



## FY 2020 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, in so far 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 in Science Degree in Culinary Arts. In addition, the College offers 9 major areas of study that include Arts, Humanities and Communications, Business & Information Technology, Culinary Arts, Education, Healthcare and Health Sciences, Manufacturing and Technology, Natural Sciences, Public Safety, and Social Sciences. Student majors are roughly 51% career and 49% transfer.

For Fall 2018, Schoolcraft College has 10,213 credit students enrolled with 71% seats filled. While overall enrollment has slowed, the demand for courses remained steady with fewer students taking more credits, especially in general education, sciences, mathematics, technology, and career offerings. This growth has strained classroom facilities and labs in several areas. The most critical have been Math/Engineering, Science, and Technical disciplines. These areas show the greatest growth potential based upon the strength of our programs in the community as well as the future job market.

Fall 2018 classes began August 27. As of September 12, 2018, the number of late starting classes were as follows:

Modality	# Late Starting 12-week classes (Begin 9-18-18)	# Late Starting 7-week classes (Begin 10-23-18)
Traditional Classes	82	72
Online Classes	191	44

Enrollment is monitored daily from the first day of registration through the last day to enroll for 2<sup>nd</sup> 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 2018, 42 additional courses were offered after registration began.

There continues to be a critical need for specific space at the Radcliff Center, but in most cases it is at a very limited time (evening classes) and we have been able to manage the space effectively. The Biology Lab is in need of renovation to allow higher-level courses to be added that would both meet the needs of our program areas but also allow relief for scheduling on the main campus. Our current Biology Lab located at the Radcliff campus does not support the technology requirements to offer BIOL 236, thereby forcing EMT, HIT, and MAS students to take the class at the Livonia campus.

The Allied Health programs that are housed at Radcliff include, Emergency Medical Technology (EMT), Health Information Technology (HIT), Health Coding/Specialist, Medical Assisting (MA), Pharmacy Technician (PHT), and Massage Therapy (MAS). 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. Through our Medical Assisting program, the College is also now recognized as a National Center for Competency Testing. With the addition of our recent HIT Computer Lab, we have been able to meet the needs for increased numbers returning to acquire ICD-10-CM coding skills and allow for shared space with the Pharmacy Technician computer lab requirements.

### **Alternative Delivery**

The College actively supports alternative deliveries of instruction that meet the needs of working/commuting students. These include online, hybrid (a combination of face-to-face and online), Open Entry/Open Exit (OE/OE), and accelerated courses.

In Fall 2018, over 6,352 seats were filled in online courses (as of September 24, 2018). This semester offers 108 different courses comprising 265 sections.

The Open Entry/Open Exit program has over 426 seats filled (as of September 24, 2018) enrolled in 33 different courses. OE/OE courses are offered in diverse areas such as Accounting, Biology, Business, Computer Information Systems, English, Geography, History, Humanities, Math, Music, and Office Information Systems. Enrollment opportunities in OE/OE courses extend

through October 18, 2018. OE/OE enrollment hit its peak in 2009-2010, and has experienced some decline in enrollment as the College increases the availability of fully online courses.

Hybrid courses were first offered in Spring 2004. The number of courses and sections available continues to increase. The popularity of this modality grows, for example, in Fall 2005, there were a total of 11 courses comprising 14 sections. In Fall 2018, there were a total of 21 courses comprising 25 sections.

These alternative deliveries 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 centralized resource development for preparation of coursework.
- Open Entry/Open Exit requires different structural space in a lab format to meet the needs of students. The OE/OE program has been given lab space in the College's Biomedical Technology Center that opened Fall 2008. The BTC lab serves as the "house" for the OE/OE program and as an open lab for all registered Schoolcraft students. It offers many special software packages that are required for Computer Information Systems courses.
- Accelerated courses have created a demand for more flexible scheduling to deliver more course work in fewer calendar days with longer class sessions.

***b) Unique characteristics (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 2017 academic year, there were 15,324 credit students who attended the College and 13,124 students who were registered for continuing education/adult education-type programs. The College operates a Business Development Center that since 1985 has been one of the largest contributors for new government contracts awarded to Michigan businesses with nearly \$2.9 billion infused into the local economy. Since 2011, the Center has also helped small businesses obtain over \$46 million in financing and has helped launch over 70 small businesses. In 2017, the Center also provided training to over 1,000 workers at over 130 companies in technical and professional areas to enhance their skills on the job.

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

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. This year 130 teachers and faculty from 30 school districts, two community colleges, and one university participated in the program from Wayne, Oakland, and Macomb Counties. The total number of Galileo Leaders trained to date is over 970 strong.

The College maintains articulation agreements or 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 50 articulation agreements with 19 colleges, universities, and technical institutions. Several of the articulation agreements

are 3+1 programs that allow students to complete the first three years at the community college and the final year 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 28 articulation agreements with five secondary schools for 48 Schoolcraft College courses. These agreements provide students college credit for entry-level courses in career pathways such as computer graphics technology, culinary arts, early childhood education, engineering technology, or criminal justice. 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 credential.

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), 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 Early Childhood Education (NAEYC). Schoolcraft continues to create new programs to meet the needs of the local economy. For example, Schoolcraft recently initiated programs in Mechatronics, Plastic Technology, and Computer Cybersecurity and created an innovative program to certify individuals for K-12 teaching in Michigan (Alternative Route to Teacher Certification). Schoolcraft College has also coordinated efforts with the Michigan Works! agency to deliver many "boot camps" to quickly and successfully prepare un- and under-employed citizens for jobs in machining and welding. In addition, the College is a Registered Training Institute for Ford/UAW and has provided pre-apprenticeship training to hundreds of Ford employees.

**c) Initiatives which may impact facilities usage.**

The Radcliff Center is now home to a Wayne County Head Start program, meeting various academic and family support needs of 16 local families. In addition, it will soon be 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.

Healthcare simulation technology facilities are now open and will 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 not often afforded to community college students.

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

Having a trained work force 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 communities are safe and supportive of business. Schoolcraft, through its Business Development Center and Workforce Training Services, helps entrepreneurs as well as established businesses grow their markets, secure new funds, and train their staff. 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, Open Entry/Open Exit, 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 the Continuing Education and Professional Development Department (CEPD), 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 continuing nursing education are offered through CEPD. 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 is offering both short-and long-term programs in Phlebotomy, Medical Billing, Coding Specialist, Nursing Assistant Training, Massage Therapy, Biomedical Engineering Technology, and the Nursing Career Ladder Curriculum program.

National employment forecasts through 2026 project employment requiring an associate’s degree will increase by 11%, compared to 5.1% for high school diploma or equivalent, 11.1% for postsecondary non-degree award, 10.1% for bachelor’s degree, and 16.7% for master’s degree. The top four “hot” occupations (favorable mix of projected long-term job growth, projected annual job openings, and median wages) in Southeast Michigan through 2024 that require an associate’s degree/vocational training include Computer User Support Specialists, Electricians, Industrial Machinery Mechanics, and Machinists.

Schoolcraft College actively participates with a number of Economic Development organizations including:

- 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 Association of Continuing Education and Training (MACET)
- Michigan Chamber of Commerce
- Michigan Department of Licensing and Regulatory Affairs (LARA)
- Michigan Department of Talent and Economic Development (TED)
- Michigan Economic Developers Association (MEDA)
- Michigan Economic Development Corporation (MEDC)
- Michigan Educational Apprenticeship Training Association (MEATA)
- Michigan Energy Workforce Development Consortium (MEWDC)
- Michigan Life Science Innovation Center
- Michigan Small Business Development Center (MI-SBDC)
- Michigan Talent Investment Agency (TIA)
- Michigan Workforce Development Agency
- Midwest Higher Education Compact (MHEC )
- National Association of Community College Entrepreneurship (NAACCE)
- 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
- PTACs of Michigan
- Small Business Association of Michigan (SBAM)
- Southeast Michigan Community Alliance (SEMCA)
- Southeast Michigan Community College Consortium (SMC3)
- Southeast Michigan Council of Governments (SEMCOG)
- 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 2018 late-starting classes continues through October 30, 2018. As of October 9, enrollment for Fall 2018 had reached 10,213. For the 2017 academic year, Schoolcraft College had 15,324 credit students enrolled. In addition to traditional students, Schoolcraft College has a strong base of students in Continuing Education, enrolling 13,124 students during the same academic year. Continuing Education courses include contracted training, certification programs, professional development, and personal development. As of Fall 2018, of the College’s credit students 66% attend on a part-time basis (less than 12 credit hours) and 34% attend on a full-time basis (12 credit hours or more); 48% of our students reside within our College district and 52% reside outside of the College’s district (including international students).

Our student population can also be defined by attendance type as follows:

Student Attendance by Type	Number of Students
Day Only	2,046
Evening Only	1,160
Distance Learning (Online) Only	1,751
Distributed Learning (OE/OE or Hybrid) Only	443
Combination (traditional, online, OE/OE, Hybrid, day, evening, and weekend)	4,813

As shown in the following charts, 49% of Schoolcraft College’s credit students are enrolled in transfer programs. Another 34% are enrolled in associate or certificate career programs, and 17% 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, Accounting, and Marketing. Some programs cap 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 Allied Health programs in Health Information Technology, Medical Assisting, Emergency Medical Technology, and Medical Transcription. The Public Safety Training Center, located in Livonia, houses the Fire Technology, Homeland Security, and Criminal Justice programs. Students can also access programs through a combination of traditional, hybrid, Open Entry/Open Exit, and online courses. Currently active for Fall 2018 are 1,407 sections available as traditional, combo, global, independent learning, and MCO (formerly VLC) courses, 33 sections available as Open Entry/Open Exit courses, 27 sections available hybrid, and 254 online sections. The alternative instructional delivery methods have experienced the fastest growth.

#### **Enrollment in Fall 2018 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 other (18 or more credit hours).

## Pre-Programs

Code	Program Name	Full-time	Part-time	Other	Total
P000	Pre-Nursing (RN)	289	707	1	997
P017	Pre-Practical Nursing	32	100	0	132
P024	Pre-Emergency Medical Technology (1 yr)	2	6	0	8
P026	Pre-Medical Assisting	22	34	0	56
P079	Pre-Culinary Arts (1 yr)	8	12	0	20
P087	Pre-Culinary Arts	30	60	0	90
P128	Pre-Biomedical Engineering Technology	24	28	0	52
P153	Pre-Health Info Tech	16	30	0	46
P234	Pre-Pharmacy Technician Certificate	3	3	0	6
P240	Pre-Health Coding Specialist	2	21	0	23
P247	Pre-Culinary Baking and Pastry Arts	7	14	0	21
P250	Pre-Emergency Medical Technology	7	14	0	21
P255	Pre-Massage Therapy (1 yr)	3	3	0	6
P266	Pre-Massage Therapy	1	2	0	3
00268	High School Credit/Dual Enrollment	3	278	0	281
P321	Pre-Nursing Assistant Skills Certificate	5	14	0	19
00368	Early College	8	25	0	33
P397	Pre-Culinary & Dietary Operations Mgmt	9	12	0	21
Pre-Programs Totals		471	1,363	1	1,835
% of Total Enrollment		4.72%	13.66%	0.01%	18.39%

## Skills Programs: Certificates

Code	Program Name	Full-time	Part-time	Other	Total
315	Child Development Associate Certificate	1	14	0	15
316	Autism Education Skills Certificate	1	1	0	2
320	Electronic Technology Skills Certificate	1	6	0	7
321	Nursing Assistant Training Certificate	3	5	0	8
324	Emergency Medical Technology	3	4	0	7
325	Phlebotomy Certificate	2	11	0	13
326	Mechatronics	0	3	0	3
327	Welding Sculpture Certificate	0	3	0	3
328	Computer Information Systems Technology	0	4	0	4
329	CISCO Networking Academy	1	4	0	5
330	Physician Office Medical Transcription	0	3	0	3
337	Advanced Manufacturing	0	13	0	13
340	Plastic Technology	1	7	0	8
350	Medical Biller/Receptionist Certificate	1	35	0	36
364	Computer Graphics Technology	3	6	0	9
365	Accounting for Small Business	2	10	0	12
366	Computer Information Systems Programming Skills Certificate	2	11	0	13
370	Office Specialist Skills Certificate	0	1	0	1
Totals (Skills Programs: Certificates)		21	141	0	162
% of Total Enrollment		0.21%	1.41%	0.00%	1.62%



### Career Programs: One-Year Certificates

Code	Program Name	Full-time	Part-time	Other	Total
1	Accounting	8	24	0	32
2	Basic Business	25	49	0	74
4	Computer Information Systems	3	17	0	20
17	Practical Nursing	0	5	0	5
24	Emergency Medical Technology	1	18	0	19
26	Medical Assisting	7	18	0	25
31	Early Childhood Education	5	15	0	20
32	Special Needs Para Educator	1	4	0	5
79	Culinary Arts	2	1	0	3
84	Brewing and Distillation Technology	8	48	0	56
115	Piano Teacher	0	2	0	2
119	Computer Aided Drafting	2	21	0	23
124	Metallurgy Applied Physical	1	3	0	4
125	Electronic Technology	3	3	0	6
127	Welding Fabrication	8	28	0	36
129	Pre-Apprenticeship Welding	2	18	0	20
131	Web and Interactive Media	3	2	0	5
132	3D and Video Graphics	3	6	0	9
136	Computer Graphics Technology	7	16	0	23
144	Sound Recording Technology	1	12	0	13
149	Fire Fighter Technology	2	8	8	18
159	Computer Service Technician*	1	6	0	7
162	Music Foundations	1	3	0	4
163	Intermediate Music	2	3	0	5
166	Office Specialist	0	4	0	4
170	Elementary Education	5	24	0	29
171	Secondary Education	3	21	0	24
213	Small Business for Entrepreneurs	5	4	0	9
214	Physical Education Fitness Leadership	2	5	0	7
219	Plastic Technology	0	2	0	2
225	Mechatronics	0	8	0	8
230	Computer Systems Support	1	0	0	1
231	Networking Specialist	0	2	0	2
232	Cybersecurity	1	1	0	2
234	Pharmacy Technician	5	3	0	8
237	Advanced Manufacturing	0	12	0	12
240	Health Coding Specialist	8	41	0	49
241	CIS Web Specialist	3	4	0	7
242	Business Info Technology	0	2	0	2
247	Culinary Baking & Pastry Arts	12	4	11	27
255	Massage Therapy	4	2	0	6
270	Networking Technology Integration	2	6	0	8
276	Environmental Science Technician	2	3	0	5
Totals (Career Programs: One-Year Certificates)		149	478	19	646
% of Total Enrollment		1.49%	4.79%	0.00%	6.47%

\* Program now inactive

### Career Programs: Associate and Bachelor's Degree

Code	Program Name	Full-time	Part-time	Other	Total
0	Registered Nursing	14	314	0	328
5	Accounting	64	98	0	162
7	Networking Specialist	6	10	0	16
8	General Business	133	198	2	333
9	Marketing & Applied Management	66	94	0	160
10	Cosmetology Management	4	14	0	18
11	Small Business for Entrepreneurs	31	41	0	72
12	Computer Information Systems- Programming	55	72	0	127
14	Computer Systems Support Technician	14	37	0	51
20	Early Childhood Education	37	66	0	103
21	Special Needs Para Educator	9	13	0	22
28	Computer Graphics Technology	28	67	0	95
31	Web and Interactive Media	3	8	0	11
32	3D and Video Graphics	17	23	0	40
41	Broadcast Communications	21	27	0	48
66	Cybersecurity	0	1	0	1
68	Special Study – Career	6	35	0	41
82	Welding-Joining Technology	9	36	0	45
86	Criminal Justice	151	170	35	356
87	Culinary Arts	66	79	0	145
120	Electronics Technology	16	34	0	50
128	Biomedical Engineering Technology	2	8	0	10
133	Office Administration	1	16	0	17
135	Advanced Manufacturing	10	29	0	39
153	Health Information Technology	12	37	0	49
170	Computer Aided Mechanical Design	16	32	0	48
176	Environmental Studies	24	21	0	45
177	Fire Technology	8	35	7	50
184	Metallurgy and Materials Science	1	8	0	9
217	Fire and Emergency Services	3	3	2	8
220	Plastic Technology	0	7	0	7
226	Mechatronics	10	11	0	21
244	Sound Recording Technology	23	36	0	59
250	Emergency Medical Technology	6	14	0	20
252	Homeland Security	14	13	0	27
266	Massage Therapy	6	3	0	9
275	CIS - Web Specialist	7	7	0	14
277	Business Information Technology	16	22	0	38
284	Physical Education Fitness Leadership	12	11	0	23
397	B.S. Culinary & Dietary Operations Management	4	3	0	7
800	Degree Seeking Associate (Undecided)*	0	5	0	5
Totals (Career Programs: Associate Degree)		925	1,758	46	2,729
% of Total Enrollment		9.27%	17.62%	0.46%	27.35%

### Bachelor's Degree, Associate Degree, and One-Year Certificate Programs

	Full-time	Part-time	Other	Total
Enrollment	1,074	2,236	65	3,375
% of Total Enrollment	10.76%	22.41%	0.65%	33.83%

### Career Programs: Post-Certificates

Code	Program Name	Full-time	Part-time	Other	Total
155	Computer Information Systems	3	3	0	6
178	Biomedical Applications	1	3	0	4
181	Computer Graphics Technology	1	2	0	3
Totals (Career Programs: Post-Certificates)		5	8	0	13
% of Total Enrollment		0.05%	0.08%	0.00%	0.13%

### Total Pre-Programs, Skills, and Career Post-Certificate Enrollment

	Full-time	Part-time	Other	Total
Enrollment	497	1,512	1	2,010
% of Total Enrollment	4.98%	15.15%	0.00%	20.14%

### Transfer Programs

Code	Program Name	Full-time	Part-time	Other	Total
39	Engineering	194	206	0	400
42	Arts (Assoc.)	234	387	0	621
42	General Studies (Assoc.)	664	805	7	1,476
42	Science (Assoc.)	179	259	0	438
167	Guest Transfer	50	433	4	487
401	Business Administration	233	335	0	568
402	Fine Arts	29	57	0	86
403	Pre-Pharmacy	50	43	0	93
500	Business Related Transfer*	2	6	0	8
600	Health Related Transfer*	2	12	0	14
700	Education Transfer	15	14	0	29
801	Degree Seeking, Transfer Program (Undecided)*	0	2	0	2
900	Non-Degree Seeking	47	307	16	370
Totals (Transfer Programs)		1,699	2,866	27	4,592
% of Total Enrollment		17.06%	31.51%	0.27%	48.84%

\* Program now inactive

### Total Enrollment for Certificates, Associate Degrees, and Transfer

	Full-time	Part-time	Other	Total
Pre-Programs	471	1,363	1	1,835
Skills Certificates	21	141	0	162
One-Year Certificates	149	478	19	646
Associate and Bachelor's Degrees	925	1,758	46	2,729
Post-Associate Certificates	5	8	0	13
Transfer	1,699	2,866	27	4,592
Totals	3,270	6,614	93	9,977

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

**b) 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
2008	18,349
2009	19,559
2010	20,784
2011	20,969
2012	20,458
2013	20,247
2014	19,307
2015	18,855
2016	17,875
2017	15,324
<i>2018</i>	<i>15,171</i>
<i>2019</i>	<i>15,020</i>
<i>2020</i>	<i>14,870</i>
<i>2021</i>	<i>14,722</i>
<i>2022</i>	<i>14,575</i>

*Italics = projection of 1% enrollment decline*

**Alternative Delivery Courses: Current Enrollment/Future Growth**

The growth of alternative delivery courses in the past several years has been rapid and steady. Students have more access to computers and are accustomed to alternative delivery methods such as online courses.

Students Enrolled Exclusively In:	Fall 2018
Online Courses	1,746
Open Entry/Open Exit Courses	66
Online and Open Entry/Open Exit Courses	168

**c) 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 2018 run September 21, 2018).

	2018	2017	2016	2015	2014
<b>Fall Headcount</b>	10,213	10,852	11,495	11,671	11,682

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

For the 2017 academic year, the student (15,324) to instructional staff (513) ratio was 30:1. Instructional staff includes both full-time and part-time faculty members. The ratio for students to administrative staff (52) was 294:1. Administrative staff includes executives and administrators.

**e) 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) and the projections for the next five years.

<b>Year</b>	<b>Staffing (FT &amp; PT)</b>
2009	855
2010	895
2011	881
2012	854
2013	841
2014	845
2015	832
2016	835
2017	815
2018	802
2019	810
2020	818
2021	826
2022	834
2023	842

*Italics = projection of 1% employee growth*

**f) Identify current average class size and projected average class size based on 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.

The average class size for 2017 was 17 students per course and included enrollment in alternative delivery courses.

#### 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 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

For Schoolcraft College 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 2018 Facility Usage

Building	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 8am-10pm Su 8am-10pm
Applied Science Classrooms	61.2%	66.0%	36.0%	76.0%	13.3%
Biomedical Technology Center Classrooms	76.0%	69.2%	68.5%	88.5%	2.3%
Forum Classrooms	64.7%	63.3%	51.7%	73.3%	13.1%
Jeffress Center Classrooms	25.0%	31.7%	12.5%	37.5%	7.8%
Library Classrooms	12.0%	20.0%	10.0%	65.0%	0%
Liberal Arts Classrooms	79.7%	78.5%	51.5%	85.2%	16.4%
McDowell Center Classrooms	96.0%	100%	55.0%	90.0%	33.3%
Physical Education Classrooms	100%	100%	100%	100%	100%
VisTaTech Center Classrooms	82.7%	73.3%	83.3%	83.3%	55.6%
Applied Science - Computer Labs*	100%	100%	100%	100%	100%
Biomedical Technology Center - Computer Labs*	100%	100%	100%	100%	100%
Forum - Computer Labs*	100%	100%	100%	100%	100%
Jeffress Center - Computer Labs*	100%	100%	100%	100%	100%
Liberal Arts - Computer Labs*	100%	100%	100%	100%	100%
McDowell Center - Computer Labs*	100%	100%	100%	100%	100%
VisTaTech Center - Computer Labs*	100%	100%	100%	100%	100%

Applied Science - Labs**	25.8%	24.4%	25.6%	51.6%	25.4%
Biomedical Technology Center - Labs**	58.7%	68.9%	60%	49.4%	32.7%
Forum - Labs**	44.0%	44.0%	48.0%	64.8%	12.4%
Jeffress Center - Labs**	54.7%	26.7%	70.0%	100%	27.3%
Liberal Arts - Theater***	8.0%	0%	10.0%	50.0%	21.2%
McDowell Center - Labs*	60.0%	80.0%	60.0%	50.0%	0%
Physical Education - Labs	100%	100%	100%	100%	100%
VisTaTech Center - Labs**	61.5%	60.0%	51.3%	38.1%	42.8%
<b>Final Total</b>	<b>65.4%</b>	<b>65.3.4%</b>	<b>57.3%</b>	<b>74.1%</b>	<b>35.5%</b>

\* 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 open only 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.

### Radcliff Center Fall Semester 2018 Facility Usage

Building	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 8am-10pm Su 8am-10pm
Radcliff Classrooms	45.4%	50.4%	27.6%	76.2%	24.5%
Radcliff - Computer Labs*	100%	100%	100%	100%	100%
Radcliff - Labs**	27.3%	33.3%	30.0%	37.5%	16.7%
<b>Final Total</b>	<b>48.6%</b>	<b>53.1%</b>	<b>36.3%</b>	<b>72.3%</b>	<b>31.8%</b>

\* 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 open only when a class is in session or when an instructor is present in the lab because of the equipment present.

### Public Safety Training Complex Fall Semester 2018 Facility Usage

Building	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 8am-10pm Su 8am-10pm
Academy Training Center - Classrooms	100%	100%	100%	32.5%	6.8%
Firearms Training Center - Classrooms	61.0%	65.0%	62.5%	93.8%	7.6%
Firearms Training Center - Computer Lab	100%	100%	100%	100%	100%
Academy Training Center - Labs	26.0%	20.0%	20.0%	2.5%	9.1%
Firearms Training Center - Labs	66.7%	66.7%	50.0%	46.7%	22.2%
<b>Final Total</b>	<b>66.4%</b>	<b>66.7%</b>	<b>62.7%</b>	<b>50.0%</b>	<b>16.2%</b>

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

Many of our programs require specialized classrooms/labs such as Welding, Manufacturing, Metallurgy, Nursing, Recording Technology, Child Development, 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, 2018 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 5-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 main campus.

The College has a building site in the center of main campus, along with potential sites to the northeast and along the eastern and southern perimeters. The College is exploring additional acquisition of property for a manufacturing complex.

**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 and will expire in approximately January 2019. 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 an Allied Health facility.

- 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 amount of expansion 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 (2019 - 2023)**

<b>Year 2019</b>		
Secondary Electrical Replacement Phase 1 (WCC)	\$	200,000.00
Administration Flat Roof & Fascia Replacement	\$	55,000.00
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>632,000.00</b>

<b>Year 2020</b>		
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 2021		
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>2,220,000.00</b>

Year 2022		
PE North Roof Replacements - Pool/NE Mechanical Room	\$	220,000.00
Service Building Roof Replacement	\$	115,000.00
Administration Flat Roof & Fascia Replacement	\$	55,000.00
<b>Year Total</b>	\$	<b>390,000.00</b>

Year 2023		
Rebuild Parking Lot - Main Campus North	\$	1,250,400.00
<b>Year Total</b>	\$	<b>1,250,400.00</b>

## Renovation Priorities (2019 - 2023)

Year 2019		
Capital Outlay - Forum Science and Humanities Renovation & Addition	\$	22,500,000.00
<b>Year Total</b>	\$	<b>22,500,000.00</b>

Year 2020		
Liberal Arts Classroom Renovations (20)	\$	1,400,000.00
Renovate 2 Children's Center Classrooms	\$	125,000.00
Waterman Student Activities - Phase 2 Renovation	\$	178,000.00
Computer Room Upgrades - Phase 2	\$	200,000.00
<b>Year Total</b>	\$	<b>1,903,000.00</b>

Year 2021		
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 2 Children's Center Classrooms	\$	125,000.00
Renovate 4 BTC Classrooms	\$	240,000.00
<b>Year Total</b>	\$	<b>1,715,000.00</b>

Year 2022		
Waterman Wing Atrium	\$	250,000.00
Renovate Campus Classrooms	\$	600,000.00
<b>Year Total</b>	\$	<b>850,000.00</b>

<b>Year 2023</b>		
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 200/300 phase of our currently approved Capital Outlay project.

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

Not applicable.

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

We currently offer a wide variety of distance learning, hybrid, and OE/OE classes 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 2019 through fiscal year 2023.**

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

**SCHOOLCRAFT COLLEGE; ACADEMY TRAINING CENTER - SCHEDULED MAINTENANCE PROGRAM**

**EXHIBIT A**

<b>SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:</b>	2013
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<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

BUILDING SECTION (BUILDING TYPE)	BUILDING AGE (YRS)	BUILDING AREA (GSF)
ACADEMY TRAINING CENTER (CLASSROOM)	1988	23,068

**YEAR: 2019**

<b>MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:</b>	\$ 35,388
<b>REPLACEMENT VALUE FOR THE BUILDING:</b>	\$ 4,927,200
<b>FACILITY CONDITION INDEX (FCI):</b>	1%



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

ITEM LOC	ITEM NO.	ITEM	FICM CODE	YEAR ITEM WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	AVG ITEM UNITS	TIME IN USE (YRS)	RUL (YRS)	ITEM COST	ITEM FIRST COST	SCHEDULED MAINTENANCE PLAN YEAR					
											2019	2020	2021	2022	2023	
<b>BUILDING ENVELOPE (includes items exterior to building)</b>											\$ 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
<b>BUILDING INTERIOR</b>											\$ -	\$ -	\$ -	\$ -	\$ -	
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	--					
<b>PLUMBING SYSTEMS (may be packaged with BI item scope)</b>											\$ -	\$ -	\$ -	\$ -	\$ -	
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	--					
<b>MECHANICAL SYSTEMS (may be packaged with BI item scope)</b>											\$ 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	--					
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	--					

**SCHOOLCRAFT COLLEGE; ACADEMY TRAINING CENTER - SCHEDULED MAINTENANCE PROGRAM**

LOC	ITEM NO.	ITEM	FCM 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	SCHEDULED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
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
<b>ELECTRICAL SYSTEMS (may be packaged with BI item scope)</b>												\$ -	\$ -	\$ -	\$ -	\$ -
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	--					
<b>BUILDING SYSTEMS (fire, security, IT/media infrastructure)</b>												\$ -	\$ -	\$ -	\$ -	\$ -
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.	UUU14	2010	--	--	20	3	17	\$0.00	--					
ATC-	BS007	IT SYSTEMS	UUU02	2010	--	--	20	--	--	\$0.00	--					
<b>SPECIALTY EQUIPMENT (food service, theatre, labs, shops)</b>												\$ -	\$ -	\$ -	\$ -	\$ -
ATC-	SE001	POLICE/FIRE TRAINING MAZE MAJOR MAINTENANCE.	550	2010	--	--	25	3	22	\$0.00	--					
<b>ACCESSIBILITY IMPROVEMENTS</b>												\$ -	\$ -	\$ -	\$ -	\$ -
ATC-		NONE						--	--							
<b>ANNUAL FUNDING REQUIREMENTS (ROUNDED):</b>												\$ 32,951	\$ 33,544	\$ 34,148	\$ 34,763	\$ 35,388

## SCHOOLCRAFT COLLEGE; APPLIED SCIENCE - SCHEDULED MAINTENANCE PROGRAM

<b>SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:</b>	2013
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<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

BUILDING SECTION (BUILDING TYPE)	BUILDING AGE (YRS)	BUILDING AREA (GSF)
APPLIED SCIENCE - TOTAL (CLASSROOM)		74,109
APPLIED SCIENCE - ORIGINAL	1965	46,755
APPLIED SCIENCE - NORTH WING	1972	24,542
APPLIED SCIENCE - WELDING LAB ADDITION	2003	2,812

**YEAR: 2019**

<b>MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:</b>	<b>\$ 3,919,886</b>
<b>REPLACEMENT VALUE FOR THE BUILDING:</b>	<b>\$19,097,300</b>
<b>FACILITY CONDITION INDEX (FCI):</b>	<b>21%</b>



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

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	DEFERRED MAINTENANCE PLAN YEAR				
												1 2019	2 2020	3 2021	4 2022	5 2023
<b>BUILDING ENVELOPE (includes items exterior to building)</b>												<b>\$ 531,414</b>	<b>\$ 540,979</b>	<b>\$ 550,717</b>	<b>\$ 560,630</b>	<b>\$ 570,721</b>
AS-	BE001	SOUTHWEST RETAINING WALL MASONRY AND LIMESTONE CAP REPAIRS.	MMM16	1965	18	LF	50	48	2	\$33.75	\$ 608	\$ 676	\$ 688	\$ 701	\$ 713	\$ 726
AS-	BE002	NORTHWEST RETAINING WALL LIMESTONE CAP REPAIRS.	MMM16	2017	30	LF	50	0	50	\$14.85	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
AS-	BE003	NORTHWEST CONCRETE STEP TREADS REPLACEMENT	MMM16	2014	150	LF	25	0	25	\$60.75	\$ 9,113	\$ -	\$ -	\$ -	\$ -	\$ -
AS-	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
AS-	BE005	EXTERIOR DOOR REPLACEMENTS (ACCELERATED DETERIORATION AT EAST DOORS).	W06	2006	--	--	25	7	18	\$0.00	--					
AS-	BE006	EXTERIOR WINDOW REPLACEMENTS.	MMM16	2007	--	--	30	6	24	\$0.00	--					
AS-	BE007	EXTERIOR SEALANT MAINTENANCE.	MMM16	VARIOUS	2,000	LF	20	--	--	\$4.73	\$ 9,460	\$ 10,529	\$ 10,718	\$ 10,911	\$ 11,108	\$ 11,308
AS-	BE008	NORTH WING THEATRE SCENE SHOP ROLL-UP DOOR REPLACEMENT. INCLUDES NEW GARAGE DOOR OPENER.	210	2016	80	SF	25	0	25	\$4,252.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
AS-	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
AS-	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
AS-	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
AS-	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
AS-	BE013	CLEAN EXTERIOR BRICK EFFLORESCENCE.	MMM16	1965	200	SF	75	48	27	\$1.89	\$ 378	\$ 421	\$ 428	\$ 436	\$ 444	\$ 452
AS-	BE014	EXTERIOR MORTAR JOINT REPAIRS.	MMM16	VARIOUS	--	--	50	--	--	\$0.00	--					
AS-	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
AS-	BE016	WELDING LAB ADDITION REROOFING.	MMM16	2003	--	--	25	10	15	\$0.00	--					
AS-	BE017	TAN, SINGLE-PLY REROOFING.	MMM16	2003	--	--	25	10	15	\$0.00	--					
AS-	BE018	STANDING SEAM METAL ROOFING.	MMM16	2003	--	--	50	10	40	\$0.00	--					
AS-	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
<b>BUILDING INTERIOR</b>												<b>\$ 443,944</b>	<b>\$ 451,935</b>	<b>\$ 460,070</b>	<b>\$ 468,351</b>	<b>\$ 476,781</b>

**SCHOOLCRAFT COLLEGE; APPLIED SCIENCE - SCHEDULED MAINTENANCE PROGRAM**

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	DEFERRED MAINTENANCE PLAN YEAR				
												1 2019	2 2020	3 2021	4 2022	5 2023
AS-	BI001	INTERIOR DOOR AND DOOR HARDWARE REPLACEMENTS (MOSTLY WOOD DOORS).	110, 210 AND 310	VARIOUS	40	EA	50	--	--	\$1,721.25	\$ 68,850	\$ 76,629	\$ 78,008	\$ 79,412	\$ 80,841	\$ 82,297
AS-	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	\$ 99,617	\$ 101,410	\$ 103,236	\$ 105,094	\$ 106,986
AS-	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
AS-	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
AS-	BI005	LAY-IN CEILING TILE REPLACEMENTS - ALLOWANCE.	100, 200, 300 AND W06	VARIOUS	19,180	SF	35	--	--	\$4.32	\$ 82,858	\$ 92,219	\$ 93,879	\$ 95,568	\$ 97,289	\$ 99,040
AS-	BI006	FLOOR FINISH UPDATES - ALLOWANCE.	100, 200, 300 AND W06	VARIOUS	--	--	--	--	--	\$0.00	--					
AS-	BI007	WALL FINISH UPDATES - ALLOWANCE.	100, 200, 300 AND W06	VARIOUS	--	--	--	--	--	\$0.00	--					
AS-	BI008	SOUTH WING CORRIDOR DISPLAY CASE UPGRADES.	W05 AND W06	1965	1	LS	40	48	-8	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
AS-	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
AS-	BI010	MAIN COMPUTER ROOM UPGRADES.	710	2010	--	--	25	3	22	\$0.00	--					
AS-	BI011	WATER-PROOF AS90 WHERE ELECTRICAL SERVICE FOR NORTH WING OF APPLIED SCIENCE ENTERS THE BUILDING.	UUU05	1972	1	LS	15	41	-26	\$6,750.00	\$ 6,750	\$ 7,513	\$ 7,648	\$ 7,785	\$ 7,926	\$ 8,068
AS-	BI012	NON-FIRE STOPPED FLOOR PENETRATIONS.	Y04	1965	5	SF	50	48	2	\$135.00	\$ 675	\$ 751	\$ 765	\$ 779	\$ 793	\$ 807
AS-	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
AS-	BI014	ENTRANCE CARPETS.	W06	2016	1,300	SF	5	0	--	\$62.10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
AS-	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
AS-	BI016	CARPET REPLACEMENT	110	VARIOUS	7,150	SF	12	--	--	\$7.09	\$ 50,694	\$ 56,421	\$ 57,436	\$ 58,470	\$ 59,523	\$ 60,594
AS-	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
<b>PLUMBING SYSTEMS (may be packaged with BI item scope)</b>												\$ 11,130	\$ 11,330	\$ 11,534	\$ 11,742	\$ 11,953
AS-	PS001	DOMESTIC HOT WATER HEATER REPLACEMENT - SOUTH WING.	UUU24	2008	--	--	10	5	5	\$0.00	--					
AS-	PS002	DOMESTIC HOT WATER HEATER REPLACEMENT - NORTH WING	UUU24	2010	--	--	10	3	7	\$0.00	--					
AS-	PS003	METALLURGY LABORATORY ACID WASTE SYSTEM INSPECTION/MAINTENANCE.	UUU25	2010	--	--	10	3	7	\$0.00	--					
AS-	PS004	PLUMBING FIXTURES - SOUTH	X03	VARIOUS	--	--	40	--	--	\$0.00	--					
AS-	PS005	PLUMBING FIXTURES - NORTH	X03	VARIOUS	--	--	40	--	--	\$0.00	--					
AS-	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
<b>MECHANICAL SYSTEMS (may be packaged with BI item scope)</b>												\$ 1,823,150	\$ 1,855,967	\$ 1,889,375	\$ 1,923,383	\$ 1,958,004
AS-	MS001	MAIN COMPUTER ROOM BACK-UP A/C SYSTEM AND ASSOCIATED ROOF MOUNTED CONDENSER	710	2010	--	--	20	3	17	\$0.00	--					
AS-	MS002	MAIN COMPUTER ROOM PRIMARY A/C SYSTEM AND ASSOCIATED ROOF MOUNTED CONDENSER.	710	2017	--	--	20	0	20	\$0.00	--					
AS-	MS003	AS100/120 NURSING LABS AIR COMPRESSOR (FOR OXYGEN SIMULATION) REPLACEMENT.	210	2005	--	--	10	8	2	\$0.00	--					
AS-	MS004	AS100/120 NURSING LABS VACUUM PUMP REPLACEMENT (SOUTH WING).	210	2005	--	--	10	8	2	\$0.00	--					
AS-	MS005	NATP NURSING LAB VACUUM PUMP REPLACEMENT (NORTH WING).	210	2011	--	--	10	2	8	\$0.00	--					

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												1 2019	2 2020	3 2021	4 2022	5 2023
AS-	MS006	REPLACEMENT OF FIVE (5) INDOOR AIR HANDLING UNITS INSTALLED UNDER MECHANICAL SYSTEMS UPGRADE PROJECT.	UUU25	2008	--	--	10	5	5	\$0.00	--					
AS-	MS007	REPLACEMENT OF OUTDOOR / SOUTH WING AIR HANDLING UNIT INSTALLED UNDER MECHANICAL SYSTEMS UPGRADE PROJECT (CLIMATECRAFT).	UUU25	2008	--	--	25	5	20	\$0.00	--					
AS-	MS008	REPLACEMENT OF WELDING LAB DIRECT-FIRED, ROOF-MOUNTED AIR HANDLING UNIT.	210	2008	1	EA	25	5	20	\$57,375.00	\$ 57,375	\$ 63,857	\$ 65,007	\$ 66,177	\$ 67,368	\$ 68,580
AS-	MS009	REPLACEMENT OF METALLURGY LAB INTERIOR, SUSPENDED MAKE-UP AIR UNIT.	210	2003	1	EA	15	10	5	\$35,775.00	\$ 35,775	\$ 39,817	\$ 40,533	\$ 41,263	\$ 42,006	\$ 42,762
AS-	MS010	METALLURGY LAB FUME HOODS.	210	1965	3	EA	20	48	-28	\$42,525.00	\$ 127,575	\$ 141,988	\$ 144,544	\$ 147,146	\$ 149,794	\$ 152,491
AS-	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
AS-	MS012	WELDING LAB EXHAUST FAN REPLACEMENTS.	210	2003	4	EA	15	10	5	\$4,725.00	\$ 18,900	\$ 21,035	\$ 21,414	\$ 21,799	\$ 22,192	\$ 22,591
AS-	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
AS-	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
AS-	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
AS-	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
AS-	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
AS-	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
AS-	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
AS-	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
AS-	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
AS-	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
AS-	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
AS-	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
AS-	MS025	SUMP PUMP.	UUU16	2010	--	--	15	3	12	\$0.00	--					
AS-	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
<b>ELECTRICAL SYSTEMS (may be packaged with BI item scope)</b>												<b>\$ 294,207</b>	<b>\$ 299,503</b>	<b>\$ 304,894</b>	<b>\$ 310,382</b>	<b>\$ 315,969</b>
AS-	ES001	BUILDING SERVICE TRANSFORMER.	UUU04	2003	--	--	20	10	10	\$0.00	--					
AS-	ES002	MAIN SWITCHBOARD.	UUU05	2008	--	--	20	5	15	\$0.00	--					
AS-	ES003	STANDBY GENERATOR (OLYMPIA). ELIMINATED 2016.	UUU25	--	--	EA	--	--	--	\$136,350.00	--					
AS-	ES004	STANDBY GENERATOR (CUMMINS). REPLACED 2016.	UUU25	2016	--	--	20	0	20	\$0.00	--					
AS-	ES005	LIFE SAFETY AUTOMATIC TRANSFER SWITCH (ATS). REPLACED 2016.	UUU25	2016	--	--	20	0	20	\$0.00	--					
AS-	ES006	STANDBY POWER SYSTEMS AUTOMATIC TRANSFER SWITCH (ATS). REPLACED 2016.	UUU25	2016	--	--	20	0	20	\$0.00	--					
AS-	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
AS-	ES008	VARIABLE FREQUENCY DRIVE (VFD).	UUU25	2008	--	--	15	5	10	\$0.00	--					
AS-	ES009	WELDING LAB VARIABLE FREQUENCY DRIVE	210	2003	0	0	15	10	5	\$6,750.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
AS-	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
AS-	ES011	EXTERIOR BUILDING MOUNTED LIGHTING.	UUU25	1965	22	EA	20	48	-28	\$708.75	\$ 15,593	\$ 17,354	\$ 17,666	\$ 17,984	\$ 18,308	\$ 18,638
AS-	ES012	EXIT LIGHTING.	W06	2002	--	--	20	11	9	\$0.00	--					
AS-	ES013	CORRIDOR LIGHTING.	W06	2002	--	--	20	11	9	\$0.00	--					
AS-	ES014	CLASSROOM LIGHTING.	110 AND 210	2002	--	--	20	11	9	\$0.00	--					
AS-	ES015	OFFICE LIGHTING.	310	2002	--	--	20	11	9	\$0.00	--					
AS-	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
AS-	ES017	VACANCY SENSOR LIGHTING CONTROLS (CLASSROOMS).	110 AND 210	2002	--	--	20	11	9	\$0.00	--					



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AS-	ES018	VACANCY SENSOR LIGHTING CONTROLS (CORRIDORS).	W05 AND W06	NONE	1	LS	20	--	--	\$74,250.00	\$ 74,250	\$ 82,639	\$ 84,126	\$ 85,640	\$ 87,182	\$ 88,751
AS-	ES019	DATA CENTER ELECTRICAL SERVICE EQUIPMENT.	710	2010	--	--	20	3	17	\$0.00	--					
AS-	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
<b>BUILDING SYSTEMS (fire, security, IT/media infrastructure)</b>												<b>\$ 300,644</b>	<b>\$ 306,056</b>	<b>\$ 311,565</b>	<b>\$ 317,173</b>	<b>\$ 322,882</b>
AS-	BS001	FIRE ALARM SYSTEM MAIN AND REMOTE PANELS.	UUU07	2008	--	--	20	5	15	\$0.00	--					
AS-	BS002	FIRE ALARM DEVICES.	UUU07	2008	--	--	20	5	15	\$0.00	--					
AS-	BS003	BOILER EPO SYSTEM.	Y04	2008	--	--	20	5	15	\$0.00	--					
AS-	BS004	CONVERSION TO PRIMAX CLOCK SYSTEM.	UUU25	1965	1	LS	20	48	-28	\$65,030.00	\$ 65,030	\$ 72,377	\$ 73,680	\$ 75,006	\$ 76,356	\$ 77,731
AS-	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
AS-	BS006	SECURITY SURVEILLANCE SYSTEM.	UUU14	2004	--	--	20	9	11	\$0.00	--					
AS-	BS007	SECURITY ACCESS SYSTEM.	UUU14 / 2016 - GALAXY PANEL AND AS810 INSTALLED. 2017 - CARD ACCESS ADDED TO IT CLOSETS. 2017 - ADDED DEAN'S OFFICE & AS162 CODE BLUES PANIC BUTTONS	2004	--	--	20	9	11	\$0.00	--					
AS-	BS008	LIGHTNING PROTECTION SYSTEM.	UUU25	NONE	1	LS	20	--	--	\$140,066.00	\$ 140,066	\$ 155,890	\$ 158,696	\$ 161,553	\$ 164,461	\$ 167,421
<b>SPECIALTY EQUIPMENT (food service, theatre, labs, shops)</b>												<b>\$ 147,998</b>	<b>\$ 150,662</b>	<b>\$ 153,374</b>	<b>\$ 156,135</b>	<b>\$ 158,945</b>
AS-	SE001	WELDING LAB DUST COLLECTOR MAINTENANCE/REPLACEMENT.	210	2003	1	LS	20	10	10	\$54,000.00	\$ 54,000	\$ 60,101	\$ 61,183	\$ 62,284	\$ 63,405	\$ 64,546
AS-	SE002	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
AS-	SE003	METALLURGY LABORATORY FUME HOOD MAINTENANCE/REPLACEMENTS.	210	2010	1	LS	20	3	17	\$35,775.00	\$ 35,775	\$ 39,817	\$ 40,533	\$ 41,263	\$ 42,006	\$ 42,762
<b>ACCESSIBILITY IMPROVEMENTS</b>												<b>\$ 97,423</b>	<b>\$ 99,177</b>	<b>\$ 100,962</b>	<b>\$ 102,780</b>	<b>\$ 104,630</b>
AS-	AI001	EAST COURTYARD REPLACEMENT OF ASPHALT PAVING WITH DIVETS TO CONCRETE PAVED ADA WHEELCHAIR PATH.	SSS18	VARIOUS	1,870	SF	15	--	--	\$9.45	\$ 17,672	\$ 19,668	\$ 20,022	\$ 20,382	\$ 20,749	\$ 21,123
AS-	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.	W02	2009	2	EA	20	4	16	\$28,350.00	\$ 56,700	\$ 63,106	\$ 64,242	\$ 65,398	\$ 66,575	\$ 67,774
AS-	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
AS-	AI004	BF ACCESSIBLE DRINKING FOUNTAINS	W06	VARIOUS	3	EA	20	--	--	\$4,050.00	\$ 12,150	\$ 13,523	\$ 13,766	\$ 14,014	\$ 14,266	\$ 14,523
<b>ANNUAL FUNDING REQUIREMENTS (ROUNDED):</b>												<b>\$ 3,649,911</b>	<b>\$ 3,715,610</b>	<b>\$ 3,782,491</b>	<b>\$ 3,850,575</b>	<b>\$ 3,919,886</b>

**SCHOOLCRAFT COLLEGE; BIOTECHNOLOGY CENTER - SCHEDULED MAINTENANCE PROGRAM**

<b>SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:</b>	2013
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<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	

BUILDING SECTION (BUILDING TYPE)	BUILDING AGE (YRS)	BUILDING AREA (GSF)
BIOTECHNOLOGY CENTER (CLASSROOM)	2008	50,128

<b>YEAR: 2019</b>	
<b>MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:</b>	<b>\$ 151,146</b>
<b>REPLACEMENT VALUE FOR THE BUILDING:</b>	<b>\$ 15,552,100</b>
<b>FACILITY CONDITION INDEX (FCI):</b>	<b>1%</b>

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



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

**REMAINING USEFUL LIFE (RUL) BAROMETER**

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

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	DEFERRED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
<b>BUILDING ENVELOPE (includes items exterior to building)</b>												\$ -	\$ -	\$ -	\$ -	\$ -
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	\$ -	\$ -	\$ -	\$ -	
<b>BUILDING INTERIOR</b>												\$ 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
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	--					
<b>PLUMBING SYSTEMS (may be packaged with BI item scope)</b>												\$ -	\$ -	\$ -	\$ -	\$ -

**SCHOOLCRAFT COLLEGE; BIOTECHNOLOGY CENTER - SCHEDULED MAINTENANCE PROGRAM**

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	DEFERRED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
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	--					
<b>MECHANICAL SYSTEMS (may be packaged with BI item scope)</b>												<b>\$ 3,339</b>	<b>\$ 3,399</b>	<b>\$ 3,460</b>	<b>\$ 3,523</b>	<b>\$ 3,586</b>
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	--					
<b>ELECTRICAL SYSTEMS (may be packaged with BI item scope)</b>												<b>\$ 74,013</b>	<b>\$ 75,345</b>	<b>\$ 76,702</b>	<b>\$ 78,082</b>	<b>\$ 79,488</b>
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
<b>BUILDING SYSTEMS (fire, security, IT/media infrastructure)</b>												<b>\$ 6,344</b>	<b>\$ 6,458</b>	<b>\$ 6,574</b>	<b>\$ 6,693</b>	<b>\$ 6,813</b>
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	--					
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.	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

**SCHOOLCRAFT COLLEGE; BIOTECHNOLOGY CENTER - SCHEDULED MAINTENANCE PROGRAM**

LOC	ITEM		FICM CODE	YEAR ITEM		ITEM TOTAL QUANTITY	ITEM UNITS	AVG TIME			ITEM UNIT COST	ITEM FIRST COST	DEFERRED MAINTENANCE PLAN YEAR				
	NO.	ITEM		WAS PUT INTO SERVICE				EUL (YRS)	IN USE (YRS)	RUL (YRS)			2019	2020	2021	2022	2023
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	--					
<b>SPECIALTY EQUIPMENT (food service, theatre, labs, shops)</b>												\$ -	\$ -	\$ -	\$ -	\$ -	
BTC-	SE001	EXTERIOR BUILDING SIGNAGE UPGRADE (COMPLIANCE WITH CURRENT COLLEGE BRANDING STANDARDS).	SSS16	2008	1	LS	20	5	15		\$0.00	\$0	\$ -	\$ -	\$ -	\$ -	\$ -
<b>ACCESSIBILITY IMPROVEMENTS</b>												\$ 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
<b>ANNUAL FUNDING REQUIREMENTS (ROUNDED):</b>												\$ 140,736	\$ 143,269	\$ 145,848	\$ 148,473	\$ 151,146	

## SCHOOLCRAFT COLLEGE; BRADNER LIBRARY - SCHEDULED MAINTENANCE PROGRAM

<b>SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:</b>			2013	<b>INFLATION RATE (%):</b>			1.8%	<b>LEGEND</b>		
<b>BUILDING SECTION (BUILDING TYPE)</b>			<b>BUILDING AGE (YRS)</b>	<b>BUILDING AREA (GSF)</b>						
BRADNER LIBRARY - TOTAL (LIBRARY)				24,236						
BRADNER LIBRARY - ORIGINAL			1963	22,011						
FLOOR AREA INCREASE AT NORTH END			2005	2,225						
<b>YEAR: 2019</b>										
<b>MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:</b>			<b>\$ 474,876</b>							
<b>REPLACEMENT VALUE FOR THE BUILDING:</b>			<b>\$ 6,285,600</b>							
<b>FACILITY CONDITION INDEX (FCI):</b>			<b>8%</b>							

  

<b>ITEM NO. CODES</b>	
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>FCI</b>	<b>BUILDING CONDITION</b>
FCI < 5%	GOOD
5% < FCI < 10%	FAIR
10% < FCI	POOR

  

**Schoolcraft College**

  

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

ITEM LOC	ITEM NO.	ITEM	FICM CODE	YEAR ITEM WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	ITEM UNITS	AVG TIME			ITEM COST	ITEM FIRST COST	DEFERRED MAINTENANCE PLAN YEAR				
							EUL (YRS)	IN USE (YRS)	RUL (YRS)			2019	2020	2021	2022	2023
<b>BUILDING ENVELOPE (includes items exterior to building)</b>											<b>\$ 306,667</b>	<b>\$ 312,187</b>	<b>\$ 317,806</b>	<b>\$ 323,527</b>	<b>\$ 329,350</b>	
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	2010	5	SF	15	3	12	\$121.50	\$ 608	\$ 676	\$ 688	\$ 701	\$ 713	\$ 726
L-	BE003	NE AND NW SLIDER DOOR REPLACEMENT .	W06	2005	2	EA	15	8	7	\$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	65	LF	30	0	--	\$137.70	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
L-	BE006	MEDIA SERVICE ASPHALT DRIVE REPAIRS / REPAVING.	SSS09	2013	500	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	--					
<b>BUILDING INTERIOR</b>											<b>\$ 111,737</b>	<b>\$ 113,748</b>	<b>\$ 115,796</b>	<b>\$ 117,880</b>	<b>\$ 120,002</b>	
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	--					

**SCHOOLCRAFT COLLEGE; BRADNER LIBRARY - SCHEDULED MAINTENANCE PROGRAM**

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	DEFERRED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
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
<b>PLUMBING SYSTEMS (may be packaged with BI item scope)</b>												\$ -	\$ -	\$ -	\$ -	\$ -
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	--					
<b>MECHANICAL SYSTEMS (may be packaged with BI item scope)</b>												\$ 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
<b>ELECTRICAL SYSTEMS (may be packaged with BI item scope)</b>												\$ 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	--					
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	--					

**SCHOOLCRAFT COLLEGE; BRADNER LIBRARY - SCHEDULED MAINTENANCE PROGRAM**

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	DEFERRED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
L-	ES015	VACANCY SENSOR LIGHTING CONTROLS.	110, 300, 410, 420, 430, 440 AND 455	2005	--	--	20	8	12	\$0.00	--					
<b>BUILDING SYSTEMS (fire, security, IT/media infrastructure)</b>												\$ -	\$ -	\$ -	\$ -	\$ -
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
<b>SPECIALTY EQUIPMENT (food service, theatre, labs, shops)</b>												\$ -	\$ -	\$ -	\$ -	\$ -
L-	SE001	LIBRARY FURNITURE REPLACEMENT - ALLOWANCE.	430	VARIOUS	--	--	--	--	--	\$0.00	--					
<b>ACCESSIBILITY IMPROVEMENTS</b>																
L-	AI001	NONE						--	--							
<b>ANNUAL FUNDING REQUIREMENTS (ROUNDED):</b>												\$ 474,876	\$ 483,424	\$ 492,125	\$ 500,984	\$ 510,001

## SCHOOLCRAFT COLLEGE; CHILDREN'S CENTER - SCHEDULED MAINTENANCE PROGRAM

SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:	2013
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INFLATION RATE (%):	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

BUILDING SECTION (BUILDING TYPE)	BUILDING AGE (YRS)	BUILDING AREA (GSF)
CHILDREN'S CENTER - TOTAL (CLASSROOM)	1995	9,597

**YEAR: 2019**

MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:	\$ 612,274
REPLACEMENT VALUE FOR THE BUILDING:	\$ 1,365,400
FACILITY CONDITION INDEX (FCI):	45%

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



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

**REMAINING USEFUL LIFE (RUL) BAROMETER**

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

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 COST	ITEM FIRST COST	DEFERRED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
<b>BUILDING ENVELOPE (includes items exterior to building)</b>												\$ 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	
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	
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	
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	
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	--					
<b>BUILDING INTERIOR</b>												\$ 160,195	\$ 163,078	\$ 166,013	\$ 169,002	\$ 172,044
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	
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	
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	
CC-	BI004	STAFF TOILET ROOM COUNTER AND SINK REPLACEMENT.	X03	2014	8	LF	15	0	15	\$214.65	\$ -	\$ -	\$ -	\$ -	\$ -	
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	
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	



**SCHOOLCRAFT COLLEGE; CHILDREN'S CENTER - SCHEDULED MAINTENANCE PROGRAM**

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	DEFERRED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
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	1995	300	SF	12	18	-6	\$7.09	\$ 2,127	\$ 2,367	\$ 2,410	\$ 2,453	\$ 2,497	\$ 2,542
CC-	BI012	ROOM CC110 CARPET REPLACEMENT.	640	1995	240	SF	12	18	-6	\$7.09	\$ 1,702	\$ 1,894	\$ 1,928	\$ 1,963	\$ 1,998	\$ 2,034
CC-	BI013	GYPSON 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
<b>PLUMBING SYSTEMS (may be packaged with BI item scope)</b>												\$ 6,190	\$ 6,302	\$ 6,415	\$ 6,531	\$ 6,648
CC-	PS001	CENTRALIZED DOMESTIC HOT WATER HEATER REPLACEMENT.	UUU24	2007	1	EA	10	6	4	\$5,562.00	\$ 5,562	\$ 6,190	\$ 6,302	\$ 6,415	\$ 6,531	\$ 6,648
<b>MECHANICAL SYSTEMS (may be packaged with BI item scope)</b>												\$ 170,731	\$ 173,804	\$ 176,932	\$ 180,117	\$ 183,359
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.	UUU25	1995	4	EA	15	18	-3	\$16,200.00	\$ 64,800	\$ 72,121	\$ 73,419	\$ 74,741	\$ 76,086	\$ 77,456
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
<b>ELECTRICAL SYSTEMS (may be packaged with BI item scope)</b>												\$ 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	--					
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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>BUILDING SYSTEMS (fire, security, IT/media infrastructure)</b>												\$ 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

**SCHOOLCRAFT COLLEGE; CHILDREN'S CENTER - SCHEDULED MAINTENANCE PROGRAM**

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	DEFERRED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
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
<b>SPECIALTY EQUIPMENT (food service, theatre, labs, shops)</b>												\$ 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
<b>ACCESSIBILITY IMPROVEMENTS</b>																
CC-	0	NONE						--	--							
<b>ANNUAL FUNDING REQUIREMENTS (ROUNDED):</b>												\$ 570,105	\$ 580,367	\$ 590,814	\$ 601,448	\$ 612,274

## SCHOOLCRAFT COLLEGE; FIREARMS TRAINING CENTER - SCHEDULED MAINTENANCE PROGRAM

SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:	2013
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INFLATION RATE (%):	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

BUILDING SECTION (BUILDING TYPE)	BUILDING AGE (YRS)	BUILDING AREA (GSF)
FIREARMS TRAINING CENTER (CLASSROOM)		26,609

**YEAR: 2019**

MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:	\$ 8,068
REPLACEMENT VALUE FOR THE BUILDING:	\$ 8,109,900
FACILITY CONDITION INDEX (FCI):	0%

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



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

**REMAINING USEFUL LIFE (RUL) BAROMETER**

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

ITEM LOC	ITEM NO.	ITEM	FICM CODE	YEAR ITEM WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	AVG TIME EUL (YRS)	IN USE (YRS)	RUL (YRS)	ITEM UNIT COST	ITEM FIRST COST	DEFERRED MAINTENANCE PLAN YEAR					
											2019	2020	2021	2022	2023	
<b>BUILDING ENVELOPE (includes items exterior to building)</b>											\$ -	\$ -	\$ -	\$ -	\$ -	
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	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>BUILDING INTERIOR</b>											\$ 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	--					
<b>PLUMBING SYSTEMS (may be packaged with BI item scope)</b>											\$ -	\$ -	\$ -	\$ -	\$ -	
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	--					
<b>MECHANICAL SYSTEMS (may be packaged with BI item scope)</b>											\$ -	\$ -	\$ -	\$ -	\$ -	
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	--					
FTC-	MS011	DUCT CLEANING.	UUU25	1989	--	--	10	24	-14	\$0.00	--					
<b>ELECTRICAL SYSTEMS (may be packaged with BI item scope)</b>											\$ -	\$ -	\$ -	\$ -	\$ -	

**SCHOOLCRAFT COLLEGE; FIREARMS TRAINING CENTER - SCHEDULED MAINTENANCE PROGRAM**

ITEM		FICM CODE	YEAR ITEM	ITEM TOTAL	AVG	TIME	ITEM	DEFERRED MAINTENANCE PLAN YEAR							
LOC	NO.		WAS PUT INTO SERVICE					ITEM UNITS	EUL (YRS)	IN USE (YRS)	RUL (YRS)	UNIT COST	ITEM FIRST COST	2019	2020
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	--				
<b>BUILDING SYSTEMS (fire, security, IT/media infrastructure)</b>											\$ -	\$ -	\$ -	\$ -	\$ -
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.	UUU14	2012	--	--	20	1	19	\$0.00	--				
FTC-	BS007	IT SYSTEMS.	UUU02	2012	--	--	20	--	--	\$0.00	--				
<b>SPECIALTY EQUIPMENT (food service, theatre, labs, shops)</b>											\$ -	\$ -	\$ -	\$ -	\$ -
FTC-	SE001	FIRING RANGE SYSTEM MAINTENANCE/REPLACEMENT.	550 / - PEPP BALLISTIC PANELS LAYOUT MODIFIED WITH SELECT PANEL REPLACEMENTS.	2012	--	--	20	1	19	\$0.00	--				
<b>ACCESSIBILITY IMPROVEMENTS</b>															
FTC-		NONE						--	--						
<b>ANNUAL FUNDING REQUIREMENTS (ROUNDED):</b>											\$ 7,513	\$ 7,648	\$ 7,785	\$ 7,926	\$ 8,068

**SCHOOLCRAFT COLLEGE; FORUM - SCHEDULED MAINTENANCE PROGRAM**

<b>SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:</b>		2013
<b>BUILDING SECTION (BUILDING TYPE)</b>	<b>BUILDING AGE (YRS)</b>	<b>BUILDING AREA (GSF)</b>
FORUM - TOTAL (CLASSROOM)		54,953
FORUM - ORIGINAL	1963	53,867
FORUM (PUMP HOUSE)	2004	1,086
FORUM (GREEN HOUSE - NOT INCLUDED IN FORUM GSF)	2006	563
FORUM (KILN SHEDS - NOT INCLUDED IN FORUM GSF)	2006	855
<b>MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:</b>		<b>\$ 1,629,385</b>
<b>REPLACEMENT VALUE FOR THE BUILDING:</b>		<b>\$ 17,934,600</b>
<b>FACILITY CONDITION INDEX (FCI):</b>		<b>9%</b>

<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



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

**REMAINING USEFUL LIFE (RUL) BAROMETER**

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

ITEM LOC	ITEM NO.	ITEM	FICM CODE	YEAR ITEM WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	ITEM UNIT	AVG TIME			ITEM COST	DEFERRED MAINTENANCE PLAN YEAR					
							EUL (YRS)	IN USE (YRS)	RUL (YRS)		ITEM FIRST COST	2019	2020	2021	2022	2023
<b>BUILDING ENVELOPE (includes items exterior to building)</b>											<b>\$ 147,747</b>	<b>\$ 150,406</b>	<b>\$ 153,113</b>	<b>\$ 155,870</b>	<b>\$ 158,675</b>	
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	W06	1963	1,200	SF	15	50	-35	\$23.63	\$ 28,356	\$ 31,560	\$ 32,128	\$ 32,706	\$ 33,295	\$ 33,894
<b>BUILDING INTERIOR</b>											<b>\$ 485,300</b>	<b>\$ 494,036</b>	<b>\$ 502,928</b>	<b>\$ 511,981</b>	<b>\$ 521,197</b>	
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

**SCHOOLCRAFT COLLEGE; FORUM - SCHEDULED MAINTENANCE PROGRAM**

LOC	ITEM NO.	ITEM	FICM CODE	YEAR ITEM WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	ITEM UNITS	AVG TIME			ITEM UNIT COST	ITEM FIRST COST	DEFERRED MAINTENANCE PLAN YEAR				
							EUL (YRS)	IN USE (YRS)	RUL (YRS)			2019	2020	2021	2022	2023
F-	BI004	INTERIOR WOOD DOORS AND DOOR HARDWARE REPLACEMENTS.	110, 115, 210, 215, 310, 315, X01 AND X03	VARIOUS	35	EA	50	--	--	\$1,350.00	\$ 47,250	\$ 52,588	\$ 53,535	\$ 54,498	\$ 55,479	\$ 56,478
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
<b>PLUMBING SYSTEMS (may be packaged with BI item scope)</b>											<b>\$ 101,570</b>	<b>\$ 103,399</b>	<b>\$ 105,260</b>	<b>\$ 107,155</b>	<b>\$ 109,083</b>	
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
<b>MECHANICAL SYSTEMS (may be packaged with BI item scope)</b>											<b>\$ 327,063</b>	<b>\$ 332,950</b>	<b>\$ 338,943</b>	<b>\$ 345,044</b>	<b>\$ 351,255</b>	
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
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	--					

**SCHOOLCRAFT COLLEGE; FORUM - SCHEDULED MAINTENANCE PROGRAM**

LOC	ITEM NO.	ITEM	FICM CODE	YEAR ITEM WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	ITEM UNITS	AVG TIME			ITEM UNIT COST	ITEM FIRST COST	DEFERRED MAINTENANCE PLAN YEAR				
							EUL (YRS)	IN USE (YRS)	RUL (YRS)			2019	2020	2021	2022	2023
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
<b>ELECTRICAL SYSTEMS (may be packaged with BI item scope)</b>												<b>\$ 227,891</b>	<b>\$ 231,993</b>	<b>\$ 236,169</b>	<b>\$ 240,420</b>	<b>\$ 244,747</b>
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
<b>BUILDING SYSTEMS (fire, security, IT/media infrastructure)</b>												<b>\$ 136,916</b>	<b>\$ 139,380</b>	<b>\$ 141,889</b>	<b>\$ 144,443</b>	<b>\$ 147,043</b>
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	--					
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.	UUU14	2004	1	LS	20	9	11	\$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
<b>SPECIALTY EQUIPMENT (food service, theatre, labs, shops)</b>												<b>\$ 48,081</b>	<b>\$ 48,946</b>	<b>\$ 49,827</b>	<b>\$ 50,724</b>	<b>\$ 51,637</b>
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	--					

**SCHOOLCRAFT COLLEGE; FORUM - SCHEDULED MAINTENANCE PROGRAM**

LOC	ITEM NO.	ITEM	FICM CODE	YEAR ITEM WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	ITEM UNITS	AVG EUL (YRS)	TIME		ITEM UNIT COST	ITEM FIRST COST	DEFERRED MAINTENANCE PLAN YEAR				
								IN USE (YRS)	RUL (YRS)			2019	2020	2021	2022	2023
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
<b>ACCESSIBILITY IMPROVEMENTS</b>												\$ 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
<b>ANNUAL FUNDING REQUIREMENTS (ROUNDED):</b>												\$ 1,517,164	\$ 1,544,473	\$ 1,572,273	\$ 1,600,574	\$ 1,629,385



**SCHOOLCRAFT COLLEGE; GROTE CENTER (FORMERLY ADMINISTRATION BUILDING)**

<b>SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:</b>	2013
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<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	

BUILDING SECTION (BUILDING TYPE)	BUILDING AGE (YRS)	BUILDING AREA (GSF)
ADMINISTRATION - TOTAL (ADMIN)	1963	15,076

YEAR: 2019

<b>MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:</b>	<b>\$ 869,271</b>
<b>REPLACEMENT VALUE FOR THE BUILDING:</b>	<b>\$ 4,095,000</b>
<b>FACILITY CONDITION INDEX (FCI):</b>	<b>21%</b>



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

LOC	ITEM NO.	ITEM	FICM CODE	YEAR ITEM WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	AVG ITEM EUL (YRS)	TIME IN USE (YRS)	RUL (YRS)	ITEM UNIT COST	ITEM FIRST COST	SCHEDULED MAINTENANCE PLAN YEAR					
											2019	2020	2021	2022	2023	
<b>BUILDING ENVELOPE (includes items exterior to building)</b>											<b>\$ 89,033</b>	<b>\$ 90,635</b>	<b>\$ 92,267</b>	<b>\$ 93,927</b>	<b>\$ 95,618</b>	
G-	BE001	EXTERIOR PAINTING (SOFFITS, FASCIA, WOOD BEAMS).	MMM16	2005	2,120	SF	15	8	7	\$2.70	\$ 5,724	\$ 6,371	\$ 6,485	\$ 6,602	\$ 6,721	\$ 6,842
G-	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
G-	BE003	FROST SLAB REPLACEMENTS AT EXTERIOR DOORS.	W06	1963	30	SF	50	50	-50	\$117.00	\$ 3,510	\$ 3,907	\$ 3,977	\$ 4,048	\$ 4,121	\$ 4,196
G-	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
G-	BE005	EXTERIOR SEALANT MAINTENANCE.	MMM16	1963	150	LF	20	50	-30	\$4.73	\$ 710	\$ 790	\$ 804	\$ 818	\$ 833	\$ 848
G-	BE006	BELL TOWER PAINTING.	MMM16	2011	--	--	15	2	13	\$0.00	--					
G-	BE007	EXTERIOR WINDOWS REPLACEMENT.	MMM16	2006	--	--	30	7	23	\$0.00	--					
G-	BE008	CLEAN BRICK EFFLORESCENCE.	MMM16	1963	--	--	10	50	-40	\$0.00	--					
G-	BE009	MASONRY MAINTENANCE.	MMM16	1963	--	--	10	50	-40	\$0.00	--					
G-	BE010	EAST AND WEST LOBBY STOREFRONT WINDOW SYSTEM MAINTENANCE.	W05	VARIOUS	--	--	30	--	--	\$0.00	--					
G-	BE011	WINDOW MAINTENANCE (EXCLUDING EAST AND WEST LOBBY STOREFRONT WINDOW SYSTEM).	MMM16	2006	--	--	30	7	23	\$0.00	--					
G-	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
G-	BE013	STANDING SEAM METAL ROOFING MAINTENANCE/REPLACEMENT.	MMM16	1998	--	--	50	15	35	\$0.00	--					
G-	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
G-	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
<b>BUILDING INTERIOR</b>											<b>\$ 154,059</b>	<b>\$ 156,832</b>	<b>\$ 159,655</b>	<b>\$ 162,529</b>	<b>\$ 165,454</b>	
G-	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
G-	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
G-	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
G-	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
G-	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
G-	BI006	FLOOR FINISH UPDATES - ALLOWANCE.	310 AND 350	VARIOUS	--	--	--	--	--	\$0.00	--					
G-	BI007	WALL FINISH UPDATES - ALLOWANCE.	310, 350, W05 AND W06	VARIOUS	--	--	--	--	--	\$0.00	--					

**SCHOOLCRAFT COLLEGE; GROTE CENTER (FORMERLY ADMINISTRATION BUILDING)**

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	SCHEDULED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
G-	BI008	A13 - PHONE SWITCHGEAR ASBESTOS FLOORING ABATEMENT AND REPLACEMENT.	Y04	2015	--	SF	--	0	--	\$5.06	--					
G-	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
G-	BI010	BOARD ROOM KITCHENETTE REPLACEMENT.	355	2012	--	--	20	1	19	\$0.00	--					
G-	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
G-	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
<b>PLUMBING SYSTEMS (may be packaged with BI item scope)</b>												\$ -	\$ -	\$ -	\$ -	\$ -
G-		NONE					--	--		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>MECHANICAL SYSTEMS (may be packaged with BI item scope)</b>												\$ 255,216	\$ 259,810	\$ 264,486	\$ 269,247	\$ 274,094
G-	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
G-	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
G-	MS003	AIR HANDLING UNIT REPLACEMENT (ORIGINAL UNIT HOUSING MODIFIED AND RECOMMISSIONED IN 2006).	UUU25	2006	--	--	25	7	18	\$0.00	--					
G-	MS004	CABINET UNIT HEATER REPLACEMENTS.	UUU25	2006	--	--	25	7	18	\$0.00	--					
G-	MS005	FINNED TUBE RADIATION MAINTENANCE.	UUU25	2006	--	--	25	7	18	\$0.00	--					
G-	MS006	INDUCED DRAFT FAN (HOT WATER BOILER STACK) MAINTENANCE.	UUU22	2006	--	--	15	7	8	\$0.00	--					
G-	MS007	RETURN AIR FAN MAINTENANCE.	UUU25	2006	--	--	20	7	13	\$0.00	--					
G-	MS008	ELECTRIC DUCT HEATER REPLACEMENTS.	UUU25	2006	--	--	10	7	3	\$0.00	--					
G-	MS009	CHILLED WATER DISTRIBUTION PUMP REPLACEMENTS.	UUU20	2006	--	--	20	7	13	\$0.00	--					
G-	MS010	HEATING HOT WATER DISTRIBUTION PUMP REPLACEMENTS.	UUU22	2006	--	--	20	7	13	\$0.00	--					
G-	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
G-	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
G-	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
G-	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
G-	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
G-	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
<b>ELECTRICAL SYSTEMS (may be packaged with BI item scope)</b>												\$ 147,623	\$ 150,280	\$ 152,985	\$ 155,739	\$ 158,542
G-	ES001	BUILDING SERVICE TRANSFORMER.	UUU04	2007	--	--	20	6	14	\$0.00	--					
G-	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
G-	ES003	STANDBY GENERATOR.	UUU25	2006	--	--	20	7	13	\$0.00	--					
G-	ES004	LIFE SAFETY AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2006	--	--	20	7	13	\$0.00	--					
G-	ES005	STANDBY POWER SYSTEMS AUTOMATIC TRANSFER SWITCH (ATS).	UUU25	2006	--	--	20	7	13	\$0.00	--					
G-	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
G-	ES007	VARIABLE FREQUENCY DRIVE (VFD).	UUU25	2006	--	--	15	7	8	\$0.00	--					
G-	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
G-	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
G-	ES010	EXIT LIGHTING.	W05 AND W06	2006	--	--	20	7	13	\$0.00	--					
G-	ES011	CORRIDOR LIGHTING.	W05 AND W06	2006	--	--	20	7	13	\$0.00	--					
G-	ES012	MEETING/CONFERENCE ROOM LIGHTING.	350	1999	--	--	20	14	6	\$0.00	--					
G-	ES013	OFFICE LIGHTING.	310	2006	--	--	20	7	13	\$0.00	--					
G-	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
G-	ES015	LIGHTING CONTROLS (OFFICES/MEETING ROOMS).	310 AND 350	2006	--	--	20	7	13	\$0.00	--					
G-	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
<b>BUILDING SYSTEMS (fire, security, IT/media infrastructure)</b>												\$ 87,805	\$ 89,386	\$ 90,995	\$ 92,632	\$ 94,300
G-	BS001	FIRE ALARM SYSTEM MAIN AND REMOTE PANELS.	UUU07	2006	--	--	20	7	13	\$0.00	--					
G-	BS002	FIRE ALARM DEVICES.	UUU07	2006	--	--	20	7	13	\$0.00	--					
G-	BS003	BOILER EPO SYSTEM.	Y04	NONE	1	EA	20	--	--	\$3,375.00	\$ 3,375	\$ 3,756	\$ 3,824	\$ 3,893	\$ 3,963	\$ 4,034
G-	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

**SCHOOLCRAFT COLLEGE; GROTE CENTER (FORMERLY ADMINISTRATION BUILDING)**

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	SCHEDULED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
G-	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
G-	BS006	SECURITY ACCESS SYSTEM.	UUU14	2004	1	LS	20	9	11	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
G-	BS007	NETWORK LABELING	UUU02	VARIOUS	1	LS	10	--	--	\$200.00	\$ 200	\$ 223	\$ 227	\$ 231	\$ 235	\$ 239
G-	BS008	NETWORK CABLE	UUU02	2015	--	EA	--	--	--	\$200.00	--					
G-	BS009	NETWORK CABLE	UUU02	2015	--	EA	--	--	--	\$25.00	--					
G-	BS010	T.P. COMMUNICATION CABLE	UUU02	2015	--	EA	--	--	--	\$100.00	--					
G-	BS011	NETWORK SYSTEMS	UUU02	VARIOUS	1	LS	10	--	--	\$12,000.00	\$ 12,000	\$ 13,356	\$ 13,596	\$ 13,841	\$ 14,090	\$ 14,344
G-	BS012	NETWORK CABLE	UUU02	VARIOUS	12	EA	10	--	--	\$200.00	\$ 2,400	\$ 2,671	\$ 2,719	\$ 2,768	\$ 2,818	\$ 2,869
G-	BS013	NETWORK CABLE	UUU02	VARIOUS	24	EA	10	--	--	\$25.00	\$ 600	\$ 668	\$ 680	\$ 692	\$ 705	\$ 717
G-	BS014	NETWORK SYSTEMS	UUU02	VARIOUS	15	EA	10	--	--	\$100.00	\$ 1,500	\$ 1,669	\$ 1,700	\$ 1,730	\$ 1,761	\$ 1,793
<b>SPECIALTY EQUIPMENT (food service, theatre, labs, shops)</b>											<b>\$ 75,126</b>	<b>\$ 76,478</b>	<b>\$ 77,855</b>	<b>\$ 79,256</b>	<b>\$ 80,683</b>	
G-	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
G-	SE002	ENTRY ELECTRONIC KIOSK.	W05	NONE	1	EA	15	--	--	\$24,300.00	\$ 24,300	\$ 27,045	\$ 27,532	\$ 28,028	\$ 28,532	\$ 29,046
<b>ACCESSIBILITY IMPROVEMENTS</b>											<b>\$ 541</b>	<b>\$ 551</b>	<b>\$ 561</b>	<b>\$ 571</b>	<b>\$ 581</b>	
G-	AI001	FIRE EXTINGUISHER ACCESSIBILITY	W05 AND W06	1963	4	EA	50	50	0	\$121.50	\$ 486	\$ 541	\$ 551	\$ 561	\$ 571	\$ 581
<b>ANNUAL FUNDING REQUIREMENTS (ROUNDED):</b>											<b>\$ 809,402</b>	<b>\$ 823,971</b>	<b>\$ 838,803</b>	<b>\$ 853,901</b>	<b>\$ 869,271</b>	

**SCHOOLCRAFT COLLEGE; 7 MILE BUILDING - SCHEDULED MAINTENANCE PROGRAM**

<b>SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:</b>	2013
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<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

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: 2019**

<b>MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:</b>	<b>\$ 1,244,511</b>
<b>REPLACEMENT VALUE FOR THE BUILDING:</b>	<b>\$ 26,763,000</b>
<b>FACILITY CONDITION INDEX (FCI):</b>	<b>5%</b>



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

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	DEFERRED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
<b>BUILDING ENVELOPE (includes items exterior to building)</b>												\$ 122,208	\$ 124,408	\$ 126,647	\$ 128,927	\$ 131,248
JC-	BE001	METAL WALL PANELS	MMM16	2014	15	EA	50	0	50	\$1,350.00	\$ -	\$ -	\$ -	\$ -	\$ -	
JC-	BE002	METAL WALL PANEL SEALANT REPLACEMENT	MMM16	2014	1	LS	25	0	25	\$381,456.00	\$ -	\$ -	\$ -	\$ -	\$ -	
JC-	BE003	ENTRANCE DOOR REPLACEMENTS	W05 AND W06	2014	3	EA	25	0	25	\$2,120.00	\$ -	\$ -	\$ -	\$ -	\$ -	
JC-	BE004	METAL WALL PANEL SOFFIT VENT REPLACEMENT	MMM16	2014	15	EA	50	0	50	\$540.00	\$ -	\$ -	\$ -	\$ -	\$ -	
JC-	BE005	ROOF SCREEN WALL MAINTENANCE	MMM16	1985	300	SF	25	28	-3	\$42.00	\$ 12,600	\$ 14,024	\$ 14,276	\$ 14,533	\$ 14,795	
JC-	BE006	DOCK LIFT MAINTENANCE - ELIMINATED	W04	--	1	EA	15	--	-13	\$21,600.00	\$ -	\$ 24,040	\$ 24,473	\$ 24,914	\$ 25,362	
JC-	BE007	LOADING DOCK CONCRETE WALL REPLACEMENT - REPAIRED	W04	2017	1	LF	25	0	-3	\$63,788.00	\$ -	\$ 70,995	\$ 72,273	\$ 73,573	\$ 74,898	
JC-	BE008	METAL FLASHING REPAIR	MMM16	1985	5	LF	20	28	-8	\$2,363.00	\$ 11,815	\$ 13,150	\$ 13,387	\$ 13,627	\$ 13,873	
<b>BUILDING INTERIOR</b>												\$ 1,803	\$ 1,835	\$ 1,869	\$ 1,902	\$ 1,936
JC-	BI001	STAIR WINDOW SAFETY IMPROVEMENTS	W07	1985	3	EA	50	28	22	\$540.00	\$ 1,620	\$ 1,803	\$ 1,835	\$ 1,869	\$ 1,902	
JC-	BI002	STAIR ENCLOSURE IMPROVEMENTS	W08	2014	--	--	50	0	50	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>PLUMBING SYSTEMS (may be packaged with BI item scope)</b>												\$ -	\$ -	\$ -	\$ -	\$ -
		NONE														
<b>MECHANICAL SYSTEMS (may be packaged with BI item scope)</b>												\$ 629,105	\$ 640,429	\$ 651,957	\$ 663,692	\$ 675,639
JC-	MS001	A/B WING CHILLER.	UUU20	1985	1	EA	20	28	-8	\$303,750.00	\$ 303,750	\$ -	\$ -	\$ -	\$ -	
JC-	MS002	DEMOLISH AHU-1 HUMIDIFIER	UUU25	2014	1	EA	0	0	0	\$1,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	
JC-	MS003	CHW PUMPS.	UUU20	1985	2	EA	20	28	-8	\$31,725.00	\$ 63,450	\$ 70,618	\$ 71,890	\$ 73,184	\$ 74,501	
JC-	MS004	BOILER STACKS.	UUU22	1985	3	EA	25	28	-3	\$13,500.00	\$ 40,500	\$ 45,076	\$ 45,887	\$ 46,713	\$ 47,554	
JC-	MS005	BUILDING CONTROLS.	UUU06	2014	1	LOT	20	0	20	\$408,375.00	\$ -	\$ -	\$ -	\$ -	\$ -	
JC-	MS006	A/B WING BOILERS.	UUU22	1985	3	EA	20	28	-8	\$34,762.50	\$ 104,288	\$ 116,070	\$ 118,159	\$ 120,286	\$ 122,451	
JC-	MS007	C WING BOILERS.	UUU22	1985	2	EA	20	28	-8	\$48,262.50	\$ 96,525	\$ 107,430	\$ 109,364	\$ 111,333	\$ 113,337	
JC-	MS008	C WING CHILLER.	UUU20	2013	1	EA	20	0	20	\$287,250.00	\$ -	\$ -	\$ -	\$ -	\$ -	
JC-	MS009	CHW PUMPS.	UUU20	2014	2	EA	20	0	20	\$21,262.50	\$ -	\$ -	\$ -	\$ -	\$ -	
JC-	MS010	DOMESTIC WATER BOOSTER PUMP.	UUU24	1985	1	EA	10	28	-18	\$14,512.50	\$ 14,513	\$ 16,152	\$ 16,443	\$ 16,739	\$ 17,040	
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	
JC-	MS012	FIN TUBE RADIATION.	UUU22	2014	100	LF	25	0	25	\$108.00	\$ -	\$ -	\$ -	\$ -	\$ -	

**SCHOOLCRAFT COLLEGE; 7 MILE BUILDING - SCHEDULED MAINTENANCE PROGRAM**

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
<b>ELECTRICAL SYSTEMS (may be packaged with BI item scope)</b>												<b>\$ 405,681</b>	<b>\$ 412,983</b>	<b>\$ 420,417</b>	<b>\$ 427,984</b>	<b>\$ 435,688</b>
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	\$ -	\$ 112,689	\$ 114,717	\$ 116,782	\$ 118,884	\$ 121,024
JC-	ES002	BUILDING SERVICE TRANSFORMER T-2. RECONDITIONED AND ELECTRICALLY TESTED IN 2017.	UUU04	2017	1	EA	20	0	-8	\$101,250.00	\$ -	\$ 112,689	\$ 114,717	\$ 116,782	\$ 118,884	\$ 121,024
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	--					
<b>BUILDING SYSTEMS (fire, security, IT/media infrastructure)</b>												<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
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.	UUU14	2014	--	--	20	0	20	\$0.00	--					
JC-	BS007	LIGHTNING PROTECTION SYSTEM	UUU25	2014	--	--	20	0	20	\$0.00	--					
<b>SPECIALTY EQUIPMENT (food service, theatre, labs, shops)</b>												<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
JC-	SE001	EAST PASSENGER ELEVATORS	W02	2014	1	LS	25	0	25	\$350,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>ACCESSIBILITY IMPROVEMENTS</b>												<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
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	--					
<b>ANNUAL FUNDING REQUIREMENTS (ROUNDED):</b>												<b>\$ 1,158,797</b>	<b>\$ 1,179,656</b>	<b>\$ 1,200,889</b>	<b>\$ 1,222,505</b>	<b>\$ 1,244,511</b>

**SCHOOLCRAFT COLLEGE; LIBERAL ARTS - SCHEDULED MAINTENANCE PROGRAM**

<b>SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:</b>	2013
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<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

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: 2019**

<b>MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:</b>	<b>\$ 2,000,983</b>
<b>REPLACEMENT VALUE FOR THE BUILDING:</b>	<b>\$ 12,432,400</b>
<b>FACILITY CONDITION INDEX (FCI):</b>	<b>16%</b>

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



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

REMAINING USEFUL LIFE (RUL) BAROMETER	
<span style="background-color: red; width: 20px; height: 10px; display: inline-block;"></span>	RUL = 1 YEAR OR LESS
<span style="background-color: yellow; width: 20px; height: 10px; display: inline-block;"></span>	RUL = 5 YEARS
<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>	RUL = 10 YEARS OR GREATER

ITEM LOC 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	DEFERRED MAINTENANCE PLAN YEAR				
											2019	2020	2021	2022	2023
<b>BUILDING ENVELOPE (includes items exterior to building)</b>											<b>\$ 57,520</b>	<b>\$ 58,555</b>	<b>\$ 59,609</b>	<b>\$ 60,682</b>	<b>\$ 61,774</b>
LA-BE001	EXTERIOR SOFFIT, FASCIA, AND WINDOW/DOOR HEADER PAINTING.	MMM16	2006	4,700	SF	15	7	8	\$4.05	\$ 19,035	\$ 21,186	\$ 21,567	\$ 21,955	\$ 22,350	\$ 22,753
LA-BE002	SLIDER DOOR MAINTENANCE/REPLACEMENT.	W06	VARIOUS	--	--	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
<b>BUILDING INTERIOR</b>											<b>\$ 518,180</b>	<b>\$ 527,507</b>	<b>\$ 537,002</b>	<b>\$ 546,668</b>	<b>\$ 556,508</b>
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
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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

**SCHOOLCRAFT COLLEGE; LIBERAL ARTS - SCHEDULED MAINTENANCE PROGRAM**

LOC	ITEM NO.	ITEM	FICM CODE	YEAR ITEM WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	ITEM UNITS	AVG TIME			ITEM COST	ITEM FIRST COST	DEFERRED MAINTENANCE PLAN YEAR				
							EUL (YRS)	IN USE (YRS)	RUL (YRS)			2019	2020	2021	2022	2023
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.	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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>PLUMBING SYSTEMS (may be packaged with BI item scope)</b>											\$ -	\$ -	\$ -	\$ -	\$ -	
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	--					
<b>MECHANICAL SYSTEMS (may be packaged with BI item scope)</b>											\$ 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
<b>ELECTRICAL SYSTEMS (may be packaged with BI item scope)</b>											\$ 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	--					

**SCHOOLCRAFT COLLEGE; LIBERAL ARTS - SCHEDULED MAINTENANCE PROGRAM**

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	DEFERRED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
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
<b>BUILDING SYSTEMS (fire, security, IT/media infrastructure)</b>												<b>\$ 200,476</b>	<b>\$ 204,085</b>	<b>\$ 207,758</b>	<b>\$ 211,498</b>	<b>\$ 215,305</b>
LA-	BS001	FIRE ALARM SYSTEM MAIN AND REMOTE PANELS.	UUU07	2007	--	--	20	6	14	\$0.00	--					
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.	UUU14 / 2018 EXTERIOR DOOR CARD ACCESS & GALAXY PANEL INSTALLED.	2004	1	LS	20	9	11	\$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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>SPECIALTY EQUIPMENT (food service, theatre, labs, shops)</b>												<b>\$ 93,156</b>	<b>\$ 94,833</b>	<b>\$ 96,540</b>	<b>\$ 98,278</b>	<b>\$ 100,047</b>
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	--					
<b>ACCESSIBILITY IMPROVEMENTS</b>												<b>\$ 37,563</b>	<b>\$ 38,239</b>	<b>\$ 38,927</b>	<b>\$ 39,628</b>	<b>\$ 40,341</b>
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
<b>ANNUAL FUNDING REQUIREMENTS (ROUNDED):</b>												<b>\$ 1,863,169</b>	<b>\$ 1,896,706</b>	<b>\$ 1,930,847</b>	<b>\$ 1,965,602</b>	<b>\$ 2,000,983</b>



**SCHOOLCRAFT COLLEGE; MCDOWELL CENTER - SCHEDULED MAINTENANCE PROGRAM**

<b>SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:</b>	2013
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<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

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

**YEAR: 2019**

<b>MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:</b>	<b>\$ 2,591,212</b>
<b>REPLACEMENT VALUE FOR THE BUILDING:</b>	<b>\$ 16,857,100</b>
<b>FACILITY CONDITION INDEX (FCI):</b>	<b>16%</b>



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**

<span style="background-color: red; width: 20px; height: 10px; display: inline-block;"></span>	<b>RUL = 1 YEAR OR LESS</b>
<span style="background-color: yellow; width: 20px; height: 10px; display: inline-block;"></span>	<b>RUL = 5 YEARS</b>
<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>	<b>RUL = 10 YEARS OR GREATER</b>

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	SCHEDULED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
<b>BUILDING ENVELOPE (includes items exterior to building)</b>												<b>\$ 567,007</b>	<b>\$ 577,213</b>	<b>\$ 587,603</b>	<b>\$ 598,180</b>	<b>\$ 608,947</b>
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	\$ -	\$ 70,118	\$ 71,380	\$ 72,665	\$ 73,973	\$ 75,304
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
<b>BUILDING INTERIOR</b>												<b>\$ 345,747</b>	<b>\$ 351,970</b>	<b>\$ 358,306</b>	<b>\$ 364,755</b>	<b>\$ 371,321</b>
MC-	BI001	REPLACEMENT OF CORRIDOR BOOTHS AND BENCHES WITH LAPTOP POWER.	650 AND W05	2015	3	EA	20	0	--	\$650.00	\$ -	\$ 2,170	\$ 2,209	\$ 2,249	\$ 2,290	\$ 2,331
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

**SCHOOLCRAFT COLLEGE; MCDOWELL CENTER - SCHEDULED MAINTENANCE PROGRAM**

LOC	ITEM NO.	ITEM	FICM CODE	YEAR ITEM	ITEM TOTAL QUANTITY	ITEM UNITS	AVG EUL (YRS)	TIME IN USE (YRS)	RUL (YRS)	ITEM UNIT COST	ITEM FIRST COST	SCHEDULED MAINTENANCE PLAN YEAR				
				WAS PUT INTO SERVICE								2019	2020	2021	2022	2023
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	\$ -	\$ 2,504	\$ 2,549	\$ 2,595	\$ 2,642	\$ 2,689
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
<b>PLUMBING SYSTEMS (may be packaged with BI item scope)</b>												\$ 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
<b>MECHANICAL SYSTEMS (may be packaged with BI item scope)</b>												\$ 1,260,726	\$ 1,283,419	\$ 1,306,521	\$ 1,330,038	\$ 1,353,979
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.	UUU25 / 2018 - MC105 SUITE DUCT SYSTEM CLEANING.	NONE	48,500	SF	10	--	--	\$0.25	\$ 12,500	\$ 13,912	\$ 14,163	\$ 14,418	\$ 14,677	\$ 14,941
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
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

**SCHOOLCRAFT COLLEGE; MCDOWELL CENTER - SCHEDULED MAINTENANCE PROGRAM**

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	SCHEDULED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
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
<b>ELECTRICAL SYSTEMS (may be packaged with BI item scope)</b>												\$ 217,309	\$ 221,221	\$ 225,203	\$ 229,256	\$ 233,383
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	\$ 10,000	\$ 11,130	\$ 11,330	\$ 11,534	\$ 11,742	\$ 11,953
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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>BUILDING SYSTEMS (fire, security, IT/media infrastructure)</b>												\$ 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	--					
MC-	BS006	SECURITY ACCESS SYSTEM.	UUU14 / 2018 - CODE BLUE PANIC BUTTONS ADDED TO 2ND FLR VP OFFICE SUITE.	2015	--	--	20	-2	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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>SPECIALTY EQUIPMENT (food service, theatre, labs, shops)</b>												\$ 9,460	\$ 9,631	\$ 9,804	\$ 9,980	\$ 10,160
MC-	SE001	ELEVATOR MAJOR MAINTENANCE.	W02	1994	1	LS	25	19	6	\$8,500.00	\$ 8,500	\$ 9,460	\$ 9,631	\$ 9,804	\$ 9,980	\$ 10,160
<b>ACCESSIBILITY IMPROVEMENTS</b>												\$ 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	\$ 4,662
MC-	AI002	COAT RACK ADJUSTMENTS	X03	UNKNOWN	1	EA	20	--	--	\$255.00	\$ 255	\$ 284	\$ 289	\$ 294	\$ 299	\$ 305
<b>ANNUAL FUNDING REQUIREMENTS (ROUNDED):</b>												\$ 2,412,748	\$ 2,456,177	\$ 2,500,388	\$ 2,545,395	\$ 2,591,212

**SCHOOLCRAFT COLLEGE; PHYSICAL EDUCATION - SCHEDULED MAINTENANCE PROGRAM**

<b>SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:</b>	2013
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<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

BUILDING SECTION (BUILDING TYPE)	BUILDING AGE (YRS)	BUILDING AREA (GSF)
PHYSICAL EDUCATION (CLASSROOM)	1968	94,045

**YEAR: 2019**

<b>MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:</b>	<b>\$ 3,488,899</b>
<b>REPLACEMENT VALUE FOR THE BUILDING:</b>	<b>\$ 23,821,500</b>
<b>FACILITY CONDITION INDEX (FCI):</b>	<b>16%</b>



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

ITEM LOC	ITEM NO.	ITEM	FCM CODE	YEAR ITEM WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	AVG ITEM EUL (YRS)	TIME IN USE (YRS)	RUL (YRS)	ITEM UNIT COST	ITEM FIRST COST	DEFERRED MAINTENANCE PLAN YEAR					
											2019	2020	2021	2022	2023	
<b>BUILDING ENVELOPE (includes items exterior to building)</b>											<b>\$ 735,314</b>	<b>\$ 748,550</b>	<b>\$ 762,023</b>	<b>\$ 775,740</b>	<b>\$ 789,703</b>	
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	2006	1	LS	15	7	8	\$20,925.00	\$ 20,925	\$ 23,289	\$ 23,708	\$ 24,135	\$ 24,569	\$ 25,012
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
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
<b>BUILDING INTERIOR</b>											<b>\$ 425,907</b>	<b>\$ 433,573</b>	<b>\$ 441,378</b>	<b>\$ 449,322</b>	<b>\$ 457,410</b>	

**SCHOOLCRAFT COLLEGE; PHYSICAL EDUCATION - SCHEDULED MAINTENANCE PROGRAM**

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	DEFERRED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
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 AND LIGHTING IMPROVEMENTS.	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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>PLUMBING SYSTEMS (may be packaged with BI item scope)</b>												<b>\$ 374,654</b>	<b>\$ 381,397</b>	<b>\$ 388,262</b>	<b>\$ 395,251</b>	<b>\$ 402,366</b>
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
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
<b>MECHANICAL SYSTEMS (may be packaged with BI item scope)</b>												<b>\$ 223,486</b>	<b>\$ 227,509</b>	<b>\$ 231,604</b>	<b>\$ 235,773</b>	<b>\$ 240,017</b>

**SCHOOLCRAFT COLLEGE; PHYSICAL EDUCATION - SCHEDULED MAINTENANCE PROGRAM**

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	DEFERRED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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
<b>ELECTRICAL SYSTEMS (may be packaged with BI item scope)</b>												<b>\$ 659,200</b>	<b>\$ 671,066</b>	<b>\$ 683,145</b>	<b>\$ 695,442</b>	<b>\$ 707,960</b>
PE-	ES001	BUILDING SERVICE TRANSFORMER.	UUU04	2012	--	--	20	1	19	\$0.00	--					

**SCHOOLCRAFT COLLEGE; PHYSICAL EDUCATION - SCHEDULED MAINTENANCE PROGRAM**

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	DEFERRED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
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.	520	2012	--	--	30	1	29	\$0.00	--					
<b>BUILDING SYSTEMS (fire, security, IT/media infrastructure)</b>												<b>\$ 490,700</b>	<b>\$ 499,532</b>	<b>\$ 508,524</b>	<b>\$ 517,677</b>	<b>\$ 526,996</b>
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.	UUU14	2004	1	LS	20	9	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
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
<b>SPECIALTY EQUIPMENT (food service, theatre, labs, shops)</b>												<b>\$ 255,206</b>	<b>\$ 259,800</b>	<b>\$ 264,476</b>	<b>\$ 269,237</b>	<b>\$ 274,083</b>
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

**SCHOOLCRAFT COLLEGE; PHYSICAL EDUCATION - SCHEDULED MAINTENANCE PROGRAM**

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	DEFERRED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
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
<b>ACCESSIBILITY IMPROVEMENTS</b>												<b>\$ 84,141</b>	<b>\$ 85,656</b>	<b>\$ 87,197</b>	<b>\$ 88,767</b>	<b>\$ 90,365</b>
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
<b>ANNUAL FUNDING REQUIREMENTS (ROUNDED):</b>												<b>\$ 3,248,608</b>	<b>\$ 3,307,082</b>	<b>\$ 3,366,610</b>	<b>\$ 3,427,209</b>	<b>\$ 3,488,899</b>



**SCHOOLCRAFT COLLEGE; RADCLIFF CENTER - SCHEDULED MAINTENANCE PROGRAM**

<b>SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:</b>	2013
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<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

BUILDING SECTION (BUILDING TYPE)	BUILDING AGE (YRS)	BUILDING AREA (GSF)
RADCLIFF CENTER (CLASSROOM)	1960	87,433
RADCLIFF CENTER (VEHICLE STORAGE)	1995	1,020

**YEAR: 2019**

<b>MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:</b>	<b>\$ 7,529,657</b>
<b>REPLACEMENT VALUE FOR THE BUILDING:</b>	<b>\$ 22,003,200</b>
<b>FACILITY CONDITION INDEX (FCI):</b>	<b>34%</b>

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



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

**REMAINING USEFUL LIFE (RUL) BAROMETER**

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

ITEM LOC	ITEM NO.	ITEM	FICM CODE	YEAR ITEM WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	AVG ITEM EUL (YRS)	TIME IN USE (YRS)	RUL (YRS)	ITEM UNIT COST	ITEM FIRST COST	DEFERRED MAINTENANCE PLAN YEAR					
											2019	2020	2021	2022	2023	
<b>BUILDING ENVELOPE (includes items exterior to building)</b>											<b>\$ 1,101,583</b>	<b>\$ 1,121,411</b>	<b>\$ 1,141,597</b>	<b>\$ 1,162,146</b>	<b>\$ 1,183,064</b>	
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
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	--					

**SCHOOLCRAFT COLLEGE; RADCLIFF CENTER - SCHEDULED MAINTENANCE PROGRAM**

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	DEFERRED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
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
<b>BUILDING INTERIOR</b>												<b>\$ 1,204,318</b>	<b>\$ 1,225,996</b>	<b>\$ 1,248,064</b>	<b>\$ 1,270,529</b>	<b>\$ 1,293,399</b>
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
<b>PLUMBING SYSTEMS (may be packaged with BI item scope)</b>												<b>\$ 306,189</b>	<b>\$ 311,700</b>	<b>\$ 317,311</b>	<b>\$ 323,022</b>	<b>\$ 328,837</b>
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
<b>MECHANICAL SYSTEMS (may be packaged with BI item scope)</b>												<b>\$ 2,680,914</b>	<b>\$ 2,729,171</b>	<b>\$ 2,778,296</b>	<b>\$ 2,828,305</b>	<b>\$ 2,879,214</b>
RC-	MS001	CONVERT REMAINING PNEUMATIC TEMPERATURE CONTROLS TO SCHOOLCRAFT COLLEGE STANDARD JCI DDC TEMPERATURE CONTROLS NETWORK.	UU06	VARIOUS	87,000	SF	20	--	--	\$6.08	\$ 528,960	\$ 588,721	\$ 599,318	\$ 610,106	\$ 621,088	\$ 632,267
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

**SCHOOLCRAFT COLLEGE; RADCLIFF CENTER - SCHEDULED MAINTENANCE PROGRAM**

LOC	ITEM NO.	ITEM	FICM CODE	YEAR ITEM WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	ITEM UNITS	AVG TIME			ITEM UNIT COST	ITEM FIRST COST	DEFERRED MAINTENANCE PLAN YEAR				
							EUL (YRS)	IN USE (YRS)	RUL (YRS)			2019	2020	2021	2022	2023
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	--					
<b>ELECTRICAL SYSTEMS (may be packaged with BI item scope)</b>											<b>\$ 1,397,823</b>	<b>\$ 1,422,984</b>	<b>\$ 1,448,597</b>	<b>\$ 1,474,672</b>	<b>\$ 1,501,216</b>	
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

**SCHOOLCRAFT COLLEGE; RADCLIFF CENTER - SCHEDULED MAINTENANCE PROGRAM**

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	DEFERRED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
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
<b>BUILDING SYSTEMS (fire, security, IT/media infrastructure)</b>												<b>\$ 151,807</b>	<b>\$ 154,540</b>	<b>\$ 157,322</b>	<b>\$ 160,153</b>	<b>\$ 163,036</b>
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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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
<b>SPECIALTY EQUIPMENT (food service, theatre, labs, shops)</b>												<b>\$ 111,187</b>	<b>\$ 113,188</b>	<b>\$ 115,225</b>	<b>\$ 117,299</b>	<b>\$ 119,411</b>
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
<b>ACCESSIBILITY IMPROVEMENTS</b>												<b>\$ 57,246</b>	<b>\$ 58,276</b>	<b>\$ 59,325</b>	<b>\$ 60,393</b>	<b>\$ 61,480</b>

**SCHOOLCRAFT COLLEGE; RADCLIFF CENTER - SCHEDULED MAINTENANCE PROGRAM**

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	DEFERRED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
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
<b>ANNUAL FUNDING REQUIREMENTS (ROUNDED):</b>												<b>\$ 7,011,067</b>	<b>\$ 7,137,266</b>	<b>\$ 7,265,737</b>	<b>\$ 7,396,520</b>	<b>\$ 7,529,657</b>

## SCHOOLCRAFT COLLEGE; SERVICE BUILDING - SCHEDULED MAINTENANCE PROGRAM

<b>SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:</b>	2013	
<b>BUILDING SECTION (BUILDING TYPE)</b>	<b>BUILDING AGE (YRS)</b>	<b>BUILDING AREA (GSF)</b>
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
<b>MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:</b>		<b>\$ 1,866,433</b>
<b>REPLACEMENT VALUE FOR THE BUILDING:</b>		<b>\$ 8,474,200</b>
<b>FACILITY CONDITION INDEX (FCI):</b>		<b>22%</b>

<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



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

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

ITEM LOC	ITEM NO.	ITEM	FICM CODE	YEAR ITEM WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	ITEM UNITS	AVG TIME IN USE (YRS)	EUL (YRS)	RUL (YRS)	ITEM COST	ITEM FIRST COST	DEFERRED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
<b>BUILDING ENVELOPE (includes items exterior to building)</b>												<b>\$ 375,848</b>	<b>\$ 382,613</b>	<b>\$ 389,500</b>	<b>\$ 396,511</b>	<b>\$ 403,648</b>
SB-	BE001	EXTERIOR WINDOW REPLACEMENT.	MMM16	VARIOUS	--	--	30	--	--	\$0.00	--					
SB-	BE002	ASBESTOS CONTAINING FASCIA PANEL REPLACEMENT WITH STANDING SEAM METAL ROOFING PANELS.	MMM16	1969	200	SF	25	44	-19	\$12.15	\$ 2,430	\$ 2,705	\$ 2,753	\$ 2,803	\$ 2,853	\$ 2,905
SB-	BE003	MANSARD METAL ROOFING PANEL MAINTENANCE/REPLACEMENT.	MMM16	1969	6,100	SF	40	44	-4	\$13.37	\$ 81,557	\$ 90,771	\$ 92,405	\$ 94,068	\$ 95,762	\$ 97,485
SB-	BE004	DOCK/WAREHOUSE REROOFING.	MMM16	1995	11,500	SF	25	18	7	\$16.20	\$ 186,300	\$ 207,348	\$ 211,080	\$ 214,880	\$ 218,747	\$ 222,685
SB-	BE005	REROOF OFFICES/SHOPS/STORAGE AREAS AT NORTH SIDE OF BUILDING.	MMM16	2004	--	--	25	9	16	\$0.00	--					
SB-	BE006	REROOF DOCK/ELECTRICAL PRIMARY ROOM.	MMM16	2005	--	--	25	8	17	\$0.00	--					
SB-	BE007	DOCK AWNING REROOFING.	MMM16	2006	--	--	25	7	18	\$0.00	--					
SB-	BE008	BOOKSTORE EXPANSION SECTION REROOFING.	MMM16	2011	--	--	25	2	23	\$0.00	--					
SB-	BE009	GARAGE ROLL-UP DOOR REPLACEMENTS.	730 AND 740	VARIOUS	2	EA	25	--	--	\$6,750.00	\$ 13,500	\$ 15,025	\$ 15,296	\$ 15,571	\$ 15,851	\$ 16,137
SB-	BE010	MAIN ENTRY DOOR AND WINDOW SYSTEM REPLACEMENT.	W05	1969	75	SF	25	44	-19	\$141.75	\$ 10,631	\$ 11,832	\$ 12,045	\$ 12,262	\$ 12,483	\$ 12,708
SB-	BE011	MASONRY MAINTENANCE.	MMM16	2004	1	LS	10	9	1	\$4,000.00	\$ 4,000	\$ 4,452	\$ 4,532	\$ 4,614	\$ 4,697	\$ 4,781
SB-	BE012	SERVICE YARD SOUTHWEST CONCRETE STAIR REPAIRS.	W07	2015	1	LS	25	0	25	\$7,830.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SB-	BE013	SERVICE YARD CONCRETE PAD REPAIRS.	SSS09	1969	1	LS	25	44	-19	\$2,600.00	\$ 2,600	\$ 2,894	\$ 2,946	\$ 2,999	\$ 3,053	\$ 3,108
SB-	BE014	DOCK AWNING MAINTENANCE.	W04	2006	--	--	20	7	13	\$0.00	--					
SB-	BE015	SERVICE VEHICLE AWNING AESTHETIC WORK AND WEST END EXPANSION TO PROTECT EXPOSED EQUIPMENT AND VEHICLES.	MMM16	NONE	1	LS	20	--	--	\$5,000.00	\$ 5,000	\$ 5,565	\$ 5,665	\$ 5,767	\$ 5,871	\$ 5,977
SB-	BE016	EXTERIOR SEALANT MAINTENANCE.	MMM16	VARIOUS	1	LS	20	--	--	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SB-	BE017	VEHICLE STORAGE YARD GUARD POSTS UPGRADE.	SSS04	1969	7	EA	25	44	-19	\$405.00	\$ 2,835	\$ 3,155	\$ 3,212	\$ 3,270	\$ 3,329	\$ 3,389
SB-	BE018	GARAGE ROLL-UP DOOR JAMB REPAIR.	730	1969	14	EA	10	44	-34	\$743.00	\$ 10,402	\$ 11,577	\$ 11,786	\$ 11,998	\$ 12,214	\$ 12,434
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

**SCHOOLCRAFT COLLEGE; SERVICE BUILDING - SCHEDULED MAINTENANCE PROGRAM**

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	DEFERRED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
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
<b>BUILDING INTERIOR</b>												<b>\$ 40,517</b>	<b>\$ 41,246</b>	<b>\$ 41,989</b>	<b>\$ 42,744</b>	<b>\$ 43,514</b>
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
<b>PLUMBING SYSTEMS (may be packaged with BI item scope)</b>												<b>\$ 46,189</b>	<b>\$ 47,020</b>	<b>\$ 47,866</b>	<b>\$ 48,728</b>	<b>\$ 49,605</b>
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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>MECHANICAL SYSTEMS (may be packaged with BI item scope)</b>												<b>\$ 354,205</b>	<b>\$ 360,581</b>	<b>\$ 367,071</b>	<b>\$ 373,679</b>	<b>\$ 380,405</b>
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	--					
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	--					
<b>ELECTRICAL SYSTEMS (may be packaged with BI item scope)</b>												<b>\$ 414,555</b>	<b>\$ 422,017</b>	<b>\$ 429,613</b>	<b>\$ 437,347</b>	<b>\$ 445,219</b>
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	--					

**SCHOOLCRAFT COLLEGE; SERVICE BUILDING - SCHEDULED MAINTENANCE PROGRAM**

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	DEFERRED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
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
<b>BUILDING SYSTEMS (fire, security, IT/media infrastructure)</b>												<b>\$ 127,213</b>	<b>\$ 129,503</b>	<b>\$ 131,834</b>	<b>\$ 134,207</b>	<b>\$ 136,623</b>
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.	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	--					
<b>SPECIALTY EQUIPMENT (food service, theatre, labs, shops)</b>												<b>\$ 379,359</b>	<b>\$ 386,187</b>	<b>\$ 393,138</b>	<b>\$ 400,215</b>	<b>\$ 407,419</b>
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
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	--					



**SCHOOLCRAFT COLLEGE; SERVICE BUILDING - SCHEDULED MAINTENANCE PROGRAM**

ITEM		FICM CODE	YEAR ITEM	ITEM TOTAL QUANTITY	ITEM UNITS	AVG	TIME	RUL	ITEM	ITEM COST	DEFERRED MAINTENANCE PLAN YEAR				
LOC	NO.		ITEM			WAS PUT INTO SERVICE	EUL (YRS)		IN USE (YRS)		UNIT	FIRST COST	2019	2020	2021
<b>ACCESSIBILITY IMPROVEMENTS</b>															
<b>ANNUAL FUNDING REQUIREMENTS (ROUNDED):</b>											<b>\$ 1,737,886</b>	<b>\$ 1,769,168</b>	<b>\$ 1,801,013</b>	<b>\$ 1,833,431</b>	<b>\$ 1,866,433</b>

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

<b>SCHEDULED MAINTENANCE PROGRAM - YEAR ZERO:</b>	2013	
<b>BUILDING SECTION (BUILDING TYPE)</b>	<b>BUILDING AGE (YRS)</b>	<b>BUILDING AREA (GSF)</b>
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
<b>MAXIMUM MAINTENANCE BACKLOG VALUE FOR BUILDING:</b>	<b>\$ 12,223,875</b>	<b>- YEAR: 2019</b>
<b>REPLACEMENT VALUE FOR THE BUILDING:</b>	<b>\$ 51,351,900</b>	
<b>FACILITY CONDITION INDEX (FCI):</b>	<b>24%</b>	

<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



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

REMAINING USEFUL LIFE (RUL) BAROMETER	
<span style="background-color: red; width: 20px; height: 10px; display: inline-block;"></span>	RUL = 1 YEAR OR LESS
<span style="background-color: yellow; width: 20px; height: 10px; display: inline-block;"></span>	RUL = 5 YEARS
<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>	RUL = 10 YEARS OR GREATER

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 COST	ITEM FIRST COST	DEFERRED MAINTENANCE PLAN YEAR				
												2019	2020	2021	2022	2023
<b>BUILDING ENVELOPE (includes items exterior to building)</b>												\$ 6,930,764	\$ 7,055,518	\$ 7,182,517	\$ 7,311,803	\$ 7,443,415
VT-	BE001	WATERMAN WING (ORIGINAL) HIGH BAY REROOF.	MMM16	1996	131,000	SF	25	17	8	\$22.95	\$ 3,006,450	\$ 3,346,113	\$ 3,406,343	\$ 3,467,658	\$ 3,530,075	\$ 3,593,617
VT-	BE002	WATERMAN WING (EXPANSION) REROOF.	MMM16	1997	131,000	SF	25	16	9	\$22.95	\$ 3,006,450	\$ 3,346,113	\$ 3,406,343	\$ 3,467,658	\$ 3,530,075	\$ 3,593,617
VT-	BE003	VISTATECH SINGLE-PLY MEMBRANE REROOFING.	MMM16	2002	--	--	25	11	14	\$0.00	--					
VT-	BE004	VISTATECH STANDING SEAM METAL MAINTENANCE/REPLACEMENT.	MMM16	2002	--	--	50	11	39	\$0.00	--					
VT-	BE005	WATERMAN WING (ORIGINAL) REROOF.	MMM16	2009	--	--	25	4	21	\$0.00	--					
VT-	BE006	WATERMAN WING (ORIGINAL) HIGH BAY STANDING SEAM METAL ROOFING MAINTENANCE/REPLACEMENT.	MMM16	2009	--	--	50	4	46	\$0.00	--					
VT-	BE007	WATERMAN FOOD SERVICE DOCK STEEL FASCIA PANEL REPLACEMENT.	MMM16	1981	800	SF	25	32	-7	\$55.00	\$ 44,000	\$ 48,971	\$ 49,853	\$ 50,750	\$ 51,663	\$ 52,593
VT-	BE008	WATERMAN ROOF-MOUNTED, STEEL EQUIPMENT SCREEN WALL MAINTENANCE/REPLACEMENT.	MMM16	1981	1,700	SF	15	32	-17	\$48.00	\$ 81,600	\$ 90,819	\$ 92,454	\$ 94,118	\$ 95,812	\$ 97,537
VT-	BE009	REPLACE GASKETING SYSTEM ON VT EXTERIOR, ARCHITECTURAL STEEL PANELS.	MMM16	2002	4,500	SF	20	11	9	\$6.75	\$ 30,375	\$ 33,807	\$ 34,415	\$ 35,035	\$ 35,665	\$ 36,307
VT-	BE010	VT MAIN STREET SKY LIGHT MAINTENANCE.	MMM16	2002	1,800	SF	25	11	14	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
VT-	BE011	WATERMAN (HENRY'S) SKY LIGHT MAINTENANCE.	MMM16	2002	150	SF	25	11	14	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
VT-	BE012	VT PRECAST STONE MAINTENANCE (CLEANING AND SEALING).	MMM16	2002	9,000	SF	15	11	4	\$3.24	\$ 29,160	\$ 32,454	\$ 33,039	\$ 33,633	\$ 34,239	\$ 34,855
VT-	BE013	WATERMAN WING STONE WALL SYSTEM REPAIRS.	MMM16	2011	--	--	15	2	13	\$0.00	--					
VT-	BE014	VT/WATERMAN EXTERIOR, STEEL FASCIA PANEL SYSTEM REGASKETING/GASKETING MAINTENANCE.	MMM16	2003	900	SF	20	10	10	\$6.75	\$ 6,075	\$ 6,761	\$ 6,883	\$ 7,007	\$ 7,133	\$ 7,261
VT-	BE015	WATERMAN SOUTH WING WALL LIMESTONE CAP REPLACEMENTS.	MMM16	1965	25	SF	50	48	2	\$85.00	\$ 2,125	\$ 2,365	\$ 2,408	\$ 2,451	\$ 2,495	\$ 2,540
VT-	BE016	PAINTING OF EXTERIOR SOFFIT AND WOOD BEAMS.	MMM16	2002	1,600	SF	15	11	4	\$2.36	\$ 3,776	\$ 4,203	\$ 4,278	\$ 4,355	\$ 4,434	\$ 4,513
VT-	BE017	VT MAIN STREET ENTRANCE CANOPY FASCIA PANEL MAINTENANCE.	MMM16	2002	1,230	SF	20	11	9	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
VT-	BE018	VT MAIN STREET ENTRANCE CANOPY SOFFIT MAINTENANCE.	MMM16	VARIOUS	5,000	SF	20	--	--	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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
<b>BUILDING INTERIOR</b>												\$ 141,211	\$ 143,753	\$ 146,341	\$ 148,975	\$ 151,656

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

ITEM LOC	ITEM NO.	ITEM	FICM CODE	YEAR ITEM		AVG EUL	TIME		ITEM UNIT	ITEM COST	DEFERRED MAINTENANCE PLAN YEAR					
				WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY		IN USE	RUL			2019	2020	2021	2022	2023	
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.	110, 210, 310, 610, 615, 630, 635, 680, 685, W05, W06 AND X03	VARIOUS	--	--	--	--	--	\$0.00	--					
VT-	BI004	FLOOR FINISH UPDATES - ALLOWANCE.	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
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
<b>PLUMBING SYSTEMS (may be packaged with BI item scope)</b>											\$ -	\$ -	\$ -	\$ -	\$ -	
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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>MECHANICAL SYSTEMS (may be packaged with BI item scope)</b>											\$ 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	--					

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

LOC	ITEM NO.	ITEM	FICM CODE	YEAR ITEM			AVG EUL (YRS)	TIME IN USE		ITEM UNIT COST	ITEM FIRST COST	DEFERRED MAINTENANCE PLAN YEAR				
				WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	ITEM UNITS		(YRS)	(YRS)			(YRS)	2019	2020	2021	2022
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
<b>ELECTRICAL SYSTEMS (may be packaged with BI item scope)</b>											<b>\$ 637,899</b>	<b>\$ 649,381</b>	<b>\$ 661,070</b>	<b>\$ 672,969</b>	<b>\$ 685,083</b>	
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	--					
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.	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.	630	2002	--	--	20	11	9	\$0.00	--					
VT-	ES019	VT DIPONIO ROOM LIGHTING.	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

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

LOC	ITEM NO.	ITEM	FICM CODE	YEAR ITEM			AVG EUL (YRS)	TIME		ITEM UNIT COST	ITEM FIRST COST	DEFERRED MAINTENANCE PLAN YEAR				
				WAS PUT INTO SERVICE	ITEM TOTAL QUANTITY	ITEM UNITS		IN USE (YRS)	RUL (YRS)			2019	2020	2021	2022	2023
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.		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
<b>BUILDING SYSTEMS (fire, security, IT/media infrastructure)</b>											<b>\$ 7,513</b>	<b>\$ 7,648</b>	<b>\$ 7,785</b>	<b>\$ 7,926</b>	<b>\$ 8,068</b>	
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.	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
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.	UUU14	2004	1	LS	20	9	11	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>SPECIALTY EQUIPMENT (food service, theatre, labs, shops)</b>											<b>\$ 180,803</b>	<b>\$ 184,058</b>	<b>\$ 187,371</b>	<b>\$ 190,743</b>	<b>\$ 194,177</b>	
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	--					

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

											DEFERRED MAINTENANCE PLAN YEAR									
ITEM	FICM	YEAR ITEM	AVG	TIME	ITEM															
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									
<b>ACCESSIBILITY IMPROVEMENTS</b>																				
VT-		NONE																		
<b>ANNUAL FUNDING REQUIREMENTS (ROUNDED):</b>											\$	11,381,979	\$	11,586,855	\$	11,795,418	\$	12,007,736	\$	12,223,875

R.A. SCHESSLER, INC  
SUMMATION  
OF

**EXHIBIT B**

Asset Acct: SCHOOLCRAFT COLLEGE

As of 10/1/18

REAL ESTATE - BUILDING

Summary by:	Replacement Value New	Sound or Depr. Value
GROTE CENTER	4,095,000.00	2,416,100.00
APPLIED SCIENCE	19,097,300.00	11,076,400.00
BRADNER LIBRARY	6,285,600.00	3,457,100.00
CAMPUS GARAGE	273,900.00	216,400.00
CHILDRENS' CENTER	1,365,400.00	1,060,000.00
FORUM	17,934,600.00	9,684,700.00
LIBERAL ARTS	12,432,400.00	6,092,400.00
MCDOWELL CENTER	16,857,100.00	13,485,700.00
PHYSICAL EDUCATION	23,821,500.00	14,769,300.00
RADCLIFF CENTER	22,003,200.00	9,241,300.00
RADCLIFF GARAGE	72,800.00	56,800.00
SERVICE BUILDING	8,474,200.00	5,677,700.00
WATERMAN CAMPUS/ VISTA TECH CENTER	51,351,900.00	41,081,500.00
TENNIS/MOTORCYCLE STORAGE	103,600.00	69,400.00
GREENHOUSE	226,500.00	199,300.00
SALT STORAGE	183,600.00	130,400.00
KILN SHELTER	194,700.00	171,300.00
BIOMEDICAL TECH CTR.	15,552,100.00	13,841,400.00

CONTINUED.....

R.A. SCHESSLER, INC  
SUMMATION  
OF

Asset Acct: SCHOOLCRAFT COLLEGE

As of 10/1/18

REAL ESTATE - BUILDING

Summary by:	Replacement Value New	Sound or Depr. Value
FIRE TRAINING SERVICE	72,300.00	67,200.00
FIRE TRAINING TOWER	1,153,300.00	1,072,600.00
ACADEMY	4,927,200.00	4,188,100.00
FIRE ARMS	8,109,900.00	7,163,700.00
JEFFRESS CENTER	26,763,000.00	20,592,100.00
MASCO	22,458,400.00	22,009,200.00
SOCCER DOME	6,810,900.00	6,674,700.00

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ASSET ACCOUNT GRAND TOTAL	270,600,400.00	194,540,800.00
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PERCENT DEPRECIATION	X	
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