BE002	EXTERIOR SOFFIT AND FASCIA PAINTING / SIDING RESTAINING.	MMM16	2020	1	EA	15	0	15	\$8,500.00	\$ 8,500					
L-	BE003	NE AND NW SLIDER DOOR REPLACEMENT .	W06	2021	0	EA	15	0	15	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
L-	BE004	EAST EXTERIOR EXIT RECONFIGURATION.	W06	1963	300	SF	30	50	-20	\$4.73	\$ 1,419	\$ 1,579	\$ 1,608	\$ 1,637	\$ 1,666	\$ 1,696
L-	BE005	SOUTH SATELLITE YARD FENCING REPLACEMENT AND LANDSCAPING.	MMM05	2013	0	LF	30	0	--	\$137.70	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
L-	BE006	MEDIA SERVICE ASPHALT DRIVE REPAIRS / REPAVING.	SSS09	2013	0	SF	15	0	15	\$9.45	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
L-	BE007	REPAIR BRICK MORTAR	MMM16	VARIOUS	--	--	10	--	--	\$0.00	--					
L-	BE008	REMOVE AND REPLACE EXTERIOR SEALANT AT MASONRY CONTROL AND EXPANSION JOINTS.	MMM16	2005	100	LF	20	8	12	\$4.73	\$ 473	\$ 526	\$ 536	\$ 546	\$ 555	\$ 565
L-	BE009	NORTH WINDOW SYSTEM MAINTENANCE/REPLACEMENT.	MMM16	2005	1,750	SF	25	8	17	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
L-	BE010	REROOFING OF VALLEYS (ADHERED, REINF. EPDM).	MMM16	1997	3,850	SF	25	16	9	\$22.95	\$ 88,358	\$ 98,340	\$ 100,110	\$ 101,912	\$ 103,746	\$ 105,614
L-	BE011	REROOFING OF FLAT ROOF AREA (WHITE, SINGLE-PLY MEMBRANE).	MMM16	1994	8,500	SF	25	19	6	\$21.60	\$ 183,600	\$ 204,343	\$ 208,021	\$ 211,765	\$ 215,577	\$ 219,458
L-	BE012	STANDING SEAM METAL ROOFING MAINTENANCE/REPLACEMENT.	MMM16	1997	9,150	SF	50	16	34	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
L-	BE013	NORTH END SECTION REROOFING.	MMM16	2005	--	--	25	8	17	\$0.00	--					
BUILDING INTERIOR												\$ 111,737	\$ 113,748	\$ 115,796	\$ 117,880	\$ 120,002

SCHOOLCRAFT COLLEGE; BRADNER LIBRARY - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM CODE	YEAR ITEM	ITEM TOTAL QUANTITY	ITEM UNITS	EUL (YRS)	TIME		ITEM	DEFERRED MAINTENANCE PLAN YEAR					
LOC	NO.	ITEM		WAS PUT INTO SERVICE				IN USE	RUL	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
L-	BI001	WALL FINISH UPDATES - ALLOWANCE.	110, 300, 410, 420, 430, 440 AND 455	VARIOUS	--	--	--	--	--	\$0.00	--					
L-	BI002	FLOOR FINISH UPDATES - ALLOWANCE.	110, 300, 410, 420, 430, 440 AND 456	VARIOUS	--	--	--	--	--	\$0.00	--					
L-	BI003	NE, NW, AND W VESTIBULE MAINTENANCE (EXCLUDING SLIDER DOOR REPLACEMENT COSTS).	W06	2005	--	--	15	8	7	\$0.00	--					
L-	BI004	REPLACE CARPET	110, 300, 410, 420, 430, 440 AND 456	VARIOUS	14,160	SF	12	--	--	\$7.09	\$ 100,394	\$ 111,737	\$ 113,748	\$ 115,796	\$ 117,880	\$ 120,002
PLUMBING SYSTEMS (may be packaged with BI item scope)												\$ -	\$ -	\$ -	\$ -	\$ -
L-	PS001	PLUMBING FIXTURE REPLACEMENTS, FAUCETS, FLUSH VALVES, & TMV'S.	X03	2005	--	--	15	8	7	\$0.00	--					
L-	PS002	PLUMBING FIXTURE REPLACEMENTS, SINKS, TOILETS AND URINALS.	X03	2005	--	--	40	8	32	\$0.00	--					
MECHANICAL SYSTEMS (may be packaged with BI item scope)												\$ 43,851	\$ 44,641	\$ 45,444	\$ 46,262	\$ 47,095
L-	MS001	AIR HANDLING UNIT REPLACEMENT.	UUU25	2005	--	--	40	8	32	\$0.00	--					
L-	MS002	STEAM HUMIDIFIER REPLACEMENT.	UUU25	2005	1	EA	15	8	7	\$10,800.00	\$ 10,800	\$ 12,020	\$ 12,237	\$ 12,457	\$ 12,681	\$ 12,909
L-	MS003	BOILER REPLACEMENT.	UUU22	2005	--	--	25	8	17	\$0.00	--					
L-	MS004	HEATING HOT WATER BOILER PUMPS.	UUU22	2005	--	--	20	8	12	\$0.00	--					
L-	MS005	HEATING SYSTEM PUMP REPLACEMENTS.	UUU22	2005	--	--	20	8	12	\$0.00	--					
L-	MS006	COOLING SYSTEM PUMP REPLACEMENTS.	UUU20	2005	--	--	20	8	12	\$0.00	--					
L-	MS007	DOMESTIC HOT WATER HEATER PUMP REPLACEMENT.	UUU24	2005	--	--	20	8	12	\$0.00	--					
L-	MS008	EXHAUST FAN MAINTENANCE/REPLACEMENTS.	UUU25	2005	--	--	20	8	12	\$0.00	--					
L-	MS009	RETURN AIR FAN REPLACEMENT.	UUU25	2005	--	--	25	8	17	\$0.00	--					
L-	MS010	VAV BOX MAINTENANCE/REPLACEMENTS.	UUU25	2005	--	--	20	8	12	\$0.00	--					
L-	MS011	UNIT HEATER REPLACEMENTS.	UUU25	2005	--	--	25	8	17	\$0.00	--					
L-	MS012	CABINET UNIT HEATER REPLACEMENTS.	UUU25	2005	--	--	25	8	17	\$0.00	--					
L-	MS013	HVAC SYSTEM CLEANING.	UUU25	2005	24,000	SF	10	8	2	\$1.15	\$ 27,600	\$ 30,718	\$ 31,271	\$ 31,834	\$ 32,407	\$ 32,990
L-	MS014	SPLIT SYSTEM A/C UNIT REPLACEMENT.	UUU25	2011	--	--	15	2	13	\$0.00	--					
L-	MS015	BAS UPGRADE	UUU06	2005	--	--	20	8	12	\$0.00	--					
L-	MS016	INCREASE BOILER AND WATER HEATER STACK HEIGHT TO MEET CODE	UUU22	2005	1	LS	0	8	-8	\$1,000.00	\$ 1,000	\$ 1,113	\$ 1,133	\$ 1,153	\$ 1,174	\$ 1,195
ELECTRICAL SYSTEMS (may be packaged with BI item scope)												\$ 12,621	\$ 12,848	\$ 13,080	\$ 13,315	\$ 13,555
L-	ES001	BUILDING SERVICE TRANSFORMER	UUU04	2005	--	--	20	8	12	\$0.00	--					
L-	ES002	MAIN SWITCHBOARD.	UUU05	2004	--	--	20	9	11	\$0.00	--					
L-	ES003	STANDBY GENERATOR.	UUU25	2005	--	--	20	8	12	\$0.00	--					
L-	ES004	LIFE SAFETY AUTOMATIC TRANSFER SWITCH (ATS)	UUU25	2005	--	--	20	8	12	\$0.00	--					
L-	ES005	STANDBY POWER SYSTEMS AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2005	--	--	20	8	12	\$0.00	--					

SCHOOLCRAFT COLLEGE; BRADNER LIBRARY - SCHEDULED MAINTENANCE PROGRAM

ITEM			YEAR ITEM			AVG			TIME			ITEM			DEFERRED MAINTENANCE PLAN YEAR				
LOC	NO.	ITEM	FICM CODE	WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	ITEM UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023			
L-	ES006	ELECTRICAL DISTRIBUTION EQUIPMENT.	UUU05	2005	--	--	20	8	12	\$0.00	--								
L-	ES007	VARIABLE FREQUENCY DRIVE (VFD)	UUU25	2005	--	--	15	8	7	\$0.00	--								
L-	ES008	LIGHTING AND RECEPTACLE PANELBOARDS.	UUU05	2005	--	--	20	8	12	\$0.00	--								
L-	ES009	EXTERIOR BUILDING MOUNTED LIGHTING.	UUU25	2005	16	EA	20	8	12	\$708.75	\$ 11,340	\$ 12,621	\$ 12,848	\$ 13,080	\$ 13,315	\$ 13,555			
L-	ES010	EXIT LIGHTING.	W06	2005	--	--	20	8	12	\$0.00	--								
L-	ES011	CORRIDOR LIGHTING.	W06	2005	--	--	20	8	12	\$0.00	--								
L-	ES012	CLASSROOMS/MEETING ROOM LIGHTING.	110, 410, 420, 430 AND 440	2005	--	--	20	8	12	\$0.00	--								
L-	ES013	OFFICE LIGHTING.	300, 400 AND 455	2005	--	--	20	8	12	\$0.00	--								
L-	ES014	STORAGE AND UTILITY ROOM LIGHTING.	Y04	2005	--	--	20	8	12	\$0.00	--								
L-	ES015	VACANCY SENSOR LIGHTING CONTROLS.	110, 300, 410, 420, 430, 440 AND 455	2005	--	--	20	8	12	\$0.00	--								
BUILDING SYSTEMS (fire, security, IT/media infrastructure)												\$ -	\$ -	\$ -	\$ -	\$ -			
L-	BS001	FIRE ALARM SYSTEM MAIN AND REMOTE PANELS.	UUU07	2005	--	--	20	8	12	\$0.00	--								
L-	BS002	FIRE ALARM DEVICES.	UUU07	2005	--	--	20	8	12	\$0.00	--								
L-	BS003	BOILER ROOM EPO SYSTEM.	Y04	2005	--	--	20	8	12	\$0.00	--								
L-	BS004	PRIMAX CLOCK SYSTEM.	UUU25	2005	--	--	20	8	12	\$0.00	--								
L-	BS005	SECURITY SURVEILLANCE SYSTEM.	UUU14	2005	--	--	20	8	12	\$0.00	--								
L-	BS006	SECURITY ACCESS SYSTEM.	UUU14	2005	--	--	20	8	12	\$0.00	--								
L-	BS007	NETWORK CABLING.			1	LS	20	0	20	\$200.00	\$ 200	\$ 223	\$ 227	\$ 231	\$ 235	\$ 239			
SPECIALTY EQUIPMENT (food service, theatre, labs, shops)												\$ -	\$ -	\$ -	\$ -	\$ -			
L-	SE001	LIBRARY FURNITURE REPLACEMENT - ALLOWANCE.	430	VARIOUS	--	--	--	--	--	\$0.00	--								
ACCESSIBILITY IMPROVEMENTS																			
L-	AI001	NONE						--	--										
ANNUAL FUNDING REQUIREMENTS (ROUNDED):												\$ 474,200	\$ 482,735	\$ 491,425	\$ 500,270	\$ 509,275			

## SCHOOLCRAFT COLLEGE; MCDOWELL CENTER - SCHEDULED MAINTENANCE PROGRAM

SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:	2013
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<b>INFLATION RATE (%):</b>	1.8%
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### LEGEND

BUILDING SECTION (BUILDING TYPE)	BUILDING AGE (YRS)	BUILDING AREA (GSF)
MCDOWELL CENTER (ADMIN/CLASSROOM)	1994	66,746

YEAR: 2022	
MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:	\$ 2,473,834
REPLACEMENT VALUE FOR THE BUILDING:	\$ 18,649,600
FACILITY CONDITION INDEX (FCI):	16%






FCI	BUILDING CONDITION
FCI < 5%	GOOD
5% < FCI < 10%	FAIR
10% < FCI	POOR

ITEM NO. CODES
AI: ACCESSIBILITY IMPROVEMENT
BE: BUILDING EXTERIOR
BI: BUILDING INTERIOR
BS: BUILDING SYSTEM
ES: ELECTRICAL SYSTEM
MS: MECHANICAL SYSTEM
PS: PLUMBING SYSTEM
SG: SITE GROUNDS
SE: SPECIALTY EQUIPMENT

AVG: AVERAGE
CF: CUBIC FEET
CY: CUBIC YARDS
EA: EACH
EUL: ESTIMATED USEFUL LIFE
GSF: GROSS SQUARE FEET
LOC: LOCATION (SITE/BLDG)
PV: PRESENT VALUE
RUL: ESTIMATED USEFUL LIFE
SF: SQUARE FEET
SY: SQUARE YARDS
YRS: YEARS

### REMAINING USEFUL LIFE (RUL) BAROMETER

	RUL = 1 YEAR OR LESS
	RUL = 5 YEARS
	RUL = 10 YEARS OR GREATER

ITEM		FICM	YEAR ITEM	ITEM TOTAL	AVG	TIME	ITEM	SCHEDULED MAINTENANCE PLAN YEAR								
LOC	NO.		WAS PUT					ITEM	EUL	IN USE	RUL	UNIT	ITEM	2019	2020	2021
		CODE	INTO SERVICE	QUANTITY	UNITS	(YRS)	(YRS)	(YRS)	COST	FIRST COST						
BUILDING ENVELOPE (includes items exterior to building)												\$ 496,889	\$ 505,833	\$ 514,938	\$ 524,207	\$ 533,643
MC-	BE001	PRE-CAST STONE CLEANING (WALL PANELS AND WINDOW SILLS).	MMM16	2014	5,500	SF	20	0	20	\$1.35	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
MC-	BE002	EXTERIOR SEALANT MAINTENANCE.	MMM16	1994	8,000	LF	20	19	1	\$5.40	\$ 43,200	\$ 48,081	\$ 48,946	\$ 49,827	\$ 50,724	\$ 51,637
MC-	BE003	NORTHEAST PATIO SOFFIT REPAIRS.	MMM16	VARIOUS	1,000	SF	20	--	--	\$7.80	\$ 7,800	\$ 8,681	\$ 8,837	\$ 8,997	\$ 9,159	\$ 9,323
MC-	BE004	SLIDING DOOR REPAIRS - 1ST FLOOR.	W06	1994	3	EA	15	19	-4	\$500.00	\$ 1,500	\$ 1,669	\$ 1,700	\$ 1,730	\$ 1,761	\$ 1,793
MC-	BE005	SLIDING DOOR REPAIRS - 2ND FLOOR. INCLUDES WEST MAIN ENTRANCE SLIDER DOOR MODIFICATIONS TO LESSEN AIR INFILTRATION/EXFILTRATION.	W06	1994	2	EA	15	19	-4	\$1,500.00	\$ 3,000	\$ 3,339	\$ 3,399	\$ 3,460	\$ 3,523	\$ 3,586
MC-	BE006	DOCK REPAIRS; INCLUDING BOLLARD REPAIRS/REPLACEMENT AND ADDRESSING OF RAINWATER DRAINAGE ISSUES CONTRIBUTING TO DOCK CORROSION.	W04	2017	600	SF	15	0	-4	\$105.00	\$ -					
MC-	BE007	DOCK ROLL-UP DOOR REPLACEMENT.	W04	1994	110	SF	25	19	6	\$80.00	\$ 8,800	\$ 9,794	\$ 9,971	\$ 10,150	\$ 10,333	\$ 10,519
MC-	BE008	SKY LIGHT MAINTENANCE.	MMM16	1994	450	SF	25	19	6	\$10.00	\$ 4,500	\$ 5,008	\$ 5,099	\$ 5,190	\$ 5,284	\$ 5,379
MC-	BE009	REPLACEMENT OF PARAPET COPING AND FLASHINGS.	MMM16	1994	--	--	40	19	21	\$0.00	--					
MC-	BE010	SINGLE-PLY MEMBRANE REROOFING.	MMM16	1994	31,000	SF	25	19	6	\$12.00	\$ 372,000	\$ 414,028	\$ 421,480	\$ 429,067	\$ 436,790	\$ 444,652
MC-	BE011	EXTERIOR DOOR MAINTENANCE/REPLACEMENTS.	W06	1994	4	EA	25	19	6	\$550.00	\$ 2,200	\$ 2,449	\$ 2,493	\$ 2,537	\$ 2,583	\$ 2,630
MC-	BE012	EXTERIOR WINDOW REPLACEMENTS.	MMM16	1994	--	--	30	19	11	\$0.00	--					
MC-	BE013	STEEL DOOR LINTEL MAINTENANCE	MMM16	1994	1	EA	15	19	-4	\$750.00	\$ 750	\$ 835	\$ 850	\$ 865	\$ 881	\$ 896
MC-	BE014	DOCK LIFT MAINTENANCE	W04	1994	1	EA	20	19	1	\$1,500.00	\$ 1,500	\$ 1,669	\$ 1,700	\$ 1,730	\$ 1,761	\$ 1,793
MC-	BE015	EXTERIOR BRICK CLEANING	MMM16	1994	300	SF	20	19	1	\$4.00	\$ 1,200	\$ 1,336	\$ 1,360	\$ 1,384	\$ 1,409	\$ 1,434
BUILDING INTERIOR												\$ 341,072	\$ 347,211	\$ 353,461	\$ 359,824	\$ 366,300
MC-	BI001	REPLACEMENT OF CORRIDOR BOOTHS AND BENCHES WITH LAPTOP POWER.	650 AND W05	2015	3	EA	20	0	--	\$650.00	\$ -					

SCHOOLCRAFT COLLEGE; MCDOWELL CENTER - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM CODE	YEAR ITEM	ITEM TOTAL QUANTITY	ITEM UNITS	AVG	TIME	RUL (YRS)	ITEM	SCHEDULED MAINTENANCE PLAN YEAR					
LOC	NO.	ITEM		WAS PUT INTO SERVICE			EUL (YRS)	IN USE (YRS)		UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
MC-	BI002	WALL FINISH UPDATES - ALLOWANCE.	110, 210, 310, 350, W05, W06 AND X03	VARIOUS	66,764	SF	15	--	--	\$5.00	\$ 333,820	\$ -	\$ -	\$ -	\$ -	\$ -
MC-	BI003	TOILET ROOM UPGRADES.	X03	1994	6	EA	25	19	6	\$45,000.00	\$ 270,000	\$ 300,504	\$ 305,913	\$ 311,420	\$ 317,025	\$ 322,732
MC-	BI004	FLOOR FINISH UPDATES - ALLOWANCE.	110, 210, 310, 350, W05, W06 AND X03	VARIOUS	66,764	SF	15	--	--	\$7.00	\$ 467,348	\$ -	\$ -	\$ -	\$ -	\$ -
MC-	BI005	WOOD WALL CAP MAINTENANCE	W05	2015	150	LF	15	0	15	\$15.00	\$ -					
MC-	BI006	TOILET ROOM MIRRORS REPLACEMENT	X03	1994	27	EA	25	19	6	\$350.00	\$ 9,450	\$ 10,518	\$ 10,707	\$ 10,900	\$ 11,096	\$ 11,296
MC-	BI007	WOOD DOOR REPLACEMENTS	110, 210, 310 AND 350	1994	10	EA	50	19	31	\$850.00	\$ 8,500	\$ 9,460	\$ 9,631	\$ 9,804	\$ 9,980	\$ 10,160
MC-	BI008	CARPET REPLACEMENT	110, 210, 310 AND 350	VARIOUS	3,000	SF	15	--	--	\$6.00	\$ 18,000	\$ 20,034	\$ 20,394	\$ 20,761	\$ 21,135	\$ 21,515
MC-	BI009	ENTRANCE MAT REPAIR	W06	1994	50	SF	5	19	5	\$10.00	\$ 500	\$ 556	\$ 567	\$ 577	\$ 587	\$ 598
PLUMBING SYSTEMS (may be packaged with BI item scope)												\$ 2,309	\$ 2,351	\$ 2,393	\$ 2,436	\$ 2,480
MC-	PS001	DOMESTIC HOT WATER HEATER REPLACEMENT.	UUU24	2007	1	EA	10	6	4	\$1,500.00	\$ 1,500	\$ 1,669	\$ 1,700	\$ 1,730	\$ 1,761	\$ 1,793
MC-	PS002	DOMESTIC HOT WATER HEATER RECIRCULATION PUMP REPLACEMENT.	UUU24	1994	1	EA	10	19	-9	\$575.00	\$ 575	\$ 640	\$ 651	\$ 663	\$ 675	\$ 687
MECHANICAL SYSTEMS (may be packaged with BI item scope)												\$ 1,246,814	\$ 1,269,257	\$ 1,292,103	\$ 1,315,361	\$ 1,339,037
MC-	MS001	CHILLER REPLACEMENTS.	UUU20	1994	3	EA	30	19	11	\$65,000.00	\$ 195,000	\$ 217,031	\$ 220,937	\$ 224,914	\$ 228,963	\$ 233,084
MC-	MS002	BACK-UP A/C SYSTEM FOR TECH CLOSETS ON EACH FLOOR.	UUU25	NONE	3	EA	15	--	--	\$14,050.00	\$ 42,150	\$ 46,912	\$ 47,756	\$ 48,616	\$ 49,491	\$ 50,382
MC-	MS003	HVAC SYSTEMS CLEANING. WORK WAS PERFORMED AT EAST END OF FIRST FLOOR 2018 & 2019.	UUU25 / 2018 - MC105 SUITE DUCT SYSTEM CLEANING. 2019 - MC175 SUITE DUCT SYSTEM CLEANING.	NONE	0	SF	10	--	--	\$0.25						
MC-	MS004	AIR HANDLING UNIT, AH-1 REFURBISHMENT/RECOMMISSIONING.	UUU25	1994	1	EA	25	19	6	\$25,000.00	\$ 25,000	\$ 27,824	\$ 28,325	\$ 28,835	\$ 29,354	\$ 29,883
MC-	MS005	CONVERSION FROM LEGACY/PNEUMATIC TEMPERATURE CONTROLS TO SC STANDARD JCI TEMPERATURE CONTROLS NETWORK (DDC).	UUU06	1994 / 2014 / 2015	24,000	SF	20	--	--	\$4.50	\$ 108,000	\$ 120,202	\$ 122,365	\$ 124,568	\$ 126,810	\$ 129,093
MC-	MS006	ROOM MC17 SUMP PUMP MAINTENANCE/REPLACEMENT.	UUU16	1994	1	EA	15	19	-4	\$1,500.00	\$ 1,500	\$ 1,669	\$ 1,700	\$ 1,730	\$ 1,761	\$ 1,793
MC-	MS007	AIR HANDLING UNIT, AH-2 HOUSING REFURBISHMENT (SHEETMETAL OXIDATION).	UUU25	1994	1	EA	25	19	6	\$45,000.00	\$ 45,000	\$ 50,084	\$ 50,986	\$ 51,903	\$ 52,838	\$ 53,789
MC-	MS008	AIR HANDLING UNIT, AH-2 HEAT TRANSFER COIL REPLACEMENTS.	UUU25	1994	2	EA	25	19	6	\$3,500.00	\$ 7,000	\$ 7,791	\$ 7,931	\$ 8,074	\$ 8,219	\$ 8,367
MC-	MS009	CABINET UNIT HEATER REPLACEMENTS - STAIRWELLS.	W07	1994	6	EA	20	19	1	\$5,500.00	\$ 33,000	\$ 36,728	\$ 37,389	\$ 38,062	\$ 38,748	\$ 39,445
MC-	MS010	CABINET UNIT HEATER REPLACEMENTS - VESTIBULES.	W06	1994	6	EA	20	19	1	\$5,500.00	\$ 33,000	\$ 36,728	\$ 37,389	\$ 38,062	\$ 38,748	\$ 39,445

SCHOOLCRAFT COLLEGE; MCDOWELL CENTER - SCHEDULED MAINTENANCE PROGRAM


ITEM			FICM	YEAR ITEM	ITEM TOTAL	AVG	TIME	ITEM			SCHEDULED MAINTENANCE PLAN YEAR					
LOC	NO.	ITEM	CODE	WAS PUT INTO SERVICE	QUANTITY	ITEM UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
MC-	MS011	ZONING OF PERIMETER HOT WATER RADIANT HEATING SYSTEM FOR IMPROVED TEMPERATURE CONTROL IN VARIOUS CLASSROOM AND OFFICE AREAS.	UUU22	1994 / 2015	24,000	SF	20	--	--	\$4.00	\$ 96,000	\$ 106,846	\$ 108,769	\$ 110,727	\$ 112,720	\$ 114,749
MC-	MS012	ROOF-MOUNTED EXHAUST FAN, EFR-1 REPLACEMENT.	UUU25	1994	1	EA	20	19	1	\$2,750.00	\$ 2,750	\$ 3,061	\$ 3,116	\$ 3,172	\$ 3,229	\$ 3,287
MC-	MS013	ROOF-MOUNTED EXHAUST FAN, EFR-2 REPLACEMENT.	UUU25	1994	1	EA	20	19	1	\$1,250.00	\$ 1,250	\$ 1,391	\$ 1,416	\$ 1,442	\$ 1,468	\$ 1,494
MC-	MS014	BOILER REPLACEMENTS.	UUU22	1994	3	EA	25	19	6	\$85,500.00	\$ 256,500	\$ 285,479	\$ 290,618	\$ 295,849	\$ 301,174	\$ 306,595
MC-	MS015	HOT WATER HEATING PUMP MAINTENANCE/REPLACEMENTS.	UUU22	1994	2	EA	20	19	1	\$15,750.00	\$ 31,500	\$ 35,059	\$ 35,690	\$ 36,332	\$ 36,986	\$ 37,652
MC-	MS016	CHILLER ROOF-MOUNTED CONDENSING UNIT MAINTENANCE/REPLACEMENTS.	UUU20	1994	3	EA	20	19	1	\$13,500.00	\$ 40,500	\$ 45,076	\$ 45,887	\$ 46,713	\$ 47,554	\$ 48,410
MC-	MS017	CHILLED WATER PUMP MAINTENANCE/REPLACEMENTS.	UUU20	1994	3	EA	20	19	1	\$12,750.00	\$ 38,250	\$ 42,571	\$ 43,338	\$ 44,118	\$ 44,912	\$ 45,720
MC-	MS018	CABINET UNIT HEATER REPLACEMENTS.	UUU25	1994	18	EA	20	19	1	\$1,950.00	\$ 35,100	\$ 39,066	\$ 39,769	\$ 40,485	\$ 41,213	\$ 41,955
MC-	MS019	SUPPLY AIR FAN MAINTENANCE/REPLACEMENT.	UUU25	1994	1	EA	25	19	6	\$25,000.00	\$ 25,000	\$ 27,824	\$ 28,325	\$ 28,835	\$ 29,354	\$ 29,883
MC-	MS020	RETURN AIR FAN MAINTENANCE/REPLACEMENTS.	UUU25	1994	2	EA	25	19	6	\$15,000.00	\$ 30,000	\$ 33,389	\$ 33,990	\$ 34,602	\$ 35,225	\$ 35,859
MC-	MS021	UNIT HEATER REPLACEMENTS.	UUU25	1994	1	EA	20	19	1	\$3,750.00	\$ 3,750	\$ 4,174	\$ 4,249	\$ 4,325	\$ 4,403	\$ 4,482
MC-	MS022	VAV BOX REPLACEMENTS.	UUU25	1994 / 2014 /2015	25,714	EA	20	--	--	\$8.70	\$ 70,000	\$ 77,908	\$ 79,311	\$ 80,738	\$ 82,192	\$ 83,671
ELECTRICAL SYSTEMS (may be packaged with BI item scope)												\$ 206,179	\$ 209,890	\$ 213,668	\$ 217,515	\$ 221,430
MC-	ES001	BUILDING SERVICE TRANSFORMER.	UUU04	1994	1	EA	20	19	1	\$77,500.00	\$ 77,500	\$ 86,256	\$ 87,808	\$ 89,389	\$ 90,998	\$ 92,636
MC-	ES002	MAIN SWITCHBOARD.	UUU05	1994	--	--	20	19	1	\$0.00	--					
MC-	ES003	STANDBY GENERATOR.	UUU25	2008	1	EA	20	5	1	\$25,000.00	\$ 25,000	\$ 27,824	\$ 28,325	\$ 28,835	\$ 29,354	\$ 29,883
MC-	ES004	LIFE SAFETY AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2008	1	EA	20	5	1	\$10,000.00	\$ 10,000	\$ 11,130	\$ 11,330	\$ 11,534	\$ 11,742	\$ 11,953
MC-	ES005	STANDBY POWER SYSTEMS AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2016	1	EA	20	0	1	\$10,000.00						
MC-	ES006	ELECTRICAL DISTRIBUTION EQUIPMENT.	UUU05	1994	--	--	20	19	1	\$0.00	--					
MC-	ES007	VARIABLE FREQUENCY DRIVE (VFD).	UUU25	1994	4	EA	20	19	1	\$15,000.00	\$ 60,000	\$ 66,779	\$ 67,981	\$ 69,204	\$ 70,450	\$ 71,718
MC-	ES008	LIGHTING AND RECEPTACLE PANELBOARDS.	UUU05	1994	12	EA	20	19	1	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
MC-	ES009	EXTERIOR BUILDING MOUNTING LIGHTING.	UUU25	1994	15	EA	20	19	1	\$750.00	\$ 11,250	\$ 12,521	\$ 12,746	\$ 12,976	\$ 13,209	\$ 13,447
MC-	ES010	EXIT LIGHTING.	W06	1994 / 2015	--	--	20			\$0.00	--					
MC-	ES011	CORRIDOR LIGHTING.	W06	1994 / 2015	1	LS	20			\$500.00	\$ 500	\$ 556	\$ 567	\$ 577	\$ 587	\$ 598
MC-	ES012	CLASSROOMS/MEETING ROOM LIGHTING.	110, 210 AND 350	1994 / 2015	1	LS	20			\$500.00	\$ 500	\$ 556	\$ 567	\$ 577	\$ 587	\$ 598
MC-	ES013	OFFICE LIGHTING.	310	2015	0	LS	20	0	22	\$500.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
MC-	ES014	STORAGE AND UTILITY ROOM LIGHTING.	X01 AND Y04	1994	1	LS	20	19	1	\$500.00	\$ 500	\$ 556	\$ 567	\$ 577	\$ 587	\$ 598
MC-	ES015	VACANCY SENSOR LIGHTING CONTROLS.	110, 210, W06 AND W07	2015	0	LS	15	0	17	\$50,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
BUILDING SYSTEMS (fire, security, IT/media infrastructure)												\$ 5,565	\$ 5,665	\$ 5,767	\$ 5,871	\$ 5,977
MC-	BS001	FIRE ALARM SYSTEM MAIN AND REMOTE PANELS.	UUU07	1994	--	--	20	19	1	\$0.00	--					
MC-	BS002	FIRE ALARM DEVICES.	UUU07	2015	--	--	20	-2	22	\$0.00	--					
MC-	BS003	BOILER ROOM EPO SYSTEM.	Y04	NONE	1	EA	20	--	--	\$5,000.00	\$ 5,000	\$ 5,565	\$ 5,665	\$ 5,767	\$ 5,871	\$ 5,977
MC-	BS004	CLOCK SYSTEM.	UUU25	1994	--	--	20	19	1	\$0.00	--					
MC-	BS005	SECURITY SURVEILLANCE SYSTEM.	UUU14	2015	--	--	20	-2	22	\$0.00	--					

SCHOOLCRAFT COLLEGE; MCDOWELL CENTER - SCHEDULED MAINTENANCE PROGRAM

ITEM		FICM	YEAR ITEM	ITEM TOTAL	ITEM	AVG	TIME	RUL	ITEM	SCHEDULED MAINTENANCE PLAN YEAR						
LOC	NO.		WAS PUT			UNITS	EUL		IN USE	UNIT	ITEM	2019	2020	2021	2022	2023
		CODE	INTO SERVICE	QUANTITY		(YRS)	(YRS)	(YRS)	COST	FIRST COST						
MC-	BS006		UUU14 / 2018 - CODE BLUE PANIC BUTTONS ADDED TO 2ND FLR VP OFFICE SUITE.	2015 / 2021	--	--	20	0	22	\$0.00	--					
MC-	BS007		ABATE ABANDONED TWISTED PAIR NETWORK CABLING	UUU02	2015	0	LS	30	--	--	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -
MC-	BS008		CABLE TRAY AND CONDUIT PENETRATIONS INTO ROOM	Y04	2015	0	LS	30	--	--	\$7,500.00	\$ -	\$ -	\$ -	\$ -	\$ -
MC-	BS009		TELEPHONE BACKBOARD	UUU17	2015	0	LS	30	--	--	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -
MC-	BS010		BACK-UP A/C SYSTEM FOR TECH CLOSETS ON EACH FLOOR.	Y04	ONLY FOR MC14 - MDF AS OF 9/18/15.	1	LS	30	--	--	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -
MC-	BS011		WORKSPACE CLEARANCE	Y04	2015	0	LS	30	--	--	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -
MC-	BS012		EXISTING CATEGORY 5 NETWORK CABLING	UUU02	2015	0	LS	30	--	--	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -
SPECIALTY EQUIPMENT (food service, theatre, labs, shops)												\$ -	\$ -	\$ -	\$ -	\$ -
MC-	SE001		ELEVATOR MAJOR MAINTENANCE.	W02	2020	1	LS	25	0	25	\$8,686.00	\$ 8,686				
ACCESSIBILITY IMPROVEMENTS												\$ 4,624	\$ 4,708	\$ 4,792	\$ 4,879	\$ 4,966
MC-	AI001		BARRIER FREE DRINKING FOUNTAIN ADJUSTMENTS	W06	1994	6	EA	20	19	1	\$650.00	\$ 3,900	\$ 4,341	\$ 4,419	\$ 4,498	\$ 4,579
MC-	AI002		COAT RACK ADJUSTMENTS	X03	UNKNOWN	1	EA	20	--	--	\$255.00	\$ 255	\$ 284	\$ 289	\$ 294	\$ 305
ANNUAL FUNDING REQUIREMENTS (ROUNDED):												\$ 2,303,453	\$ 2,344,915	\$ 2,387,124	\$ 2,430,092	\$ 2,473,834

SCHOOLCRAFT COLLEGE; PHYSICAL EDUCATION - SCHEDULED MAINTENANCE PROGRAM

SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:					2013									
BUILDING SECTION (BUILDING TYPE)					BUILDING AGE (YRS)					BUILDING AREA (GSF)				
PHYSICAL EDUCATION (CLASSROOM)					1968					94,045				
YEAR: 2022														
MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:					\$ 3,422,051									
REPLACEMENT VALUE FOR THE BUILDING:					\$ 37,661,200									
FACILITY CONDITION INDEX (FCI):					9%									



FCI	BUILDING CONDITION
FCI < 5%	GOOD
5%< FCI< 10%	FAIR
10% < FCI	POOR

INFLATION RATE (%):		1.8%	
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ITEM NO. CODES	
AI: ACCESSIBILITY IMPROVEMENT	
BE: BUILDING EXTERIOR	
BI: BUILDING INTERIOR	
BS: BUILDING SYSTEM	
ES: ELECTRICAL SYSTEM	
MS: MECHANICAL SYSTEM	
PS: PLUMBING SYSTEM	
SG: SITE GROUNDS	
SE: SPECIALTY EQUIPMENT	

LEGEND	
AVG: AVERAGE	
CF: CUBIC FEET	
CY: CUBIC YARDS	
EA: EACH	
EUL: ESTIMATED USEFUL LIFE	
GSF: GROSS SQUARE FEET	
LOC: LOCATION (SITE/BLDG)	
PV: PRESENT VALUE	
RUL: ESTIMATED USEFUL LIFE	
SF: SQUARE FEET	
SY: SQUARE YARDS	
YRS: YEARS	
REMAINING USEFUL LIFE (RUL) BAROMETER	
	RUL = 1 YEAR OR LESS
	RUL = 5 YEARS
	RUL = 10 YEARS OR GREATER

DEFERRED MAINTENANCE PLAN YEAR																
ITEM		FICM		YEAR ITEM		AVG		TIME		ITEM						
LOC	NO.	ITEM	CODE	WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	ITEM UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
BUILDING ENVELOPE (includes items exterior to building)												\$ 712,025	\$ 724,841	\$ 737,888	\$ 751,170	\$ 764,691
PE-	BE001	PE ROOF REPLACEMENT - NORTHEAST MECHANICAL ROOM.	MMM16	1991	14,500	SF	25	22	3	\$22.95	\$ 332,775	\$ 370,371	\$ 377,038	\$ 383,825	\$ 390,734	\$ 397,767
PE-	BE002	PE NORTH ROOF REPLACEMENT (POOL)	MMM16	1993	11,500	SF	25	20	5	\$22.95	\$ 263,925	\$ 293,743	\$ 299,030	\$ 304,413	\$ 309,892	\$ 315,470
PE-	BE003	SINGLE-PLY MEMBRANE REROOFING.	MMM16	2002	--	--	25	11	14	\$0.00	--					
PE-	BE004	STANDING SEAM METAL ROOFING MAINTENANCE/REPLACEMENT.	MMM16	2002	--	--	50	11	39	\$0.00	--					
PE-	BE005	POLYURETHANE SPRAY FOAM ROOFING MAINTENANCE/REPLACEMENT.	MMM16	2007	--	--	15	6	9	\$0.00	--					
PE-	BE006	IMPROVEMENTS/REPAIRS TO NORTHWEST ENTRY.	W06	1968	1	LS	20	45	-25	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PE-	BE007	EXTERIOR MASONRY REPAIRS; INCLUDES ADDRESSING POPPING BRICK FACES AND TUCKPOINTING.	MMM16	2006	350	SF	15	7	8	\$25.00	\$ 8,750	\$ 9,739	\$ 9,914	\$ 10,092	\$ 10,274	\$ 10,459
PE-	BE008	WATERPROOFING NORTH SIDE OF RACQUETBALL COURTS.	520	2014	1,500	SF	25	0	25	\$6.75	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PE-	BE009	EAST VESTIBULE WITH SLIDER DOOR REDESIGN/REPLACEMENT.	W06	2021	1	LS	15	0	8	\$20,925.00	\$ 20,925					
PE-	BE010	REPLACE ORIGINAL METAL COPINGS/FLASHINGS.	MMM16	1968	1,150	LF	40	45	-5	\$20.25	\$ 23,288	\$ 25,918	\$ 26,385	\$ 26,860	\$ 27,343	\$ 27,836
PE-	BE011	EXTERIOR DOOR MAINTENANCE/REPLACEMENTS (EXCLUDES WORK ON OTHER EXTERIOR DOORS MENTIONED IN THIS SECTION).	110, 310, 350, 520 AND W06	2006	--	--	25	7	18	\$0.00	--					
PE-	BE012	EXTERIOR WINDOW REPLACEMENTS.	MMM16	2007	--	--	30	6	24	\$0.00	--					
PE-	BE013	MAIN (WEST) ENTRANCE DOORS/DOOR FRAMES REPLACEMENT.	W05	2006	--	--	25	7	18	\$0.00	--					
PE-	BE014	PE FITNESS CENTER EXTERIOR WINDOWS MAINTENANCE/REPLACEMENT.	520	2011	--	--	25	2	23	\$0.00	--					
PE-	BE015	EXTERIOR SEALANT REPLACEMENT	MMM16	2006	1	LS	20	7	13	\$10,000.00	\$ 10,000	\$ 11,130	\$ 11,330	\$ 11,534	\$ 11,742	\$ 11,953

SCHOOLCRAFT COLLEGE; PHYSICAL EDUCATION - SCHEDULED MAINTENANCE PROGRAM

ITEM			YEAR ITEM		AVG		TIME		ITEM		DEFERRED MAINTENANCE PLAN YEAR					
LOC	NO.	ITEM	FICM CODE	WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	ITEM UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
PE-	BE016	STEEL LINTEL MAINTENANCE.	MMM16	1968	6	LF	15	45	-30	\$10.80	\$ 65	\$ 72	\$ 73	\$ 75	\$ 76	\$ 77
PE-	BE017	CLEAN EXTERIOR BRICK EFFLORESCENCE	MMM16	1968	500	SF	10	45	-35	\$1.89	\$ 945	\$ 1,052	\$ 1,071	\$ 1,090	\$ 1,110	\$ 1,130
BUILDING INTERIOR												\$ 425,907	\$ 433,573	\$ 441,378	\$ 449,322	\$ 457,410
PE-	BI001	INSTALL METAL SERVICE PLATFORMS FOR SUSPENDED EQUIPMENT REQUIRING ROUTINE ACCESS FOR MAINTENANCE.	Y04	NONE	4	EA	50	--	--	\$13,500.00	\$ 54,000	\$ 60,101	\$ 61,183	\$ 62,284	\$ 63,405	\$ 64,546
PE-	BI002	INSTALL AT CATWALK SYSTEM ABOVE THE POOL CEILING FOR BETTER/SAFER ACCESS TO MAINTAIN LIGHT FIXTURES.	520	1968	1	LS	40	45	-5	\$27,000.00	\$ 27,000	\$ 30,050	\$ 30,591	\$ 31,142	\$ 31,703	\$ 32,273
PE-	BI003	POOL CEILING UPGRADE.	520	1968	10,640	SF	35	45	-10	\$5.67	\$ 60,329	\$ 67,145	\$ 68,353	\$ 69,584	\$ 70,836	\$ 72,111
PE-	BI004	TOILET ROOM UPGRADES; INCLUDING ADA IMPROVEMENTS.	X03	1968	680	SF	25	45	-20	\$54.00	\$ 36,720	\$ 40,869	\$ 41,604	\$ 42,353	\$ 43,115	\$ 43,892
PE-	BI005	WOOD SPECIALTY FLOOR REFINISHING.	520	VARIOUS	26,900	SF	10	--	--	\$1.69	\$ 45,461	\$ 50,597	\$ 51,508	\$ 52,435	\$ 53,379	\$ 54,340
PE-	BI006	TEAM ROOM UPGRADES.	525	VARIOUS	--	--	25	--	--	\$0.00	--					
PE-	BI007	FACULTY LOCKER ROOM UPGRADES.	525	VARIOUS	--	--	25	--	--	\$0.00	--					
PE-	BI008	WALL FINISH UPDATES - ALLOWANCE.	110, 310, 520, 525, W05, W06 AND X03	VARIOUS	--	--	15	--	--	\$0.00	--					
PE-	BI009	FLOOR FINISH UPDATES - ALLOWANCE.	110, 310, 520, 525 AND X03 / 2018 MAIN GYM & PE140	VARIOUS	--	--	15	--	--	\$0.00	--					
PE-	BI010	MAIN LOBBY CEILING AND LIGHTING UPGRADE.	W05	1968	2,500	SF	35	45	-10	\$17.67	\$ 44,175	\$ 49,166	\$ 50,051	\$ 50,952	\$ 51,869	\$ 52,802
PE-	BI011	WEST TERRAZZO STEP REPAIRS.	W05	2004	--	--	20	9	11	\$0.00	--					
PE-	BI012	MAIN GYM PAINTING.	520	UNKNOWN	18,400	SF	15	--	--	\$1.35	\$ 24,840	\$ 27,646	\$ 28,144	\$ 28,651	\$ 29,166	\$ 29,691
PE-	BI013	WOMEN'S LOCKER ROOM SHOWER/CHANGING AREA SPECIALTIES UPDATES (I.E. SHOWER CURTAINS, ADA FOLD-DOWN BENCHES, DISPENSERS).	525	2012	--	--	25	1	24	\$0.00	--					
PE-	BI014	MEN'S LOCKER ROOM SHOWER/CHANGING AREA SPECIALTIES UPDATES (I.E. SHOWER CURTAINS, ADA FOLD-DOWN BENCHES, DISPENSERS).	525	2012	--	--	25	1	24	\$0.00	--					
PE-	BI015	PE FITNESS CENTER CARPET TILE REPLACEMENT.	520	2011	--	--	15	2	13	\$0.00	--					
PE-	BI016	PE FITNESS CENTER FINISH REPAIRS/UPGRADES - ALLOWANCE.	520	2011	--	--	15	2	13	\$0.00	--					
PE-	BI017	VCT FLOOR MAINTENANCE.	W06	2005	8	SF	35	8	27	\$4.73	\$ 38	\$ 42	\$ 43	\$ 44	\$ 44	\$ 45
PE-	BI018	STAIR HANDRAIL IMPROVEMENTS.	W07	1968	60	LF	20	45	-25	\$135.00	\$ 8,100	\$ 9,015	\$ 9,177	\$ 9,343	\$ 9,511	\$ 9,682
PE-	BI019	ACOUSTICAL CEILING REPLACEMENT.	520	2013	725	SF	35	0	35	\$4.32	\$ 3,132	\$ 3,486	\$ 3,549	\$ 3,612	\$ 3,677	\$ 3,744
PE-	BI020	CONDUIT ENTRANCE WATERPROOFING.	Y04	2011	1	LS	20	2	18	\$13,500.00	\$ 13,500	\$ 15,025	\$ 15,296	\$ 15,571	\$ 15,851	\$ 16,137
PE-	BI021	RACQUETBALL STAIR IMPROVEMENTS.	520	1968	1	LS	25	45	-20	\$20,250.00	\$ 20,250	\$ 22,538	\$ 22,943	\$ 23,356	\$ 23,777	\$ 24,205
PE-	BI022	POOL MECHANICAL ROOM CONCRETE REPAIRS.	Y04	1968	1	LS	25	45	-20	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PE-	BI023	DOOR REPLACEMENTS.	520, W05 AND Y04	1968	10	EA	50	45	5	\$3,037.50	\$ 30,375	\$ 33,807	\$ 34,415	\$ 35,035	\$ 35,665	\$ 36,307
PE-	BI024	DOOR HARDWARE REPAIR.	W06	1968	1	EA	30	45	-15	\$1,282.50	\$ 1,283	\$ 1,427	\$ 1,453	\$ 1,479	\$ 1,506	\$ 1,533
PE-	BI025	CARPET REPLACEMENT.	310, 350 AND 520	VARIOUS	1,900	SF	15	--	--	\$7.09	\$ 13,471	\$ 14,993	\$ 15,263	\$ 15,538	\$ 15,817	\$ 16,102
PE-	BI026	ENTRANCE MAT REPLACEMENT	W05 AND W06	UNKNOWN	420	SF	15	--	--	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PLUMBING SYSTEMS (may be packaged with BI item scope)												\$ 374,654	\$ 381,397	\$ 388,262	\$ 395,251	\$ 402,366
PE-	PS001	REPLACE PLASTIC PIPING ON POOL FILTRATION SYSTEM.	520	2004	75	LF	25	9	16	\$40.50	\$ 3,038	\$ 3,381	\$ 3,442	\$ 3,503	\$ 3,567	\$ 3,631

SCHOOLCRAFT COLLEGE; PHYSICAL EDUCATION - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM CODE	YEAR ITEM	ITEM TOTAL QUANTITY	ITEM UNITS	EUL (YRS)	TIME		ITEM	DEFERRED MAINTENANCE PLAN YEAR					
LOC	NO.	ITEM		WAS PUT INTO SERVICE				IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
PE-	PS002	WOMEN'S LOCKER ROOM SHOWER/CHANGING AREA PLUMBING FIXTURE UPDATES.	525	2012	--	--	40	1	39	\$0.00	--					
PE-	PS003	MEN'S LOCKER ROOM SHOWER/CHANGING AREA PLUMBING FIXTURE UPDATES.	525	2012	--	--	40	1	39	\$0.00	--					
PE-	PS004	GANG TOILET ROOM FIXTURE UPGRADES.	X03	1968	31	EA	40	45	-5	\$10,597.50	\$ 328,523	\$ 365,638	\$ 372,220	\$ 378,920	\$ 385,740	\$ 392,684
PE-	PS005	DOMESTIC WATER PIPE.	Y04	1968	150	LF	50	45	5	\$33.75	\$ 5,063	\$ 5,634	\$ 5,736	\$ 5,839	\$ 5,944	\$ 6,051
MECHANICAL SYSTEMS (may be packaged with BI item scope)												\$ 223,486	\$ 227,509	\$ 231,604	\$ 235,773	\$ 240,017
PE-	MS001	REPLACE AIR HANDLING UNIT, AH-9 CONVERTING FROM DX COOLING TO CHILLED WATER.	UUU25	2000	1	EA	40	13	27	\$21,600.00	\$ 21,600	\$ 24,040	\$ 24,473	\$ 24,914	\$ 25,362	\$ 25,819
PE-	MS002	POOL DRAIN TILE PUMP MAINTENANCE/REPLACEMENTS.	UUU25	2012	--	--	20	1	19	\$0.00	--					
PE-	MS003	BOILER LOOP PUMP (POOL HEATER) MAINTENANCE/REPLACEMENTS.	UUU22	2012	--	--	20	1	19	\$0.00	--					
PE-	MS004	BUILDING HWH LOOP MAINTENANCE/REPLACEMENT.	UUU22	2012	80,000	SF	2	1	1	\$49.95	\$ 3,996,000	\$ -	\$ -	\$ -	\$ -	\$ -
PE-	MS005	POOL WATER PUMP MAINTENANCE/REPLACEMENTS.	UUU22	2012	2	EA	20	1	19	\$29,025.00	\$ 58,050	\$ 64,608	\$ 65,771	\$ 66,955	\$ 68,160	\$ 69,387
PE-	MS006	BOILER LOOP PUMP (WATER HEATER) MAINTENANCE/REPLACEMENTS.	UUU22	2012	--	--	20	1	19	\$0.00	--					
PE-	MS007	DOMESTIC HOT WATER PUMP REPLACEMENTS.	UUU24	2012	--	--	20	1	19	\$0.00	--					
PE-	MS008	LAUNDRY HOT WATER PUMP MAINTENANCE/REPLACEMENT.	UUU24	2012	--	--	20	1	19	\$0.00	--					
PE-	MS009	LAUNDRY HOT WATER RETURN PUMP MAINTENANCE/REPLACEMENT.	UUU24	2012	--	--	5	1	4	\$0.00	--					
PE-	MS010	LAUNDRY WATER HEATER REPLACEMENT.	UUU24	2012	--	--	15	1	14	\$0.00	--					
PE-	MS011	ELECTRIC WATER HEATER REPLACEMENTS	UUU24	2012	--	--	10	1	9	\$0.00	--					
PE-	MS012	AIR HANDLING UNIT REPLACEMENTS - AH-2 THRU AH-8.	UUU25	2012	--	--	40	1	39	\$0.00	--					
PE-	MS013	LAUNDRY ROOM SUPPLY AIR FAN MAINTENANCE/REPLACEMENT.	UUU25	2012	1	EA	40	1	39	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PE-	MS014	CABINET UNIT HEATER REPLACEMENTS - GENERAL.	UUU25	2012	10	EA	30	1	29	\$6,750.00	\$ 67,500	\$ 75,126	\$ 76,478	\$ 77,855	\$ 79,256	\$ 80,683
PE-	MS015	UNIT HEATER REPLACEMENTS.	UUU25	2012	--	--	30	1	29	\$0.00	--					
PE-	MS016	BOILER REPLACEMENTS.	UUU22	2012	--	--	30	1	29	\$0.00	--					
PE-	MS017	CRAWL SPACE PROPELLER FAN REPLACEMENT.	UUU25	2012	--	--	20	1	19	\$0.00	--					
PE-	MS018	SAF-1 SYSTEM DUCT-MOUNTED HEATING COIL REPLACEMENTS.	UUU25	2012	--	--	25	1	24	\$0.00	--					
PE-	MS019	POOL WATER HEAT EXCHANGER MAINTENANCE/REPLACEMENT.	UUU22 / 2018 - REPLACED TUBE BUNDLE.	2012	--	--	25	1	24	\$0.00	--					
PE-	MS020	CHILLER MAINTENANCE/REPLACEMENTS.	UUU20 / 2018 - REPLACED COMPRESSOR 1 IN CHILLER 1 .	2012	--	--	20	1	19	\$0.00	--					
PE-	MS021	DOMESTIC WATER HEAT EXCHANGER.	UUU24	2012	--	--	20	1	19	\$0.00	--					
PE-	MS022	VAV BOX MAINTENANCE/REPLACEMENTS.	UUU25	2011	--	--	25	2	23	\$0.00	--					
PE-	MS023	AIR HANDLING UNIT REPLACEMENT, AH-1 THERMAL STORAGE LOOP CHILLED WATER PUMP MAINTENANCE/REPLACEMENTS.	UUU25	2011	--	--	40	2	38	\$0.00	--					
PE-	MS024	HVAC SYSTEMS CLEANING.	UUU25	2001	80,000	SF	10	12	-2	\$1.15	\$ 92,000	\$ -	\$ -	\$ -	\$ -	\$ -
PE-	MS025	JCI BAS SYSTEM.	UU06	2012	80,000	SF	20	1	19	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -


SCHOOLCRAFT COLLEGE; PHYSICAL EDUCATION - SCHEDULED MAINTENANCE PROGRAM

ITEM			YEAR ITEM		AVG		TIME		ITEM		DEFERRED MAINTENANCE PLAN YEAR					
LOC	NO.	ITEM	FICM CODE	WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	ITEM UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
PE-	MS026	HEATING HOT WATER PUMPS.	UUU22	2012	--	--	20	1	19	\$0.00	--					
PE-	MS027	CHW PUMPS.	UUU20	2012	--	--	20	1	19	\$0.00	--					
PE-	MS028	SUPPLY AND RETURN AIR GRILLES IN NATATORIUM.	520	1968	150	SF	25	45	-20	\$67.50	\$ 10,125	\$ 11,269	\$ 11,472	\$ 11,678	\$ 11,888	\$ 12,102
PE-	MS029	RETURN AIR FAN RAF-1.	UUU25	1968	1	EA	25	45	-20	\$6,075.00	\$ 6,075	\$ 6,761	\$ 6,883	\$ 7,007	\$ 7,133	\$ 7,261
PE-	MS030	EXHAUST FAN EF-3.	UUU25	1968	1	EA	25	45	-20	\$4,725.00	\$ 4,725	\$ 5,259	\$ 5,353	\$ 5,450	\$ 5,548	\$ 5,648
PE-	MS031	EXHAUST FAN EF-4.	UUU25	1968	1	EA	25	45	-20	\$4,725.00	\$ 4,725	\$ 5,259	\$ 5,353	\$ 5,450	\$ 5,548	\$ 5,648
PE-	MS032	ROOF MOUNTED HOODS.	UUU25	1968	14	EA	20	45	-25	\$2,000.00	\$ 28,000	\$ 31,163	\$ 31,724	\$ 32,295	\$ 32,877	\$ 33,468
ELECTRICAL SYSTEMS (may be packaged with BI item scope)												\$ 659,200	\$ 671,066	\$ 683,145	\$ 695,442	\$ 707,960
PE-	ES001	BUILDING SERVICE TRANSFORMER.	UUU04	2012	--	--	20	1	19	\$0.00	--					
PE-	ES002	MAIN SWITCHBOARD.	UUU05	2012	--	--	20	1	19	\$0.00	--					
PE-	ES003	STANDBY GENERATOR.	UUU25	2008	--	--	20	5	15	\$0.00	--					
PE-	ES004	LIFE SAFETY AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2008	--	--	20	5	15	\$0.00	--					
PE-	ES005	STANDBY POWER SYSTEMS AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2008	--	--	20	5	15	\$0.00	--					
PE-	ES006	ELECTRICAL DISTRIBUTION EQUIPMENT.	UUU05	2012	--	--	20	1	19	\$0.00	--					
PE-	ES007	VARIABLE FREQUENCY DRIVE (VFD) - GENERAL.	UUU25	2012	--	--	15	1	14	\$0.00	--					
PE-	ES008	VARIABLE FREQUENCY DRIVE (VFD) - MECHANICAL ROOM.	UUU25	2011	--	--	15	2	13	\$0.00	--					
PE-	ES009	LIGHTING AND RECEPTACLE PANELBOARDS.	UUU05	1968	1	LS	20	45	-25	\$94,000.00	\$ 94,000	\$ 104,620	\$ 106,503	\$ 108,420	\$ 110,372	\$ 112,358
PE-	ES010	EXTERIOR BUILDING MOUNTED LIGHTING.	UUU25	2008	--	--	20	5	15	\$0.00	--					
PE-	ES011	EXIT LIGHTING.	W06	2008	--	--	20	5	15	\$0.00	--					
PE-	ES012	CORRIDOR LIGHTING.	W06	1968	1	LS	20	45	-25	\$177,660.00	\$ 177,660	\$ 197,732	\$ 201,291	\$ 204,914	\$ 208,603	\$ 212,357
PE-	ES013	CLASSROOM LIGHTING.	110	2009	--	--	20	4	16	\$0.00	--					
PE-	ES014	LOCKER ROOM LIGHTING.	525	2012	1	LS	20	1	19	\$141,750.00	\$ 141,750	\$ 157,765	\$ 160,604	\$ 163,495	\$ 166,438	\$ 169,434
PE-	ES015	SHOWER ROOM LIGHTING.	525	2012	--	--	20	1	19	\$0.00	--					
PE-	ES016	STORAGE AND UTILITY ROOM LIGHTING.	X01 AND Y04	1968	1	LS	20	45	-25	\$47,250.00	\$ 47,250	\$ 52,588	\$ 53,535	\$ 54,498	\$ 55,479	\$ 56,478
PE-	ES017	VACANCY SENSOR LIGHTING CONTROLS (CLASSROOMS).	110	2009	--	--	20	4	16	\$0.00	--					
PE-	ES018	VACANCY SENSOR LIGHTING CONTROLS (CORRIDORS).	W05 AND W06	2012	1	LS	20	1	19	\$18,900.00	\$ 18,900	\$ 21,035	\$ 21,414	\$ 21,799	\$ 22,192	\$ 22,591
PE-	ES019	AEROBIC STUDIO LIGHTING.	520	2008	1	LS	20	5	15	\$14,175.00	\$ 14,175	\$ 15,776	\$ 16,060	\$ 16,350	\$ 16,644	\$ 16,943
PE-	ES020	MAIN GYM LIGHTING.	520	1968	1	LS	20	45	-25	\$98,550.00	\$ 98,550	\$ 109,684	\$ 111,658	\$ 113,668	\$ 115,714	\$ 117,797
PE-	ES021	FITNESS CENTER LIGHTING.	520	2012	--	--	20	1	19	\$0.00	--					
PE-	ES022	POOL LIGHTING.	520	2018	1	LS	20	0	20	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PE-	ES023	RACQUET BALL COURT LIGHTING. IMPROVEMENTS MADE TO THESE EXISTING FIXTURES ARE LIGHTING ELEMENT AND BALLAST CHANGES.	520	2012 W/ 2020 MAINTENANCE	--	--	30	1	29	\$0.00	--					
BUILDING SYSTEMS (fire, security, IT/media infrastructure)												\$ 490,700	\$ 499,532	\$ 508,524	\$ 517,677	\$ 526,996
PE-	BS001	MAGNETIC HOLD OPENS FOR CORRIDOR DOORS THAT AUTO RELEASE ON FIRE ALARM SYSTEM ACTIVATION.	UUU07	2014	8	EA	20	0	20	\$22,680.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PE-	BS002	FIRE ALARM SYSTEM MAIN AND REMOTE PANELS.	UUU07	2009	0	0	20	4	16	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PE-	BS003	FIRE ALARM DEVICES.	UUU07	2009	0	0	20	4	16	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PE-	BS004	BOILER EPO SYSTEM.	Y04	2012	0	0	20	1	19	\$3,375.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PE-	BS005	CLOCK SYSTEM.	UUU25	1968	1	LS	20	45	-25	\$82,506.00	\$ 82,506	\$ 91,827	\$ 93,480	\$ 95,163	\$ 96,876	\$ 98,620
PE-	BS006	SECURITY SURVEILLANCE SYSTEM.	UUU14	2004	1	LS	20	9	11	\$335,483.00	\$ 335,483	\$ 373,385	\$ 380,106	\$ 386,948	\$ 393,913	\$ 401,004
PE-	BS007	SECURITY ACCESS SYSTEM. COMPLETED 2021.	UUU14	2021	1	LS	20	0	11	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PE-	BS008	POOL BASEMENT CONDUITS.	UUU05	1968	1	LS	20	45	-25	\$10,000.00	\$ 10,000	\$ 11,130	\$ 11,330	\$ 11,534	\$ 11,742	\$ 11,953

SCHOOLCRAFT COLLEGE; PHYSICAL EDUCATION - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM	YEAR ITEM	ITEM TOTAL	ITEM	AVG	TIME	RUL	ITEM	DEFERRED MAINTENANCE PLAN YEAR					
LOC	NO.	ITEM	CODE	WAS PUT	QUANTITY	UNITS	(YRS)	(YRS)	(YRS)	COST	FIRST COST	2019	2020	2021	2022	2023
PE-	BS009	COMMUNICATION SYSTEMS.	UUU02	VARIOUS	20	EA	20	--	--	\$200.00	\$ 4,000	\$ 4,452	\$ 4,532	\$ 4,614	\$ 4,697	\$ 4,781
PE-	BS010	COMMUNICATION SYSTEMS.	UUU02	VARIOUS	1	EA	10	--	--	\$3,000.00	\$ 3,000	\$ 3,339	\$ 3,399	\$ 3,460	\$ 3,523	\$ 3,586
PE-	BS011	COMMUNICATION SYSTEMS.	UUU02	VARIOUS	1	LS	20	--	--	\$500.00	\$ 500	\$ 556	\$ 567	\$ 577	\$ 587	\$ 598
PE-	BS012	COMMUNICATION SYSTEMS.	UUU02	VARIOUS	24	EA	20	--	--	\$200.00	\$ 4,800	\$ 5,342	\$ 5,438	\$ 5,536	\$ 5,636	\$ 5,737
PE-	BS013	COMMUNICATION SYSTEMS.	UUU02	VARIOUS	24	EA	20	--	--	\$25.00	\$ 600	\$ 668	\$ 680	\$ 692	\$ 705	\$ 717
SPECIALTY EQUIPMENT (food service, theatre, labs, shops)												\$ 216,147	\$ 220,144	\$ 224,107	\$ 228,141	\$ 232,247
PE-	SE001	REPLACE COMMERCIAL WASHERS AND DRYERS WITH OZONE SYSTEM TO REDUCE WASHER HOT WATER USAGE.	525 / 1-OF-2 WASHERS AND 1-OF-2 DRYERS WERE REPLACED IN 2018.	1968	1	LS	20	45	-25	\$35,000.00	\$ 35,000	\$ 38,850	\$ 39,655	\$ 40,369	\$ 41,096	\$ 41,835
PE-	SE002	GYM BLEACHER REPLACEMENTS. WEST BLEACHERS WERE ELIMINATED.	520	1968	100	FT	30	45	-15	\$337.50	\$ 67,500	\$ 75,126	\$ 76,478	\$ 77,855	\$ 79,256	\$ 80,683
PE-	SE003	MAIN GYM BACKBOARD SYSTEM MAINTENANCE/REPLACEMENTS.	520	1968	8	EA	30	45	-15	\$6,075.00	\$ 48,600	\$ 54,091	\$ 55,064	\$ 56,056	\$ 57,065	\$ 58,092
PE-	SE004	MEN'S LOCKER ROOM LOCKER MAINTENANCE/REPLACEMENTS.	525	2009	--	--	25	4	21	\$0.00	--					
PE-	SE005	WOMEN'S LOCKER ROOM LOCKER MAINTENANCE/REPLACEMENTS.	525	2011	--	--	25	2	23	\$0.00	--					
PE-	SE006	PE FITNESS CENTER LOCKER MAINTENANCE/REPLACEMENTS.	520	2011	--	--	25	2	23	\$0.00	--					
PE-	SE007	EXTERIOR BUILDING SIGNAGE UPGRADE (COMPLIANCE WITH CURRENT COLLEGE BRANDING STANDARDS).	SSS16	VARIOUS	1	LS	25	--	--	\$43,200.00	\$ 43,200	\$ 48,081	\$ 48,946	\$ 49,827	\$ 50,724	\$ 51,637
ACCESSIBILITY IMPROVEMENTS												\$ 84,141	\$ 85,656	\$ 87,197	\$ 88,767	\$ 90,365
PE-	AI001	IMPROVE BARRIER-FREE ACCESS TO PE LEVELS AT WEST END OF BUILDING (I.E. WHEELCHAIR LIFTS)	W05 AND W06	NONE	1	LS	20	--	--	\$75,600.00	\$ 75,600	\$ 84,141	\$ 85,656	\$ 87,197	\$ 88,767	\$ 90,365
ANNUAL FUNDING REQUIREMENTS (ROUNDED):												\$ 3,186,259.98	\$ 3,243,718.36	\$ 3,302,105.50	\$ 3,361,543.76	\$ 3,422,050.82

SCHOOLCRAFT COLLEGE; RADCLIFF CENTER - SCHEDULED MAINTENANCE PROGRAM

SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:					2013									
BUILDING SECTION (BUILDING TYPE)					BUILDING AGE (YRS)					BUILDING AREA (GSF)				
RADCLIFF CENTER (CLASSROOM)					1960					87,433				
RADCLIFF CENTER (VEHICLE STORAGE)					1995					1,020				
YEAR: 2022														
MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:					\$ 7,507,489									
REPLACEMENT VALUE FOR THE BUILDING:					\$ 24,342,600									
FACILITY CONDITION INDEX (FCI):					31%									
					FCI					BUILDING CONDITION				
					FCI < 5%					GOOD				
					5%< FCI< 10%					FAIR				
					10% < FCI					POOR				
INFLATION RATE (%):					1.8%					LEGEND				
										AVG: AVERAGE				
										CF: CUBIC FEET				
										CY: CUBIC YARDS				
										EA: EACH				
										EUL: ESTIMATED USEFUL LIFE				
										GSF: GROSS SQUARE FEET				
										LOC: LOCATION (SITE/BLDG)				
										PV: PRESENT VALUE				
										RUL: ESTIMATED USEFUL LIFE				
										SF: SQUARE FEET				
										SY: SQUARE YARDS				
										YRS: YEARS				
										REMAINING USEFUL LIFE (RUL) BAROMETER				
										<div><div></div><div></div><div></div></div> <div>RUL = 1 YEAR OR LESS</div> <div>RUL = 5 YEARS</div> <div>RUL = 10 YEARS OR GREATER</div>				

DEFERRED MAINTENANCE PLAN YEAR																											
ITEM NO.		FICM CODE		YEAR ITEM WAS PUT INTO SERVICE		ITEM TOTAL QUANTITY		AVG EUL (YRS)		TIME IN USE (YRS)		RUL (YRS)		ITEM UNIT COST		ITEM FIRST COST		2019		2020		2021		2022		2023	
BUILDING ENVELOPE (includes items exterior to building)																	\$ 1,101,583	\$ 1,121,411	\$ 1,141,597	\$ 1,162,146	\$ 1,183,064						
RC-	BE001	EXTERIOR MASONRY REPAIRS.	MMM16	1960	--	--	75	53	22	\$0.00	--																
RC-	BE002	UPPER WALL INSULATION AND SIDING FOR EAST AND WEST COMMUNITY ROOM .	MMM16	1960	1,100	SF	35	53	-18	\$41.99	\$ 46,189	\$ 51,407	\$ 52,333	\$ 53,275	\$ 54,234	\$ 55,210											
RC-	BE003	NORTHEAST CANOPY REPAIRS - METAL FASCIA AND UNDERSIDE PREP/PAINTING.	MMM16	VARIOUS	2,150	SF	15	--	--	\$2.36	\$ 5,074	\$ 5,647	\$ 5,749	\$ 5,852	\$ 5,958	\$ 6,065											
RC-	BE004	EXTERIOR PAINTING.	MMM16	VARIOUS	1	LS	15	--	--	\$13,500.00	\$ 13,500	\$ 15,025	\$ 15,296	\$ 15,571	\$ 15,851	\$ 16,137											
RC-	BE005	SECTION A - SINGLE-PLY MEMBRANE REROOFING.	MMM16	2000	--	--	25	13	12	\$0.00	--																
RC-	BE006	SECTION B - SINGLE-PLY MEMBRANE REROOFING.	MMM16	2004	--	--	25	9	16	\$0.00	--																
RC-	BE007	SECTION C - SINGLE-PLY MEMBRANE REROOFING.	MMM16	2007	--	--	25	6	19	\$0.00	--																
RC-	BE008	SECTION D - SINGLE-PLY MEMBRANE REROOFING.	MMM16	1996	7,060	SF	25	17	8	\$16.20	\$ 114,372	\$ 127,294	\$ 129,585	\$ 131,917	\$ 134,292	\$ 136,709											
RC-	BE009	SECTION E - SINGLE-PLY MEMBRANE REROOFING.	MMM16	1997	11,550	SF	25	16	9	\$16.20	\$ 187,110	\$ 208,249	\$ 211,998	\$ 215,814	\$ 219,698	\$ 223,653											
RC-	BE010	SECTION F - SINGLE-PLY MEMBRANE REROOFING.	MMM16	2007	--	--	25	6	19	\$0.00	--																
RC-	BE011	SECTION G - SINGLE-PLY MEMBRANE REROOFING.	MMM16	1997	6,420	SF	25	16	9	\$16.20	\$ 104,004	\$ 115,754	\$ 117,838	\$ 119,959	\$ 122,118	\$ 124,316											
RC-	BE012	SECTION H - SINGLE-PLY MEMBRANE REROOFING.	MMM16	1998	14,230	SF	25	15	10	\$16.20	\$ 230,526	\$ 256,570	\$ 261,189	\$ 265,890	\$ 270,676	\$ 275,548											
RC-	BE013	SECTION I - SINGLE-PLY MEMBRANE REROOFING.	MMM16	1999	--	--	25	14	11	\$0.00	--																
RC-	BE014	EXTERIOR DOOR MAINTENANCE/REPLACEMENTS.	W05 AND W06	2008	--	--	25	5	20	\$0.00	--																
RC-	BE015	EXTERIOR DOOR REPLACEMENT ON GAS METER ROOM.	Y04	1960	1	EA	15	53	-38	\$3,037.50	\$ 3,038	\$ 3,381	\$ 3,442	\$ 3,503	\$ 3,567	\$ 3,631											
RC-	BE016	ARCHITECTURAL SCREENING OF ROOFTOP MECHANICAL EQUIPMENT.	MMM16	NONE	6,000	SF	35	--	--	\$27.00	\$ 162,000	\$ 180,302	\$ 183,548	\$ 186,852	\$ 190,215	\$ 193,639											
RC-	BE017	NORTHEAST CANOPY SKY LIGHT MAINTENANCE.	MMM16	1996	--	--	25	17	8	\$0.00	--																
RC-	BE018	EXTERIOR WINDOW REPLACEMENTS (EXCLUDING WINDOWS IDENTIFIED ELSEWHERE IN THIS SECTION).	MMM16	VARIOUS	--	--	30	--	--	\$0.00	--																
RC-	BE019	EXTERIOR WINDOW REPLACEMENTS FOR ROOMS PART OF 300 CORRIDOR, RC455, RC465, RC475, RC485, RC660, RC670, & RC680.	MMM16	2005	1,200	SF	30	8	22	\$87.75	\$ 105,300	\$ 117,197	\$ 119,306	\$ 121,454	\$ 123,640	\$ 125,865											

SCHOOLCRAFT COLLEGE; RADCLIFF CENTER - SCHEDULED MAINTENANCE PROGRAM

ITEM			YEAR ITEM			AVG			TIME			ITEM			DEFERRED MAINTENANCE PLAN YEAR				
LOC	NO.	ITEM	FICM CODE	WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	ITEM UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023			
RC-	BE020	EAST COURTYARD WINDOW REPLACEMENTS.	MMM16	2007	--	--	30	6	24	\$0.00	--								
RC-	BE021	WEST COURTYARD WINDOW REPLACEMENTS.	MMM16	2008	--	--	30	5	25	\$0.00	--								
RC-	BE022	NORTH EXTERIOR WINDOW REPLACEMENTS.	MMM16	2009	--	--	30	4	26	\$0.00	--								
RC-	BE023	EXTERIOR SEALANT MAINTENANCE.	MMM16	1960	1	LS	20	53	-33	\$13,500.00	\$ 13,500	\$ 15,025	\$ 15,296	\$ 15,571	\$ 15,851	\$ 16,137			
RC-	BE024	GUTTER REPLACEMENT.	MMM16	1960	250	LF	25	53	-28	\$10.80	\$ 2,700	\$ 3,005	\$ 3,059	\$ 3,114	\$ 3,170	\$ 3,227			
RC-	BE025	STEEL LINTEL MAINTENANCE.	MMM16	1960	8	LF	15	53	-38	\$10.80	\$ 86	\$ 96	\$ 98	\$ 100	\$ 101	\$ 103			
RC-	BE026	CANOPY POSTS MAINTENANCE.	MMM16	1960	7	EA	15	53	-38	\$337.50	\$ 2,363	\$ 2,629	\$ 2,677	\$ 2,725	\$ 2,774	\$ 2,824			
BUILDING INTERIOR												\$ 1,204,318	\$ 1,225,996	\$ 1,248,064	\$ 1,270,529	\$ 1,293,399			
RC-	BI001	CORRIDOR CEILING AND LIGHTING REPLACEMENT.	W05 AND W06	1960	16,385	SF	35	53	-18	\$4.32	\$ 70,783	\$ 78,780	\$ 80,198	\$ 81,642	\$ 83,111	\$ 84,607			
RC-	BI002	CORRIDOR LOCKER REPLACEMENTS.	W06	VARIOUS	430	EA	25	--	--	\$405.00	\$ 174,150	\$ 193,825	\$ 197,314	\$ 200,866	\$ 204,481	\$ 208,162			
RC-	BI003	TOILET ROOM UPGRADES; INCLUDING ADA COMPLIANCE IMPROVEMENTS.	X03	1960	1,680	SF	25	53	-28	\$108.00	\$ 181,440	\$ 201,939	\$ 205,574	\$ 209,274	\$ 213,041	\$ 216,876			
RC-	BI004	CORRIDOR VCT FLOORING REPLACEMENT.	W05 AND W06	2009	16,000	SF	35	4	31	\$4.73	\$ 75,680	\$ 84,230	\$ 85,746	\$ 87,290	\$ 88,861	\$ 90,460			
RC-	BI005	CLASSROOM CEILING UPGRADES FROM 12X12 SPLINE TO LAY-IN SYSTEM.	110 AND 210	1960	5,425	SF	35	53	-18	\$15.12	\$ 82,026	\$ 91,293	\$ 92,936	\$ 94,609	\$ 96,312	\$ 98,046			
RC-	BI006	INTERIOR DOOR MAINTENANCE/REPLACEMENTS.	110, 210, 310, 350, 430, 440, 610, X03 AND Y04	2007	25	EA	50	6	44	\$3,037.50	\$ 75,938	\$ 84,517	\$ 86,038	\$ 87,587	\$ 89,163	\$ 90,768			
RC-	BI007	PAINTING OF CMU HEADERS AND TREATMENT/PAINTING OF STEEL SUPPORTING STRUCTURE ABOVE EXTERIOR WINDOWS.	MMM16	VARIOUS	--	--	15	--	--	\$0.00	--								
RC-	BI008	WALK-OFF MATTING SYSTEM REPLACEMENTS AT EXTERIOR DOORS.	W05 AND W06	VARIOUS	8	EA	5	--	--	\$12,420.00	\$ 99,360	\$ 110,586	\$ 112,576	\$ 114,602	\$ 116,665	\$ 118,765			
RC-	BI009	WALL FINISH UPDATES - ALLOWANCE.	110, 210, 310, 350, 430, 440, 610, 615, X03 AND Y04	VARIOUS	--	--	--	--	--	\$0.00	--								
RC-	BI010	FLOOR FINISH UPDATES - ALLOWANCE.	110, 210, 310, 350, 430, 440, 610, 615, X03 AND Y04	VARIOUS	--	--	--	--	--	\$0.00	--								
RC-	BI011	CLASSROOM CEILING PAD CHANGEOUTS (WITHIN EXISTING CEILING GRID) TO SCHOOLCRAFT COLLEGE STANDARD LAY-IN TILES WITH HUMIDITY PROTECTION.	110 AND 210	VARIOUS	18,370	SF	35	--	--	\$4.32	\$ 79,358	\$ 88,324	\$ 89,914	\$ 91,532	\$ 93,180	\$ 94,857			
RC-	BI012	UPGRADE REMAINING, ORIGINAL STEEL INSTRUCTOR LOCKERS TO SCHOOLCRAFT COLLEGE STANDARD P-LAM LOCKER.	110 AND 210	1995	6	EA	25	18	7	\$371.25	\$ 2,228	\$ 2,479	\$ 2,524	\$ 2,569	\$ 2,615	\$ 2,663			
RC-	BI013	MALE LOCKER ROOM UPGRADES.	615	VARIOUS	820	SF	25	--	--	\$81.00	\$ 66,420	\$ 73,924	\$ 75,255	\$ 76,609	\$ 77,988	\$ 79,392			
RC-	BI014	COMMUNITY ROOM STAGE.	610	1960	50	EA	25	53	-28	\$607.50	\$ 30,375	\$ 33,807	\$ 34,415	\$ 35,035	\$ 35,665	\$ 36,307			
RC-	BI015	DOOR HARDWARE UPGRADES.	110, 210, 310, 350, 430, 440, 610, 615, X03 AND Y04	VARIOUS	40	EA	30	--	--	\$337.50	\$ 13,500	\$ 15,025	\$ 15,296	\$ 15,571	\$ 15,851	\$ 16,137			
RC-	BI016	CARPET REPLACEMENT.	110, 210, 310, 350, 430 AND 440	VARIOUS	18,450	SF	15	--	--	\$7.09	\$ 130,811	\$ 145,589	\$ 148,210	\$ 150,878	\$ 153,593	\$ 156,358			
PLUMBING SYSTEMS (may be packaged with BI item scope)												\$ 306,189	\$ 311,700	\$ 317,311	\$ 323,022	\$ 328,837			
RC-	PS001	DOMESTIC WATER PIPE.	UUU24	1960	20,000	SF	50	53	-3	\$9.00	\$ 180,000	\$ 200,336	\$ 203,942	\$ 207,613	\$ 211,350	\$ 215,154			
RC-	PS002	TOILET FIXTURES, LAVATORIES, URINALS, SINKS.	X03	1960	42	EA	40	53	-13	\$2,160.00	\$ 90,720	\$ 100,969	\$ 102,787	\$ 104,637	\$ 106,520	\$ 108,438			
RC-	PS003	MEN'S LOCKER SHOWER POLE.	615	1960	1	EA	20	53	-33	\$4,387.50	\$ 4,388	\$ 4,883	\$ 4,971	\$ 5,061	\$ 5,152	\$ 5,244			
MECHANICAL SYSTEMS (may be packaged with BI item scope)												\$ 2,660,273	\$ 2,708,158	\$ 2,756,905	\$ 2,806,529	\$ 2,857,047			

SCHOOLCRAFT COLLEGE; RADCLIFF CENTER - SCHEDULED MAINTENANCE PROGRAM

ITEM		FICM CODE	YEAR ITEM	ITEM TOTAL QUANTITY	ITEM UNITS	AVG	TIME	ITEM		DEFERRED MAINTENANCE PLAN YEAR						
LOC	NO.		WAS PUT INTO SERVICE			EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023	
RC-	MS001	CONVERT REMAINING PNEUMATIC TEMPERATURE CONTROLS TO SCHOOLCRAFT COLLEGE STANDARD JCI DDC TEMPERATURE CONTROLS NETWORK. \$18,545.84 OF UPGRADES PERFORMED IN 2019.	UU06	VARIOUS W/ UPGRADES PERFORMED 2019	87,000	SF	20	--	--	\$6.08	\$ 510,414	\$ 568,080	\$ 578,305	\$ 588,715	\$ 599,312	\$ 610,099
RC-	MS002	BOILER REPLACEMENTS.	UUU22	UNKNOWN	2	EA	30	--	--	\$11,137.50	\$ 22,275	\$ 24,792	\$ 25,238	\$ 25,692	\$ 26,155	\$ 26,625
RC-	MS003	DOMESTIC WATER BOILER.	UUU24	2013	1	EA	30	0	30	\$34,762.50	\$ 34,763	\$ 38,690	\$ 39,386	\$ 40,095	\$ 40,817	\$ 41,552
RC-	MS004	HOT WATER HEATING PUMPS.	UUU22	UNKNOWN	2	EA	20	--	--	\$29,025.00	\$ 58,050	\$ 64,608	\$ 65,771	\$ 66,955	\$ 68,160	\$ 69,387
RC-	MS005	SUMP PUMP.	UUU16	2012	1	EA	20	1	19	\$29,025.00	\$ 29,025	\$ 32,304	\$ 32,886	\$ 33,478	\$ 34,080	\$ 34,694
RC-	MS006	DRAIN TILE.	MMM16	1960	1	LS	50	53	-3	\$40,500.00	\$ 40,500	\$ 45,076	\$ 45,887	\$ 46,713	\$ 47,554	\$ 48,410
RC-	MS007	CEILING HUNG UNIT VENTILATOR.	UUU25	1960	1	LS	20	53	-33	\$21,600.00	\$ 21,600	\$ 24,040	\$ 24,473	\$ 24,914	\$ 25,362	\$ 25,819
RC-	MS008	WATER MAIN ISOLATION VALVE.	UUU24	1960	1	EA	25	53	-28	\$877.50	\$ 878	\$ 977	\$ 994	\$ 1,012	\$ 1,030	\$ 1,049
RC-	MS009	FUME HOOD CONTROLS.	210	1998	2	EA	10	15	-5	\$2,000.00	\$ 4,000	\$ 4,452	\$ 4,532	\$ 4,614	\$ 4,697	\$ 4,781
RC-	MS010	FUME HOOD EXHAUST.	210	1998	1	EA	15	15	0	\$20,250.00	\$ 20,250	\$ 22,538	\$ 22,943	\$ 23,356	\$ 23,777	\$ 24,205
RC-	MS011	HORIZONTAL UNIT VENTILATORS AND ASSOCIATED WINDOW AIR CONDITIONERS.	UUU25	VARIOUS	9	EA	20	--	--	\$22,612.50	\$ 203,513	\$ 226,505	\$ 230,582	\$ 234,733	\$ 238,958	\$ 243,259
RC-	MS012	VERTICAL UNIT VENTILATORS.	UUU25	VARIOUS	1	EA	20	--	--	\$8,437.50	\$ 8,438	\$ 9,391	\$ 9,560	\$ 9,732	\$ 9,907	\$ 10,085
RC-	MS013	CARRIER AHR-145.	UUU25	2006	1	EA	15	7	8	\$26,325.00	\$ 26,325	\$ 29,299	\$ 29,827	\$ 30,363	\$ 30,910	\$ 31,466
RC-	MS014	TRANE AHR-425.	UUU25	1992	1	EA	15	21	-6	\$29,025.00	\$ 29,025	\$ 32,304	\$ 32,886	\$ 33,478	\$ 34,080	\$ 34,694
RC-	MS015	YORK AHR-130.	UUU25	1992	1	EA	15	21	-6	\$26,325.00	\$ 26,325	\$ 29,299	\$ 29,827	\$ 30,363	\$ 30,910	\$ 31,466
RC-	MS016	AAON UNIT ACR-125 AND ACR-135.	UUU25	2008	2	EA	15	5	10	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
RC-	MS017	GYM PEAK VENTS.	UUU25	1960	3	EA	15	53	-38	\$14,850.00	\$ 44,550	\$ 49,583	\$ 50,476	\$ 51,384	\$ 52,309	\$ 53,251
RC-	MS018	TRANE GYM/STAGE UNITS AHR-1, 2 AND 3.	UUU25	1994	3	EA	15	19	-4	\$51,975.00	\$ 155,925	\$ 173,541	\$ 176,665	\$ 179,845	\$ 183,082	\$ 186,378
RC-	MS019	TRANE AHR-240.	UUU25	UNKNOWN	1	EA	15	--	--	\$29,025.00	\$ 29,025	\$ 32,304	\$ 32,886	\$ 33,478	\$ 34,080	\$ 34,694
RC-	MS020	AAON ROOFTOP UNIT ACR-235.	UUU25	2008	1	EA	15	5	10	\$34,425.00	\$ 34,425	\$ 38,314	\$ 39,004	\$ 39,706	\$ 40,421	\$ 41,148
RC-	MS021	YORK AHR-250.	UUU25	UNKNOWN	1	EA	15	--	--	\$26,325.00	\$ 26,325	\$ 29,299	\$ 29,827	\$ 30,363	\$ 30,910	\$ 31,466
RC-	MS022	YORK AHR-260.	UUU25	1999	1	EA	15	14	1	\$29,025.00	\$ 29,025	\$ 32,304	\$ 32,886	\$ 33,478	\$ 34,080	\$ 34,694
RC-	MS023	YORK AHR-270.	UUU25	UNKNOWN	1	EA	1	--	--	\$30,375.00	\$ 30,375	\$ 33,807	\$ 34,415	\$ 35,035	\$ 35,665	\$ 36,307
RC-	MS024	YORK AHR-274.	UUU25	UNKNOWN	1	EA	15	--	--	\$30,375.00	\$ 30,375	\$ 33,807	\$ 34,415	\$ 35,035	\$ 35,665	\$ 36,307
RC-	MS025	YORK AHR-280.	UUU25	UNKNOWN	1	EA	15	--	--	\$34,425.00	\$ 34,425	\$ 38,314	\$ 39,004	\$ 39,706	\$ 40,421	\$ 41,148
RC-	MS026	SOUTH END GAS-FIRED CHILLERS WC-27A, B AND C.	UUU25	2006	3	EA	15	7	8	\$37,125.00	\$ 111,375	\$ 123,958	\$ 126,189	\$ 128,461	\$ 130,773	\$ 133,127
RC-	MS027	CARRIER MODULAR ROOFTOP UNIT AHR-320.	UUU25	2006	--	--	15	7	8	\$0.00	--					
RC-	MS028	TRANE AHR-460.	UUU25	1998	1	EA	15	15	0	\$57,375.00	\$ 57,375	\$ 63,857	\$ 65,007	\$ 66,177	\$ 67,368	\$ 68,580
RC-	MS029	AAON ACR-465.	UUU25	2009	--	--	15	4	11	\$0.00	--					
RC-	MS030	TRANE AHR-480.	UUU25	1998	1	EA	15	15	0	\$34,425.00	\$ 34,425	\$ 38,314	\$ 39,004	\$ 39,706	\$ 40,421	\$ 41,148
RC-	MS031	YORK AHR-675.	UUU25	1999	1	EA	15	14	1	\$77,625.00	\$ 77,625	\$ 86,395	\$ 87,950	\$ 89,533	\$ 91,145	\$ 92,785
RC-	MS032	YORK ARC-375 AND ACR-385.	UUU25	UNKNOWN	2	EA	15	--	--	\$27,675.00	\$ 55,350	\$ 61,603	\$ 62,712	\$ 63,841	\$ 64,990	\$ 66,160
RC-	MS033	TRANE AHR-625.	UUU25	1995	1	EA	15	18	-3	\$37,125.00	\$ 37,125	\$ 41,319	\$ 42,063	\$ 42,820	\$ 43,591	\$ 44,376
RC-	MS034	TRANE AHR-150.	UUU25	1992	1	EA	15	21	-6	\$43,875.00	\$ 43,875	\$ 48,832	\$ 49,711	\$ 50,606	\$ 51,517	\$ 52,444
RC-	MS035	NORTH END GAS CHILLERS WCR-11A AND WCR-11B.	UUU25	2004	2	EA	15	9	6	\$50,625.00	\$ 101,250	\$ 112,689	\$ 114,717	\$ 116,782	\$ 118,884	\$ 121,024
RC-	MS036	ROOF HOODS.	UUU25	VARIOUS	10	EA	30	--	--	\$20,250.00	\$ 202,500	\$ 225,378	\$ 229,435	\$ 233,565	\$ 237,769	\$ 242,049
RC-	MS037	ROOF MOUNTED EXHAUST FANS.	UUU25	VARIOUS	10	EA	25	--	--	\$16,200.00	\$ 162,000	\$ 180,302	\$ 183,548	\$ 186,852	\$ 190,215	\$ 193,639
RC-	MS038	CLEAN DUCTWORK.	UUU25	NONE	50,000	SF	10	--	--	\$1.15	\$ 57,500	\$ 63,996	\$ 65,148	\$ 66,321	\$ 67,515	\$ 68,730
RC-	MS039	SUSPENDED AIR HANDLING UNIT AH-220	UUU25	NONE	--	--	15	--	--	\$0.00	--					


SCHOOLCRAFT COLLEGE; RADCLIFF CENTER - SCHEDULED MAINTENANCE PROGRAM

ITEM		FICM	YEAR ITEM	ITEM TOTAL	AVG TIME				ITEM	DEFERRED MAINTENANCE PLAN YEAR							
LOC	NO.		WAS PUT		UNITS	EUL	IN USE	RUL	UNIT	ITEM	2019	2020	2021	2022	2023		
		ITEM	CODE	INTO SERVICE	QUANTITY					COST	FIRST COST						
ELECTRICAL SYSTEMS (may be packaged with BI item scope)												\$ 1,397,823	\$ 1,422,984	\$ 1,448,597	\$ 1,474,672	\$ 1,501,216	
RC-	ES001	BUILDING SERVICE TRANSFORMER.	UUU04	DTE	--	--	20	--	--	\$0.00	--						
RC-	ES002	MAIN SWITCHBOARD.	UUU05	1994	1	EA	20	19	1	\$25,000.00	\$ 25,000	\$ 27,824	\$ 28,325	\$ 28,835	\$ 29,354	\$ 29,883	
RC-	ES003	STANDBY GENERATOR.	UUU25	2004	--	--	20	9	11	\$0.00	--						
RC-	ES004	LIFE SAFETY AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2004	--	--	20	9	11	\$0.00	--						
RC-	ES005	STANDBY POWER SYSTEMS AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	NONE	--	--	20	--	--	\$0.00	--						
RC-	ES006	ELECTRICAL DISTRIBUTION EQUIPMENT.	UUU05	1960	2	EA	20	53	-33	\$81,000.00	\$ 162,000	\$ 180,302	\$ 183,548	\$ 186,852	\$ 190,215	\$ 193,639	
RC-	ES007	VARIABLE FREQUENCY DRIVE (VFD).		NONE	6	EA	20	--	--	\$6,750.00	\$ 40,500	\$ 45,076	\$ 45,887	\$ 46,713	\$ 47,554	\$ 48,410	
RC-	ES008	LIGHTING AND RECEPTACLE PANELBOARDS.	UUU05	1960	1	LS	20	53	-33	\$121,500.00	\$ 121,500	\$ 135,227	\$ 137,661	\$ 140,139	\$ 142,661	\$ 145,229	
RC-	ES009	EXTERIOR BUILDING MOUNTED LIGHTING.	UUU25	2004	26	EA	20	9	11	\$708.75	\$ 18,428	\$ 20,509	\$ 20,879	\$ 21,254	\$ 21,637	\$ 22,026	
RC-	ES010	EXIT LIGHTING.	W05 AND W06	1960	26	EA	20	53	-33	\$371.25	\$ 9,653	\$ 10,743	\$ 10,936	\$ 11,133	\$ 11,334	\$ 11,538	
RC-	ES011	CORRIDOR LIGHTING.	W05 AND W06	1960	1	LS	20	53	-33	\$202,500.00	\$ 202,500	\$ 225,378	\$ 229,435	\$ 233,565	\$ 237,769	\$ 242,049	
RC-	ES012	CLASSROOM LIGHTING.	110 AND 210	1994	1	LS	20	19	1	\$405,000.00	\$ 405,000	\$ 450,756	\$ 458,870	\$ 467,129	\$ 475,538	\$ 484,097	
RC-	ES013	OFFICE LIGHTING.	310 AND 350	1960	1	LS	20	53	-33	\$94,500.00	\$ 94,500	\$ 105,176	\$ 107,070	\$ 108,997	\$ 110,959	\$ 112,956	
RC-	ES014	STORAGE AND UTILITY ROOM LIGHTING.	X01 AND Y04	1960	1	LS	20	53	-33	\$6,750.00	\$ 6,750	\$ 7,513	\$ 7,648	\$ 7,785	\$ 7,926	\$ 8,068	
RC-	ES015	VACANCY SENSOR LIGHTING CONTROLS (CLASSROOMS).	110 AND 210	VARIOUS	1	LS	20	--	--	\$67,500.00	\$ 67,500	\$ 75,126	\$ 76,478	\$ 77,855	\$ 79,256	\$ 80,683	
RC-	ES016	VACANCY SENSOR LIGHTING CONTROLS (CORRIDORS).	W05 AND W06	NONE	1	LS	20	--	--	\$21,600.00	\$ 21,600	\$ 24,040	\$ 24,473	\$ 24,914	\$ 25,362	\$ 25,819	
RC-	ES017	MULTI-PURPOSE ROOM LIGHTING.	610	1960	1	LS	20	53	-33	\$13,500.00	\$ 13,500	\$ 15,025	\$ 15,296	\$ 15,571	\$ 15,851	\$ 16,137	
RC-	ES018	ROOF MOUNTED ELECTRICAL EQUIPMENT.	UUU05	1960	2	EA	20	53	-33	\$33,750.00	\$ 67,500	\$ 75,126	\$ 76,478	\$ 77,855	\$ 79,256	\$ 80,683	
BUILDING SYSTEMS (fire, security, IT/media infrastructure)												\$ 151,807	\$ 154,540	\$ 157,322	\$ 160,153	\$ 163,036	
RC-	BS001	FIRE ALARM SYSTEM MAIN AND REMOTE PANELS.	UUU07	2010	1	EA	20	3	17	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
RC-	BS002	FIRE ALARM DEVICES.	UUU07	2010	1	LS	20	3	17	\$20,250.00	\$ 20,250	\$ 22,538	\$ 22,943	\$ 23,356	\$ 23,777	\$ 24,205	
RC-	BS003	BOILER EPO SYSTEM.	Y04	NONE	1	EA	20	--	--	\$3,375.00	\$ 3,375	\$ 3,756	\$ 3,824	\$ 3,893	\$ 3,963	\$ 4,034	
RC-	BS004	CLOCK SYSTEM.	UUU25	1960	1	LS	20	53	-33	\$76,722.46	\$ 76,722	\$ 85,390	\$ 86,927	\$ 88,492	\$ 90,085	\$ 91,707	
RC-	BS005	SECURITY SURVEILLANCE SYSTEM.	UUU14 / 2018 - MULLION CAM AT S. END OF 600 CORRIDOR AND EAST END OF 300 CORRIDOR. CEILING CAMERA IN 600 CORRIDOR. CEILING CAMERAS AT 300/600 CORRIDOR INTERSECTION AND 300/200 CORRIDOR INTERSECTION.	2004	1	LS	20	9	11	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
RC-	BS006	SECURITY ACCESS SYSTEM.	UUU14 / 2018 - HEAD START PROGRAM, RC MAIN OFFICE, T-LAB, SCPD OFFICE CARD ACCESS. DEAN'S OFFICE CODE BLUE PANIC BUTTON.	2004	1	LS	20	9	11	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
RC-	BS007	LIGHTNING PROTECTION SYSTEM.	UUU25	NONE	1	LS	20	--	--	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

SCHOOLCRAFT COLLEGE; RADCLIFF CENTER - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM	YEAR ITEM	ITEM TOTAL	ITEM	AVG	TIME		ITEM	DEFERRED MAINTENANCE PLAN YEAR					
LOC	NO.	ITEM	CODE	WAS PUT INTO SERVICE			EUL	IN USE	RUL	UNIT	ITEM	2019	2020	2021	2022	2023
					QUANTITY	UNITS	(YRS)	(YRS)	(YRS)	COST	FIRST COST					
RC-	BS008	IT SYSTEMS.	UUU02	VARIOUS	144	EA	20	--	--	\$200.00	\$ 28,800	\$ 32,054	\$ 32,631	\$ 33,218	\$ 33,816	\$ 34,425
RC-	BS009	IT SYSTEMS.	UUU02	VARIOUS	96	EA	20	--	--	\$25.00	\$ 2,400	\$ 2,671	\$ 2,719	\$ 2,768	\$ 2,818	\$ 2,869
RC-	BS010	IT SYSTEMS.	UUU02	VARIOUS	--	--	20	--	--	\$0.00	--					
RC-	BS011	IT SYSTEMS.	UUU02	VARIOUS	1	LS	20	--	--	\$50.00	\$ 50	\$ 56	\$ 57	\$ 58	\$ 59	\$ 60
RC-	BS012	IT SYSTEMS.	UUU02	VARIOUS	24	EA	20	--	--	\$200.00	\$ 4,800	\$ 5,342	\$ 5,438	\$ 5,536	\$ 5,636	\$ 5,737
RC-	BS011	IT SYSTEMS.	UUU02	VARIOUS	36	EA	20	--	--	\$25.00	\$ 900	\$ 1,002	\$ 1,020	\$ 1,038	\$ 1,057	\$ 1,076
RC-	BS011	IT SYSTEMS.	UUU02	VARIOUS	60	EA	20	--	--	\$200.00	\$ 12,000	\$ 13,356	\$ 13,596	\$ 13,841	\$ 14,090	\$ 14,344
RC-	BS012	IT SYSTEMS.	UUU02	VARIOUS	38	EA	20	--	--	\$25.00	\$ 950	\$ 1,057	\$ 1,076	\$ 1,096	\$ 1,115	\$ 1,136
SPECIALTY EQUIPMENT (food service, theatre, labs, shops)												\$ 111,187	\$ 113,188	\$ 115,225	\$ 117,299	\$ 119,411
RC-	SE001	CANOPY SIGNAGE UPGRADE (COMPLIANCE WITH CURRENT COLLEGE BRANDING STANDARDS).	SSS16	1985	1	LS	15	28	-13	\$49,950.00	\$ 49,950	\$ 55,593	\$ 56,594	\$ 57,613	\$ 58,650	\$ 59,705
RC-	SE002	WEST ENTRY SIGNAGE UPGRADE (COMPLIANCE WITH CURRENT COLLEGE BRANDING STANDARDS).	SSS16	1985	1	LS	15	28	-13	\$49,950.00	\$ 49,950	\$ 55,593	\$ 56,594	\$ 57,613	\$ 58,650	\$ 59,705
ACCESSIBILITY IMPROVEMENTS												\$ 57,246	\$ 58,276	\$ 59,325	\$ 60,393	\$ 61,480
RC-	AI001	INSTALL ADA COMPLIANT CORRIDOR DOORWAY TO RC220 - WOMEN'S LOCKER ROOM.	555	1960	--	--	20	53	-33	\$0.00	--					
RC-	AI002	INSTALL ADA COMPLIANT CORRIDOR DOORWAY TO RC210 - MEN'S LOCKER ROOM.	555	1960	1	LS	20	53	-33	\$14,850.00	\$ 14,850	\$ 16,528	\$ 16,825	\$ 17,128	\$ 17,436	\$ 17,750
RC-	AI003	FIRE EXTINGUISHER CABINETS.	W06	1960	8	EA	50	53	-3	\$607.50	\$ 4,860	\$ 5,409	\$ 5,506	\$ 5,606	\$ 5,706	\$ 5,809
RC-	AI004	FEMALE LOCKER ROOM BARRIER FREE IMPROVEMENTS.	555	2010	1	LS	25	3	22	\$20,250.00	\$ 20,250	\$ 22,538	\$ 22,943	\$ 23,356	\$ 23,777	\$ 24,205
RC-	AI005	IMPROVE ACCESS TO RAISED PLATFORM.	110	2006	1	EA	20	7	13	\$2,025.00	\$ 2,025	\$ 2,254	\$ 2,294	\$ 2,336	\$ 2,378	\$ 2,420
RC-	AI006	IMPROVE ACCESS TO LAB BENCH.	210	1998	1	EA	20	15	5	\$9,450.00	\$ 9,450	\$ 10,518	\$ 10,707	\$ 10,900	\$ 11,096	\$ 11,296
ANNUAL FUNDING REQUIREMENTS (ROUNDED):												\$ 6,990,425	\$ 7,116,253	\$ 7,244,346	\$ 7,374,744	\$ 7,507,489

SCHOOLCRAFT COLLEGE; SERVICE BUILDING - SCHEDULED MAINTENANCE PROGRAM

SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:					2013					INFLATION RATE (%):					1.8%					LEGEND				
BUILDING SECTION (BUILDING TYPE)					BUILDING AGE (YRS)					BUILDING AREA (GSF)														
SERVICE BUILDING - TOTAL (ADMIN)										37,443														
SERVICE BUILDING - ORIGINAL					1963					4,243														
SERVICE BUILDING - N & S ADDITIONS					1969					29,262														
CAMPUS SECURITY POLICE ADDITION					2002					938														
BOOKSTORE EXPANSION					2011					3,000														
MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:					\$ 1,866,433					- YEAR: 2022														
REPLACEMENT VALUE FOR THE BUILDING:					\$ 9,375,000																			
FACILITY CONDITION INDEX (FCI):					20%																			
					FCI					BUILDING CONDITION														
					FCI < 5%					GOOD														
					5%< FCI< 10%					FAIR														
					10% < FCI					POOR														

SCHOOLCRAFT COLLEGE; SERVICE BUILDING - SCHEDULED MAINTENANCE PROGRAM

ITEM			YEAR ITEM			AVG			TIME			ITEM			DEFERRED MAINTENANCE PLAN YEAR				
LOC	NO.	ITEM	FICM CODE	WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	ITEM UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023			
SB-	BE019	LOADING DOCK STAIR PAINTING.	W04	1963	1	LS	15	50	-35	\$675.00	\$ 675	\$ 751	\$ 765	\$ 779	\$ 793	\$ 807			
SB-	BE020	LOADING DOCK STAIR CONCRETE REPAIR.	W04	1963	1	LS	25	50	-25	\$2,025.00	\$ 2,025	\$ 2,254	\$ 2,294	\$ 2,336	\$ 2,378	\$ 2,420			
SB-	BE021	EXTERIOR DOOR REPLACEMENT.	W06	VARIOUS	1	EA	15	--	--	\$5,500.00	\$ 5,500	\$ 6,121	\$ 6,232	\$ 6,344	\$ 6,458	\$ 6,574			
SB-	BE022	SERVICE YARD RETAINING WALL WATERPROOFING.	MMM09	1969	450	SF	25	44	-19	\$6.75	\$ 3,038	\$ 3,381	\$ 3,442	\$ 3,503	\$ 3,567	\$ 3,631			
SB-	BE023	ROOF SCREEN WALL MAINTENANCE.	MMM16	1969	60	SF	15	44	-29	\$3.38	\$ 203	\$ 226	\$ 230	\$ 234	\$ 238	\$ 242			
SB-	BE024	ROOF MOUNTED EQUIPMENT SAFETY IMPROVEMENTS.	MMM16	1969	20	LF	25	44	-19	\$150.00	\$ 3,000	\$ 3,339	\$ 3,399	\$ 3,460	\$ 3,523	\$ 3,586			
SB-	BE025	ROOF REPAIR.	MMM16	2004	100	SF	25	9	16	\$40.00	\$ 4,000	\$ 4,452	\$ 4,532	\$ 4,614	\$ 4,697	\$ 4,781			
BUILDING INTERIOR												\$ 40,517	\$ 41,246	\$ 41,989	\$ 42,744	\$ 43,514			
SB-	BI001	BOOKSTORE SLIDER DOOR MAINTENANCE/REPLACEMENTS.	660	2012	--	--	15	1	14	\$0.00	--								
SB-	BI002	BOOKSTORE WALK-OFF MATTING MAINTENANCE/REPLACEMENT.	660	2012	375	SF	5	1	4	\$62.10	\$ 23,288	\$ 25,918	\$ 26,385	\$ 26,860	\$ 27,343	\$ 27,836			
SB-	BI003	WALL FINISH UPDATES - ALLOWANCE.	310, 350, 660, 665, W05, W06 AND X03	VARIOUS	--	--	15	--	--	\$0.00	--								
SB-	BI004	FLOOR FINISH UPDATES - ALLOWANCE.	310, 350, 660, 665, W05, W06 AND X03	VARIOUS	--	--	15	--	--	\$0.00	--								
SB-	BI005	MODIFY DOORS ENTERING BOOKSTORE OFFICES FROM SALES FLOOR. DOORS FORMERLY WERE INSTALLED FOR BOOK STORAGE APPLICATION WITH SPECIAL CLOSURES AND GUARD RAILINGS.	660	1995	--	--	20	18	2	\$0.00	--								
SB-	BI006	REPLACE CARPET.	310	VARIOUS	1,850	SF	15	--	--	\$7.09	\$ 13,117	\$ 14,598	\$ 14,861	\$ 15,129	\$ 15,401	\$ 15,678			
PLUMBING SYSTEMS (may be packaged with BI item scope)												\$ 46,189	\$ 47,020	\$ 47,866	\$ 48,728	\$ 49,605			
SB-	PS001	GALVANIZED MAIN PIPING REPLACEMENT.	UUU24	1969	5,000	SF	50	44	6	\$5.00	\$ 25,000	\$ 27,824	\$ 28,325	\$ 28,835	\$ 29,354	\$ 29,883			
SB-	PS002	OIL SEPARATOR.	UUU13	1969	1	LS	25	44	-19	\$16,500.00	\$ 16,500	\$ 18,364	\$ 18,695	\$ 19,031	\$ 19,374	\$ 19,722			
SB-	PS003	TOILET FIXTURES, LAVATORIES, URINALS, SINKS.	X03	VARIOUS	12	EA	40	--	--	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
MECHANICAL SYSTEMS (may be packaged with BI item scope)												\$ 354,205	\$ 360,581	\$ 367,071	\$ 373,679	\$ 380,405			
SB-	MS001	HVAC SYSTEMS CLEANING.	UUU25	2009	10,000	SF	10	4	6	\$1.15	\$ 11,500	\$ 12,799	\$ 13,030	\$ 13,264	\$ 13,503	\$ 13,746			
SB-	MS002	CABINET UNIT HEATER REPLACEMENT.	UUU25	2009	--	--	20	4	16	\$0.00	--								
SB-	MS003	HEATING HOT WATER CIRCULATING PUMP MAINTENANCE/REPLACEMENTS.	UUU22	2009	--	--	20	4	16	\$0.00	--								
SB-	MS004	CHILLED WATER CIRCULATING PUMP MAINTENANCE/REPLACEMENTS.	UUU20	2009	--	--	20	4	16	\$0.00	--								
SB-	MS005	BOILER RECIRCULATING PUMP REPLACEMENTS.	UUU22	2009	--	--	20	4	16	\$0.00	--								
SB-	MS006	BOILER REPLACEMENTS.	UUU22	2009	--	--	25	4	21	\$0.00	--								
SB-	MS007	SHOP AIR COMPRESSOR MAINTENANCE/REPLACEMENT.	UUU25	2009	--	--	20	4	16	\$0.00	--								
SB-	MS008	SPLIT-SYSTEM A/C UNIT REPLACEMENTS.	UUU25	2009	--	--	15	4	11	\$0.00	--								
SB-	MS009	DOCK MAIL SORTING ROOM AIR CONDITIONING UNIT.	UUU25	2009	1	LS	15	4	11	\$8,000.00	\$ 8,000	\$ 8,904	\$ 9,064	\$ 9,227	\$ 9,393	\$ 9,562			
SB-	MS010	UNIT HEATER REPLACEMENTS.	UUU25	2009	--	--	20	4	16	\$0.00	--								
SB-	MS011	DUCT-MOUNTED REHEAT COIL REPLACEMENTS.	UUU22	2009	12	EA	15	4	11	\$2,025.00	\$ 24,300	\$ 27,045	\$ 27,532	\$ 28,028	\$ 28,532	\$ 29,046			
SB-	MS012	EXHAUST FAN MAINTENANCE/REPLACEMENTS.	UUU25	2009	8	EA	20	4	16	\$16,200.00	\$ 129,600	\$ 144,242	\$ 146,838	\$ 149,481	\$ 152,172	\$ 154,911			
SB-	MS013	OFFICE AH-4.	UUU25	2009	--	--	30	4	26	\$0.00	--								
SB-	MS014	BOOKSTORE AH-5.	UUU25	2009	--	--	30	4	26	\$0.00	--								
SB-	MS015	AIR-COOLED CHILLER.	UUU20	2009	1	EA	25	4	21	\$132,975.00	\$ 132,975	\$ 147,998	\$ 150,662	\$ 153,374	\$ 156,135	\$ 158,945			
SB-	MS016	PAINT SHOP MAKEUP AIR UNIT.	UUU25	2009	--	--	20	4	16	\$0.00	--								

SCHOOLCRAFT COLLEGE; SERVICE BUILDING - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM	YEAR ITEM	ITEM TOTAL	ITEM	AVG	TIME	ITEM	DEFERRED MAINTENANCE PLAN YEAR						
LOC	NO.	ITEM	CODE	WAS PUT INTO SERVICE	QUANTITY	UNITS	(YRS)	(YRS)	(YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
SB-	MS017	PAINT SHOP EXHAUST FAN.	UUU25	1969	1	EA	20	44	-24	\$11,875.00	\$ 11,875	\$ 13,217	\$ 13,455	\$ 13,697	\$ 13,943	\$ 14,194
SB-	MS018	AHU-1 AND AHU-2.	UUU25	2009	--	--	20	4	16	\$0.00	--					
ELECTRICAL SYSTEMS (may be packaged with BI item scope)												\$ 414,555	\$ 422,017	\$ 429,613	\$ 437,347	\$ 445,219
SB-	ES001	BUILDING SERVICE TRANSFORMER.	UUU04	2005	1	EA	20	8	12	\$35,000.00	\$ 35,000	\$ 38,954	\$ 39,655	\$ 40,369	\$ 41,096	\$ 41,836
SB-	ES002	MAIN SWITCHBOARD.	UUU05	2010	--	--	20	3	17	\$0.00	--					
SB-	ES003	STANDBY GENERATOR.	UUU25	2009	--	--	20	4	16	\$0.00	--					
SB-	ES004	LIFE SAFETY AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2009	--	--	20	4	16	\$0.00	--					
SB-	ES005	STANDBY POWER SYSTEMS AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2009	--	--	20	4	16	\$0.00	--					
SB-	ES006	ELECTRICAL DISTRIBUTION EQUIPMENT.	UUU05	1963	2	EA	20	50	-30	\$25,000.00	\$ 50,000	\$ 55,649	\$ 56,651	\$ 57,670	\$ 58,708	\$ 59,765
SB-	ES007	VARIABLE FREQUENCY DRIVE (VFD).	UUU25	2009	--	--	15	4	11	\$0.00	--					
SB-	ES008	LIGHTING AND RECEPTACLE PANELBOARDS.	UUU05	2010	--	--	20	3	17	\$0.00	--					
SB-	ES009	EXTERIOR BUILDING MOUNTED LIGHTING.	UUU25	2002	17	EA	20	11	9	\$708.75	\$ 12,049	\$ 13,410	\$ 13,651	\$ 13,897	\$ 14,147	\$ 14,402
SB-	ES010	EXIT LIGHTING.	W05 AND W06	2002	20	EA	2	11	-9	\$371.25	\$ 7,425	\$ 8,264	\$ 8,413	\$ 8,564	\$ 8,718	\$ 8,875
SB-	ES011	CORRIDOR LIGHTING.	W06	2002	1	LS	20	11	9	\$45,000.00	\$ 45,000	\$ 50,084	\$ 50,986	\$ 51,903	\$ 52,838	\$ 53,789
SB-	ES012	CLASSROOMS/MEETING ROOM LIGHTING.	350	2002	1	LS	20	11	9	\$160,000.00	\$ 160,000	\$ 178,077	\$ 181,282	\$ 184,545	\$ 187,867	\$ 191,248
SB-	ES013	OFFICE LIGHTING.	310	2002	1	LS	20	11	9	\$35,000.00	\$ 35,000	\$ 38,954	\$ 39,655	\$ 40,369	\$ 41,096	\$ 41,836
SB-	ES014	STORAGE AND UTILITY ROOM LIGHTING. COMPLETED - SB200, 120, 130, 70, 140, 150, 160, 100, 110, 119, 60, 210, 220, 75 UPGRADED LIGHTING 2018.	665, X01 AND Y04	2018	1	LS	20	0	20	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SB-	ES015	VACANCY SENSOR LIGHTING CONTROLS.	350, 665, W05, W06 AND X03	2002	1	LS	20	11	9	\$28,000.00	\$ 28,000	\$ 31,163	\$ 31,724	\$ 32,295	\$ 32,877	\$ 33,468
BUILDING SYSTEMS (fire, security, IT/media infrastructure)												\$ 127,213	\$ 129,503	\$ 131,834	\$ 134,207	\$ 136,623
SB-	BS001	FIRE ALARM SYSTEM MAIN AND REMOTE PANELS.	UUU07	2009	--	--	20	4	16	\$0.00	--					
SB-	BS002	FIRE ALARM DEVICES.	UUU07	2009	1	LS	20	4	16	\$15,000.00	\$ 15,000	\$ 16,695	\$ 16,995	\$ 17,301	\$ 17,613	\$ 17,930
SB-	BS003	BOILER ROOM EPO SYSTEM.	Y04	2010	--	--	20	3	17	\$0.00	--					
SB-	BS004	PRIMAX CLOCK SYSTEM.	UUU25	2011	--	--	20	2	18	\$0.00	--					
SB-	BS005	SECURITY SURVEILLANCE SYSTEM.	UUU14	2004	1	LS	20	9	11	\$70,000.00	\$ 70,000	\$ 77,908	\$ 79,311	\$ 80,738	\$ 82,192	\$ 83,671
SB-	BS006	SECURITY ACCESS SYSTEM. COMPLETED 2021.	UUU14	2004	--	--	20	9	11	\$0.00	--					
SB-	BS007	LIGHTNING PROTECTION SYSTEM.	UUU25	NONE	--	--	20	--	--	\$0.00	--					
SB-	BS008	IT SYSTEMS.	UUU02	VARIOUS	1	LS	20	--	--	\$500.00	\$ 500	\$ 556	\$ 567	\$ 577	\$ 587	\$ 598
SB-	BS009	IT SYSTEMS.	UUU02	VARIOUS	144	EA	20	--	--	\$200.00	\$ 28,800	\$ 32,054	\$ 32,631	\$ 33,218	\$ 33,816	\$ 34,425
SB-	BS010	IT SYSTEMS.	UUU02	VARIOUS	3	EA	20	--	--	\$300.00	\$ 900	\$ 1,002	\$ 1,020	\$ 1,038	\$ 1,057	\$ 1,076
SB-	BS011	IT SYSTEMS.	UUU02	VARIOUS	144	EA	20	--	--	\$25.00	\$ 3,600	\$ 4,007	\$ 4,079	\$ 4,152	\$ 4,227	\$ 4,303
SB-	BS012	IT SYSTEMS.	UUU02	VARIOUS	3	EA	20	--	--	\$50.00	\$ 150	\$ 167	\$ 170	\$ 173	\$ 176	\$ 179
SB-	BS013	IT SYSTEMS.	UUU02	VARIOUS	30	EA	20	--	--	\$100.00	\$ 3,000	\$ 3,339	\$ 3,399	\$ 3,460	\$ 3,523	\$ 3,586
SB-	BS014	IT SYSTEMS.	UUU02	VARIOUS	1	LS	20	--	--	\$500.00	\$ 500	\$ 556	\$ 567	\$ 577	\$ 587	\$ 598
SB-	BS015	IT SYSTEMS.	UUU02	VARIOUS	24	EA	20	--	--	\$200.00	\$ 4,800	\$ 5,342	\$ 5,438	\$ 5,536	\$ 5,636	\$ 5,737
SB-	BS016	IT SYSTEMS.	UUU02	VARIOUS	2	EA	20	--	--	\$50.00	\$ 100	\$ 111	\$ 113	\$ 115	\$ 117	\$ 120
SB-	BS017	IT SYSTEMS.	UUU02	VARIOUS	--	--	20	--	--	\$0.00	--					
SPECIALTY EQUIPMENT (food service, theatre, labs, shops)												\$ 379,359	\$ 386,187	\$ 393,138	\$ 400,215	\$ 407,419
SB-	SE001	GASOLINE PUMP WAS REPLACED IN 2014. FUEL STORAGE TANK AND SYSTEM CONTROL PANEL NEEDS UPGRADING TO LATEST REGULATION COMPLIANCE.	MMM12	1969	1	EA	15	44	-29	\$45,500.00	\$ 45,500	\$ 50,641	\$ 51,552	\$ 52,480	\$ 53,425	\$ 54,386
SB-	SE002	GARAGE LIFT REPLACEMENTS.	W04	VARIOUS	2	EA	20	--	--	\$75,000.00	\$ 150,000	\$ 166,947	\$ 169,952	\$ 173,011	\$ 176,125	\$ 179,295

SCHOOLCRAFT COLLEGE; SERVICE BUILDING - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM	YEAR ITEM	ITEM TOTAL	AVG	TIME	ITEM			DEFERRED MAINTENANCE PLAN YEAR					
LOC	NO.	ITEM	CODE	WAS PUT INTO SERVICE	QUANTITY	ITEM UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
SB-	SE003	DOCK LIFT AND BUMPER BLOCK REPLACEMENTS.	W04	VARIOUS	1	EA	20	--	--	\$28,475.00	\$ 28,475	\$ 31,692	\$ 32,263	\$ 32,843	\$ 33,434	\$ 34,036
SB-	SE004	BOOKSTORE LIFT MAINTENANCE/REPLACEMENT.	660	VARIOUS	1	EA	20	--	--	\$31,150.00	\$ 31,150	\$ 34,669	\$ 35,293	\$ 35,929	\$ 36,575	\$ 37,234
SB-	SE005	BOOKSTORE MILLWORK UPGRADES.	660	2012	--	--	20	1	19	\$0.00	--					
SB-	SE006	CARDBOARD COMPACTOR MAINTENANCE/REPLACEMENT.	665 AND W04	2002	1	EA	20	11	9	\$42,525.00	\$ 42,525	\$ 47,329	\$ 48,181	\$ 49,049	\$ 49,931	\$ 50,830
SB-	SE007	EXTERIOR BUILDING SIGNAGE UPGRADE (COMPLIANCE WITH CURRENT COLLEGE BRANDING STANDARDS).	SSS16	1969	1	LS	25	44	-19	\$43,200.00	\$ 43,200	\$ 48,081	\$ 48,946	\$ 49,827	\$ 50,724	\$ 51,637
SB-	SE008	MEN'S CHANGING AREA LOCKER REPLACEMENT.	725	1969	--	--	25	44	-19	\$0.00	--					
SB-	SE009	WOMEN'S CHANGING AREA LOCKER REPLACEMENT.	725	1969	--	--	25	44	-19	\$0.00	--					
ACCESSIBILITY IMPROVEMENTS																
SB-		NONE														
ANNUAL FUNDING REQUIREMENTS (ROUNDED):												\$ 1,737,886	\$ 1,769,168	\$ 1,801,013	\$ 1,833,431	\$ 1,866,433

SCHOOLCRAFT COLLEGE; VISTATECH CENTER/WATERMAN WING - SCHEDULED MAINTENANCE PROGRAM

SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:					2013					INFLATION RATE (%):					1.8%					LEGEND				
BUILDING SECTION (BUILDING TYPE)					BUILDING AGE (YRS)					BUILDING AREA (GSF)														
VISTATECH CENTER / WATERMAN WING - TOTAL (MULTI USE)										130,999														
WATERMAN - ORIGINAL					1965					35,870														
WATERMAN - EXPANSION					1981					7,948														
VISTATECH CENTER - TOTAL					2002					87,181														
VISTATECH CENTER - MEZZANINE MECHANICAL ROOM					2002					14,060														
MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:					\$ 12,223,875					- YEAR: 2022														
REPLACEMENT VALUE FOR THE BUILDING:					\$ 56,813,000																			
FACILITY CONDITION INDEX (FCI):					22%																			

SCHOOLCRAFT COLLEGE; VISTATECH CENTER/WATERMAN WING - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM	YEAR ITEM	ITEM TOTAL	AVG	TIME	ITEM			DEFERRED MAINTENANCE PLAN YEAR					
LOC	NO.	ITEM	CODE	WAS PUT INTO SERVICE	QUANTITY	ITEM UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
VT-	BE019	VT ICE CARVING DECK REPLACEMENT.	MMM16	2002	--	--	35	11	24	\$0.00	--					
VT-	BE020	WATERMAN FOOD SERVICE DOCK EDGE REPAIRS.	W04	2003	75	LF	20	10	10	\$229.50	\$ 17,213	\$ 19,157	\$ 19,502	\$ 19,853	\$ 20,210	\$ 20,574
BUILDING INTERIOR												\$ 141,211	\$ 143,753	\$ 146,341	\$ 148,975	\$ 151,656
VT-	BI001	MAIN STREET NORTH ENTRANCE VESTIBULE CARPET REPLACEMENT.	W06	2015	900	SF	5	0	5	\$7.09	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
VT-	BI002	VISTATECH ACOUSTICAL TREATMENTS REPAIR/REPLACEMENT ALONG MAIN STREET.	W05 AND W06	2002	800	SF	20	11	9	\$35.00	\$ 28,000	\$ 31,163	\$ 31,724	\$ 32,295	\$ 32,877	\$ 33,468
VT-	BI003	WALL FINISH UPDATES - ALLOWANCE. 2018 PAINTING WORK IN VT400, VT404, VT404A, VT404B, VT470. 2019 PAINTING WORK IN VT500.	110, 210, 310, 610, 615, 630, 635, 680, 685, W05, W06 AND X03	VARIOUS	--	--	--	--	--	\$0.00	--					
VT-	BI004	FLOOR FINISH UPDATES - ALLOWANCE. 2018 CARPET REPLACEMENT IN VT400, VT402, VT404, VT404A, VT404B, VT470. 2019 CARPET REPLACEMENT IN VT500. 2020 LOWER WATERMAN STUDENT ACTIVITIES SUITE CARPET REPLACEMENT.	110, 210, 310, 610, 615, 630, 635, 680, 685, W05, W06 AND X03	VARIOUS	--	--	--	--	--	\$0.00	--					
VT-	BI005	FURNITURE UPDATES IN VT - ALLOWANCE.	110, 210, 310, 610, 630, 680, 685, W05 AND W06	VARIOUS	--	--	--	--	--	\$0.00	--					
VT-	BI006	VISTATECH PRESENTATION ROOM FLOORING INSTALLATIONS.	610	2002	1,200	SF	15	11	4	\$7.09	\$ 8,508	\$ 9,469	\$ 9,640	\$ 9,813	\$ 9,990	\$ 10,170
VT-	BI007	MAIN STREET INTERIOR, RED STEEL PANEL SYSTEM REGASKETING.	W05 AND W06	2002	700	SF	25	11	14	\$6.75	\$ 4,725	\$ 5,259	\$ 5,353	\$ 5,450	\$ 5,548	\$ 5,648
VT-	BI008	VISTATECH PRESENTATION ROOM SEATING REPLACEMENT.	610	2002	--	--	20	11	9	\$0.00	--					
VT-	BI009	REPLACE/UPDATE HENRY'S BOOTHS AND BENCHES.	630	2013	125	LF	20	0	20	\$450.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
VT-	BI010	WATERMAN WING STONE WALL SYSTEM REPAIRS WITHIN SOUTH ENTRY VESTIBULE.	W07	2003	--	--	20	10	10	\$0.00	--					
VT-	BI011	REPLACEMENT OF LOWER WATERMAN STEEL STAIRWELL DOORS.	W07	1965	2	EA	50	48	2	\$4,800.00	\$ 9,600	\$ 10,685	\$ 10,877	\$ 11,073	\$ 11,272	\$ 11,475
VT-	BI012	LOWER WATERMAN MOVABLE DIVIDER WALL MAINTENANCE/REPLACEMENT.	670	2009	--	--	20	4	16	\$0.00	--					
VT-	BI013	VISTATECH DIPONIO ROOM MOVABLE DIVIDER WALL MAINTENANCE/REPLACEMENT.	610	2012	--	--	20	1	19	\$0.00	--					
VT-	BI014	WATERMAN WING STUDENT ACTIVITIES FURNITURE MAINTENANCE/UPDATES.	670	VARIOUS	--	--	--	--	--	\$0.00	--					
VT-	BI015	LOWER WATERMAN STORAGE AREA ASBESTOS CONTAINING VCT FLOORING ABATEMENT/REPLACEMENT.	730	--	--	SF	--	--	--	\$4.73	--					
VT-	BI016	AMERICAN HARVEST RESTAURANT FLOORING REPLACEMENT.	630	2003	2,130	SF	35	10	25	\$4.73	\$ 10,075	\$ 11,213	\$ 11,415	\$ 11,620	\$ 11,830	\$ 12,043
VT-	BI017	DIPONIO ROOM WALL FINISH UPDATES.	630	VARIOUS	--	--	--	--	--	\$0.00	--					
VT-	BI018	DIPONIO ROOM WALL FINISH UPDATES.	630	VARIOUS	--	--	--	--	--	\$0.00	--					
VT-	BI019	DIPONIO ROOM FURNITURE UPDATES.	630	VARIOUS	--	--	--	--	--	\$0.00	--					
VT-	BI020	VISTATECH INTERIOR DOOR REPLACEMENT.	635	2003	4	EA	50	10	40	\$1,450.00	\$ 5,800	\$ 6,455	\$ 6,571	\$ 6,690	\$ 6,810	\$ 6,933
VT-	BI021	WATERMAN SLIDING GLASS DOOR MAINTENANCE.	630	2003	70	LF	15	10	5	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
VT-	BI022	WATERMAN CARPET REPLACEMENT.	680 AND 685	2003	1,400	SF	15	10	5	\$7.09	\$ 9,926	\$ 11,047	\$ 11,246	\$ 11,449	\$ 11,655	\$ 11,865
VT-	BI023	WATERMAN UPGRADE CEILING.	670	2003	1,260	SF	35	10	25	\$4.32	\$ 5,443	\$ 6,058	\$ 6,167	\$ 6,278	\$ 6,391	\$ 6,506

SCHOOLCRAFT COLLEGE; VISTATECH CENTER/WATERMAN WING - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM	YEAR ITEM	ITEM TOTAL	ITEM	AVG	TIME	ITEM	DEFERRED MAINTENANCE PLAN YEAR						
LOC	NO.	ITEM	CODE	WAS PUT INTO SERVICE	QUANTITY	UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
VT-	BI024	WATERMAN FOLDING PARTITION MAINTENANCE/REPLACEMENT	680	2011	1,280	SF	20	2	18	\$35.00	\$ 44,800	\$ 49,861	\$ 50,759	\$ 51,673	\$ 52,603	\$ 53,550
PLUMBING SYSTEMS (may be packaged with BI item scope)												\$ -	\$ -	\$ -	\$ -	\$ -
VT-	PS001	WATERMAN TOILET ROOM FIXTURES, LAVATORIES, URINALS AND SINKS	X03	2003	18	EA	40	10	30	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
VT-	PS002	VISTATECH TOILET ROOM FIXTURES, LAVATORIES, URINALS AND SINKS	X03	2002	64	EA	40	11	29	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
MECHANICAL SYSTEMS (may be packaged with BI item scope)												\$ 3,483,789	\$ 3,546,497	\$ 3,610,334	\$ 3,675,320	\$ 3,741,476
VT-	MS001	VT BOILER REPLACEMENTS.	UUU22	2002	7	EA	15	11	4	\$53,325.00	\$ 373,275	\$ 415,447	\$ 422,925	\$ 430,538	\$ 438,287	\$ 446,176
VT-	MS002	VT HEATING HOT WATER PUMP REPLACEMENTS.	UUU22	2002	2	EA	20	11	9	\$30,375.00	\$ 60,750	\$ 67,613	\$ 68,830	\$ 70,069	\$ 71,331	\$ 72,615
VT-	MS003	VT CABINET UNIT HEATER REPLACEMENTS.	UUU25	2002	--	--	25	11	14	\$0.00	--					
VT-	MS004	VT DUCT HEATING COIL REPLACEMENTS.	UUU22	2002	--	--	25	11	14	\$0.00	--					
VT-	MS005	VT CHILLER REPLACEMENTS.	UUU20	2014	2	EA	20	0	20	\$379,700.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
VT-	MS006	VT CHILLED WATER PUMP REPLACEMENTS.	UUU20	2014	2	EA	20	0	20	\$36,525.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
VT-	MS007	VT AIR HANDLING UNIT REPLACEMENTS.	UUU25	2003	12	EA	30	10	20	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
VT-	MS008	VT TOILET EXHAUST FAN MAINTENANCE/REPLACEMENTS.	X03	2003	2	EA	20	10	10	\$14,025.00	\$ 28,050	\$ 31,219	\$ 31,781	\$ 32,353	\$ 32,935	\$ 33,528
VT-	MS009	VT ELECTRIC ROOM VENTILATION SYSTEM MAINTENANCE/REPLACEMENTS.	Y04	2002	--	--	20	11	9	\$0.00	--					
VT-	MS010	VT VAV BOX MAINTENANCE/REPLACEMENTS.	UUU25	2002	--	--	25	11	14	\$0.00	--					
VT-	MS011	VT SPLIT SYSTEM A/C REPLACEMENTS FOR TELECOM CLOSETS.	UUU25	2002	--	--	15	11	4	\$0.00	--					
VT-	MS012	VT WALK-IN COOLER REFRIGERATION EQUIPMENT MAINTENANCE/REPLACEMENTS.	635	2002	25	EA	15	11	4	\$42,625.00	\$ 1,065,625	\$ 1,186,017	\$ 1,207,366	\$ 1,229,098	\$ 1,251,222	\$ 1,273,744
VT-	MS013	VT KITCHEN EXHAUST FAN MAINTENANCE/REPLACEMENTS.	635	2002	19	EA	20	11	9	\$14,175.00	\$ 269,325	\$ 299,753	\$ 305,148	\$ 310,641	\$ 316,233	\$ 321,925
VT-	MS014	WATERMAN KITCHEN EXHAUST FAN MAINTENANCE/REPLACEMENTS.	635	2003	2	EA	20	10	10	\$14,175.00	\$ 28,350	\$ 31,553	\$ 32,121	\$ 32,699	\$ 33,288	\$ 33,887
VT-	MS015	WATERMAN WALK-IN COOLER REFRIGERATION EQUIPMENT MAINTENANCE/REPLACEMENTS.	635	VARIOUS	8	EA	15	--	--	\$37,125.00	\$ 297,000	\$ 330,555	\$ 336,505	\$ 342,562	\$ 348,728	\$ 355,005
VT-	MS016	WATERMAN AIRFLOW MEASURING STATION REPLACEMENTS.	UUU25	2003	2	EA	10	10	0	\$52,025.00	\$ 104,050	\$ 115,805	\$ 117,890	\$ 120,012	\$ 122,172	\$ 124,371
VT-	MS017	WATERMAN AIR HANDLING UNIT REPLACEMENTS.	UUU25	1965	2	EA	40	48	-8	\$32,025.00	\$ 64,050	\$ 71,286	\$ 72,569	\$ 73,876	\$ 75,205	\$ 76,559
VT-	MS018	WATERMAN DOMESTIC WATER BOILER REPLACEMENTS.	UUU24	2004	1	EA	15	9	6	\$45,225.00	\$ 45,225	\$ 50,334	\$ 51,240	\$ 52,163	\$ 53,102	\$ 54,058
VT-	MS019	HVAC SYSTEMS CLEANING.	UUU25	VARIOUS	35,000	SF	10	--	--	\$1.15	\$ 40,250	\$ 44,797	\$ 45,604	\$ 46,425	\$ 47,260	\$ 48,111
VT-	MS020	VT/WATERMAN MECHANICAL SYSTEMS RETRO COMMISSIONING .	UUU25	NONE	130,000	SF	10	--	--	\$2.50	\$ 325,000	\$ 361,718	\$ 368,229	\$ 374,857	\$ 381,604	\$ 388,473
VT-	MS021	WATERMAN BOILERS.			2	EA	20	2013	###	\$42,525.00	\$ 85,050	\$ 94,659	\$ 96,363	\$ 98,097	\$ 99,863	\$ 101,660
VT-	MS022	WATERMAN KITCHEN MAKEUP AIR UNITS.	635	2003	2	EA	20	10	10	\$125,550.00	\$ 251,100	\$ 279,469	\$ 284,499	\$ 289,620	\$ 294,833	\$ 300,140
VT-	MS023	VISTATECH DOMESTIC WATER HEATER.	UUU24	2002	2	EA	10	11	-1	\$46,525.00	\$ 93,050	\$ 103,563	\$ 105,427	\$ 107,324	\$ 109,256	\$ 111,223
ELECTRICAL SYSTEMS (may be packaged with BI item scope)												\$ 637,899	\$ 649,381	\$ 661,070	\$ 672,969	\$ 685,083
VT-	ES001	VT BUILDING SERVICE TRANSFORMER.	UUU04	2002	--	--	20	11	9	\$0.00	--					
VT-	ES002	VT MAIN SWITCHBOARD.	UUU05	2002	--	--	20	11	9	\$0.00	--					
VT-	ES003	VT STANDBY GENERATOR.	UUU25	2002	--	--	20	11	9	\$0.00	--					
VT-	ES004	VT LIFE SAFETY AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2002	--	--	20	11	9	\$0.00	--					
VT-	ES005	VT STANDBY POWER SYSTEMS ATS.	UUU25	2002	--	--	20	11	9	\$0.00	--					
VT-	ES006	VT ELECTRICAL DISTRIBUTION EQUIPMENT.	UUU05	2002	--	--	20	11	9	\$0.00	--					
VT-	ES007	VT VARIABLE FREQUENCY DRIVE (VFD). FIVE (5) VFDs WERE REPLACED IN 2014.	UUU25	VARIOUS	--	--	15	--	--	\$0.00	--					
VT-	ES008	VT LIGHTING AND RECEPTACLE PANELBOARDS.	UUU05	2002	--	--	20	11	9	\$0.00	--					

SCHOOLCRAFT COLLEGE; VISTATECH CENTER/WATERMAN WING - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM	YEAR ITEM		AVG	TIME	ITEM			DEFERRED MAINTENANCE PLAN YEAR					
LOC	NO.	ITEM	CODE	WAS PUT	ITEM TOTAL	ITEM	EUL	IN USE	RUL	UNIT	ITEM	2019	2020	2021	2022	2023
				INTO SERVICE	QUANTITY	UNITS	(YRS)	(YRS)	(YRS)	COST	FIRST COST					
VT-	ES009	VT PRESENTATION ROOM POWER AT SEATING AREA.	UUU05	NONE	1	LS	20	--	--	\$2,025.00	\$ 2,025	\$ 2,254	\$ 2,294	\$ 2,336	\$ 2,378	\$ 2,420
VT-	ES010	VT EXTERIOR BUILDING MOUNTED LIGHTING.	UUU25	2002	17	EA	20	11	9	\$708.75	\$ 12,049	\$ 13,410	\$ 13,651	\$ 13,897	\$ 14,147	\$ 14,402
VT-	ES011	VT EXIT LIGHTING.	W06	2002	--	--	20	11	9	\$0.00	--					
VT-	ES012	VT MAIN STREET CORRIDOR AND PUBLIC AREA LIGHTING.	W05 AND W06	2002	--	--	20	11	9	\$0.00	--					
VT-	ES013	VT TEACHING/WORKSPACE LIGHTING.	110 AND 210	2002	--	--	20	11	9	\$0.00	--					
VT-	ES014	VT OFFICE AND MEETING AREA LIGHTING. 2020 ETC LIGHTING CONTROLS UPGRADE (\$28,442.82)	310 AND 350	2002	--	--	20	11	9	\$0.00	--					
VT-	ES015	VT MAIN STREET EXTERIOR ENTRANCE CANOPY LIGHTING.	UUU10	2002	25	EA	20	11	9	\$708.75	\$ 17,719	\$ 19,721	\$ 20,076	\$ 20,437	\$ 20,805	\$ 21,179
VT-	ES016	VT MAIN STREET INTERIOR VESTIBULE LIGHTING.	W06	2002	6	EA	20	11	9	\$650.00	\$ 3,900	\$ 4,341	\$ 4,419	\$ 4,498	\$ 4,579	\$ 4,662
VT-	ES017	VT ICE CARVING DECK LIGHTING.	UUU25	2002	7	EA	20	11	9	\$743.00	\$ 5,201	\$ 5,789	\$ 5,893	\$ 5,999	\$ 6,107	\$ 6,217
VT-	ES018	VT AMERICAN HARVEST RESTAURANT LIGHTING. 2020 ETC LIGHTING CONTROLS UPGRADE (\$11,140.65)	630	2002	--	--	20	11	9	\$0.00	--					
VT-	ES019	VT DIPONIO ROOM LIGHTING. 2020 ETC LIGHTING CONTROLS UPGRADE (\$24,131.97)	610	2002	--	--	20	11	9	\$0.00	--					
VT-	ES020	VT STORAGE AND UTILITY ROOM LIGHTING.	X01 AND Y04	2002	--	--	20	11	9	\$0.00	--					
VT-	ES021	VT VACANCY SENSOR LIGHTING CONTROLS.	610	NONE	1	LS	20	--	--	\$25,000.00	\$ 25,000	\$ 27,824	\$ 28,325	\$ 28,835	\$ 29,354	\$ 29,883
VT-	ES022	VT VACANCY SENSOR LIGHTING CONTROLS.	110 AND 210	NONE	1	LS	20	--	--	\$50,000.00	\$ 50,000	\$ 55,649	\$ 56,651	\$ 57,670	\$ 58,708	\$ 59,765
VT-	ES023	VT MAIN STREET DAY LIGHTING CONTROLS.	W05 AND W06	NONE	1	LS	20	--	--	\$75,000.00	\$ 75,000	\$ 83,473	\$ 84,976	\$ 86,505	\$ 88,063	\$ 89,648
VT-	ES024	W BUILDING SERVICE TRANSFORMER.	UUU04	2002	--	--	20	11	9	\$0.00	--					
VT-	ES025	W MAIN SWITCHBOARD.	UUU05	1965	1	EA	20	48	-28	\$81,000.00	\$ 81,000	\$ 90,151	\$ 91,774	\$ 93,426	\$ 95,108	\$ 96,819
VT-	ES026	W STANDBY GENERATOR.		NONE	--	--	20	--	--	\$0.00	--					
VT-	ES027	W LIFE SAFETY AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2003	--	--	20	10	10	\$0.00	--					
VT-	ES028	W STANDBY POWER SYSTEMS ATS.	UUU25	2003	--	--	20	10	10	\$0.00	--					
VT-	ES029	W ELECTRICAL DISTRIBUTION EQUIPMENT.	UUU05	VARIOUS	2	EA	20	--	--	\$81,000.00	\$ 162,000	\$ 180,302	\$ 183,548	\$ 186,852	\$ 190,215	\$ 193,639
VT-	ES030	W VARIABLE FREQUENCY DRIVE (VFD).	UUU25	VARIOUS	1	LS	15	--	--	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
VT-	ES031	W LIGHTING AND RECEPTACLE PANELBOARDS (ORIGINAL).	UUU05	1965	4	LS	20	48	-28	\$25,000.00	\$ 100,000	\$ 111,298	\$ 113,301	\$ 115,341	\$ 117,417	\$ 119,530
VT-	ES032	W LIGHTING AND RECEPTACLE PANELBOARDS (NEWER).	UUU05	VARIOUS	--	--	20	--	--	\$0.00	--					
VT-	ES033	W EXTERIOR BUILDING MOUNTED LIGHTING.	UUU25	2003	6	EA	20	10	10	\$708.75	\$ 4,253	\$ 4,733	\$ 4,818	\$ 4,905	\$ 4,993	\$ 5,083
VT-	ES034	W EXIT LIGHTING.	W05 AND W06	2003	--	--	20	10	10	\$0.00	--					
VT-	ES035	W CORRIDOR LIGHTING.	W05 AND W06	2003	--	--	20	10	10	\$0.00	--					
VT-	ES036	W CLASSROOM LIGHTING. 2020 LIGHTING CONTROLS UPGRADE (\$17,897.53); INCLUDES HENRY'S CAFETERIA.		VARIOUS	--	--	20	--	--	\$0.00	--					
VT-	ES037	W OFFICE LIGHTING.	310	VARIOUS	--	--	20	--	--	\$0.00	--					
VT-	ES038	W STORAGE AND UTILITY ROOM LIGHTING.	X01 AND Y04	VARIOUS	1	LS	20	--	--	\$20,000.00	\$ 20,000	\$ 22,260	\$ 22,660	\$ 23,068	\$ 23,483	\$ 23,906
VT-	ES039	W VACANCY SENSOR LIGHTING CONTROLS.	110 AND 680	NONE	1	LS	20	--	--	\$15,000.00	\$ 15,000	\$ 16,695	\$ 16,995	\$ 17,301	\$ 17,613	\$ 17,930
BUILDING SYSTEMS (fire, security, IT/media infrastructure)												\$ 7,513	\$ 7,648	\$ 7,785	\$ 7,926	\$ 8,068
VT-	BS001	VT FIRE ALARM SYSTEM MAIN AND REMOTE PANELS.	UUU07	2003	--	--	20	10	10	\$0.00	--					
VT-	BS002	VT FIRE ALARM DEVICES.	UUU07	2010	--	--	20	3	17	\$0.00	--					
VT-	BS003	VT BOILER EPO SYSTEM.	Y04	NONE	1	EA	20	--	--	\$3,375.00	\$ 3,375	\$ 3,756	\$ 3,824	\$ 3,893	\$ 3,963	\$ 4,034
VT-	BS004	VT PRIMAX CLOCK SYSTEM.	UUU25	2002	--	--	20	11	9	\$0.00	--					
VT-	BS005	VT SECURITY SURVEILLANCE SYSTEM.	UUU14	2004	--	--	20	9	11	\$0.00	--					
VT-	BS006	VT SECURITY ACCESS SYSTEM. IMPROVEMENTS WERE MADE IN 2019.	UUU14	2004	--	--	20	9	11	\$0.00	--					
VT-	BS007	W FIRE ALARM SYSTEM MAIN AND REMOTE PANELS.	UUU07	2010	--	--	20	3	17	\$0.00	--					
VT-	BS008	W FIRE ALARM DEVICES.	UUU07	2010	--	--	20	3	17	\$0.00	--					
VT-	BS009	W BOILER EPO SYSTEM.	Y04	NONE	1	EA	20	--	--	\$3,375.00	\$ 3,375	\$ 3,756	\$ 3,824	\$ 3,893	\$ 3,963	\$ 4,034

SCHOOLCRAFT COLLEGE; VISTATECH CENTER/WATERMAN WING - SCHEDULED MAINTENANCE PROGRAM

ITEM			FICM	YEAR ITEM	ITEM TOTAL	AVG	TIME	ITEM		DEFERRED MAINTENANCE PLAN YEAR						
LOC	NO.	ITEM	CODE	WAS PUT INTO SERVICE	QUANTITY	ITEM UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020	2021	2022	2023
VT-	BS010	W CLOCK SYSTEM.	UUU25	1965	1	LS	20	48	-28	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
VT-	BS011	W SECURITY SURVEILLANCE SYSTEM.	UUU14	2004	1	LS	20	9	11	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
VT-	BS012	W SECURITY ACCESS SYSTEM. IMPROVEMENTS WERE MADE IN 2019.	UUU14	2004	1	LS	20	9	11	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SPECIALTY EQUIPMENT (food service, theatre, labs, shops)												\$ 180,803	\$ 184,058	\$ 187,371	\$ 190,743	\$ 194,177
VT-	SE001	FOOD SERVICE DISHWASHER REPLACEMENT.	635	1986	1	EA	20	27	-7	\$45,025.00	\$ 45,025	\$ 50,112	\$ 51,014	\$ 51,932	\$ 52,867	\$ 53,818
VT-	SE002	EXTERIOR BUILDING SIGNAGE UPGRADE (COMPLIANCE WITH CURRENT COLLEGE BRANDING STANDARDS).	SSS16	VARIOUS	1	LS	25	--	--	\$44,000.00	\$ 44,000	\$ 48,971	\$ 49,853	\$ 50,750	\$ 51,663	\$ 52,593
VT-	SE003	ELEVATOR MAJOR MAINTENANCE.	W02	1981	1	LS	25	32	-7	\$40,000.00	\$ 40,000	\$ 44,519	\$ 45,320	\$ 46,136	\$ 46,967	\$ 47,812
VT-	SE004	VT/WATERMAN COMMERCIAL KITCHEN EQUIPMENT REPLACEMENTS - ALLOWANCE.	635	VARIOUS	--	--	--	--	--	\$0.00	--					
VT-	SE005	VT CULINARY ARTS DOCK LEVELER REPLACEMENT.	635	2018	1	LS	20	0	20	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
VT-	SE006	DIPONIO ROOM STAGE LIGHTING SYSTEM UPGRADES.	610	VARIOUS	--	--	15	--	--	\$0.00	--					
VT-	SE007	STAGE LIGHTING UPGRADES.	610	2002	1	LS	15	11	4	\$5,000.00	\$ 5,000	\$ 5,565	\$ 5,665	\$ 5,767	\$ 5,871	\$ 5,977
VT-	SE008	WATERMAN FOOD SERVICE DOCK LEVELER MAINTENANCE	635	2003	1	LS	20	10	10	\$22,275.00	\$ 22,275	\$ 24,792	\$ 25,238	\$ 25,692	\$ 26,155	\$ 26,625
VT-	SE009	WATERMAN IT SYSTEMS	UUU02	VARIOUS	24	EA	20	--	--	\$200.00	\$ 4,800	\$ 5,342	\$ 5,438	\$ 5,536	\$ 5,636	\$ 5,737
VT-	SE010	WATERMAN IT SYSTEMS	UUU02	VARIOUS	48	EA	20	--	--	\$25.00	\$ 1,200	\$ 1,336	\$ 1,360	\$ 1,384	\$ 1,409	\$ 1,434
VT-	SE011	VISTATECH IT SYSTEMS	UUU02	VARIOUS	3	EA	20	--	--	\$50.00	\$ 150	\$ 167	\$ 170	\$ 173	\$ 176	\$ 179
VT-	SE012	VISTATECH IT SYSTEMS	UUU02	VARIOUS	--	--	20	--	--	\$0.00	--					
VT-	SE013	VISTATECH IT SYSTEMS	UUU02	VARIOUS	--	--	20	--	--	\$0.00	--					
VT-	SE014	VISTATECH IT SYSTEMS	UUU02	VARIOUS	--	--	20	--	--	\$0.00	--					
VT-	SE015	VISTATECH IT SYSTEMS	UUU02	VARIOUS	3	EA	20	--	--	\$50.00	\$ 150	\$ 167	\$ 170	\$ 173	\$ 176	\$ 179
VT-	SE016	VISTATECH IT SYSTEMS	UUU02	VARIOUS	--	--	20	--	--	\$0.00	--					
ACCESSIBILITY IMPROVEMENTS																
VT-		NONE														
ANNUAL FUNDING REQUIREMENTS (ROUNDED):												\$ 11,381,979	\$ 11,586,855	\$ 11,795,418	\$ 12,007,736	\$ 12,223,875

**Fiscal Year 2023  
Capital Outlay Project Request**

**Institution Name:** Schoolcraft College

**Project Title:** Forum Building Renovation and Expansion for Sciences and Fine Arts

**Project Focus:** Academic

**Type of Project:** Addition & Renovation

**Program Focus of Occupants:** Sciences with Fine Arts

**Building Area Calculations (approximates):**

**Current:** 55,516 Square Feet (natural sciences / fine arts mixed used)

**With Proposed Additions:** 32,500 square feet, 2-story addition with 13,200 square feet basement.

**Total Estimated Cost:** \$33,450,000 (Total Base Construction Cost with Construction Contingency).

**Estimated Start / Completion Dates:**

Construction: May 2023 – Start / August 2024 – Completion. Scope involves phased work within Forum Building that will be partially occupied throughout construction.

**Is the Five-Year Plan posted on the institutions public internet site?** Yes

**Is the requested project the top priority in the Five-Year Capital Plan?** Yes

**Is the requested project focused on a single, stand-alone facility?** Yes

**Project Purpose:**

1. To create dedicated and additional spaces for natural sciences.
2. Repurpose Forum Building instructional spaces vacated by Fine Arts programs for science.
3. Address the current need for more Biology and Physics offerings.
4. Modernize interior Forum Building laboratory spaces having 10-20 years of service life, while reconfiguring them to better support current instructional means and methods.

## **Project Scope:**

### Renovation of Forum Building

- Renovate / update toilet facilities.
- Reconfigure / expand Biology and Physics Labs.
- Reconfigure / update Chemistry Labs.
- Relocate / update Geology and Geography Labs.
- Upgrade Classrooms.
- Reconfigure / update faculty office bays.

### Addition Basement Basis

- Size: 13,200 SF @ 12-FT high.
- Primary Uses: Utility service entrances; main mechanical / electrical room(s); IT MDF closet; Facilities Management primary storage rooms; and Instructional Programs secondary storage.

### First & Second Floor Basis

- Size: 32,500 SF @ 12-FT high.
- Primary Uses: Space for instructional programs expansion.

### Additional New Construction - Greenhouse Relocation Basis

- Reasons: To permit interconnection between Forum Building and new building addition.
- Size: 1,125 SF (approx. twice the floor area of current greenhouse).
- Primary Uses: Biology.

### **Additional Information:**

- 1. How does the project enhance Michigan's job creation, talent enhancement, and economic growth initiatives on a local, regional, and/or statewide basis?**
  - a. Environmental scans indicate careers in Health Sciences in Southeast Michigan are high growth/high income fields. Many of these programs, such as Imaging related and Surgical Technology, require course work in Biology and Chemistry, which in turn require specialty classroom and laboratory space.
  - b. Additionally, the opportunity for renovated physics labs would provide better courses and equipment for our future engineers who are often the innovators within industry and the State and global automotive industry. There are numerous opportunities for these students within Southeast Michigan as they complete their program degrees.
  - c. Surrounded by the Great Lakes, Michigan is truly germane to the conversation and research in Earth and Environmental Sciences. Providing lab spaces for this newer discipline to Schoolcraft College, will engage students in the important work that lies ahead of us regionally in this area.
  
- 2. How does the project enhance the core academic and/or research mission of the institution?**
  - a. All students who earn an Associate's degree, tackle the MTA, earn credit for transfer, or participate in some occupational certificates at Schoolcraft College will need to take at least one Natural Science class. Many are required to take more than one. This strong foundation in general education Natural Sciences aligns directly with the core academic mission of Schoolcraft College.
  - b. Current offerings in Biology, Chemistry, Physics, and Earth & Environmental sciences are limited by physical space. Opportunities to grow programming in the Natural Sciences (e.g. green chemistry practices or climate science) as well as supportive labs for future occupational programming; including the Health Sciences (e.g. technical physics or general biology) will be impossible with current limitations.
  - c. New space will allow expansion in these current academic areas into the near future, but also account for possibilities to support future programming and even innovate into niche markets and transfer articulations that require strong science foundations (e.g. Geographic Information Systems and Sustainability programs).

- d. Finally, our current footprint and physical space limitations prohibit innovations among faculty and among students with regard to research. We have a vibrant system for Honors study and are introducing new ways students can conduct directed research with faculty that will prepare them for internships, transfer, and/or industry. These initiatives are impeded by overflowing spaces in the current Forum Building.

**3. How does the project support investment in or adaptive re-purposing of existing facilities and infrastructure?**

33,532 square feet of 55,000 square feet of 1963 constructed Forum Building would receive modernizations within existing building envelope.

**4. Does the project address or mitigate any current health/safety deficiencies relative to existing facilities? If yes, please indicate.**

Project Scope would include security system upgrades that involve ID card access system with emergency lockdown readers in each instructional space. The addition of higher resolution, CCTV security cameras would be included as well.

**5. How does the institution measure utilization of its existing facilities, and how does it compare relative to established benchmarks for educational facilities? How does the project help to improve the utilization of existing space and infrastructure, or conversely how does current utilization support the need for additional space and infrastructure?**

Schoolcraft College utilizes EMS software, an enterprise level scheduling solution to optimize the use of rooms and facilities. Within that software, we use an Academic Utilization Report to measure utilization of our existing facilities. Additionally, we recently used Ad Astra software to benchmark our utilization to national higher educational benchmarks. This project would benefit the college by supporting the recent addition of an array of medical programs that require more sections of courses such as physics, biology, and chemistry. The expansion of these locations would allow students to select courses that better fit their schedule through a broader series of offerings and help us manage waitlists that we are unable to address due to the lack of lab space.

**6. How does the institution intend to integrate sustainable design principles to enhance the efficiency and operations of the facility?**

It is intended that this project, at minimum, would employ these fundamental principles of sustainable building:

- Optimizing Site Potential by reuse of an existing building.
- Optimizing Energy Use by improving energy performance of an existing building. Starting with energy efficient light fixture upgrades and introducing daylighting and occupancy lighting control schemes.
- Optimize Building Space and Material Use by designing for use and reuse of building materials in a fashion most productive and sustainable.
- Enhancing Indoor Environmental Quality (IEQ) through updated ventilation systems.

**7. Are match resources currently available for the project? If yes, what is the source of the match resources? If no, identify the intended source and the estimated timeline for securing said resources.**

Sources based on Capital Outlay requirements at time of approval.

**8. If authorized for construction, the state typically provides a maximum of 75% of the total cost for university projects and 50% of the total cost for community college projects. Does the institution intend to commit additional resources that would reduce the state share from the amounts indicated? If so, by what amount?**

The college does not have any plans or sources at this time that would reduce the state's share from the amount indicated.

- 9. Will the completed project increase operation costs to the institution? If yes, please provide as estimate cost (annually, and over a five-year period) and indicate whether the institution has identified available funds to support the additional cost.**

Yes, the additional operating costs that may come from the Forum Building Renovation and Expansion for Sciences with Fine Arts project would be: custodial & supplies, utilities, maintenance & supplies, insurance, and security. These cost estimates are approximate:

**OPINION OF PROBABLE - ANNUAL OPERATING COSTS**

Custodial & Supplies	\$2.11/square foot
Utilities	\$1.94/square foot
Maintenance and Supplies	\$1.18/square foot
Insurance	\$ .13/square foot
Security	<u>\$1.74/square foot</u>
<b>Composite</b>	<b>\$7.10/square foot</b>
<b>Annual Estimated Cost</b>	<b>\$245,660 (for 34,600 square feet)</b>
<b>Five-Year Estimated Cost</b>	<b>\$1,228,300</b>

The College receives free natural gas from the oil well it houses on campus, which helps offset the additional utility cost.

- 10. What impact, if any, will the project have on tuition costs?**

Tuition costs will increase by this project. The extent is undetermined at present.

- 11. If this project is not authorized, what are the impacts to the institution and its students?**

If this project was not authorized, Schoolcraft College, students, as well as the community, would be effected for these primary reasons.

- ADA compliance-improvements for toilet rooms and addressing original, ramped corridor floors too steep for barrier-free ramp slope compliance.
- Shortage of Biology Labs needed to infeed allied health programs; such as Nursing (i.e. student retention impact).
- Difficulty providing instruction with modern teaching methodologies and technologies (i.e. student experience impact).
- Less opportunities for K-12 and Public involvements in science and Fine Arts.

**12. What alternatives to this project were considered? Why is the requested project preferable to those alternatives?**

This project approach was best option considered. The other studied is summarized below.

**Project Title:** Natural Sciences Center

**Project Focus:** Academic

**Type of Project:** New Construction

**Program Focus of Occupants:** Science (Biology, Chemistry, Environmental, Physics)

**Total Estimated Cost (2023 Construction):** \$56,905,000 (includes furniture / excludes parking lot; information technology & audiovisual hardware; and commissioning).

**New Structures**

53,000 square feet, 2-story Science Building with additional 5,100 square feet mezzanine Utility Room for HVAC and general & lab exhaust equipment and 2,500 square feet basement mechanical room.

2,335 square feet Utility Yard for concrete pad mounted chillers, building transformer, and standby generator within a screen wall boundary.

1,125 square feet Greenhouse.

**Site Work**

Site clearing and re-establishment of 2,500 square feet Salt Shed; 3,000 square feet Grounds Maintenance Outbuilding; and 6,000 square feet Cold Storage Building garages.

Site underground utilities (water; sanitary drainage; storm drainage; natural gas; primary electrical; and technology systems infrastructure).