Building/Campus/All Assessed Facilities Comparison Report

Montcalm Community College

						Priority Issues Data				0-5 Year Cumulative Data			
Facility	Year Built	Building Area (S.F.)	Pct. of Total S.F.	CRV	Percent of Total CRV	DMB	Percent of Total DMB	FCI	Rating	DMB	Percent of Total DMB	FCI	Rating
All assessed facilities		254,801		$71,573,040		$970,864		**1.48%**	**GOOD**	$3,593,585		**5.02%**	**FAIR**
Greenville		40,980	16.1%	$11,553,570	16.1%	$78,937	0.0%	**0.0%**	**GOOD**	$323,539	9.0%	**2.80%**	**GOOD**
Ash Technology and Learning Center	2001	19,495	7.7%	$6,068,265	8.5%	$0	0.0%	**0.0%**	**GOOD**	$165,664	4.6%	**2.73%**	**GOOD**
Braman Center	2012	16,585	6.5%	$5,262,495	7.4%	$78,937	8.1%	**1.5%**	**GOOD**	$157,875	4.4%	**3.00%**	**GOOD**
Greenville Pole Barn	1970	4,900	1.9%	$222,810	0.3%	$0	0.0%	**0.0%**	**GOOD**	$0	0.0%	**0.00%**	**GOOD**
Main		213,821	83.9%	$60,019,470	83.9%	$891,927	100.0%	**0.5%**	**GOOD**	$3,270,046	91.0%	**5.45%**	**FAIR**
Activities	1975	36,190	14.2%	$10,974,810	15.3%	$301,807	31.1%	**2.75%**	**GOOD**	$521,303	14.5%	**4.75%**	**GOOD**
Barn Theater	1917	3,932	1.5%	$953,295	1.3%	$63,394	6.5%	**6.65%**	**FAIR**	$123,928	3.4%	**13.00%**	**POOR**
Cold Storage	1967	3,880	1.5%	$171,360	0.2%	$0	0.0%	**0.00%**	**GOOD**	$5,141	0.1%	**3.00%**	**GOOD**
Doser Building	1999	38,013	14.9%	$11,451,300	16.0%	$34,354	3.5%	**0.30%**	**GOOD**	$480,955	13.4%	**4.20%**	**GOOD**
Farmhouse	1916	2,550	1.0%	$515,235	0.7%	$5,925	0.6%	**1.15%**	**GOOD**	$33,233	0.9%	**6.45%**	**FAIR**
Kenneth J. Smith Instructional Buildin	1966	25,132	9.9%	$7,689,465	10.7%	$115,342	11.9%	**1.50%**	**GOOD**	$480,592	13.4%	**6.25%**	**FAIR**
Instruction North	1968	21,780	8.5%	$4,355,610	6.1%	$167,691	17.3%	**3.85%**	**GOOD**	$429,028	11.9%	**9.85%**	**FAIR**
Les Morford Instructional Building	1969	11,184	4.4%	$3,382,785	4.7%	$93,027	9.6%	**2.75%**	**GOOD**	$228,338	6.4%	**6.75%**	**FAIR**
Donald C. Burns Library and Admin.	1966	28,720	11.3%	$8,682,660	12.1%	$104,192	10.7%	**1.20%**	**GOOD**	$547,008	15.2%	**6.30%**	**FAIR**
Pole Barn	1998	1,800	0.7%	$171,360	0.2%	$0	0.0%	**0.00%**	**GOOD**	$12,852	0.4%	**7.50%**	**FAIR**
Power Plant	1966	3,840	1.5%	$2,477,895	3.5%	$6,195	0.6%	**0.25%**	**GOOD**	$167,258	4.7%	**6.75%**	**FAIR**
Ash Building	2007	28,800	11.3%	$8,742,195	12.2%	$0	0.0%	**0.00%**	**GOOD**	$240,410	6.7%	**2.75%**	**GOOD**
Maintenance Building	2007	8,000	3.1%	$451,500	0.6%	$0	0.0%	**0.00%**	**GOOD**	$0	0.0%	**0.00%**	**GOOD**

Deferred Maintenance Report - All assessed facilities

Montcalm Community College

Facility Stats

Number of Buildings	16
Oldest Building	1916
Newest Building	2012
Avg. Year Built	1975
Avg. Cost per S.F.	$281

Facilities Condition Index - All assessed facilities

	Priority Issues Data					0-5 Year Cumulative Data				
254,801	$71,573,040	$970,864	$0	1.48%	GOOD	$3,593,585	$14,933	5.02%	$1,431,461	FAIR
TOTAL S.F.	CRV	DMB	EXCESS	FCI	RATING	DMB	EXCESS	FCI	$/YR MAINTAIN	RATING

Deferred Maintenance Detail Report - by Building

Montcalm Community College

Notes:

Data from previous assessments is included for reference purposes.
Current assessment notes indicate if past issues have been addressed.

Campus: Main				**Use Types:**		**Notes:**	original building - 35,194 SF
Bldg. No: 01				35 % Athletic			2007 - Bookstore renovation/addition (+1,000 SF)
Building: Activities				35 % Student Union			
Area: 36,190sf	**Yr Built: 1975**		**Floors: 1**	30 % Natatorium			

	CRV of System		Pct. of system value to budget for repair/replacement:				
System	**%**	**$**	**Immediate**	**1-5 Years**	**6-10 Years**	**11+ Years**	**System/Component Notes**
Structure	15	$1,646,222	0	0	5	95	No reported problems
			$0	*$0*	*$82,311*	*$1,563,910*	
							2007-2015 assessment:No changes reported
							2016 Assessment: No changes reported. No reported problems.
							2018 Assessment: Severe corrosion of steel ladder in pool water treatment room.
							Severe corrosion of reinfored concrete floor slab and beams.
							2019 Assessment: Continued Severe corrosion of steel ladder in
							pool water treatment room.
							2021 Assessment: Structural concrete repair completed in pool equipment room,
							including new ship's ladder.
Roof	5	$548,741	0	0	80	20	2004- Trocal PVC roof replaced with EPDM ($105,000)
			$0	*$0*	*$438,992*	*$109,748*	
							2007 assessment: No reported problems
							2009 assessment:
							Roof membrane detached at perimeter due to moisture problems in wall
							system, temporarily repaired. Permanent repair scheduled and funded.
							2010 assessment: Pool roof replaced with white EPDM membrane roof
							2011-2015 assessment:No changes. Roof inspected annually, no reported problems.
							2016 Assessment: No changes reported. No reported problems.
							Projected replacement from roof report: 2024
							2018 Assessment: No changes reported. Roof sections 2, 5, and 6 scheduled
							for roof replacement in 2030. Section 1 to be replaced in 2035.
							Roof comprised of single-ply membrane, with insulation on metal deck, steel joists
							2019 Assessment: No changes reported. No reported problems.
							2021 Assessment: No changes reported. No reported problems.
							Projected roof replacement in 2026.

Campus: Main				**Use Types:**		**Notes:**	original building - 35,194 SF
Bldg. No: 01				35 % Athletic			2007 - Bookstore renovation/addition (+1,000 SF)
Building: Activities				35 % Student Union			
Area: 36,190sf	**Yr Built: 1975**		**Floors: 1**	30 % Natatorium			
	CRV of System		**Pct. of system value to budget for repair/replacement:**				
System	**%**	**$**	**Immediate**	**1-5 Years**	**6-10 Years**	**11+ Years**	**System/Component Notes**
Glazing	3	$329,244	0	0	20	90	Original glazing. Skylight resealed.
			$0	*$0*	*$65,849*	*$296,320*	
							2002-new dbl. pane glazing in kitchen
							2007-2014 Assessment: No reported problems, no changes reported.
							2015 - No changes reported. Recommend reviewing condition of sealants on
							original units.
							2016, 2018 Assessment: No changes reported.
							2019 Assessment: Several windows replaced at the pool. No other problems reported.
							2021 Assessment: No changes reported. No reported problems.
Cladding	7	$768,237	0	0	10	90	2001-Recently replaced mortar, caulk, control joints.
			$0	*$0*	*$76,824*	*$691,413*	
							2001-Recently waterproofed to counteract efflorescence, although problem
							expected to return due to high humidity and salinity of air in building.
							2003-Replacement of pool humidity control system appears to have solved
							problem with masonry
							2007 assessment: No reported problems
							2009 assessment:
							Moisture barrier in pool area exterior walls not performing properly, allowing
							moisture into wall structure. Problem under investigation.
							2010 assessment:
							Moisture barrier issue resolved as part of roof replacement. Wall/roof transition insulated.
							2011-2015: assessment: No changes. No reported problems.
							2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main				**Use Types:**		**Notes:**	original building - 35,194 SF
Bldg. No: 01				35 % Athletic			2007 - Bookstore renovation/addition (+1,000 SF)
Building: Activities				35 % Student Union			
Area: 36,190sf	**Yr Built: 1975**		**Floors: 1**	30 % Natatorium			

	CRV of System		Pct. of system value to budget for repair/replacement:				
System	**%**	**$**	**Immediate**	**1-5 Years**	**6-10 Years**	**11+ Years**	**System/Component Notes**
HVAC	24	$2,633,954	10	5	10	75	2000-Independent HVAC system - original. 2 new rooftop units.
			$263,395	*$131,698*	*$263,395*	*$1,975,466*	HVAC system unable to control high humidity from pool.
							2002-pool energy/humidity mgmt. system budgeted for replacement
							2003-pool energy/humidity mgmt. system replaced.
							2005-2 coils replaced, balance of system generally original
							2007 assessment:
							Fitness center RTU original, with newer compressor. Coil leaks and loses charge.
							System at end of life, due for replacement.
							Perimeter fin tube heating in pool repaired, no reported problems.
							Repairs and maintenance keeping aging system operating.
							2009 Assessment:
							2008-Fitness center RTU replaced ($14,000)
							Dehumidification unit piping upgraded
							2010 Assessment:
							Minor HVAC work performed to convert cafeteria to Subway shop. Majority of
							building equipment still original and due for replacement.
							Gas meter systems replaced by Consumers Energy.
							2011 assessment:No changes reported. Equipment still due for replacement.
							2012 assessment:
							System controls (actuators and valves) upgraded to DDC as part of new energy
							management system. HVAC equipment still due for replacement.
							2013 assessment:
							2 RTUs over north half of building past end of life and due for replacement.
							2014 assessment:
							(2) RTUs budgeted for replacement in 2015. Expected cost of at least $75,000

Campus: Main				**Use Types:**			**Notes:**	original building - 35,194 SF
Bldg. No: 01				35 % Athletic				2007 - Bookstore renovation/addition (+1,000 SF)
Building: Activities				35 % Student Union				
Area: 36,190sf	**Yr Built: 1975**		**Floors: 1**	30 % Natatorium				
	CRV of System		**Pct. of system value to budget for repair/replacement:**					
System	**%**	**$**	**Immediate**	**1-5 Years**	**6-10 Years**	**11+ Years**	**System/Component Notes**	
HVAC (continued)	24	$2,633,954	15	5	10	70	2015 assessment:	
			$395,093	*$131,698*	*$263,395*	*$1,843,768*	(2) new RTUs with DDC controls installed to serve north lower level cooling.	
							Installed cost: $90,000+	
							2016 Assessment:	
							No changes reported. No reported problems.	
							2018 Assessment: HVAC is combination of pool AHU, with remaining space served	
							by gas-fired electric cooling RTU units which appear in good condition.	
							Perimeter hot water served by gas-fired Bryant hot water boiler and distribution pumps.	
							Building is fully DDC controlled with standard campus BEMS system.	
							Weight training area is planned for expansion and a new HVAC system required.	
							2019 Assessment: Replaced entry heater in 2019. No other changes or problems	
							reported	
							2021 Assessment: HVAC system to be replaced when weight training area is expanded.	

Campus: Main				**Use Types:**		**Notes:**	original building - 35,194 SF
Bldg. No: 01				35 % Athletic			2007 - Bookstore renovation/addition (+1,000 SF)
Building: Activities				35 % Student Union			
Area: 36,190sf	**Yr Built: 1975**		**Floors: 1**	30 % Natatorium			

	CRV of System		Pct. of system value to budget for repair/replacement:				
System	**%**	**$**	**Immediate**	**1-5 Years**	**6-10 Years**	**11+ Years**	**System/Component Notes**
Plumbing/Drainage	7	$768,237	5	5	10	80	Damaged fixtures replaced, hardware replaced, toilet partitions replaced.
			$38,412	*$38,412*	*$76,824*	*$614,589*	
							2003-pool pH system replaced (from acid to CO-2)
							2004-due for replacement: pool equip room plumbing, pool heat exchanger due
							for replacement ($15-20,000)
							2005-pool equipment room plumbing and heat exchanger replaced
							2007 assessment: No reported problems.
							2009 Assessment:No changes reported.
							2010 assessment:
							Piping in pool equipment room repaired to improve efficiency ($120,000)
							Pool circulation pump drive replaced with variable frequency drive unit.
							2011 assessment:
							Majority of pool equipment room piping still original (except for repaired
							sections), still due for replacement.
							2012 assessment: No changes reported
							2013 assessment:
							New filter, circulation pump, controls, valves installed, relocated out of
							basement Deteriorated piping replaced. (approx. $130,000)
							2014 assessment: No reported problems.
							2015 assessment:
							Pool supply and drain piping leaks have washed out sand under pool deck,
							caused floor damage. Piping and collateral floor damage repaired in 2015.
							2016, 2018 Assessment: No changes reported. No reported problems.
							2019 Assessment: Pool medium was replaced. No reported problems.
							2021 Assessment: No changes reported. No reported problems.

Campus: Main				**Use Types:**		**Notes:**	original building - 35,194 SF
Bldg. No: 01				35 % Athletic			2007 - Bookstore renovation/addition (+1,000 SF)
Building: Activities				35 % Student Union			
Area: 36,190sf	**Yr Built: 1975**		**Floors: 1**	30 % Natatorium			
	CRV of System		**Pct. of system value to budget for repair/replacement:**				
System	**%**	**$**	**Immediate**	**1-5 Years**	**6-10 Years**	**11+ Years**	**System/Component Notes**
Primary/Secondary	10	$1,097,481	0	0	20	80	Primary - good condition
			$0	*$0*	*$219,496*	*$877,985*	Secondary - good condition
							2007 assessment:
							No reported problems
							2009 Assessment:No changes reported.
							2010 assessment:
							Campus primary service upgraded by Consumers Energy to provide additional capacity.
							2011 - 2015 Assessment: No changes reported.
							2016 Assessment: No changes reported. No reported problems.
							2018 Assessment: Building served by 480/277V, 3-phase service with 600A capacity.
							Main gear and most distribution gear is Federal Pacific QMQB Style with fusible
							switches for overcurrent protection. This equipment is no longer available, but still
							maintainable. Need to clean and tighten all connections.
							Emergency panel tapped ahead of the main switch is no longer code-compliant.
							2019 Assessment: Federal panels replaced with Square D panels.
							2021 Assessment: No changes reported. No reported problems.
Distribution	5	$548,741	0	10	10	80	Some corroded and damaged electrical equipment in pool area relocated.
			$0	*$0*	*$54,874*	*$438,992*	Majority of electrical panels and switchgear is Federal Pacific. Panels are
							obsolete and parts are difficult to find.
							2007-2014 assessment:No changes reported.
							2015 Assessment: No changes reported. Obsolete panels should be budgeted
							for replacement. College estaimates approximately $50,000
							2016 Assessment: No changes reported.
							2018 Assessment: Many branch panelboards are Federal Pacific breaker panels.
							It is common for these panels to not trip as they should in short-circuit conditions.
							MCC is in the process of replacing. Recommend accelerate the replacement process.

								2019 Assessment: Replaced 90% of Federal panels with Square D panels.						
								Partial lighting replacement with LED fixtures.						
								2021 Assessment: No changes reported. No reported problems.						

Campus: Main				**Use Types:**		**Notes:**	original building - 35,194 SF
Bldg. No: 01				35 % Athletic			2007 - Bookstore renovation/addition (+1,000 SF)
Building: Activities				35 % Student Union			
Area: 36,190sf	**Yr Built: 1975**		**Floors: 1**	30 % Natatorium			
	CRV of System		**Pct. of system value to budget for repair/replacement:**				
System	**%**	**$**	**Immediate**	**1-5 Years**	**6-10 Years**	**11+ Years**	**System/Component Notes**
Lighting	5	$548,741	0	0	5	95	Fixtures typically original - in good condition
			$0	*$0*	*$27,437*	*$521,303*	Locker room lighting replaced in 2003, 2004
							HID fixtures in natatorium due for replacement - difficult to maintain
							2007 assessment: New lighting in bookstore area, no other changes
							2009 Assessment:No changes reported.
							2010 assessment:
							Gym lighting replaced with high bay T8 fluorescent fixtures ($10,000).
							Pool lighting still due for replacement.
							2011 assessment:
							Pool lighting replaced with high bay T8 fluorescent fixtures ($10,000)
							2012 assessment:
							Lighting upgraded as part of ECM contract.
							2013-2015 Assessment: No changes reported.
							2016 Assessment: No changes reported. No reported problems.
							2018 Assessment: No reported problems.
							Fluorescent lighting in pool, gym, and bookstore. MCC has replaced corridor and
							Cyber Café lighting with flat panel LED lighting.
							2019 Assessment: No reported problems.
							2021 Assessment: Light fixtures changed to LED in gym.
Voice/Data	2	$219,496	0	0	5	95	Not much in building - installed around 2000. No reported problems
			$0	*$0*	*$10,975*	*$208,521*	
							2007-2010 assessment:No changes reported.
							2011-2015 Assessment: No changes reported.
							2016, 2018. 2019. 2021 Assessment: No changes reported. No reported problems.

Campus: Main				**Use Types:**		**Notes:**	original building - 35,194 SF
Bldg. No: 01				35 % Athletic			2007 - Bookstore renovation/addition (+1,000 SF)
Building: Activities				35 % Student Union			
Area: 36,190sf	**Yr Built: 1975**		**Floors: 1**	30 % Natatorium			
	CRV of System		**Pct. of system value to budget for repair/replacement:**				
System	**%**	**$**	**Immediate**	**1-5 Years**	**6-10 Years**	**11+ Years**	**System/Component Notes**
Ceilings	3	$329,244	0	0	10	90	Sagging ceilings replaced in corridors and bookstore. Condition will return if
			$0	*$0*	*$32,924*	*$296,320*	humidity problems not addressed.
							2003 - humidity problems resolved
							2007-2010 assessment:No changes reported.
							2011-2015 Assessment: No changes reported.
							2016 Assessment: No changes reported. No reported problems.
							2018 Assessment: No reported problems.
							Corridor ceiling replaced with new LED lights in 2018.
							2019, 2021 Assessment: No reported changes. No reported problems.
Walls/Casework	2	$219,496	0	0	10	90	Recently repainted in gym & pool. Interior face of exterior walls are showing
			$0	*$0*	*$21,950*	*$197,547*	efflorescence similar to problem on exterior face - due to high humidity in building.
							2003 - humidity problems resolved
							2004- gym due for repainting.
							2005 - bleachers at end of life, due for replacement in 2-5 years. Facility use
							may not require replacement with same number of bleachers.
							2007 assessment:No changes reported
							2009 Assessment: 2008-new lower bleachers installed in gym, miscellaneous
							painting work done in gym
							2010-2015 Assessment: No changes reported.
							2016 Assessment: No changes reported. No reported problems.
							2018 Assessment: No reported problems.
							Gym painted in 2018.
							2019, 2021 Assessment: No reported problems. No reported changes.

Campus: Main				**Use Types:**		**Notes:**	original building - 35,194 SF
Bldg. No: 01				35 % Athletic			2007 - Bookstore renovation/addition (+1,000 SF)
Building: Activities				35 % Student Union			
Area: 36,190sf	**Yr Built: 1975**		**Floors: 1**	30 % Natatorium			

	CRV of System		Pct. of system value to budget for repair/replacement:				
System	**%**	**$**	**Immediate**	**1-5 Years**	**6-10 Years**	**11+ Years**	**System/Component Notes**
Doors	2	$219,496	0	5	10	85	Exterior:
			$0	*$10,975*	*$21,950*	*$186,572*	Original hollow metal and alum frame full lite doors
							2001-some exterior doors to gym require replacement
							2003-worn/damaged exterior doors replaced
							Interior:
							Original interior doors, mostly solid core wood.
							2005-Wood doors due for refinishing
							2007 assessment:
							several interior doors replaced. Approximately 14 original doors remaining,
							due for refinishing.
							2009 Assessment: 2008-gym storage room doors replaced
							2010, 2011, 2012 Assessment:No changes reported.
							2013 assessment:
							Elevator equipment room door relocated from pool to corridor to reduce
							corrosion damage to elevator equipment. Exterior door to pool removed to
							accommodate oversized equipment. Is being replaced with a new door.
							2014 Assessment: No changes reported.
							2015 Assessment: No changes reported. Assess condition of finish on
							remaining original doors, refinish as necessary.
							2016 Assessment: No changes reported.
							2018 Assessment: Connector doors to Doser Building replaced in 2018.
							2019 Assessment: Several doors replaced in 2019.
							2021 Assessment: No changes reported. No reported problems.

Campus: Main				**Use Types:**		**Notes:**	original building - 35,194 SF
Bldg. No: 01				35 % Athletic			2007 - Bookstore renovation/addition (+1,000 SF)
Building: Activities				35 % Student Union			
Area: 36,190sf	**Yr Built: 1975**		**Floors: 1**	30 % Natatorium			

	CRV of System		Pct. of system value to budget for repair/replacement:				
System	**%**	**$**	**Immediate**	**1-5 Years**	**6-10 Years**	**11+ Years**	**System/Component Notes**
Floors	4	$438,992	0	5	5	90	Rubber gym floor split but OK, All other floors in good condition
			$0	*$21,950*	*$21,950*	*$395,093*	
							2002-locker room floors retiled
							2005-pool deck ceramic tile floor cracking near west wall, migrating toward pool.
							2007 assessment:
							Gym floor shrinking at edges, showing minor splitting. Due for replacement within 2 years.
							2009 Assessment: 2008-New Terraflex gym floor installed ($90,000)
							2010-2015 Assessment: No changes reported.
							2016 Assessment: No changes reported. No reported problems.
							2018 Assessment: No reported problems. Fitness Center floor replaced in 2017.
							Corridor flooring replaced in 2018.
							2019 Assessment: No changes reported. No reported problems.
							2021 Assessment: No changes reported. No reported problems.

Campus: Main				**Use Types:**		**Notes:**	original building - 35,194 SF
Bldg. No: 01				35 % Athletic			2007 - Bookstore renovation/addition (+1,000 SF)
Building: Activities				35 % Student Union			
Area: 36,190sf	**Yr Built: 1975**		**Floors: 1**	30 % Natatorium			

	CRV of System		Pct. of system value to budget for repair/replacement:				
System	**%**	**$**	**Immediate**	**1-5 Years**	**6-10 Years**	**11+ Years**	**System/Component Notes**
Bldg., Fire, ADA, Elevators	3	$329,244	0	0	10	90	Sinks and toilet stalls upgraded to ADA
			$0	*$0*	*$32,924*	*$296,320*	Most doors are ADA compliant, except toilet room doors (latch side too close to
							adjacent wall) Elevator hydraulic system requires repair, on service contract.
							2007 assessment: No changes
							2009 Assessment: Sunken pit area near cafeteria filled and leveled for ADA access/safety.
							2010 assessment:No changes reported.
							2011 assessment:No changes reported. Elevator equipment still at end of life
							and due for replacement. Elevator receives only minimal use.
							2012 assessment: No changes reported
							2013 assessment: Elevator controls upgraded, car reused, jack reused.
							2014, 2015, 2016 Assessment: No changes reported.
							2018 Assessment: No reported problems. Lockers replaced in 2018.
							2019 Assessment: No reported problems.
							Elevator piston replaced in 2019.
							2021 Assessment: No changes reported. No reported problems.
Immed. Site, Ext. Ltg., etc	3	$329,244	0	5	10	85	2005-Original masonry patio area pavers heaved, uneven, difficult to maintain.
			$0	*$16,462*	*$32,924*	*$279,858*	
							Replacement with concrete scheduled for 2006
							2007 assessment: Masonry pavers replaced with poured concrete
							2009-2015 Assessment: No changes reported.
							2016 - 2021 Assessment: No changes reported. No reported problems.

Campus: Main				**Use Types:**		**Notes:**	original building - 35,194 SF	
Bldg. No: 01				35 % Athletic			2007 - Bookstore renovation/addition (+1,000 SF)	
Building: Activities				35 % Student Union				
Area: 36,190sf	**Yr Built: 1975**		**Floors: 1**	30 % Natatorium				

	CRV of System		Pct. of system value to budget for repair/replacement:					
System	**%**	**$**	**Immediate**	**1-5 Years**	**6-10 Years**	**11+ Years**	**System/Component Notes**	
CRV Totals:	100	$10,974,810	*$301,807*	*$219,496*	*$1,481,599*	*$8,949,958*	$10,952,860	

Priority Issues Data					**0-5 Year Cumulative Data**				
$10,974,810	**$301,807**	**$0**	**2.75%**	**GOOD**	**$521,303**	**$0**	**4.75%**	**$219,496**	**GOOD**
CRV	**DMB**	**EXCESS**	**FCI**	**RATING**	**DMB**	**EXCESS**	**FCI**	**$/YR MAINTAIN**	**RATING**

Campus: Main
Bldg. No: 02
Building: Barn Theater
Area: 3,932sf **Yr Built: 1917** **Floors: 2**

Use Types:
100% Auditorium

Notes: 2016-Building infrequently used.
2007-seating replaced, sprinkler system added, egress improved.
2016-the exterior envelope was replaced with new barn siding.
This building cannot be replaced with an equivalent building.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Structure	15	$142,994	0 *$0*	0 *$0*	20 *$28,599*	80 *$114,395*	Wood structure exposed on interior, no reported problems. 2003-Chimney repaired. 2007 assessment: No changes, no reported problems. 2009-2015 Assessment: No changes reported. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: Modifications may trigger structural upgrades of building. This building would be difficult to bring up to current structural requirements in building code. Structure comprises of wood timbers and gambrel barn roof form. 2019 Assessment: No changes reported. No reported problems. 2021 Assessment: No changes reported. No reported problems.
Roof	7	$66,731	15 *$10,010*	10 *$6,673*	25 *$16,683*	50 *$33,365*	Tin roof/ some asphalt shingle on later addition 2007 assessment: No changes, no reported problems. 2009-2012 Assessment: No changes reported. 2013 Assessment: Metal barn roof due for repaint. Asphalt shingles in fair condition. 2014-2015 Assessment: No changes reported. 2018 Assessment: Existing tin roof on original barn, with asphalt shingles on addition. No changes reported. No reported problems. 2019 Assessment: No changes reported. No reported problems. 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 02
Building: Barn Theater
Area: 3,932sf **Yr Built: 1917** **Floors: 2**

Use Types:
100% Auditorium

Notes:
2016-Building infrequently used.
2007-seating replaced, sprinkler system added, egress improved.
2016-the exterior envelope was replaced with new barn siding.
This building cannot be replaced with an equivalent building.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Glazing	1	$9,533	0 *$0*	0 *$0*	20 *$1,907*	80 *$7,626*	Minimal glazing - only on addition. 1972 - wood frame, single pane windows installed (approx. 12) 2007 Assessment: No changes, no reported problems. 2009-2012 Assessment: No changes reported. 2013 Assessment: Windows observed to be deteriorating, with many at end of expected life. Paint worn on many frames, some showing signs of deterioration due to age. Recommendation to repaint and replaced as necessary. 2014 - 2015 Assessment: No changes reported, windows still due for repair/replacement. 2016 assessment: all wood frame windows replaced with vinyl insulated unit windows. 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Cladding	9	$85,797	0 *$0*	0 *$0*	10 *$8,580*	90 *$77,217*	Siding at entry repaired in 2001. Some additional deterioration noted at north exterior wall. 2007 - 2012 assessment: No changes reported 2013 assessment: Wood planks on barn showing continued deterioration at base. Top coat of paint is failing where old base coat is deteriorated. T111 plywood siding on addition showing signs of paint peeling and some deterioration at edges. 2014 - 2015 Assessment: No changes reported. Exterior wood and trim continue showing deterioration. 2016 assessment: all exteior wood siding replaced with new painted wood siding. Project cost approx. $60,000 2018 Assessment: No changes reported. No reported problems. 2019 Assessment: No changes reported. No reported problems. 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 02
Building: Barn Theater
Area: 3,932sf **Yr Built: 1917** **Floors: 2**

Use Types:
100% Auditorium

Notes:
2016-Building infrequently used.
2007-seating replaced, sprinkler system added, egress improved.
2016-the exterior envelope was replaced with new barn siding.
This building cannot be replaced with an equivalent building.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
HVAC	20	$190,659	25	20	0	55	System upgraded in 1991
			$47,665	*$38,132*	*$0*	*$104,862*	Fan unit above stage noisy, often shut off during performances. Temperature varies significantly from low seats to high seats. 2007 assessment: No changes, no reported problems. 2009 Assessment: No changes reported. 2011 assessment: No changes reported. 2012 assessment: Barn not on campus-wide building automation system. 2013 assessment: Barn ground mounted twin-condensor A/C unit installed in 1991 is near end of expected life. Budgeting for replacement recommended. 2014 Assessment: No changes reported. 2015 Assessment: No changes reported. HVAC system remains near end of expected life. 2016 Assessment: No changes reported. 2018 Assessment: The barn Theater HVAC is served by gas-fired heat and DX cooling AHUs/RTUs and both in good condition, should continue to function. The building HVAC controls do not report to the School Campus's BEMS system. 2019 Assessment: No changes reported. No reported problems. 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 02
Building: Barn Theater
Area: 3,932sf **Yr Built: 1917** **Floors: 2**

Use Types:
100% Auditorium

Notes:
2016-Building infrequently used.
2007-seating replaced, sprinkler system added, egress improved.
2016-the exterior envelope was replaced with new barn siding.
This building cannot be replaced with an equivalent building.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Plumbing/Drainage	6	$57,198	0 *$0*	0 *$0*	25 *$14,299*	75 *$42,898*	Replaced in 1972. Septic system near capacity. Additional fixtures will likely overload system. 2007 assessment: Piping for sprinkler system added. 2009-2014 Assessment: No changes reported. 2015 assessment: water supply piping from well replaced to both farmhouse and barn. Septic system remains near capacity. 2016 Assessment: No changes reported. 2018 Assessment: The Theater Building is an assembly space full of combustibles, fully sprinkled. The restroom plumbing was upgraded and appears to be in good condition. 2019, 2021 Assessment: No changes reported. No reported problems.
Primary/Secondary	5	$47,665	0 *$0*	0 *$0*	20 *$9,533*	80 *$38,132*	Recently upgraded 2007 assessment:No changes, no reported problems. 2009 Assessment:No changes reported. 2010 assessment: Campus primary service upgraded by Consumers Energy to provide additional capacity. 2011-2015 Assessment: No changes reported. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: The building has two electrical services, both served overhead from the power lines along West Sidney Road. One service is 240/120V single phase and provides lighting and convenience power throughout the building. The other service is 480V three phase and only serves the two condensing units on the Wiring in the building is a mixture of many types, with some open junction boxes in the control room. No fire alarm exists in the building. As an assembly occupany, this is recommended to comply with life safety codes. 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 02
Building: Barn Theater
Area: 3,932sf **Yr Built: 1917** **Floors: 2**

Use Types:
100% Auditorium

Notes: 2016-Building infrequently used.
2007-seating replaced, sprinkler system added, egress improved.
2016-the exterior envelope was replaced with new barn siding.
This building cannot be replaced with an equivalent building.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Distribution	6	$57,198	10	10	10	70	Recently upgraded
			$5,720	*$5,720*	*$5,720*	*$40,038*	Electrical system inadequate to support desired lighting levels. 2007 assessment:No changes, no reported problems. 2009 - 2015 Assessment: No changes reported. 2016, 2018, 2019, 2021 Assessment: No changes reported.
Lighting	5	$47,665	0	10	10	80	Need better lighting for stage - other OK
			$0	*$4,766*	*$4,766*	*$38,132*	2007 assessment: Seat-mounted aisle lighting added as part of seating replacement project. Balance of theater lighting remains unchanged. 2009-2011 Assessment:No changes reported 2012 assessment: Lighting system upgraded as part of ECM contract. 2013-2015 Assessment: No changes reported. 2016, 2018, 2019, 2021 Assessment: No changes reported.

Campus: Main
Bldg. No: 02
Building: Barn Theater
Area: 3,932sf **Yr Built: 1917** **Floors: 2**

Use Types:
100% Auditorium

Notes: 2016-Building infrequently used.
2007-seating replaced, sprinkler system added, egress improved.
2016-the exterior envelope was replaced with new barn siding.
This building cannot be replaced with an equivalent building.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Voice/Data	1	$9,533	0 *$0*	0 *$0*	10 *$953*	90 *$8,580*	Minimal - upgraded 2007 assessment:No changes, no reported problems. 2009-2015 Assessment: No changes reported. 2016 Assessment: No changes reported. 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Ceilings	3	$28,599	0 *$0*	0 *$0*	15 *$4,290*	85 *$24,309*	Exposed in theater, 2x4 suspended in other areas- OK 2007 assessment:No changes, no reported problems. 2009-2015 Assessment: No changes reported. 2016 Assessment: No changes reported. 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Walls/Casework	8	$76,264	0 *$0*	0 *$0*	10 *$7,626*	90 *$68,637*	Exposed sprayed-on insulation in theater - no reported problems. Seats worn and failing. 2007 assessment: Seating replaced. 2009-2015 Assessment: No changes reported. 2016 Assessment: No changes reported. 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 02
Building: Barn Theater
Area: 3,932sf **Yr Built: 1917** **Floors: 2**

Use Types:
100% Auditorium

Notes:
2016-Building infrequently used.
2007-seating replaced, sprinkler system added, egress improved.
2016-the exterior envelope was replaced with new barn siding.
This building cannot be replaced with an equivalent building.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Doors	2	$19,066	0	0	10	90	Modified barn doors with panic hardware
			$0	*$0*	*$1,907*	*$17,159*	Hardware nearing end of life
							2007 Assessment: Egress hardware added as required. Exterior door weatherstripping added as required.
							2009-2012 Assessment:No changes reported.
							2010 assessment:No changes reported.
							2013 assessment: Secondary doors showing signs of additional deterioration.
							2014 - 2015 Assessment: No changes reported. Exterior doors continuing to show aging.
							2016 assessment: exterior wood doors replaced with new painted wood doors as part of siding replacement.
							2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Floors	2	$19,066	0	10	15	75	Wood/concrete - OK. Carpet in dressing rooms
			$0	*$1,907*	*$2,860*	*$14,299*	
							2007 assessment: Carpet added in theater aisles. No reported problems.
							2009-2015 Assessment: No changes reported.
							2016 Assessment: No changes reported.
							2018 Assessment: No changes reported. No reported problems. Existing floors are concrete slab-on-grade, with wood-frame construction, vinyl floors and carpeted floors in the 2-story addition.
							2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 02
Building: Barn Theater
Area: 3,932sf **Yr Built: 1917** **Floors: 2**

Use Types:
100% Auditorium

Notes: 2016-Building infrequently used.
2007-seating replaced, sprinkler system added, egress improved.
2016-the exterior envelope was replaced with new barn siding.
This building cannot be replaced with an equivalent building.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Bldg., Fire, ADA, Elevators	7	$66,731	0 *$0*	5 *$3,337*	10 *$6,673*	85 *$56,721*	No fire alarm/ sprinklers. Building generally not ADA compliant. 2002-Portable wheelchair lift added 2007 assessment: New handrails installed in aisles. New ADA accessible seating added. Automatic sprinkler system added. Toilet rooms not modified, not ADA compliant. No fire alarm system. 2009-2015 Assessment: No changes reported. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Immed. Site, Ext. Ltg., etc	3	$28,599	0 *$0*	0 *$0*	5 *$1,430*	95 *$27,169*	Paving repaired 2000-2001. Site OK. 2007 assessment: Exterior platform with railings added at stage door. 2009 Assessment: No changes reported. 2010 assessment: Exterior walks replaced. 2011-2015 Assessment: No changes reported. 2016 Assessment: No changes reported. 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 02
Building: Barn Theater
Area: 3,932sf **Yr Built: 1917** **Floors: 2**

Use Types:
100% Auditorium

Notes: 2016-Building infrequently used.
2007-seating replaced, sprinkler system added, egress improved.
2016-the exterior envelope was replaced with new barn siding.
This building cannot be replaced with an equivalent building.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
CRV Totals:	100	$953,295	*$63,394*	*$60,534*	*$115,825*	*$713,541*	$953,295

Priority Issues Data					0-5 Year Cumulative Data				
$953,295	$63,394	$15,730	6.65%	FAIR	$123,928	$76,263	13.00%	$19,066	POOR
CRV	DMB	EXCESS	FCI	RATING	DMB	EXCESS	FCI	$/YR MAINTAIN	RATING

Campus: Main
Bldg. No: 03
Building: Cold Storage
Area: 3,880sf **Yr Built: 1967** **Floors: 1**

Use Types:
100% Storage

Notes: Pre-engineered building

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Structure	35	$59,976	0 *$0*	0 *$0*	0 *$0*	100 *$59,976*	No reported problems 2007 assessment:No changes 2009 - 2015 Assessment: No changes reported. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: No changes reported. No reported problems. Structure is comprised of steel beams, corrugated metal walls and metal panel roof. 2019, 2021 Assessment: No changes reported. No reported problems.
Roof	15	$25,704	0 *$0*	0 *$0*	0 *$0*	100 *$25,704*	Metal roof 2007 assessment: No changes 2009-2013 Assessment:No changes reported. 2014 assessment: Roof inspected, repaired as necessary. 2015 Assessment: No changes reported. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: No changes reported. No reported problems. Metal panel roof. 2019, 2021 Assessment: No changes reported. No reported problems.
Glazing	0	$0	0 *$0*	0 *$0*	0 *$0*	100 *$0*	N/A 2014 - 2015 Assessment: No changes reported. 2016 Assessment: No changes reported. No reported problems. 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 03
Building: Cold Storage
Area: 3,880sf **Yr Built: 1967** **Floors: 1**

Use Types:
100% Storage

Notes: Pre-engineered building

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Cladding	20	$34,272	0	10	10	80	Metal siding, minor damage, not an issue
			$0	*$3,427*	*$3,427*	*$27,418*	
							2007 assessment:No changes
							2009-2015 Assessment: No changes reported.
							2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
HVAC	0	$0	0	0	0	100	N/A
			$0	*$0*	*$0*	*$0*	
							2014 - 2015 Assessment: No changes reported.
							2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Plumbing/Drainage	0	$0	0	0	0	100	N/A
			$0	*$0*	*$0*	*$0*	
							2014 - 2015 Assessment: No changes reported.
							2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 03
Building: Cold Storage
Area: 3,880sf **Yr Built: 1967** **Floors: 1**

Use Types:
100% Storage

Notes: Pre-engineered building

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Primary/Secondary	4	$6,854	0 *$0*	0 *$0*	0 *$0*	100 *$6,854*	minimal 2007 assessment:No changes 2009 - 2015 Assessment: No changes reported. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Distribution	4	$6,854	0 *$0*	0 *$0*	0 *$0*	100 *$6,854*	minimal 2007 assessment:No changes 2009-2015 Assessment: No changes reported. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Lighting	4	$6,854	0 *$0*	0 *$0*	0 *$0*	100 *$6,854*	minimal, No reported problems 2007 assessment:No changes 2009 - 2015 Assessment: No changes reported. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: No changes reported. No reported problems. Incandescent light fixtures. 2019 Assessment: No changes reported. No reported problems. 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 03
Building: Cold Storage
Area: 3,880sf **Yr Built: 1967** **Floors: 1**

Use Types:
100% Storage

Notes: Pre-engineered building

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Voice/Data	0	$0	0	0	0	100	N/A
			$0	*$0*	*$0*	*$0*	
							2014 - 2015 Assessment: No changes reported.
							2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Ceilings	0	$0	0	0	0	100	N/A
			$0	*$0*	*$0*	*$0*	
							2014 - 2015 Assessment: No changes reported.
							2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Walls/Casework	0	$0	0	0	0	100	N/A
			$0	*$0*	*$0*	*$0*	
							2014 - 2015 Assessment: No changes reported.
							2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 03
Building: Cold Storage
Area: 3,880sf **Yr Built: 1967** **Floors: 1**

Use Types:
100% Storage

Notes: Pre-engineered building

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Doors	10	$17,136	0	10	10	80	Sliding doors, No reported problems
			$0	*$1,714*	*$1,714*	*$13,709*	
							2007 assessment:No changes
							2009-2015 Assessment: No changes reported.
							2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Floors	4	$68,544	0	0	0	100	concrete, No reported problems
			$0	*$0*	*$0*	*$68,544*	2007 assessment:No changes
							2009-2015 Assessment: No changes reported.
							2016 Assessment: No changes reported. No reported problems.
							2018 Assessment: No changes reported. No reported problems. Concrete slab-on-grade.
							2021 Assessment: No changes reported. No reported problems.
Bldg., Fire, ADA, Elevators	2	$3,427	0	0	0	100	No reported problems
			$0	*$0*	*$0*	*$3,427*	
							2007 assessment:No changes
							2009-2015 Assessment: No changes reported.
							2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 03
Building: Cold Storage
Area: 3,880sf **Yr Built: 1967** **Floors: 1**

Use Types:
100% Storage

Notes: Pre-engineered building

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Immed. Site, Ext. Ltg., etc	2	$3,427	0	0	0	100	No reported problems
			$0	*$0*	*$0*	*$3,427*	
							2007 assessment:No changes
							2009-2015 Assessment: No changes reported.
							2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
CRV Totals:	100	$171,360	*$0*	*$5,141*	*$5,141*	*$222,768*	$233,050

Priority Issues Data

$171,360	$0	$0	0.0%	GOOD
CRV	DMB	EXCESS	FCI	RATING

0-5 Year Cumulative Data

$5,141	$0	3.0%	$3,427	GOOD
DMB	EXCESS	FCI	$/YR MAINTAIN	RATING

Campus: Main
Bldg. No: 04
Building: Doser Building
Area: 38,013sf **Yr Built: 1999** **Floors: 1**

Use Types:
10 % Administration
45 % Technology Lab
45 % Classroom

Notes:

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Structure	15	$1,717,695	0	0	5	95	Foundation wall cracked in 4 locations in computer lab. Some moisture infiltration.
			$0	*$0*	*$85,885*	*$1,631,810*	

2007 assessment:
computer lab exterior wall cracking sealed, no moisture problem noted.

2009 -2012 assessment: No changes reported

2013 assessment:
Small amount of water infiltration in computer lab wall continuing.

2014 Assessment: No changes reported.

2015 assessment: water infiltration into computer lab reported to be resolved.

2016 Assessment: No changes reported. No reported problems.

2018 Assessment: Building in good structural condition, no deficiencies noted.
No changes reported. No reported problems.

2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 04
Building: Doser Building
Area: 38,013sf **Yr Built: 1999** **Floors: 1**

Use Types:
10 % Administration
45 % Technology Lab
45 % Classroom

Notes:

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Roof	6	$687,078	0	65	0	35	Ballasted single ply EPDM.
			$0	*$446,601*	*$0*	*$240,477*	

2007 assessment:No changes. No reported problems.

2009 Assessment:No changes reported.

2010 Assessment:
Roof evaluation performed. Roof membrane pulled away at parapets, repaired in 2010 under warranty.

2011 assessment:
Minor roof leaks repaired as part of annual maintenance.

2012 assessment: No changes reported

2013 assessment:
Minor roof leaks repaired and roof seams serviced as part of annual maintenance.

2014 assessment: Roof inspected, repaired as necessary.

2015 Assessment: No changes reported. No reported problems.

2016 Assessment: No changes reported. No reported problems.
Projected roof membrane replacement from roof report: 2022

2018 Assessment: No changes reported. No reported problems.
Roof replacement scheduled in 2027.

2019 Assessment: No changes reported. No reported problems.

2021 Assessment: No changes reported. No reported problems.
Projected roof replacement in 2023.

Campus: Main
Bldg. No: 04
Building: Doser Building
Area: 38,013sf **Yr Built: 1999** **Floors: 1**

Use Types:
10 % Administration
45 % Technology Lab
45 % Classroom

Notes:

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Glazing	5	$572,565	0	0	15	85	Window roller shade termination bars failing from handling and misuse.
			$0	*$0*	*$85,885*	*$486,680*	
							2007 assessment:No changes. Roller shades repaired as required. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Cladding	6	$687,078	0	0	15	85	No reported problems
			$0	*$0*	*$103,062*	*$584,016*	
							2007 assessment: Brick sills at air intakes failing. Brick swelling, buckling and spalling. No relief for brick expansion at either end. Exterior sealants not wearing well, near end of life and due for replacement. 2009 Assessment: 2008-brick at air intakes repaired. 2008-building exterior sealants replaced as required. 2010 Assessment:No changes reported. 2011 assessment:No changes. No reported problems. 2012 assessment: No changes reported 2013 assessment: Flashing at base of wall in southwest corner of building torn, some loose. Due for repair. 2014 - 2015 Assessment: No changes reported. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 04
Building: Doser Building
Area: 38,013sf **Yr Built: 1999** **Floors: 1**

Use Types:
10 % Administration
45 % Technology Lab
45 % Classroom

Notes:

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
HVAC	24	$2,748,312	0	0	20	80	Building on central boiler system with independent reheat coil boiler
			$0	*$0*	*$549,662*	*$2,198,650*	

2002-Add'l AC unit added in telecom

2002-reheat boiler correctly piped

2005-package AC unit in telecom room (installed 2002) replaced with 4 Trane DX units ($40,000)
Variable Frequency Drive units controls failing. Several have been replaced.

2005-No reported problems

2007 assessment:No changes. No reported problems.

2009 Assessment:
2008-Additional reheat boiler installed to improve building humidity control ($50,000).

2010 Assessment: Gas meter systems replaced by Consumers Energy.

2011 assessment:No changes. No reported problems. VFD units working well.

2012 assessment:
System controls upgraded to DDC as part of new energy management system.
3 VAV units replaced. New actuators, dampers and control valves installed as required.

2013-2014 assessment: No changes reported

Campus: Main
Bldg. No: 04
Building: Doser Building
Area: 38,013sf **Yr Built: 1999** **Floors: 1**

Use Types:
10 % Administration
45 % Technology Lab
45 % Classroom

Notes:

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
HVAC (continued)	24	$2,748,312	0	0	20	80	2015 assessment: (2) variable frequency drives replaced in return air system.
			$0	*$0*	*$549,662*	*$2,198,650*	No reported problems.

2016 Assessment: No changes reported. No reported problems.

2018 Assessment: The HVAC system is served by two (2) central AHUs
which appear in relatively good conditon. The system uses electric reheat coils and
electric boilers which is recommended to be replaced with gas-fire boiler and hot water
reheat coils for energy savings.
Chilled water is supplied by an outdoor air-cooled chiller using 25% ethylene glycol.
The current outdoor chiller is in good condition and will continue to provide 10 to 20 years.
Recommend improvements on the summer humidity for both the north and south AHU
systems by implementing CO2 demand ventilation control.
The building is fully DDC controlled with the standed campus BEMS systems but
recommended improved VAV zone control for the administration offices.
Current IT Data room HVAC units are failing and not reliable with 2 for 4 AC units
Units have reached their expected lives, recommended for replacement with 2 new AC units.

2019 Assessment: Data room AC units were replaced.

2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 04
Building: Doser Building
Area: 38,013sf **Yr Built: 1999** **Floors: 1**

Use Types:
10 % Administration
45 % Technology Lab
45 % Classroom

Notes:

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Plumbing/Drainage	5	$572,565	0 *$0*	0 *$0*	5 *$28,628*	95 *$543,937*	No reported problems 2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Primary/Secondary	8	$916,104	0 *$0*	0 *$0*	5 *$45,805*	95 *$870,299*	No reported problems 2007 assessment:No changes. No reported problems. 2009 Assessment:No changes reported. 2010 assessment: Campus primary service upgraded by Consumers Energy to provide additional capacity. 2011-2015 Assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: The building is served power via a unit substation which has a loop-feed primary and contains a 750kVA transformer with 480/277V secondary. Recommened to exercise / clean / tighten the newer Square D equipment same as older gear. The building has a Simplex 4005 fire alarm system, which appears to meet life safety code. The building has the only permament onsite generator (serving server room) - new, no issues. The electrical equipment in catering kitchen appears to now handle permanent appliances. 2019 Assessment: No changes reported. No reported problems. 2021 Assessment: No changes reported. No reported problems.
Distribution	5	$572,565	0 *$0*	0 *$0*	5 *$28,628*	95 *$543,937*	No reported problems 2007 assessment: No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2018 Assessment: No changes reported. No reported problems. 2019 Assessment: No changes reported. No reported problems.

2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 04
Building: Doser Building
Area: 38,013sf **Yr Built: 1999** **Floors: 1**

Use Types:
10 % Administration
45 % Technology Lab
45 % Classroom

Notes:

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Lighting	5	$572,565	0 *$0*	0 *$0*	10 *$57,257*	90 *$515,309*	Insects in fixtures cannot be removed without disassembling fixture, no economical resolution found. 2007 - 2011 assessment:No changes. No reported problems. 2012 assessment: Lighting system upgraded as part of ECM contract. 2013- 2015 Assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: The main electrical room lacks emergency lighting. Recommend adding this for worker safety. Lighting throughout is T8 fluorescent technology. Classrooms typically have a mixture of switched and dimmed fluorescent indirect linear fixtures. Future remodels should have planned budget to replace with LED lighting for energy savings, maintenance savings, and ease of control/dimming. 2019 Assessment: Replaced 70 light fixtures. No reported problems. 2021 Assessment: No changes reported. No reported problems.
Voice/Data	5	$572,565	0 *$0*	0 *$0*	0 *$0*	100 *$572,565*	No reported problems 2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Ceilings	3	$343,539	0 *$0*	0 *$0*	5 *$17,177*	95 *$326,362*	No reported problems 2007 assessment: No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: No changes reported. No reported problems. 2019 Assessment: No changes reported. No reported problems.

2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 04
Building: Doser Building
Area: 38,013sf **Yr Built: 1999** **Floors: 1**

Use Types:
10 % Administration
45 % Technology Lab
45 % Classroom

Notes:

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Walls/Casework	2	$229,026	0	0	5	95	Recently repainted 303 & 305
			$0	*$0*	*$11,451*	*$217,575*	2007 - 2010 Assessment:No changes reported. 2011 assessment: Routine wall painting performed in corridors. No reported problems. 2012 assessment: No changes reported 2013 assessment: Routine wall painting performed in corridors. No reported problems. 2014 - 2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Doors	3	$343,539	0	0	5	95	No reported problems
			$0	*$0*	*$17,177*	*$326,362*	2007- 2012 assessment: No changes reported 2013 assessment: Classroom door hardware changed to lockdown type for security. 2014 assessment: Damaged doors to conference room replaced. 2015 Assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: No changes reported. No reported problems. Connector doors to Activities Building replaced in 2018. 2019 Assessment: No changes reported. No reported problems. 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 04
Building: Doser Building
Area: 38,013sf **Yr Built: 1999** **Floors: 1**

Use Types:
10 % Administration
45 % Technology Lab
45 % Classroom

Notes:

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Floors	3	$343,539	0	0	10	90	2005-loose VCT in catering kitchen repaired
			$0	*$0*	*$34,354*	*$309,185*	
							2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Bldg., Fire, ADA, Elevators	2	$229,026	0	0	10	90	fully sprinkled
			$0	*$0*	*$22,903*	*$206,123*	Interior railings warping and failing-do not meet code for weight support, require replacement 2003-interior railings replaced with painted steel, problem resolved 2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 04
Building: Doser Building
Area: 38,013sf **Yr Built: 1999** **Floors: 1**

Use Types:
10 % Administration
45 % Technology Lab
45 % Classroom

Notes:

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Immed. Site, Ext. Ltg., etc	3	$343,539	10	0	10	80	No reported problems
			$34,354	*$0*	*$34,354*	*$274,831*	

2007 assessment:No changes. No reported problems.

2009-2012 Assessment: No changes reported. No reported problems.

2013 assessment: Grade at northeast corner (outside computer lab) is very flat and may be contributing to the water infiltration problem. Regrading with a swale may improve situation.

2014 - 2015 Assessment: No changes reported. No reported problems.

2016 Assessment: No changes reported. No reported problems.

2018 Assessment: No changes reported. No reported problems.
South parking lot lights replaced in 2017.

2019 Assessment: No changes reported. No reported problems.

2021 Assessment: No changes reported. No reported problems.

CRV Totals:	100	$11,451,300	*$34,354*	*$446,601*	*$1,122,227*	*$9,848,118*	$11,451,300

Priority Issues Data

$11,451,300	$34,354	$0	0.3%	GOOD
CRV	DMB	EXCESS	FCI	RATING

0-5 Year Cumulative Data

$480,955	$0	4.2%	$229,026	FAIR
DMB	EXCESS	FCI	$/YR MAINTAIN	RATING

Campus: Main
Bldg. No: 05
Building: Farmhouse
Area: 2,550sf **Yr Built: 1916** **Floors: 2**

Use Types:
100% Residence

Notes: 2015 - Farmhouse no longer used by College, leased out.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Structure	15	$77,285	0	0	10	90	Wood frame structure on stone foundation.
			$0	*$0*	*$7,729*	*$69,557*	
							2007 - 2012 assessment:No changes reported. 2013 assessment: Stone foundation cracking at mortar joints observed. 2014 Assessment: No changes reported. 2015 assessment: Entry porch rebuilt. No changes to building foundation wall. 2016 Assessment: No changes reported. 2018 Assessment: No changes reported. No reported problems. Fieldstone and concrete block foundation. Wood frame house. 2019, 2021 Assessment: No changes reported. No reported problems.
Roof	8	$41,219	5	15	20	60	Tin roof on original house membrane roof on addition
			$2,061	*$6,183*	*$8,244*	*$24,731*	
							2007 - 2012 assessment:No changes reported. 2013 assessment: Metal roof due for repainting. 2014 - 2015 Assessment: No changes reported. 2016 assessment: Metal roof due for repair and repainting. 2018 Assessment: No changes reported. No reported problems. Tin roof on wood gable structure. 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 05
Building: Farmhouse
Area: 2,550sf **Yr Built: 1916** **Floors: 2**

Use Types:
100% Residence

Notes: 2015 - Farmhouse no longer used by College, leased out.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Glazing	5	$25,762	5 *$1,288*	10 *$2,576*	20 *$5,152*	65 *$16,745*	Old - OK (Single pane) 2007 assessment:No changes. No reported problems. 2009-2012 Assessment: No changes reported. 2013 assessment: Wood window frames showing peeling paint and wood deterioration. Windows due for repainting and limited replacement. 2014 - 2015 Assessment: No changes reported. 2016 Assessment: No changes reported.Windows continue to show need for repair/replacement. 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Cladding	10	$51,524	5 *$2,576*	10 *$5,152*	20 *$10,305*	65 *$33,490*	2003-Wood siding replaced (60%)/repainted (100%) 2007 assessment:No changes. No reported problems. 2009 Assessment: 2009-exterior repainted 2010- 2012 assessment:No changes reported. 2013 assessment: Wood soffit showing paint aging and deterioration, some wood rotting, especially at entry. Painted wood trim due for replacement at main door and other limited areas. 2014 - 2015 Assessment: No changes reported. 2016 Assessment: No changes reported.Wood siding, trim continue to show need for repair/replacement. 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 05
Building: Farmhouse
Area: 2,550sf **Yr Built: 1916** **Floors: 2**

Use Types:
100% Residence

Notes: 2015 - Farmhouse no longer used by College, leased out.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
HVAC	10	$51,524	0	0	10	90	Newer residential grade system- 1995
			$0	*$0*	*$5,152*	*$46,371*	

2007 assessment:No changes. No reported problems.

2009 Assessment:No changes reported.

2010 Assessment:
Gas meter systems replaced by Consumers Energy.

2011 - 2013 assessment:No changes reported. Building not on campus-wide building management system.

2014 assessment: Furnace replaced with new residential unit, using existing AC unit.

2015 Assessment: No changes reported.

2016 Assessment: No changes reported

2018 Assessment: No changes reported. No reported problems.
Forced air furnace with central air-conditioning.

2019 Assessment: No changes reported. No reported problems.

2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 05
Building: Farmhouse
Area: 2,550sf **Yr Built: 1916** **Floors: 2**

Use Types:
100% Residence

Notes: 2015 - Farmhouse no longer used by College, leased out.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Plumbing/Drainage	5	$25,762	0	0	20	80	Pipes in basement - old. All other new in 1995
			$0	*$0*	*$5,152*	*$20,609*	Septic system separate from Barn Theater No reported problems 2007 assessment:No changes. No reported problems. 2009-2014 assessment:No changes. No reported problems. 2012 - 2014 Assessment: No changes reported. 2015 assessment: water supply piping from well replaced to both farmhouse and barn. 2016, 2018, 2019, 2021 Assessment: No changes reported
Primary/Secondary	10	$51,524	0	0	5	95	Newer service
			$0	*$0*	*$2,576*	*$48,947*	2007 assessment:No changes. No reported problems. 2009 Assessment:No changes reported. 2010 assessment: Campus primary service upgraded by Consumers Energy to provide additional capacity. 2011-2015 Assessment: No changes reported. 2016, 2018, 2019, 2021 Assessment: No changes reported

Campus: Main
Bldg. No: 05
Building: Farmhouse
Area: 2,550sf **Yr Built: 1916** **Floors: 2**

Use Types:
100% Residence

Notes: 2015 - Farmhouse no longer used by College, leased out.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Distribution	5	$25,762	0 *$0*	0 *$0*	5 *$1,288*	95 *$24,474*	Newer service 2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Lighting	4	$20,609	0 *$0*	5 *$1,030*	10 *$2,061*	85 *$17,518*	Newer Service 2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: No changes reported. No reported problems. Incandescent lighting. 2019, 2021 Assessment: No changes reported. No reported problems.
Voice/Data	3	$15,457	0 *$0*	0 *$0*	0 *$0*	100 *$15,457*	New - minimal 2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 05
Building: Farmhouse
Area: 2,550sf **Yr Built: 1916** **Floors: 2**

Use Types:
100% Residence

Notes: 2015 - Farmhouse no longer used by College, leased out.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Ceilings	3	$15,457	0 *$0*	10 *$1,546*	10 *$1,546*	80 *$12,366*	Recently renovated 2007 assessment: 2009-2015 Assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: No changes reported. No reported problems. Plaster on lath. 2019, 2021 Assessment: No changes reported. No reported problems.
Walls/Casework	7	$36,066	0 *$0*	10 *$3,607*	10 *$3,607*	80 *$28,853*	Recently renovated 2007 assessment: No reported problems 2009-2015 Assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: No changes reported. No reported problems. Plaster on lath. Drywall partitions in additions and 2nd floor. 2019, 2021 Assessment: No changes reported. No reported problems.
Doors	2	$10,305	0 *$0*	20 *$2,061*	15 *$1,546*	65 *$6,698*	Recently renovated 2007 assessment: Exterior entry door replaced. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 05
Building: Farmhouse
Area: 2,550sf **Yr Built: 1916** **Floors: 2**

Use Types:
100% Residence

Notes: 2015 - Farmhouse no longer used by College, leased out.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Floors	5	$25,762	0 *$0*	20 *$5,152*	10 *$2,576*	70 *$18,033*	Recently renovated 2007 assessment: Exterior front door replaced. 2009-2015 Assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: No changes reported. No reported problems. Concrete slab-on-grade, hardwood, vinyl tile in kitchen and bathroom. 2019, 2021 Assessment: No changes reported. No reported problems.
Bldg., Fire, ADA, Elevators	5	$25,762	0 *$0*	0 *$0*	10 *$2,576*	90 *$23,186*	Smoke detectors/CO sensors. No central fire alarm. Toilet rooms ADA compliant. 2007 assessment:No changes. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Immed. Site, Ext. Ltg., etc	3	$15,457	0 *$0*	0 *$0*	15 *$2,319*	85 *$13,138*	2007 assessment:No changes. No reported problems. 2009 - 2013 assessment:No changes reported. 2014 assessment: Exterior concrete steps and ramps replaced. 2015, 2016 Assessment: No reported changes. 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 05
Building: Farmhouse
Area: 2,550sf **Yr Built: 1916** **Floors: 2**

Use Types:
100% Residence

Notes: 2015 - Farmhouse no longer used by College, leased out.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
CRV Totals:	100	$515,235	*$5,925*	*$27,307*	*$61,828*	*$420,174*	$515,235

Priority Issues Data					0-5 Year Cumulative Data				
$515,235	$5,925	$0	1.2%	GOOD	$33,233	$23,962	6.5%	$10,300	FAIR
CRV	DMB	EXCESS	FCI	RATING	DMB	EXCESS	FCI	$/YR MAINTAIN	RATING

Campus: Main
Bldg. No: 06
Building: Kenneth J. Smith Instructional Building
Area: 25,132sf **Yr Built: 1966** **Floors: 2**

Use Types:
40 % Lab
60 % Classroom

Notes: 2015-Formerly called Instruction East
2007-Renovated as part of Ash Building project
2005-Building scheduled for major renovation as part of planned addition in 2006-2007
Minor renovation in 1999.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Structure	15	$1,153,420	0	0	5	95	Occasional water infiltration, maintained regularly.
			$0	*$0*	*$57,671*	*$1,095,749*	2005 - water infiltration problem resolved except for water entering mechanical room through areaway during heavy rains 2007 assessment: Water infiltration problem resolved as part of renovation. 2009-2015 Assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: Greenhouse addition brick has substantial moisture damage. 2019, 2021 Assessment: No changes reported. No reported problems.
Roof	5	$384,473	0	50	0	50	1996 - EPDM roof installed
			$0	*$192,237*	*$0*	*$192,237*	2004: greenhouse roof due for replacement 2007 assessment: Greenhouse reshingled. No other issues reported 2009 - 2010 Assessment: No changes reported. 2011-2014 Assessment: No changes. Roof inspected annually, repaired as needed. Roof nearing end of expected life. 2015, 2016 Assessment: No changes reported. Projected roof membrane replacement from roof report: 2024 2018, 2019 Assessment: No changes reported. No reported problems. 2021 Assessment: No changes reported. No reported problems. Projected roof replacement in 2023.

Campus: Main
Bldg. No: 06
Building: Kenneth J. Smith Instructional Building
Area: 25,132sf **Yr Built: 1966** **Floors: 2**

Use Types:
40 % Lab
60 % Classroom

Notes: 2015-Formerly called Instruction East
2007-Renovated as part of Ash Building project
2005-Building scheduled for major renovation as part of planned addition in 2006-2007
Minor renovation in 1999.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Glazing	5	$384,473	0	10	10	80	OK condition. Some single pane.
			$0	*$38,447*	*$38,447*	*$307,579*	Greenhouse windows in poor condition

2007 Assessment:
Curtain wall system at east wall replaced as part of door replacement work.

2009 -2011 assessment:No changes reported. Glazing on greenhouse continues to be an issue.

2012 assessment:No changes reported.

2013 assessment:No changes reported. Glazing on greenhouse continues to be an issue.

2014 Assessment: No changes reported.

2015 Assessment: No changes reported. Glazing on greenhouse continues to be an issue.

2016 assessment: New greenhouse being built on campus. The deteriorating greenhouse may be demolished.

2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 06
Building: Kenneth J. Smith Instructional Building
Area: 25,132sf **Yr Built: 1966** **Floors: 2**

Use Types:
40 % Lab
60 % Classroom

Notes:
2015-Formerly called Instruction East
2007-Renovated as part of Ash Building project
2005-Building scheduled for major renovation as part of planned addition in 2006-2007
Minor renovation in 1999.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Cladding	6	$461,368	0	0	15	85	Brick, No reported problems on main building. Brick on greenhouse deteriorating.
			$0	*$0*	*$69,205*	*$392,163*	

2007 Assessment: minimal brickwork performed as part of Ash Building construction.

2009-2012 Assessment:No changes reported. No reported problems.

2013 assessment:No changes reported. Brick on greenhouse spalling, failing, due for repair, replacement or removal.

2014 Assessment: No changes reported.

2015 Assessment: No changes reported. Greenhouse brick continues to deteriorate.

2016 assessment: New greenhouse being built on campus. The deteriorating greenhouse may be demolished.

2018 Assessment: No changes reported. No reported problems.
Greenhouse brick continues to deteriorate.

2019 Assessment: No changes reported. No reported problems.

2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 06
Building: Kenneth J. Smith Instructional Building
Area: 23,152sf **Yr Built: 1966** **Floors: 2**

Use Types:
40 % Lab
60 % Classroom

Notes: 2015-Formerly called Instruction East
2007-Renovated as part of Ash Building project
2005-Building scheduled for major renovation as part of planned addition in 2006-2007
Minor renovation in 1999.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
HVAC	25	$1,922,366	5	5	10	80	System mostly new in 1999.
			$96,118	*$96,118*	*$192,237*	*$1,537,893*	Building on central steam loop. Heat exchanger provides HW for perimeter heating. (1) interior AHU with steam coil and chilled water coil. Heat provided by single steam coil in AHU. Fume hoods original, not up to current ventilation standards, no hoods in classrooms or storage/prep area. Potential addition of Organic Chemistry may require additional hoods. 2004 - new biohazard unit added. 2007 Assessment: Existing HVAC system, distribution, and controls remain. DDC controls connected to existing DDC system in Ash Building. Existing chiller connected in loop with new chiller for Ash Building to provide cooling to both buildings. Chemistry lab relocated to new building. Ventilation system upgraded to meet current standards. 2009 Assessment: No changes reported. 2012 assessment: Controls upgraded to DDC 2010 Assessment: Gas meter systems replaced by Consumers Energy. 2011 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 06
Building: Kenneth J. Smith Instructional Building
Area: 23,152sf **Yr Built: 1966** **Floors: 2**

Use Types:
40 % Lab
60 % Classroom

Notes: 2015-Formerly called Instruction East
2007-Renovated as part of Ash Building project
2005-Building scheduled for major renovation as part of planned addition in 2006-2007
Minor renovation in 1999.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
HVAC (continued)	25	$1,922,366	5	5	10	80	2012 assessment: System controls upgraded to DDC as part of new energy management system. Actuators on dampers and control valves replaced as required.
			$96,118	*$96,118*	*$192,237*	*$1,537,893*	

2013 - 2015 Assessment: No changes reported. No reported problems.

2016 Assessment: No changes reported. No reported problems.

2018 Assessment: The HVAC system is served by a steam to hot water heat exchanger to provide heat to perimeter classroom unit ventilators.
Chilled water is supplied by an outdoor air-cooled chiller using 25% ethylene glycol.
The current outdoor chiller is in good condition and will continue to provide 10 to 20 years.
The building controls were improved in 2009 with occupancy sensors which save energy.
It is recommended to upgrade building controls with the standard campus BEMS system.
The present classroom unit ventilators do no perform well in providing comfort & noise control
Recommend horizontal units to be replaced with improved floor mounted vertical type to provide the proper ventilation and reuse the existing distribution & control systems.

2019 Assessment: No changes reported. No reported problems.

2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 06
Building: Kenneth J. Smith Instructional Building
Area: 23,152sf **Yr Built: 1966** **Floors: 2**

Use Types:
40 % Lab
60 % Classroom

Notes: 2015-Formerly called Instruction East
2007-Renovated as part of Ash Building project
2005-Building scheduled for major renovation as part of planned addition in 2006-2007
Minor renovation in 1999.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Plumbing/Drainage	5	$384,473	5 *$19,224*	5 *$19,224*	10 *$38,447*	80 *$307,579*	New fixtures and associated exposed plumbing installed in 1999. Laboratory plumbing due for replacement. 2003-New sinks & faucets installed. Waste lift station at end of life, float sticks, pump fails, holding tank corroding, worn out. May be decommissioned as part of proposed renovation. 2007 Assessment: Plumbing replaced as required by new building layout. Existing toilet rooms remain unchanged. Waste lift station replaced with new system. 2009-2015 Assessment: No changes reported. No reported problem 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Primary/Secondary	9	$692,052	0 *$0*	0 *$0*	10 *$69,205*	90 *$622,847*	Primary - no reported problems 2007 Assessment: Primary feeds Ash Building, no reported problems. 2009 Assessment:No changes reported. 2010 assessment: Campus primary service upgraded by Consumers Energy to provide additional capacity. 2011-2015 Assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: The building is served via an exterior primary pad-mount switch (S&C PMH-13) This unit substation consists of a main switch and two transformers (one rated 750kVA with a 480/277V secondary and the other a 15kVA with a 240/120V secondary) Recommended that gear is exercised, cleaned, tightened during a scheduled outage. Most 120V utilization power within the building is served via smaller step-down transformers fed from the 480V system. Systems throughout the building were mostly upgraded around 2007 when the Ash Building was added on No immediate concerns with lighting, fire alarm, or other systems. 2019 Assessment: No changes reported. No reported problems. 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 06
Building: Kenneth J. Smith Instructional Building
Area: 23,152sf **Yr Built: 1966** **Floors: 2**

Use Types:
40 % Lab
60 % Classroom

Notes: 2015-Formerly called Instruction East
2007-Renovated as part of Ash Building project
2005-Building scheduled for major renovation as part of planned addition in 2006-2007
Minor renovation in 1999.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Distribution	5	$384,473	0 *$0*	0 *$0*	10 *$38,447*	90 *$346,026*	New in 1999 2007 Assessment: minimal modifications, no reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Lighting	5	$384,473	0 *$0*	0 *$0*	20 *$76,895*	80 *$307,579*	2001-Complete T8 upgrade funded 2002-new lighting installed 2007 Assessment: Classroom lighting replaced as part of ceiling replacement. Corridor lighting reinstalled. No reported problems. 2009 - 2011 assessment:No changes reported. No reported problems. 2012 assessment:No changes reported. Lighting upgrade not required. 2013 assessment: Some lighting upgrades performed as part of performance contract work. 2014 Assessment: No changes reported. 2015, 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 06
Building: Kenneth J. Smith Instructional Building
Area: 23,152sf **Yr Built: 1966** **Floors: 2**

Use Types:
40 % Lab
60 % Classroom

Notes: 2015-Formerly called Instruction East
2007-Renovated as part of Ash Building project
2005-Building scheduled for major renovation as part of planned addition in 2006-2007
Minor renovation in 1999.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Voice/Data	5	$384,473	0	5	10	85	Recently updated
			$0	*$19,224*	*$38,447*	*$326,802*	2007 Assessment:No changes. No reported problems. 2009-2014 assessment:No changes reported. No reported problems. 2015, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Ceilings	3	$230,684	0	0	20	80	Most new.
			$0	*$0*	*$46,137*	*$184,547*	Some areas beginning to show signs of sagging, possibly caused by humidity. 2007 Assessment: Ceilings replaced with 2x2 lay-in as part of sprinkler system installation. 2009-2014 assessment:No changes reported. No reported problems. 2015, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Walls/Casework	2	$153,789	0	0	20	80	Masonry corridor walls, balance of walls painted gypsum - recently repainted.
			$0	*$0*	*$30,758*	*$123,031*	2007 Assessment: minimal wall removal/addition as part of renovation. Interior walls repainted. 2009-2014 assessment:No changes reported. No reported problems. 2015, 2018, 2019, 2021 assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 06
Building: Kenneth J. Smith Instructional Building
Area: 23,152sf **Yr Built: 1966** **Floors: 2**

Use Types:
40 % Lab
60 % Classroom

Notes: 2015-Formerly called Instruction East
2007-Renovated as part of Ash Building project
2005-Building scheduled for major renovation as part of planned addition in 2006-2007
Minor renovation in 1999.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Doors	2	$153,789	0	0	20	80	Exterior: original hollow metal doors
			$0	*$0*	*$30,758*	*$123,031*	

2005-hinges and hardware failing and deteriorating, doors rusting at bottoms, due for replacement.

Interior: Original solid core wood doors. Finish worn ,some swelling.

2007 Assessment:
Exterior: (3) exterior doors replaced

Interior: (3) new doors added, (2) removed.

2009-2012 assessment:No changes reported. No reported problems.

2013 assessment:
Classroom door hardware changed to lockdown type for security.

2014 Assessment: No changes reported.

2015, 2018, 2019, 2021 assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 06
Building: Kenneth J. Smith Instructional Building
Area: 23,152sf **Yr Built: 1966** **Floors: 2**

Use Types:
40 % Lab
60 % Classroom

Notes: 2015-Formerly called Instruction East
2007-Renovated as part of Ash Building project
2005-Building scheduled for major renovation as part of planned addition in 2006-2007
Minor renovation in 1999.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Floors	3	$230,684	0	0	20	80	Quarry tile in corridors, no reported problems.
			$0	*$0*	*$46,137*	*$184,547*	Some new carpet, new VCT. 2004-Some offices still need new carpet. 2007 Assessment: flooring replaced as required by renovation. Sheet vinyl installed in labs. VCT installed in small portions of classrooms (near sinks). Carpet installed in office, some classrooms. 2009-2014 assessment:No changes reported. No reported problems. 2015 assessment: No changes reported. No reported problems. 2018 Assessment: No changes reported. No reported problems. Carpet replacement in selected area. 2019 Assessment: No changes reported. No reported problems. 2021 Assessment: No changes reported. No reported problems.
Bldg., Fire, ADA, Elevators	2	$153,789	0	0	10	90	Stairway doors propped open on lower level.
			$0	*$0*	*$15,379*	*$138,410*	Unisex ADA toilet room added. New fire alarm system. Elevator installed in 1999, no reported problems 2007 Assessment: New exit signage added. Existing emergency lighting remains. Connection to Ash Building resolves ADA toilet room issues. 2009-2014 assessment:No changes reported. No reported problems. 2015 assessment: No changes reported. No reported problems. 2018 Assessment: No changes reported. No reported problems. 2019 Assessment: No changes reported. No reported problems. 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 06
Building: Kenneth J. Smith Instructional Building
Area: 23,152sf **Yr Built: 1966** **Floors: 2**

Use Types:
40 % Lab
60 % Classroom

Notes: 2015-Formerly called Instruction East
2007-Renovated as part of Ash Building project
2005-Building scheduled for major renovation as part of planned addition in 2006-2007
Minor renovation in 1999.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Immed. Site, Ext. Ltg., etc	3	$230,684	0	0	10	90	No reported problems
			$0	*$0*	*$23,068*	*$207,616*	
							2007 Assessment: Sitework performed as part of Ash Building construction. No reported problems. 2009-2014 assessment:No changes reported. No reported problems. 2015, 2018, 2019, 2021 assessment: No changes reported. No reported problems.
CRV Totals:	100	$7,689,465	*$115,342*	*$365,250*	*$811,239*	*$6,397,635*	$7,689,465

Priority Issues Data

$7,689,465	$115,342	$0	1.5%	GOOD
CRV	DMB	EXCESS	FCI	RATING

0-5 Year Cumulative Data

$480,592	$173,013	6.3%	$153,789	FAIR
DMB	EXCESS	FCI	$/YR MAINTAIN	RATING

Campus: Main
Bldg. No: 07
Building: Instruction North
Area: 21,780sf **Yr Built: 1968** **Floors: 1**

Use Types:
100% Vo/Tech

Notes: 2007-majority of building renovated. North and south exterior walls replaced.
2005-Building scheduled for major repairs and renovation as part of Instruction East work in 2006-2007
One classroom renovated in 2001.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Structure	12	$522,673	0	0	5	95	Unprotected steel structure with block infill.
			$0	*$0*	*$26,134*	*$496,540*	

2000-Some cracks in walls, some blocks replaced, still some water infiltration.

2003-severe exterior wall damage - see cladding notes.

2007 assessment: Structure at exterior walls modified as part of renovation - exterior wall was providing lateral support.
Exterior column deterioration (due to water infiltration) repaired.

Water infiltration problems resolved as part of renovation.

2009-2014 assessment:No changes reported. No reported problem

2015 Assessment: No changes reported. No reported problems.

2018 Assessment: Building in good structural condition, no deficiencies noted.

2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 07
Building: Instruction North
Area: 21,780sf **Yr Built: 1968** **Floors: 1**

Use Types:
100% Vo/Tech

Notes: 2007-majority of building renovated. North and south exterior walls replaced.
2005-Building scheduled for major repairs and renovation as part of Instruction East work in 2006-2007
One classroom renovated in 2001.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Roof	7	$304,893	0	0	80	20	Trocal roof in 1998
			$0	*$0*	*$243,914*	*$60,979*	

2003-icecicles and roof runoff clinging to drip edge (covered over with Trocal roof), running down wall and into mortar joints, causing severe wall damage. Lack of gutters exacerbating problem.

2007 assessment: Gutters and downspouts added. No reported problems

2009 Assessment:No changes reported.

2010 Assessment:No changes reported.

2011 assessment: Minor roof leaks repaired as part of annual maintenance. Roof inspected annually, no reported problems, but roof nearing end of expected life.

2012 assessment:No changes reported.

2013 assessment:No changes reported.

2014 assessment: Roof inspected, due for replacement within 5 years.

2015 assessment: Roof membrane near end of expected life. Projected roof membrane replacement from roof report: 2019

2018 Assessment: Single-ply membrane with insulation.
Roof replacement scheduled in 2024.

2019 Assessment: No changes reported. No reported problems.

2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 07
Building: Instruction North
Area: 21,780sf **Yr Built: 1968** **Floors: 1**

Use Types:
100% Vo/Tech

Notes: 2007-majority of building renovated. North and south exterior walls replaced.
2005-Building scheduled for major repairs and renovation as part of Instruction East work in 2006-2007
One classroom renovated in 2001.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Glazing	5	$217,781	0 *$0*	15 *$32,667*	15 *$32,667*	70 *$152,446*	Minimal original alum frame single pane, in fair condition, resealed in 2000. 2007 assessment: All exterior windows in north and south walls replaced with insulated aluminum frame units as part of renovation. Windows in east wall not replaced (minimal) 2009-2014 Assessment:No changes reported. 2015 Assessment: No changes reported. 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Cladding	15	$653,342	5 *$32,667*	5 *$32,667*	5 *$32,667*	85 *$555,340*	Block. Repainted, waterproofed and caulked in 2001-Monitor condition for 2001-recurring leaking problems. 2002-entry canopy repaired 2003-water infiltration problem continues, block severely damaged (spalled, shattered, growing algae) from roof runoff at most exterior door jambs on north and south sides of building. concrete lintels also showing damage. Deep raked mortar joints allowing water into block and spalling of block surface. Repair or replacement of damaged block required. Roof condition will also require repair to avoid future damage. 2007 assessment: North and south exterior concrete block walls replaced with prefinished metal siding and concrete block base. All remaining walls cleaned, repaired as required, and repainted. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 07
Building: Instruction North
Area: 21,780sf **Yr Built: 1968** **Floors: 1**

Use Types:
100% Vo/Tech

Notes: 2007-majority of building renovated. North and south exterior walls replaced.
2005-Building scheduled for major repairs and renovation as part of Instruction East work in 2006-2007
One classroom renovated in 2001.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
HVAC	20	$871,122	5	5	5	85	Original (steam from power plant building) - in poor but working condition, building is heated, although not properly.
			$43,556	*$43,556*	*$43,556*	*$740,454*	

2003-steam pipes reported in poor condition, failures often require removal of several feet of deteriorated pipe. Some AHU's non-functioning and disconnected. A/C only provided to a few classrooms - most DX units at end of life.

2005-One DX unit has failed, but repairs not planned due to upcoming proposed renovation. Some fin tube units damaged. Most ceiling mounted unit heaters not working. Inadequate ventilation in darkroom, clay mixing area and kiln area.

2003-Unit ventilator in one classroom replaced.

2007 Assessment:
East half of building - piping, units and controls replaced. No reported problems.
Steam line repaired and reinsulated as required.
(2) mezzanine-mounted AHU's provide heating and cooling in east half of building.
Cooling: (2) ground mounted Trane DX units added.
Ceiling mounted gas-fired heaters added at overhead door locations.
West half of building-existing unit heaters reused, controls minimal. No reported problems.

2009 Assessment: No changes reported.

2010 Assessment: Gas meter systems replaced by Consumers Energy.

2011 assessment:No changes reported. Older HVAC equipment still operating, but past end of useful life and due for replacement.

2012 assessment: System controls on newer HVAC equipment upgraded to DDC as part of new energy management system. Actuators on dampers and control valves replaced as required.

2013-2015 Assessment: No changes reported. Older HVAC equipment still operating, but past end of useful life and due for replacement.

2019 Assessment: No changes reported. No reported problems.

2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 07
Building: Instruction North
Area: 21,780sf **Yr Built: 1968** **Floors: 1**

Use Types:
100% Vo/Tech

Notes: 2007-majority of building renovated. North and south exterior walls replaced.
2005-Building scheduled for major repairs and renovation as part of Instruction East work in 2006-2007
One classroom renovated in 2001.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
HVAC (continued)	20	$871,122	5	5	5	85	2016 Assessment: No changes reported.
			$43,556	*$43,556*	*$43,556*	*$740,454*	

2018 Assessment:
The HVAC system is a combination of classroom unit ventilators and air handling units served by hot water heating split DX A/C outoor condensing units.
The building is a metal building with minimal insulation and is currently under-utilized.
Shop Classrooms appear to have minimum heat and ventilation (served by overhead doors)
Recommend old steam radiators (at shop classrooms/storage) to be replaced with hot water.
Gas fired unit heaters are to remain.
Steam and condensate services enter into the building, are converted to hot water heating and mainly serve perimeter fin tube or hot water coils located in central AHUs.
East offices areas are served by wall hung split air conditioning units which appear in good working condition.

2019 Assessment: Replaced one heater. No reported problems.

2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 07
Building: Instruction North
Area: 21,780sf **Yr Built: 1968** **Floors: 1**

Use Types:
100% Vo/Tech

Notes: 2007-majority of building renovated. North and south exterior walls replaced.
2005-Building scheduled for major repairs and renovation as part of Instruction East work in 2006-2007
One classroom renovated in 2001.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Plumbing/Drainage	5	$217,781	0 *$0*	10 *$21,778*	5 *$10,889*	85 *$185,113*	Some piping in poor condition, fittings deteriorated. Drains near art classroom plug occasionally due to inadequate clay traps. 2005-New hand sink installed in facilities work area. 2007 Assessment: East half of building - all new plumbing, toilet rooms and art sinks. No reported problems. Trench drains removed and infilled with concrete. West half of building - existing toilet rooms remain, in poor condition. Due for renovation or removal. 2009-2015 Assessment: No changes reported. West half - older toilet rooms remain. 2016 Assessment: No changes reported. 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Primary/Secondary	8	$348,449	5 *$17,422*	5 *$17,422*	10 *$34,845*	80 *$278,759*	Original - in working condition, capacity available 2007 assessment: No reported problems 2009 Assessment:No changes reported. 2010 assessment: Campus primary service upgraded by Consumers Energy to provide additional capacity. 2011-2015 Assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: The building is powered by a pad-mounted transformer, which serves 480/277V to a main 600A panel on the mezzanine. The transformer appears old, rusted, with possible leak. A sticker indicates it has been tested clear of PCBs. Recommend full electrical testing on this transformer to help in determining remaining useful life and budgeting for its replacement. The building has an existing manual fire alarm system, National Time & Signal 902 series, with no issues. 2019 Assessment: No changes reported. No reported problems.

2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 07
Building: Instruction North
Area: 21,780sf **Yr Built: 1968** **Floors:1**

Use Types:
100% Vo/Tech

Notes: 2007-majority of building renovated. North and south exterior walls replaced.
2005-Building scheduled for major repairs and renovation as part of Instruction East work in 2006-2007
One classroom renovated in 2001.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Distribution	5	$217,781	10	10	10	70	Original - in working condition, but most panels are obsolete Federal-Pacific
			$21,778	*$21,778*	*$21,778*	*$152,446*	

2007 assessment: East half of building - all power and lighting panels replaced.
West half of building - original Federal Pacific panels remain.
(2) near end of life and scheduled for replacement.

2009 Assessment: All distribution panels upgraded, no reported problems.

2010-2015 Assessment: No changes reported. No reported problems.

2016 Assessment: No changes reported. No reported problems.

2018 Assessment:
Some branch panelboards in the building are Federal Pacific brand
have known issues with the failure of breakers to trip in fault conditions.
Recommend replacement of all such panels for life safety reasons.

2019 Assessment: No changes reported. No reported problems.

2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 07
Building: Instruction North
Area: 21,780sf **Yr Built: 1968** **Floors:1**

Use Types:
100% Vo/Tech

Notes: 2007-majority of building renovated. North and south exterior walls replaced.
2005-Building scheduled for major repairs and renovation as part of Instruction East work in 2006-2007
One classroom renovated in 2001.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Lighting	5	$217,781	5 *$10,889*	5 *$10,889*	5 *$10,889*	85 *$185,113*	Majority original T12, working, with no more than typical ballast replacement. 2007 assessment: East half of building - all lighting replaced with T8 fixtures. No "Darkroom in use" warning light installed outside darkroom door. West half of building - original lighting remains. No reported problems 2009-2011 Assessment:No changes reported. 2012 assessment:No changes reported. Lighting upgrades not required. 2013-2015 Assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: Majority of lighting is T8 linear fluorescent, though some T12 lamps. T12 have been phased out due to energy efficiency, these should be replaced with LEDs. Exterior wall packs are compact fluorescent with battery packs. While previously appropriate, these are not the best solution for exterior lighting in northern climate, as it is difficult to start in cold weather with light output significantly reduced. Recommend replacement with LED wall packs. 2019, 2021 Assessment: No changes reported. No reported problems.
Voice/Data	3	$130,668	0 *$0*	5 *$6,533*	10 *$13,067*	85 *$111,068*	No reported problems 2007 assessment: System upgraded in east half of building. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 07
Building: Instruction North
Area: 21,780sf **Yr Built: 1968** **Floors: 1**

Use Types:
100% Vo/Tech

Notes: 2007-majority of building renovated. North and south exterior walls replaced.
2005-Building scheduled for major repairs and renovation as part of Instruction East work in 2006-2007
One classroom renovated in 2001.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Ceilings	1	$43,556	5	10	5	80	Mostly open to deck, some suspended ceiling (replaced in 2000-2001).
			$2,178	*$4,356*	*$2,178*	*$34,845*	2007 assessment: East half of building - Underside of deck cleaned and repainted. Minimal lay-in ceiling added as required. West half of building - no changes, no reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Walls/Casework	4	$174,224	5	10	10	75	Interior walls recently repainted, monitor condition for recurring problems.
			$8,711	*$17,422*	*$17,422*	*$130,668*	2003 - water problems in exterior walls damaging paint. 2007 assessment: East half of building - walls removed/built as necessary for renovation work. Remaining walls repainted. West half of building - no changes. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 07
Building: Instruction North
Area: 21,780sf **Yr Built: 1968** **Floors: 1**

Use Types:
100% Vo/Tech

Notes: 2007-majority of building renovated. North and south exterior walls replaced.
2005-Building scheduled for major repairs and renovation as part of Instruction East work in 2006-2007
One classroom renovated in 2001.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Doors	3	$130,668	5 *$6,533*	10 *$13,067*	10 *$13,067*	75 *$98,001*	Exterior hollow metal doors rusting, sills deteriorating, a few replaced in 1998. 2002-main OH door replaced, others OK. Damage to lintels and jambs may require removal of doors to repair. Interior doors OK. 2007 assessment: All exterior man and overhead doors and frames replaced. East half of building - interior doors replaced. West half of building - interior doors remain as is, no reported problems. 2009-2013 Assessment:No changes reported. 2014 assessment: Classroom door hardware changed to lockdown type for security. 2015 Assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: Select doors need to be replaced. 2019 Assessment: No changes reported. No reported problems. 2021 Assessment: No changes reported. No reported problems.
Floors	3	$130,668	5 *$6,533*	10 *$13,067*	10 *$13,067*	75 *$98,001*	concrete - OK 2007 assessment: East half of building - floors patched and coated with epoxy. Exiting trench drains removed and infilled with concrete. Carpet installed in offices and classroom. West half of building - no changes, no reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: No changes reported. No reported problems. Concrete slab-on-grade.

2019 Assessment: No changes reported. No reported problems.

2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 07
Building: Instruction North
Area: 21,780sf **Yr Built: 1968** **Floors: 1**

Use Types:
100% Vo/Tech

Notes: 2007-majority of building renovated. North and south exterior walls replaced.
2005-Building scheduled for major repairs and renovation as part of Instruction East work in 2006-2007
One classroom renovated in 2001.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Bldg., Fire, ADA, Elevators	2	$87,112	5	5	5	85	Fire alarms updated. Toilets not ADA, but space exists to rework.
			$4,356	*$4,356*	*$4,356*	*$74,045*	Exit signs replaced. No sprinkler system. 2007 assessment: East half of building: Fire alarm upgraded as required by renovation. Emergency and exit lighting upgraded as required by renovation. No sprinkler system. ADA toilet rooms added. West half of building - no changes, no reported problems. 2009 Assessment:No changes reported. 2010 Assessment: ADA door openers added to toilet rooms. 2011-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Immed. Site, Ext. Ltg., etc	2	$87,112	15	25	0	60	Paving problems - some deterioration of sidewalks
			$13,067	*$21,778*	*$0*	*$52,267*	2003-lot resealed and restriped. 2007 assessment: concrete sidewalks on south side of building replaced. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: Asphalt paving is in poor condition and should be replaced. 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 07
Building: Instruction North
Area: 21,780sf **Yr Built: 1968** **Floors: 1**

Use Types:
100% Vo/Tech

Notes: 2007-majority of building renovated. North and south exterior walls replaced.
2005-Building scheduled for major repairs and renovation as part of Instruction East work in 2006-2007
One classroom renovated in 2001.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
CRV Totals:	100	$4,355,610	*$167,691*	*$261,337*	*$520,495*	*$3,406,087*	$4,355,610

Priority Issues Data

$4,355,610	$167,691	$0	3.9%	GOOD
CRV	DMB	EXCESS	FCI	RATING

0-5 Year Cumulative Data

$429,028	$437,739	9.9%	$87,112	POOR
DMB	EXCESS	FCI	$/YR MAINTAIN	RATING

Campus: Main
Bldg. No: 08
Building: Les Morford Instructional Building
Area: 11,184sf **Yr Built: 1969** **Floors: 1**

Use Types:
55 % Auditorium
45 % Classroom

Notes:
2015-Formerly called Instruction West
2007-covered walkway to Ash Building added.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Structure	15	$507,418	0	5	10	85	No reported problems
			$0	*$25,371*	*$50,742*	*$431,305*	
							2007 assessment:No changes. No reported problems.
							2009-2015 Assessment: No changes reported. No reported problems.
							2016 Assessment: No changes reported. No reported problems.
							2018 Assessment: Penthouse screen wall support steel has significant corrosion – will need cleaning and paint. Penthouse block cracked at support steel bearing due to thermal expansion contraction – slide bearing will be required to prevent continued deterioration Efflorescence on face of Penthouse block indicates moisture penetration into wall – block should be painted or sealed. Possible clogged roof drain on Penthouse roof.
							2019, 2021 Assessment: No changes reported. No reported problems.
Roof	5	$169,139	0	5	75	20	Firestone EPDM in 1999
			$0	*$8,457*	*$126,854*	*$33,828*	
							2005 - some flashing due for replacement
							2007 assessment: Flashing problems resolved during construction of covered walkway to Ash Building.
							2009 Assessment:No changes reported.
							2010 Assessment: Minor roof leaks discovered, repaired under warranty.
							2011 assessment: Leaks Resolved. Roof inspected annually, no reported problems, but roof past half of expected life.
							2012 assessment:No changes reported.
							2013 assessment: Minor roof leaks at penthouse on west side. Extending membrane up to wall flashing to eliminate leaks.

							2014 assessment: Roof inspected, repaired with new RTU installation. 2015 assessment: Projected roof membrane replacement from roof report: 2024 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: Roof scheduled for replacement in 2024. 2019 Assessment: No changes reported. No reported problems. 2021 Assessment: No changes reported. No reported problems. Projected roof replacement in 2026.
Glazing	5	$169,139	0 *$0*	0 *$0*	15 *$25,371*	85 *$143,768*	Original - good condition 2007 assessment:No changes. No reported problems. 2009 -2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Cladding	5	$169,139	0 *$0*	0 *$0*	5 *$8,457*	95 *$160,682*	Brick, No reported problems 2007 assessment:No changes. No reported problems. 2009-2016 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 08
Building: Les Morford Instructional Building
Area: 11,184sf **Yr Built: 1969** **Floors: 1**

Use Types:
55 % Auditorium
45 % Classroom

Notes:
2015-Formerly called Instruction West
2007-covered walkway to Ash Building added.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
HVAC	25	$845,696	5	5	20	70	(2) AHU's in penthouse
			$42,285	*$42,285*	*$169,139*	*$591,987*	(2) rooftop condenser units for AC. Original Pneumatic controls at end of life 2003-some piping deterioration possible - continue to monitor condition 2004-major system components due for replacement ($225,000), scheduled for 2006. 2007 assessment: system components scheduled for replacement not yet done. steam line to building replaced. (2) AHU's in penthouse original, at end of life, due for replacement. (2) rooftop condenser units original, at end of life, due for replacement. Coolant leaks slowly, but units functioning. Pneumatic controls functioning. 2009 Assessment:No changes reported. 2010 Assessment: Gas meter systems replaced by Consumers Energy. HVAC system still due for upgrade / replacement. 2011 assessment:No changes reported. HVAC system still due for upgrade / replacement. 2012 assessment: Majority of HVAC system replaced as part of ECM contract ($200,000): New Trane heat pump/steam coil RTU's, controls, VAV units, actuators, dampers, water pumps. Distribution ductwork reworked as required for new system. 2013 assessment: Building now on campus-wide Building Automation System. 2014 - 2015 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 08
Building: Les Morford Instructional Building
Area: 11,184sf **Yr Built: 1969** **Floors: 1**

Use Types:
55 % Auditorium
45 % Classroom

Notes: 2015-Formerly called Instruction West
2007-covered walkway to Ash Building added.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
HVAC (continued)	25	$845,696	5 *$42,285*	5 *$42,285*	20 *$169,139*	70 *$591,987*	2016 Assessment: No changes reported. No reported problems. 2018 Assessment: Steam is supplied to the building with a hot water converter used for the Building's primary heating system at the perimeter of the building. Steam heating AHUs are to be replaced with new hot water system that currently serves the auditorium. Existing gas-fired RTU model TCH301F400AD was installed in 2012. The air condition does not operate with no demand for cooling in the space. Recommend controls upgrade for the HVAC systems serving the entries to incorporate security access control. Recommend control upgrades to be integrsated into the Campus BEMS. Domestic hot water heater is electric. The School District should consider a new gasfired water heater in the future for energy savings. (The existing gas service appears to be a 3" piped into the Classroom building) 2019 Assessment: 4 heaters replaced. No problems reported. 2021 Assessment: No changes reported. No reported problems.
Plumbing/Drainage	5	$169,139	5 *$8,457*	5 *$8,457*	20 *$33,828*	70 *$118,397*	Plumbing fixtures and associated exposed plumbing recently replaced. 2007 assessment:No changes. No reported problems. 2009-2011 Assessment:No changes reported. 2012 Assessment: New water heater installed. 2013 assessment: Toilet rooms renovated and fixtures relocated as necessary for meet ADA goals. Urinals replaced. 2014-2015, 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: Recommend new roof drains and overflow drains at time of roof upgrades to the current Mansard roof system. 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 08
Building: Les Morford Instructional Building
Area: 11,184sf **Yr Built: 1969** **Floors: 1**

Use Types:
55 % Auditorium
45 % Classroom

Notes:
2015-Formerly called Instruction West
2007-covered walkway to Ash Building added.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Primary/Secondary	10	$338,279	0	0	10	90	No reported problems
			$0	*$0*	*$33,828*	*$304,451*	

2007 assessment:No changes. No reported problems.

2009 Assessment:No changes reported.

2010 assessment: Campus primary service upgraded by Consumers Energy to provide additional capacity.

2011-2015 Assessment: No changes reported. No reported problems.

2016 Assessment: No changes reported. No reported problems.

2018 Assessment: The main panel is a new Eaton PRL3a panel serving the building 200A at 480/277V, 3 phase. The source of this 480V is not apparent, though it is likely fed from the unit substation in the basement of the Smith Building.
The existing fire alarm system head-end is upgraded to a National Time & Signal PT series, but many of the devices are original.
The pull stations are not at a height that complies with current ADA requirements.

2019 Assessment: No changes reported. No reported problems.

2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 08
Building: Les Morford Instructional Building
Area: 11,184sf **Yr Built: 1969** **Floors: 1**

Use Types:
55 % Auditorium
45 % Classroom

Notes: 2015-Formerly called Instruction West
2007-covered walkway to Ash Building added.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Distribution	5	$169,139	5	5	5	85	No reported problems
			$8,457	*$8,457*	*$8,457*	*$143,768*	
							2007 assessment:No changes. No reported problems.
							2009-2015 Assessment: No changes reported. No reported problems.
							2016, 201, 2019, 2021 Assessment: No changes reported. No reported problems.
Lighting	5	$169,139	10	10	10	70	Corridor lighting replaced in 2001.
			$16,914	*$16,914*	*$16,914*	*$118,397*	Auditorium lighting funded for replacement with compact fluorescent.
							2007 assessment: recessed can lighting in auditorium upgraded to compact fluorescent.
							2009 Assessment:No changes reported.
							2010 Assessment: A few T12 fixtures remain, due for upgrade to T8
							2011 assessment:No changes reported.
							2012 assessment: Lighting upgraded as part of ECM contract.
							2013 assessment: occupancy sensors added to control classroom lighting.
							2014-2015 Assessment: No changes reported. No reported problems.
							2016 Assessment: No changes reported. No reported problems.
							2018 Assessment: Lighting is mainly T8 fluorescent. Recommend replacement with LED technology and upgraded lighting controls as budget allows to lower operating and energy costs. Emergency lighting is served throughout using unit battery “bugeye” style fixtures. Future lighting upgrades will trigger an upgrade to current life safety code requirements.
							2019 Assessment: No changes reported. No reported problems.
							2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 08
Building: Les Morford Instructional Building
Area: 11,184sf **Yr Built: 1969** **Floors:1**

Use Types:
55 % Auditorium
45 % Classroom

Notes: 2015-Formerly called Instruction West
2007-covered walkway to Ash Building added.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Voice/Data	5	$169,139	0 *$0*	0 *$0*	5 *$8,457*	95 *$160,682*	Recently upgraded 2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Ceilings	3	$101,484	5 *$5,074*	5 *$5,074*	10 *$10,148*	80 *$81,187*	Corridor ceilings replaced as part of lighting upgrade. 2007 assessment:No changes. No reported problems. 2009-2012 Assessment:No changes reported. 2013 assessment: toilet room ceilings replaced as part of renovation. 2014-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Walls/Casework	2	$67,656	5 *$3,383*	5 *$3,383*	10 *$6,766*	80 *$54,125*	Masonry corridor walls, balance of walls painted gypsum - recently repainted. 2007 assessment:No changes. No reported problems. 2009-2012 Assessment:No changes reported. 2013 assessment: Toilet rooms renovated recently, including partitions, tiling, etc. 2014-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 08
Building: Les Morford Instructional Building
Area: 11,184sf **Yr Built: 1969** **Floors: 1**

Use Types:
55 % Auditorium
45 % Classroom

Notes: 2015-Formerly called Instruction West
2007-covered walkway to Ash Building added.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Doors	2	$67,656	5	5	10	80	Exterior: Original hollow metal doors
			$3,383	*$3,383*	*$6,766*	*$54,125*	

2005-hinges and hardware failing and deteriorating, doors rusting at bottoms, due for replacement.

Interior: Original solid core wood doors. Finish worn ,some swelling.

2007 assessment:
Exterior doors cleaned, patched and repainted. Hardware and doors still due for replacement.
Interior doors - no changes.

2009 Assessment:No changes reported.

2010 Assessment:No changes reported.

2011 assessment: Exterior doors continuing to deteriorate. Doors and hardware are at end of their useful life and due for replacement.

2012 assessment: Penthouse door replaced.

2013 assessment: All classroom door hardware be changed to lockdown type for security.

2014 Assessment: No changes reported.

2015 Assessment: No changes reported.

2016 Assessment: No changes reported. Exterior entrance doors continuing to deteriorate. Doors and hardware are at end of their useful life and due for replacement.

2018 Assessment: No changes reported.

2019 Assessment: No changes reported. No reported problems.

2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 08
Building: Les Morford Instructional Building
Area: 11,184sf **Yr Built: 1969** **Floors: 1**

Use Types:
55 % Auditorium
45 % Classroom

Notes:
2015-Formerly called Instruction West
2007-covered walkway to Ash Building added.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Floors	3	$101,484	5 *$5,074*	5 *$5,074*	15 *$15,223*	75 *$76,113*	Offices - carpet replaced in 2002. 2007 Assessment: No changes. No reported problems. 2009-2013 Assessment:No changes reported. 2014 assessment: Office carpet due for replacement. 2015 Assessment: No changes reported. 2016 Assessment: No changes reported. Office carpet due for replacement. 2018 Assessment: No changes reported. 2019 Assessment: No changes reported. No reported problems. 2021 Assessment: No changes reported. No reported problems.
Bldg., Fire, ADA, Elevators	2	$67,656	0 *$0*	5 *$3,383*	5 *$3,383*	90 *$60,890*	Unisex ADA toilet room added in 1999. 1999 - Building upgraded to meet ADA compliance. New fire alarm system 2007 assessment:No changes. No reported problems. 2009-2012 Assessment:No changes reported. 2013 assessment: Toilet rooms upgraded to meet ADA guidelines. ($55,000) 2014-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Immed. Site, Ext. Ltg., etc	3	$101,484	0 *$0*	5 *$5,074*	10 *$10,148*	85 *$86,261*	No reported problems 2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems.

2016 Assessment: No changes reported. No reported problems.

2018 Assessment: No changes reported. No problems reported. Selected sidewalks replaced in 2017.

2019 Assessment: No changes reported. No reported problems.

2021 Assessment: No changes reported. No reported problems.

CRV Totals:	100	$3,382,785	*$93,027*	*$135,311*	*$534,480*	*$2,619,967*	$3,382,785

Priority Issues Data					0-5 Year Cumulative Data				
$3,382,785	$93,027	$0	2.8%	GOOD	$228,338	$60,430	6.8%	$73,248	FAIR
CRV	DMB	EXCESS	FCI	RATING	DMB	EXCESS	FCI	$/YR MAINTAIN	RATING

Campus: Main
Bldg. No: 09
Building: Donald C. Burns Library and Admin.
Area: 28,720sf **Yr Built: 1966** **Floors: 2**

Use Types:
60 % Administration
40 % Library

Notes: 2015-Formerly called LRC/Admin Building
Complete interior renovation in 1999.
2019 - New writing lab completed at library

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Structure	15	$1,302,399	0	0	5	95	No reported problems
			$0	*$0*	*$65,120*	*$1,237,279*	2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: Crack in concrete basement wall has been injected to prevent water leakage. Unsightly but not representative of structural deficiency. 2019, 2021 Assessment: No changes reported. No reported problems.
Roof	5	$434,133	0	0	80	20	Single ply EPDM, installed in 1999, No reported problems.
			$0	*$0*	*$347,306*	*$86,827*	2007 assessment:No changes. No reported problems. 2009 -2010 Assessment: No changes reported. 2011 assessment:Roof inspected annually, no reported problems, but roof past half of expected life. 2012 -2014 assessment: Roof inspected, repaired as necessary. 2015 Assessment: No changes reported. 2016 Assessment: No changes reported. No known leaks, Projected roof membrane replacement from roof report: 2019 2018 Assessment: Roof replacement scheduled in 2024. 2019 Assessment: No changes reported. No reported problems. 2021 Assessment: No changes reported. No reported problems. Projected roof replacement in 2026.

Campus: Main
Bldg. No: 09
Building: Donald C. Burns Library and Admin.
Area: 28,720sf **Yr Built: 1966** **Floors: 2**

Use Types:
60 % Administration
40 % Library

Notes: 2015-Formerly called LRC/Admin Building
Complete interior renovation in 1999.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Glazing	5	$434,133	0 *$0*	0 *$0*	20 *$86,827*	80 *$347,306*	Mostly original, in good condition 2007 assessment:No changes. No reported problems. 2009-2011 Assessment:No changes reported. 2012 assessment: Glass replaced on 3 offices in southwestern corner. 2013-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Cladding	6	$520,960	0 *$0*	0 *$0*	20 *$104,192*	80 *$416,768*	No reported problems 2007 assessment: Brick screen wall surrounding chillers: brick at top of wall and at louvers are deteriorating - mortar loosening, some bricks loose, due for tuckpointing. 2009-2010 Assessment:No changes reported. 2011 assessment:No changes reported. Masonry at louvers still due for repair. 2012-2015 Assessment: No changes reported. Masonry at louvers still due for repair. 2016 assessment: Masonry at air louvers budgeted for repair in 2016. 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 09
Building: Donald C. Burns Library and Admin.
Area: 28,720sf **Yr Built: 1966** **Floors: 2**

Use Types:
60 % Administration
40 % Library

Notes: 2015-Formerly called LRC/Admin Building
Complete interior renovation in 1999.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
HVAC	25	$2,170,665	0	10	20	70	Replaced in 1999, No reported problems.
			$0	*$217,067*	*$434,133*	*$1,519,466*	Variable Frequency Drive controls failing, recently replaced.
							Library humidity requirements (low humidity) handled through overcooling of space.
							2007 assessment:No changes. No reported problems.
							2009 Assessment: 2008 - new reheat boiler installed to control building humidity (cost part of Doser Building reheat boiler install)
							2010 Assessment: Gas meter systems replaced by Consumers Energy.
							2011 assessment:No changes reported. No reported problems.
							2012 assessment: System controls upgraded to DDC as part of new energy management system. Dampers, actuators on control valves replaced as required.
							2013-2015 Assessment: No changes reported.
							2016 Assessment: No changes reported. No reported problems.
							2018 Assessment: The HVAC system is a combination of central AHU with hot water heating and chilled water cooling which require upgrades to their respective controls. Chilled water is supplied by an outdoor air-cooled chille (1999) using 25% ethylene glycol. The current outdoor chiller appears in good condition and will continue to provide 10 years. There is evidence of high humidity in the lower level library where ceiling tiles are sagging. Recommend CO2 controls for demand ventilation and de-humidification reheat added to the lower level AHUs. VFDs are on all motors and should be controlled. The building is fully DDC controlled with the standard campus BEMS system. The current AHU systems need to expand with controls upgrades. Steam and condensate services enter in to the building and converted to hot water heating. The School is currently adding side stream filtration to the hot water circulation and distribution heating system to help improved water quality. Steam line improvements made in 2017.
							2019 Assessment: Entry heater replaced. No reported problems.
							2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 09
Building: Donald C. Burns Library and Admin.
Area: 28,720sf **Yr Built: 1966** **Floors: 2**

Use Types:
60 % Administration
40 % Library

Notes: 2015-Formerly called LRC/Admin Building
Complete interior renovation in 1999.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Plumbing/Drainage	5	$434,133	0 *$0*	10 *$43,413*	15 *$65,120*	75 *$325,600*	Some original roof drains, No reported problems 2007 assessment:No changes. No reported problems. 2009-2014 assessment:No changes reported. No reported problems. 2015 Assessment: No changes reported. No reported problems. 2016 assessment:lower level flooded during heavy rainstorm in 2016. Damage reported as minor. 2018 Assessment: The building is a 2-story fully sprinkled building. 2019, 2021 Assessment: No changes reported. No reported problems.
Primary/Secondary	9	$781,439	0 *$0*	0 *$0*	20 *$156,288*	80 *$625,152*	No reported problems 2007 assessment:No changes. No reported problems. 2009 Assessment:No changes reported. 2010 assessment: Campus primary service upgraded by Consumers Energy to provide additional capacity. 2011-2015 Assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: Power enters this building via a pad-mounted transformer on the north, fed from a S&C Electric pad-mounted primary switch with a PMH-6 configuration. 480/277V power is delivered from a main panel on the lower level north end that utilizes the “six disconnect rule” and has no single main switch or breaker. The fire alarm system is a newer National Time & Signal system, no issues found. The main electrical room seems to be lacking any emergency lighting. Recommend adding this for worker safety. 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 09
Building: Donald C. Burns Library and Admin.
Area: 28,720sf **Yr Built: 1966** **Floors: 2**

Use Types:
60 % Administration
40 % Library

Notes: 2015-Formerly called LRC/Admin Building
Complete interior renovation in 1999.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Distribution	4	$347,306	0 *$0*	10 *$34,731*	15 *$52,096*	75 *$260,480*	No reported problems 2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Lighting	5	$434,133	10 *$43,413*	10 *$43,413*	10 *$43,413*	70 *$303,893*	No reported problems 2007 assessment:No changes. No reported problems. 2009-2011 Assessment: No changes reported. 2012 assessment: Exterior lighting upgraded as part of ECM contract. 2013-2015 Assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: Lighting is a mixture of linear and compact fluorescent. Recommend switchover to LED technology as remodel work happens. 2019, 2021 Assessment: No changes reported. No reported problems.
Voice/Data	5	$434,133	10 *$43,413*	5 *$21,707*	5 *$21,707*	80 *$347,306*	New 2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 09
Building: Donald C. Burns Library and Admin.
Area: 28,720sf **Yr Built: 1966** **Floors: 2**

Use Types:
60 % Administration
40 % Library

Notes: 2015-Formerly called LRC/Admin Building
Complete interior renovation in 1999.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Ceilings	3	$260,480	0 *$0*	5 *$13,024*	15 *$39,072*	80 *$208,384*	No reported problems 2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: There is evidence of high humidity in the lower level library where ceiling tiles are sagging. 2019, 2021 Assessment: No changes reported. No reported problems.
Walls/Casework	2	$173,653	0 *$0*	5 *$8,683*	15 *$26,048*	80 *$138,923*	No reported problems 2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Doors	2	$173,653	0 *$0*	5 *$8,683*	15 *$26,048*	80 *$138,923*	Some doors on lower level original, working, but finish worn. 2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. 2016 Assessment: No changes reported. Lower level wood door finish due for replacement. Flood may have incerased deterioration. 2018 Assessment: No changes reported. 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 09
Building: Donald C. Burns Library and Admin.
Area: 28,720sf **Yr Built: 1966** **Floors: 2**

Use Types:
60 % Administration
40 % Library

Notes: 2015-Formerly called LRC/Admin Building
Complete interior renovation in 1999.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Floors	3	$260,480	0	10	15	75	2005-Metal stairway tread pans rusting, paint chipping at nosings.
			$0	*$26,048*	*$39,072*	*$195,360*	
							2005-Upper level carpet discolored, wearing, easily soiled (due to light color). Due for replacement in 2-3 years.
							2007 assessment: Carpet discoloration continuing.
							2009 Assessment: No changes reported.
							2010 Assessment: Carpet worn and due for replacement.
							2011 assessment:No changes reported. Carpet continues to age and is due for replacement.
							2012 assessment: Risers on library steps cleaned and painted. No other changes.
							2013 assessment: Upper level carpet is at end of life and due for replacement. Seams are fraying, surface is worn. Stair risers are rusting again and due for repaint. Will likely be an ongoing maintenance issue.
							2014 assessment: Upper level carpet due for replacement.
							2015 assessment: Upper level carpet budgeted for replacement in 2015.
							2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 09
Building: Donald C. Burns Library and Admin.
Area: 28,720sf **Yr Built: 1966** **Floors: 2**

Use Types:
60 % Administration
40 % Library

Notes: 2015-Formerly called LRC/Admin Building
Complete interior renovation in 1999.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Bldg., Fire, ADA, Elevators	2	$173,653	0 *$0*	5 *$8,683*	10 *$17,365*	85 *$147,605*	Sprinkler - new. New alarm system. Handrails in stairs may not meet code, should be reviewed. 2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Immed. Site, Ext. Ltg., etc	4	$347,306	5 *$17,365*	5 *$17,365*	10 *$34,731*	80 *$277,845*	Building partially below grade - lower level open on 3 sides with stone retaining walls. 2007 Assessment: Original stone site walls deteriorating. Water infiltration into mortar causing stones to loosen, mortar to deteriorate. Walls due for repair and tuckpointing. 2009 Assessment:No changes reported. 2010 Assessment: Stone site wall deterioration continuing. 2011 assessment:No changes reported. Stone site wall deterioration continuing. 2012 assessment:No changes reported. 2013 assessment: Deterioration at both north and south site walls continues. Mortar is failing and many stones are loose or have fallen. Repair of existing walls not likely to prevent return of problem. Vertical stone walls and sloped retaining walls are due for replacement. 2014 Assessment: No changes reported. Site wall continues to deteriorate. 2015 assessment: Stone site walls and retaining walls due for replacement. 2016 assessment:lower level site flooded extensively during heavy rainstorm in 2016, some water entered building. Stone retaining walls continue to deteriorate; issues may have accelerated due to flooding. Direct buried steam line replacement work may be disturbing site wall further.

2018 Assessment: Some retaining wall repair was completed in 2017.

2019 Assessment: No changes reported. No reported problems.

2021 Assessment: No changes reported. No reported problems.

CRV Totals:	100	$8,682,660	*$104,192*	*$442,816*	*$1,558,537*	*$6,577,115*	$8,682,660

Priority Issues Data					0-5 Year Cumulative Data				
$8,682,660	$104,192	$0	1.2%	GOOD	$547,008	$377,696	6.3%	$173,653	FAIR
CRV	DMB	EXCESS	FCI	RATING	DMB	EXCESS	FCI	$/YR MAINTAIN	RATING

Campus: Main
Bldg. No: 10
Building: Pole Barn
Area: 1,800sf **Yr Built: 1998** **Floors: 1**

Use Types:
100% Storage

Notes:

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Structure	30	$51,408	0	0	0	100	No reported problems
			$0	*$0*	*$0*	*$51,408*	
							2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: No changes reported. No reported problems. Wood frame with metal panel roof structure on concrete slab-on-grade. 2019, 2021 Assessment: No changes reported. No reported problems.
Roof	15	$25,704	0	50	0	50	Asphalt shingles, No reported problems
			$0	*$12,852*	*$0*	*$12,852*	
							2007 assessment:No changes. No reported problems. 2009 Assessment:No changes reported. 2010 Assessment:No changes reported. 2011- 2014 assessment: Roof inspected, repaired as necessary. 2015 Assessment: No changes reported. Projected roof membrane replacement from roof report: 2022 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Glazing	0	$0	0	0	0	100	N/A
			$0	*$0*	*$0*	*$0*	
							2014 - 2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 10
Building: Pole Barn
Area: 1,800sf **Yr Built: 1998** **Floors: 1**

Use Types:
100% Storage

Notes:

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Cladding	20	$34,272	0	0	10	90	metal siding, No reported problems
			$0	*$0*	*$3,427*	*$30,845*	
							2007 assessment:No changes. No reported problems.
							2009-2015 Assessment: No changes reported. No reported problems.
							2016 Assessment: No changes reported. No reported problems.
							2018 Assessment: No changes reported. No reported problems. Metal panel cladding.
							2019, 2021 Assessment: No changes reported. No reported problems.
HVAC	5	$8,568	0	0	0	100	has gas hookup for future addition of heater.
			$0	*$0*	*$0*	*$8,568*	
							2007 assessment:No changes. No reported problems.
							2009-2015 Assessment: No changes reported. No reported problems.
							2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Plumbing/Drainage	0	$0	0	0	0	100	N/A
			$0	*$0*	*$0*	*$0*	
							2014 - 2015 Assessment: No changes reported.
							2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 10
Building: Pole Barn
Area: 1,800sf **Yr Built: 1998** **Floors: 1**

Use Types:
100% Storage

Notes:

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Primary/Secondary	4	$6,854	0 *$0*	0 *$0*	0 *$0*	100 *$6,854*	minimal 2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Distribution	4	$6,854	0 *$0*	0 *$0*	0 *$0*	100 *$6,854*	minimal 2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Lighting	4	$6,854	0 *$0*	0 *$0*	10 *$685*	90 *$6,169*	minimal, No reported problems 2007 assessment:No changes. No reported problems. 2009-2014 assessment: no changes reported. No reported problems. 2015 assessment: Lighting upgraded. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Voice/Data	0	$0	0 *$0*	0 *$0*	0 *$0*	100 *$0*	N/A 2014 - 2015 Assessment: No changes reported. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Ceilings	0	$0	0 *$0*	0 *$0*	0 *$0*	100 *$0*	N/A 2014 - 2015 Assessment: No changes reported. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Walls/Casework	0	$0	0	0	0	100	N/A
			$0	*$0*	*$0*	*$0*	
							2014 - 2015 Assessment: No changes reported. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Doors	10	$17,136	0	0	20	80	4 overhead doors, 1 man door, No reported problems
			$0	*$0*	*$3,427*	*$13,709*	
							2007 assessment:No changes. No reported problems. 2009-2012 assessment:No changes reported. No reported problems. 2013 Assessment: New weather seals installed at existing overhead doors. 2014 - 2015 assessment: exterior man door replaced. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Floors	4	$6,854	0	0	0	100	Concrete floor
			$0	*$0*	*$0*	*$6,854*	
							2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Bldg., Fire, ADA, Elevators	2	$3,427	0	0	0	100	No reported problems
			$0	*$0*	*$0*	*$3,427*	
							2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Immed. Site, Ext. Ltg., etc	2	$3,427	0	0	0	100	No reported problems
			$0	*$0*	*$0*	*$3,427*	
							2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

CRV Totals:	100	$171,360	*$0*	*$12,852*	*$7,540*	*$150,968*	$171,360

Priority Issues Data					0-5 Year Cumulative Data				
$171,360	$0	$0	0.0%	GOOD	$12,852	$0	7.5%	$3,427	FAIR
CRV	DMB	EXCESS	FCI	RATING	DMB	EXCESS	FCI	$/YR MAINTAIN	RATING

Campus: Main
Bldg. No: 11
Building: Power Plant
Area: 3,840sf **Yr Built: 1966** **Floors: 1**

Use Types:
100% Power House

Notes: 2005- Proposed renovations in 2006-2007 may require some heating system equipment and/or operation changes.
2005-Water tower due for draining/inspecting and repaint

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Structure	15	$371,684	0	5	5	90	Concrete - no reported problems
			$0	*$18,584*	*$18,584*	*$334,516*	
							2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems 2016 Assessment: No changes reported. No reported problems 2018 Assessment: Shrinkage cracks visible in floors – not due to settlement – not critical. Storage shed behind building has substantial settlement, cracks in block, near end of life. Structural steel frame, with concrete buttresses. 2021 Assessment: No changes reported. No reported problems.
Roof	3	$74,337	0	60	0	40	Replaced in 1998, No reported problems
			$0	*$44,602*	*$0*	*$29,735*	
							2007 assessment:No changes. No reported problems. 2009 Assessment:No changes reported. 2010 Assessment:No changes reported. 2011 Assessment: Roof inspected annually, no reported problems, but roof nearing end of expected life. 2012-2014 assessment: Roof inspected, repaired as necessary. 2015 assessment: Proposed roof membrane replacement in 2022, per roof report. 2016 Assessment: No changes reported. No reported problems 2018 Assessment: No changes reported. No reported problems. 1-1/2" steel deck on steel joists. Built-up roof, with insulation. 2019 Assessment: No changes reported. No reported problems 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 11
Building: Power Plant
Area: 3,840sf **Yr Built: 1966** **Floors: 1**

Use Types:
100% Power House

Notes: 2005- Proposed renovations in 2006-2007 may require some heating system equipment and/or operation changes.
2005-Water tower due for draining/inspecting and repaint

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Glazing	1	$24,779	0	0	5	95	Very few windows original. OK
			$0	*$0*	*$1,239*	*$23,540*	2007 assessment:No changes. No reported problems. 2009 Assessment: 2008-windows replaced due to forklift damage. 2010-2014 assessment:No changes reported. No reported problems. 2015, 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems
Cladding	5	$123,895	0	5	5	90	Concrete due for repainting.
			$0	*$6,195*	*$6,195*	*$111,505*	2007 assessment: Building repainted. 2009-2014 assessment:No changes reported. No reported problems. 2015 assessment: Exterior paint beginning to peel. Building is due for repaint. 2016 Assessment: No changes reported. No reported problems 2018 Assessment: No changes reported. No reported problems. Insulated metal panels. 2019, 2021 Assessment: No changes reported. No reported problems

Campus: Main
Bldg. No: 11
Building: Power Plant
Area: 3,840sf **Yr Built: 1966** **Floors: 1**

Use Types:
100% Power House

Notes: 2005- Proposed renovations in 2006-2007 may require some heating system equipment and/or operation changes.
2005-Water tower due for draining/inspecting and repaint

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
HVAC	30	$743,369	0	5	10	85	Boilers replaced 1987. 2 boilers, cycled to run every other month to prolong life.
			$0	*$37,168*	*$74,337*	*$631,863*	Additional load on system may require running both boilers at once. Main steam valves replaced in 2001. 2005-two new condensate pumps and receiver installed ($2,000) New flow meter scheduled for installation in 2006 ($7,200) 2007 assessment: Flow meter replaced. Section of steam loop replaced between Instruction West and Ash Building. Past condensate leaks caused excessive water loss from system. Replacement of steam line appears to have resolved problem. 2009 Assessment: 2009-de-aerator installed ($45,000) 2010 Assessment: Gas meter systems replaced by Consumers Energy. 2011 assessment: Boilers tested in November 2011. No reported problems. 2012 assessment: Boiler system controls upgraded as part of ECM contract. New LonWorks DDC Energy Management System installed for campus ($600,000). 2013-2014 assessment:No changes reported. 2015 assessment: Boiler valves replaced. Blowdown added. Boilers nearing 30 years old. Inspected and reported in good condition. College should start budgeting for replacement. 2016 assessment: direct buried steam and condensate lines deteriorating, undergoing replacement. College is evaluating switching from central steam to hot water boilers in each buildng.

Campus: Main
Bldg. No: 11
Building: Power Plant
Area: 3,840sf **Yr Built: 1966** **Floors: 1**

Use Types:
100% Power House

Notes: 2005- Proposed renovations in 2006-2007 may require some heating system equipment and/or operation changes.
2005-Water tower due for draining/inspecting and repaint

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
HVAC (continued)	30	$743,369	0	5	10	85	2018 Assessment:
			$0	*$37,168*	*$74,337*	*$631,863*	A central steam boiler plant is served by two (2) Cleaver Brooks steam boilers rated at 5,230 MBH natural gas input. Boilers are 1980's vintage operating to provide the school campus with 100% backup heating capacity. The steam boiler system and its accessories have been routinely maintained with water / condensate control and chemical treatment. Therefore, this plant is in fairly good condition and will continue to function for the School District to supply steam heat. Recent new improvements and equipment investments through capital expense have allowed the plant to be reliable and continued operations. We expect an additional 10 to 20 years of continuing Steam generation and distribution to campus buildings. The campus steam heating captures 100% of its building condensate at each building and their steam use to minimalize water make-up and chemicals needs at the boiler plant. We estimate the make-up water at 200 GPD based on the recorded water meter. The boiler-feed water system was replaced and upgraded in 2009 and in good condition Well water is softened with a new water softener for improved lasting equipment life. Maintenance records indicate blowdown once per week to purge solids for on-going quality control of steam. A recent steam trap replacement and maintenance program was financed with a Consumers Energy rebate program. Steam & condensate distribution pipe was replaced in 2000. The current 70 psig steam pressure provides about 340F heating BTU temperatures to the building with minimal steam pipe losses in the distribution piping system. We recommend HVAC control improvements and to be incorporated into the Campus BEMS (Building Energy Management System). Current BEMS hardware is manufactured by Snieder using Tridium software as represented by Grand Valley Automation (GVA). The current boilers are dual fuel fired with #2 oil as backup to the natural gas valve train. 2019 Assessment: Tubes redone on the boilers. No problems reported. 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 11
Building: Power Plant
Area: 3,840sf **Yr Built: 1966** **Floors: 1**

Use Types:
100% Power House

Notes: 2005- Proposed renovations in 2006-2007 may require some heating system equipment and/or operation changes.
2005-Water tower due for draining/inspecting and repaint

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Plumbing/Drainage	8	$198,232	0 *$0*	0 *$0*	20 *$39,646*	80 *$158,585*	2004 new electrical service to power plant lift station installed (two lift stations for campus), improved reliability. 2007-2014 Assessment: No changes reported. 2015 Assessment: New frequency drive added to well pump to improve water pressure. No reported problems 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Primary/Secondary	10	$247,790	0 *$0*	5 *$12,389*	15 *$37,168*	80 *$198,232*	OK. Some original 2007 assessment:No changes. No reported problems. 2009 Assessment:No changes reported. 2010 assessment: Campus primary service conductors upgraded to 8360V by Consumers Energy to provide additional capacity. 2011-2015 Assessment: No changes reported. No reported problems. 2016, 2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 11
Building: Power Plant
Area: 3,840sf **Yr Built: 1966** **Floors: 1**

Use Types:
100% Power House

Notes: 2005- Proposed renovations in 2006-2007 may require some heating system equipment and/or operation changes.
2005-Water tower due for draining/inspecting and repaint

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Primary/Secondary	10	$247,790	0	5	15	80	2018 Assessment:
(continued)			*$0*	*$12,389*	*$37,168*	*$198,232*	Exterior north side of building has the main primary utility switch and switchgear. Based on the primary voltage of the transformers on campus, the primary system is operating at 8320V. The main primary utility switch appears to feed directly into the power plant building and also to a nearby MCC-owned pad-mounted switch, an S&C Electric PMH-9. It is presumed that this PMH-9 feeds the Maintenance Building and North Instructional Building, while the primary loops through and feeds south to the rest of the campus. The Power Plant itself contains a primary unit substation with a single main switch, Square D HVL, 15kV, 600A. The unit substation contains two transformers: one 225kVA with a 480/277V, three-phase secondary and the other 15kVA with a 240/120V, single-phase secondary. The final section of the substation consists of an I-line style distribution panel. Replacement parts for the unit substation are still readily available. Recommend a scheduled outage for cycling of all switches, tightening of all connections, and cleaning throughout. The boiler room is lacking Emergency Power Off buttons, which are now required by code. Recommend adding these for safety. The existing fire alarm system within the building is antiquated and no longer compliant with current life safety code. Recommend replacement. There are various vintages of energy monitoring spread throughout campus. Recommend that this equipment be re-instated and some regular monitoring/reporting of power usage is established as a useful tool in future energy savings projects to reduce the power bill for the campus. 2019 Assessment: No changes reported. No reported problems 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 11
Building: Power Plant
Area: 3,840sf **Yr Built: 1966** **Floors: 1**

Use Types:
100% Power House

Notes: 2005- Proposed renovations in 2006-2007 may require some heating system equipment and/or operation changes.
2005-Water tower due for draining/inspecting and repaint

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Distribution	5	$123,895	0	5	10	85	No reported problems
			$0	*$6,195*	*$12,389*	*$105,311*	
							2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems 2016 Assessment: No changes reported. No reported problems 2018 Assessment: The configuration of the existing primary power distribution system can only be surmised based on the initial walk-through. Additional research is need to fully understand the system and how it might be expanded in the future if the need arises. A one-line diagram of this system likely exists somewhere from when first constructed or when buildings were added, though such a drawing is not known. 2019, 2021 Assessment: No changes reported. No reported problems
Lighting	5	$123,895	0	10	10	80	No reported problems
			$0	*$12,389*	*$12,389*	*$99,116*	
							2007, 2009, 2010 Assessment: No changes. No reported problems. 2011 assessment: Lighting replaced with high-bay fluorescent fixtures. 2013-2016 Assessment: No changes reported. No reported problems 2018 Assessment: Emergency egress lighting and exit signs appear to be absent from the building entirely. Recommend adding both for safety reasons. Lighting is T8 fluorescent, low priority to switch to LED based on lower use/occupancy of this building compared to instructional buildings. MCC has replaced much of the original site lighting locations with LED in recent years. Many areas of the campus remain darker than recommended and future site work should consider additional pole locations to increase the feeling of safety and security for all. The existing site lighting is controlled via a master photocell with contactors placed around campus to perform the switching. 2019, 2021 Assessment: No changes reported. No reported problems

Campus: Main
Bldg. No: 11
Building: Power Plant
Area: 3,840sf **Yr Built: 1966** **Floors: 1**

Use Types:
100% Power House

Notes: 2005- Proposed renovations in 2006-2007 may require some heating system equipment and/or operation changes.
2005-Water tower due for draining/inspecting and repaint

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Voice/Data	2	$49,558	0 *$0*	0 *$0*	5 *$2,478*	95 *$47,080*	Only for energy management system - No reported problems 2007 assessment:No changes. No reported problems. 2009-2021 Assessment: No changes reported. No reported problems
Ceilings	2	$49,558	0 *$0*	5 *$2,478*	5 *$2,478*	90 *$44,602*	Break room only, balance open to deck 2007 assessment:No changes. No reported problems. 2009-2021 Assessment: No changes reported. No reported problems
Walls/Casework	3	$74,337	0 *$0*	5 *$3,717*	5 *$3,717*	90 *$66,903*	No reported problems 2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. 2018 Assessment: No changes reported. No reported problems. Concrete block parition walls. 2019, 2021 Assessment: No changes reported. No reported problems
Doors	3	$74,337	5 *$3,717*	5 *$3,717*	10 *$7,434*	80 *$59,469*	Man doors deteriorated, due for replacement. 2007 assessment:No changes. 2009-2021 Assessment: No changes reported. No reported problems 2016 Assessment: No changes reported. No reported problems 2018 Assessment: Rusting on exterior doors - Need replacement. 2019, 2021 Assessment: No changes reported. No reported problems

Floors	3	$74,337	0	10	10	80	No reported problems
			$0	*$7,434*	*$7,434*	*$59,469*	
							2007 assessment:No changes. No reported problems.
							2009-2016 Assessment: No changes reported. No reported problems
							2018 Assessment: Concrete slab-on-grade. Vinyl tile in office and bathroom.
							2019, 2021 Assessment: No changes reported. No reported problems
Bldg., Fire, ADA, Elevators	2	$49,558	5	5	10	80	No fire alarm.
			$2,478	*$2,478*	*$4,956*	*$39,646*	
							2007 - 2021 Assessment:No changes. No reported problems.
Immed. Site, Ext. Ltg., etc	3	$74,337	0	5	10	85	Site OK
			$0	*$3,717*	*$7,434*	*$63,186*	
							2007 - 2021 assessment:No changes. No reported problems.
CRV Totals:	100	$2,477,895	*$6,195*	*$161,063*	*$237,878*	*$2,072,759*	$2,477,895

Priority Issues Data					0-5 Year Cumulative Data				
$2,477,895	$6,195	$0	0.3%	GOOD	$167,258	$43,363	6.8%	$49,558	FAIR
CRV	DMB	EXCESS	FCI	RATING	DMB	EXCESS	FCI	$/YR MAINTAIN	RATING

Campus: Main
Bldg. No: 12
Building: Ash Building
Area: 28,800sf **Yr Built: 2007** **Floors: 2**

Use Types:
40 % Lab
25 % Classroom
25 % Admin
10 % Audit

Notes: Connected to Instruction East

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Structure	16	$1,398,751	0	5	5	90	Steel structure.
			$0	*$69,938*	*$69,938*	*$1,258,876*	Slab on grade, partially below grade on 2 sides of lower level.
							2007-New construction, under warranty
							2009-2015 Assessment: No changes reported. No reported problems
							2016 Assessment: No changes reported. No reported problems
							2018 Assessment: Signs of moisture migration to interior at grade level. Possible issue with flashing at grade level. Signs of water leakage in server room at conduit entry points.
							2019 Assessment: No changes reported. No reported problems
							2021 Assessment: No changes reported. No reported problems.
Roof	4	$349,688	0	5	5	90	White EPDM, fully adhered (Carlisle)
			$0	*$17,484*	*$17,484*	*$314,719*	
							2007-New construction, under warranty
							2009 Assessment:No changes reported.
							2010 Assessment: Minor roof leaks repaired under warranty.
							2011 assessment:No changes reported. Roof inspected annually, no reported problems.
							2012-2014 assessment:No changes reported.
							2015 assessment: Roof report indicated no issues.
							2016 Assessment: No changes reported. No reported problems
							2018 Assessment: No changes reported. No reported problems. Roof replacement scheduled in 2035.
							2019 Assessment: No changes reported. No reported problems
							2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 12
Building: Ash Building
Area: 28,800sf **Yr Built: 2007** **Floors: 2**

Use Types:
40 % Lab
25 % Classroom
25 % Admin
10 % Audit

Notes: Connected to Instruction East

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Glazing	5	$437,110	0	0	0	100	Aluminum frame storefront system typical. Minimal curtain wall.
			$0	*$0*	*$0*	*$437,110*	
							2007-New construction, under warranty
							2009-2021 Assessment: No changes reported. No reported problems
Cladding	6	$524,532	0	0	0	100	Brick on block backup metal siding on block backup
			$0	*$0*	*$0*	*$524,532*	
							2007-New construction, under warranty
							2009-2021 Assessment: No changes reported. No reported problems
HVAC	25	$2,185,549	0	5	5	90	Building on central steam loop. Heat exchanger provides HW for perimeter heating.
			$0	*$109,277*	*$109,277*	*$1,966,994*	(1) interior AHU with steam coil and chilled water coil. New air cooled Trane chiller connected to existing chiller for Instruction East Building to provide cooling to both buildings.
							Heat provided by single steam coil in AHU. Perimeter heat provided by HW radiant panels. Distribution provided through VAV boxes (no reheat coils).
							DDC controls connected to existing DDC system in Instruction East Building. 2007-New construction, under warranty
							2009 Assessment: 2009-Chillers still being balanced for proper operation (cool summer complicated adjustments)
							2010 Assessment: Heat recovery wheel not turning when inspected by facilities department. May be turned off by safety interlock system. Issue being investigated by college. Chillers balanced. Dedicated ventilation system added for spectrometer in lab. Gas meter systems replaced by Consumers Energy.
							2011 assessment: Heat recovery wheel repaired. No reported problems.
							2012 assessment: Actuator controls replaced with LonWorks DDC as part of energy management system under ECM contract.
							2013-2015 Assessment: No changes reported. No reported problems
							2016 Assessment: No changes reported. No reported problems

2018 Assessment: The HVAC system is a combination of central AHU/ERU and appear relatively new and in good condtion.
Chilled water is supplied by an outdoor air-cooled chiller using 25% ethylene glycol.
The current outdoor chiller is in good condition and will continue to provide 10 to 20 years.
The building is fully DDC controlled with the standard campus BEMS system.
Steam and condensate services both enter in to the building and converted to hot water heating.
The present classroom unit ventilators do no perform well in providing comfort & noise control.
Recommend horizontal units to be replaced with improved floor mounted vertical type to provide the proper ventilation and reused the existing air distribution & control systems.

2019 Assessment: No changes reported. No reported problems

2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 12
Building: Ash Building
Area: 28,800sf **Yr Built: 2007** **Floors: 2**

Use Types:
40 % Lab
25 % Classroom
25 % Admin
10 % Audit

Notes: Connected to Instruction East

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Plumbing/Drainage	5	$437,110	0 *$0*	0 *$0*	0 *$0*	100 *$437,110*	Under slab drainage system (due to high water table) Acid waste system (plastic piping) from chemistry lab to acid dilution tank in janitor's closet. Waterless urinals in 2 men's toilet rooms. 2007-New construction, under warranty 2009-2015 Assessment: No changes reported. No reported problems 2016 Assessment: No changes reported. No reported problems 2018 Assessment: The Ash Building is a 2-story classroom building fully sprinkled. 2019, 2021 Assessment: No changes reported. No reported problems
Primary/Secondary	8	$699,376	0 *$0*	0 *$0*	0 *$0*	100 *$699,376*	Primary power provided from Instruction East Building. Main service to campus upgraded due to new construction. Small transformers in each electrical closet. 2007-New construction, under warranty 2009 Assessment:No changes reported. 2010 assessment: Campus primary service upgraded by Consumers Energy to provide additional capacity. 2011-2015 Assessment: No changes reported. No reported problems 2016 Assessment: No changes reported. No reported problems 2018 Assessment: Power to this building is served by the unit substation in the Smith Instructional building via an add-on switch. Panels in the Ash building are Square D NF and NQOD and all appear to be in good condition. 2019, 2021 Assessment: No changes reported. No reported problems

Campus: Main
Bldg. No: 12
Building: Ash Building
Area: 28,800sf **Yr Built: 2007** **Floors: 2**

Use Types:
40 % Lab
25 % Classroom
25 % Admin
10 % Audit

Notes: Connected to Instruction East

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Distribution	5	$437,110	0	0	0	100	2007-New construction, under warranty
			$0	*$0*	*$0*	*$437,110*	
							2009-2021 Assessment: No changes reported. No reported problems
Lighting	5	$437,110	0	10	5	85	All fluorescent. Linear direct/indirect pendant fixtures in classrooms and labs.
			$0	*$43,711*	*$21,855*	*$371,543*	Recessed 1x4 typical in corridors, minimal recessed cans and specialty fixtures.
							Recessed 2x4 in offices.
							2007-New construction, under warranty
							2009-2015 Assessment: No changes reported. No reported problems
							2016 Assessment: No changes reported. No reported problems
							2018 Assessment: Exterior canopy lighting regularly fills with insects. Recommend replacement with new, sealed LED modules. Exterior wall packs are compact fluorescent with battery packs. While previously appropriate, these are not the best solution for exterior lighting in northern climate, as it is difficult to start in cold weather with light output significantly reduced. Recommend replacement with LED wall packs. Interior lighting is primarily a mixture of T8 and compact fluorescent technology. The various compact fluorescent sources in the building can present maintenance complications. Recommend a switchover to LED as budget allows.
							2019 Assessment: No changes reported. No reported problems
							2021 Assessment: No changes reported. No reported problems.
Voice/Data	4	$349,688	0	0	0	100	2007-New construction, under warranty
			$0	*$0*	*$0*	*$349,688*	
							2009-2021 Assessment: No changes reported. No reported problems

Campus: Main
Bldg. No: 12
Building: Ash Building
Area: 28,800sf **Yr Built: 2007** **Floors: 2**

Use Types:
40 % Lab
25 % Classroom
25 % Admin
10 % Audit

Notes: Connected to Instruction East

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Ceilings	3	$262,266	0	0	10	90	2x2 lay-in ceilings typical throughout.
			$0	*$0*	*$26,227*	*$236,039*	Minimal gypsum ceilings in corridors
							2007-New construction, under warranty
							2009-2021 Assessment: No changes reported. No reported problems
Walls/Casework	3	$262,266	0	0	10	90	Painted gypsum board on metal studs typical.
			$0	*$0*	*$26,227*	*$236,039*	
							2007-New construction, under warranty
							2009 Assessment:No changes reported.
							2010 Assessment:No changes reported.
							2011 assessment: Main corridor repainted where damaged and scuffed by students.
							2012-2021 Assessment: No changes reported. No reported problems

Campus: Main
Bldg. No: 12
Building: Ash Building
Area: 28,800sf **Yr Built: 2007** **Floors: 2**

Use Types:
40 % Lab
25 % Classroom
25 % Admin
10 % Audit

Notes: Connected to Instruction East

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Doors	2	$174,844	0 *$0*	0 *$0*	10 *$17,484*	90 *$157,360*	Exterior: Aluminum frame full-lite doors. (1) Hollow metal door. Interior: Solid score wood typical. (1) sliding aluminum frame full-lite door system in computer lab. (5) aluminum frame full-lite doors. (2) hollow metal doors at stairwells. 2007-New construction, under warranty 2009-2021 Assessment: No changes reported. No reported problems
Floors	3	$262,266	0 *$0*	0 *$0*	10 *$26,227*	90 *$236,039*	Porcelain tile - corridors. Sheet vinyl - chemistry lab. Carpet tile - offices, classrooms. VCT - nursing lab, biology lab. 2007-New construction, under warranty 2009 Assessment: 2009-Grout in lower level east corridor cracked, repaired twice. Cause under investigation. 2010 Assessment: Floor crack issue appears to have resolved. 2011-2021 Assessment: No changes reported. No reported problems
Bldg., Fire, ADA, Elevators	3	$262,266	0 *$0*	0 *$0*	10 *$26,227*	90 *$236,039*	Hydraulic passenger elevator. Fully sprinklered. New, ADA compliant fire alarm, exit signage and emergency lighting. 2007-New construction, under warranty 2009-2021 Assessment: No changes reported. No reported problems
Immed. Site, Ext. Ltg., etc	3	$262,266	0 *$0*	0 *$0*	10 *$26,227*	90 *$236,039*	(6) pole mounted site lights at west sidewalk only. Building mounted recessed exterior lighting. New sidewalks poured as part of construction. 2007-New construction, under warranty 2009-2021 Assessment: No changes reported. No reported problems

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
CRV Totals:	100	$8,742,195	*$0*	*$240,410*	*$367,172*	*$8,134,612*	$8,742,195

Priority Issues Data					0-5 Year Cumulative Data				
$8,742,195	$0	$0	0.0%	GOOD	$240,410	$0	2.8%	$174,844	GOOD
CRV	DMB	EXCESS	FCI	RATING	DMB	EXCESS	FCI	$/YR MAINTAIN	RATING

Campus: Main
Bldg. No: 13
Building: Maintenance Building
Area: 8,000sf **Yr Built: 2007** **Floors: 1**

Use Types:
100% Storage

Notes: Pole barn building with 3 offices.
2016-Replacement value corrected to match construction type.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Structure	15	$67,725	0	0	0	100	Typical pole-barn type construction.
			$0	*$0*	*$0*	*$67,725*	Load-bearing wood frame structure, prefabricated roof trusses. 6" concrete floor slab. 2007-New construction, under warranty 2009-2021 Assessment: No changes reported. No reported problems
Roof	10	$45,150	0	0	80	20	Asphalt shingles.
			$0	*$0*	*$36,120*	*$9,030*	2007-New construction, under warranty 2009 Assessment:No changes reported. 2010 Assessment:No changes reported. 2011 assessment:No changes reported. Roof inspected annually, no reported problems. 2012-2015 assessment: No changes reported. No reported problems. 2016 Assessment: No changes reported. No reported problems. Projected shingle replacement, per roof report: 2030 2018 Assessment: Roof replacement scheduled for 2025. 2019 Assessment: No changes reported. No reported problems. 2021 Assessment: No changes reported. No reported problems.

Campus: Main
Bldg. No: 13
Building: Maintenance Building
Area: 8,000sf **Yr Built: 2007** **Floors: 1**

Use Types:
100% Storage

Notes: Pole barn building with 3 offices.
2016-Replacement value corrected to match consruction type.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Glazing	2	$9,030	0	0	0	100	Minimal windows - (7) vinyl clad sliders in office areas.
			$0	*$0*	*$0*	*$9,030*	
							2007-New construction, under warranty
							2009-2021 Assessment: No changes reported. No reported problems
Cladding	15	$67,725	0	0	0	100	prepainted metal siding with blown-in cellulose insulation
			$0	*$0*	*$0*	*$67,725*	
							2007-New construction, under warranty
							2009-2021 Assessment: No changes reported. No reported problems
HVAC	15	$67,725	0	0	0	100	(3) stand alone electric in-wall heaters/AC units in offices.
			$0	*$0*	*$0*	*$67,725*	Gas-fired radiant heaters in shop area.
							2007-New construction, under warranty
							2009 Assessment:No changes reported.
							2010 Assessment: Gas meter systems replaced by Consumers Energy.
							2011 assessment:No changes reported. No reported problems.
							2012 assessment: Energy Management System upgraded as part of ECM contract.
							2013-2018 Assessment: No changes reported. No reported problems
							2019 Assessment: Replace two heaters. No reported problems.
							2021 Assessment: No changes reported. No reported problems.
Plumbing/Drainage	5	$22,575	0	0	0	100	Minimal plumbing - 1 toilet room, work sink, hose bibbs.
			$0	*$0*	*$0*	*$22,575*	Linear floor drain with oil separator in shop area.
							2007-New construction, under warranty
							2009-2021 Assessment: No changes reported. No reported problems

Campus: Main
Bldg. No: 13
Building: Maintenance Building
Area: 8,000sf **Yr Built: 2007** **Floors: 1**

Use Types:
100% Storage

Notes: Pole barn building with 3 offices.
2016-Replacement value corrected to match consruction type.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Primary/Secondary	5	$22,575	0 *$0*	0 *$0*	0 *$0*	100 *$22,575*	2007-New construction, under warranty 2009 Assessment:No changes reported. 2010 assessment: Campus primary service upgraded by Consumers Energy to provide additional capacity. 2011-2021 Assessment: No changes reported. No reported problems
Distribution	4	$18,060	0 *$0*	0 *$0*	0 *$0*	100 *$18,060*	2007-New construction, under warranty 2009-2021 Assessment: No changes reported. No reported problems
Lighting	4	$18,060	0 *$0*	0 *$0*	0 *$0*	100 *$18,060*	Fluorescent ceiling mounted fixtures typical. Recessed fluorescent in offices. 2007-New construction, under warranty 2009-2011 assessment:No changes reported. No reported problems. 2012 assessment: Lighting upgraded as part of ECM contract. 2013-2021 Assessment: No changes reported. No reported problems
Voice/Data	3	$13,545	0 *$0*	0 *$0*	0 *$0*	100 *$13,545*	Minimal 2007-New construction, under warranty 2009-2021 Assessment: No changes reported. No reported problems
Ceilings	4	$18,060	0 *$0*	0 *$0*	0 *$0*	100 *$18,060*	Prepainted metal ceiling in shop area. Lay-in ceiling in office areas. 2007-New construction, under warranty 2009-2021 Assessment: No changes reported. No reported problems

Campus: Main
Bldg. No: 13
Building: Maintenance Building
Area: 8,000sf **Yr Built: 2007** **Floors: 1**

Use Types:
100% Storage

Notes: Pole barn building with 3 offices.
2016-Replacement value corrected to match consruction type.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Walls/Casework	5	$22,575	0	0	0	100	Painted gypsum board walls between offices and shop areas.
			$0	*$0*	*$0*	*$22,575*	
							2007-New construction, under warranty
							2009-2021 Assessment: No changes reported. No reported problems
Doors	4	$18,060	0	0	0	100	(1) overhead door in shop area.
			$0	*$0*	*$0*	*$18,060*	(1) Hollow metal exterior door.
							Hollow metal interior doors with lites.
							2007-New construction, under warranty
							2009-2021 Assessment: No changes reported. No reported problems
Floors	4	$18,060	0	0	0	100	Concrete floor in shop area.
			$0	*$0*	*$0*	*$18,060*	Carpet in offices.
							2007-New construction, under warranty
							2009-2021 Assessment: No changes reported. No reported problems

Campus: Main
Bldg. No: 13
Building: Maintenance Building
Area: 8,000sf **Yr Built: 2007** **Floors: 1**

Use Types:
100% Storage

Notes: Pole barn building with 3 offices.
2016-Replacement value corrected to match consruction type.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Bldg., Fire, ADA, Elevators	2	$9,030	0	0	0	100	No fire alarm system.
			$0	*$0*	*$0*	*$9,030*	No sprinkler system.
							2007-New construction, under warranty
							2009-2021 Assessment: No changes reported. No reported problems
Immed. Site, Ext. Ltg., etc	3	$13,545	0	0	0	100	Exterior lighting: wall packs
			$0	*$0*	*$0*	*$13,545*	Exterior paving: asphalt drive and parking.
							2007-New construction, under warranty
							2009-2021 Assessment: No changes reported. No reported problems
CRV Totals:	100	$451,500	*$0*	*$0*	*$36,120*	*$415,380*	

Priority Issues Data

$451,500	$0	$0	0.0%	GOOD
CRV	DMB	EXCESS	FCI	RATING

0-5 Year Cumulative Data

$0	$0	0.0%	$9,030	GOOD
DMB	EXCESS	FCI	$/YR MAINTAIN	RATING

Campus: Greenville
Bldg. No: 14
Building: Ash Technology and Learning Center
Area: 19,495sf **Yr Built: 2001** **Floors: 1**

Use Types:
10 % Auditorium
50 % Technology Lab
30 % Classroom
10 % Admin

Notes:

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Structure	16	$970,922	0	2	5	93	Some CMU walls showing cracking - 2003
			$0	*$19,418*	*$48,546*	*$902,958*	2007 assessment: Cracking continuing at door frames - especially in center corridor.
							2009-2015 Assessment: No changes reported. No reported problems
							2016 assessment: minor grout cracking from settlement continues
							2018 Assessment: Building in good structural condition, no deficiencies noted.
							2019 Assessment: Building in good structural condition, no deficiencies noted.
							2021 Assessment: No changes reported. No reported problems.
Roof	5	$303,413	0	10	60	30	Fully adhered EPDM roof.
			$0	*$30,341*	*$182,048*	*$91,024*	2007 assessment:No changes. No reported problems.
							2010 Assessment:No changes reported.
							2011 assessment:No changes reported.
							2012 assessment:No changes reported.
							2013 assessment: Minor leaks at equipment curbs - repaired.
							2014 assessment: Roof inspected, multiple flashing, membrane tears and punctures repaired as necessary. Projected roof membrane replacement, per roof report: 2022
							2016 Assessment: No changes reported. No reported problems
							2018 Assessment: No changes reported. No reported problems.
							2019 Assessment: No changes reported. No reported problems.
							2021 Asdsessment: No changes reported. No reported problems.

Campus: Greenville
Bldg. No: 14
Building: Ash Technology and Learning Center
Area: 19,495sf **Yr Built: 2001** **Floors: 1**

Use Types:
10 % Auditorium
50 % Technology Lab
30 % Classroom
10 % Admin

Notes:

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Glazing	5	$303,413	0	0	5	95	2004-Window at rear of building not recaulked after block wall repair.
			$0	*$0*	*$15,171*	*$288,243*	
							2004-Some caulk deterioration at sills, needs replacement.
							2005-Sills have negative slope. Caulk deterioration continuing, allowing water into wall cavity.
							2007 assessment: No changes.
							2009 Assessment: window sills recaulked as required to control water infiltration
							2010-2021 Assessment: No changes reported. No reported problems
Cladding	5	$303,413	0	3	5	92	See structural notes for CMU info.
			$0	*$9,102*	*$15,171*	*$279,140*	Some sealant joints delaminating.
							Masonry due for resealing in 2006 - verify with specifications.
							Water infiltration at sills causing efflorescence of block.
							2007 assessment:No changes. Masonry not resealed.
							2009 Assessment:No changes reported.
							2010 Assessment:
							Masonry due for resealing.
							2011 assessment:
							Masonry scheduled for resealing in 2012.
							2012 assessment:
							Exterior masonry washed and resealed.
							2013-2021 Assessment: No changes reported. No reported problems

Campus: Greenville
Bldg. No: 14
Building: Ash Technology and Learning Center
Area: 19,495sf **Yr Built: 2001** **Floors: 1**

Use Types:
10 % Auditorium
50 % Technology Lab
30 % Classroom
10 % Admin

Notes:

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
HVAC	24	$1,456,384	0	5	10	85	(2) HW boilers.
			$0	*$72,819*	*$145,638*	*$1,237,926*	Rooftop AHUs loud in corridors

2007 assessment:
One boiler retubed due to excessive corrosion. Second boiler-no reported problems.
DDC controls - one panel board does not restart properly after power failures.
Uninterruptable power supply added to prevent loss of power.

2009 Assessment: DDC panel board replaced.

2010 Assessment: Gas meter systems replaced by Consumers Energy.

2011 assessment:No changes reported. No reported problems.

2012 assessment: HVAC noise reduced through installation of noise isolation.
New actuators on control valves and dampers installed as part of ECM contract.

2013 assessment: Compressor on RTU #4 (over conference room) replaced.
Entire HVAC system now on college-wide building automation system.

2014 assessment:No changes reported. No reported problems.

2015 assessment: Compressor on RTU #3 replaced.

2016 Assessment: No changes reported. No reported problems.
Typical maintenance only.

2018 Assessment:
The HVAC system consist of packaged gas-fired heating with DX cooling RTUs which appear relatively new and in good condition.
Central hot water heating boiler and pumps provide zone control via 2-way valves.
The building is fully DDC controlled with the standard campus BEMS system.
The domestic hot water boiler is in good condition.
Classroom's ceiling air distribution provide food comfort, ventilation & noise control.

2019 Assessment: No changes reported. No reported problems.

2021 Assessment: Replaced a rooftop unit. No other changes reported. No reported proble

Campus: Greenville
Bldg. No: 14
Building: Ash Technology and Learning Center
Area: 19,495sf **Yr Built: 2001** **Floors: 1**

Use Types:
10 % Auditorium
50 % Technology Lab
30 % Classroom
10 % Admin

Notes:

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Plumbing/Drainage	5	$303,413	0 *$0*	0 *$0*	0 *$0*	100 *$303,413*	Irrigation system pump has frozen in past winters. Year-end draining program implemented to resolve problem. Shut-off valve to catering kitchen dishwasher leaks, currently turned off. 2007 assessment:No changes. No reported problems. 2009-2015 Assessment: No changes reported. No reported problems 2016 Assessment: No changes reported. No reported problems 2018 Assessment: The MTEC Building is a 2-story classroom building fully sprinkled. 2019, 2021 Assessment: No changes reported. No reported problems.
Primary/Secondary	8	$485,461	0 *$0*	0 *$0*	0 *$0*	100 *$485,461*	2007 assessment: No reported problems. 2009-2015 Assessment: No changes reported. No reported problems 2016 Assessment: No changes reported. No reported problems 2018 Assessment: Power to the building is delivered via a utility-owned pad-mounted transformer on the west side. This delivers 208/120V, three-phase power to a 1200A main distribution panel utilizing the “six disconnect rule” and therefore containing no single main service disconnect. The main panel is a Cutler-Hammer PRL4, which is still available and maintainable. The fire alarm system is a Simplex 4010 with no issues found. 2019, 2021 Assessment: No changes reported. No reported problems.
Distribution	5	$303,413	0 *$0*	0 *$0*	0 *$0*	100 *$303,413*	2007 assessment: No reported problems. 2009-2015 Assessment: No changes reported. No reported problems 2016 Assessment: No changes reported. No reported problems 2018 Assessment: Panelboards throughout are Eaton/Cutler-Hammer and appear to be in good condition.

2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Greenville
Bldg. No: 14
Building: Ash Technology and Learning Center
Area: 19,495sf **Yr Built: 2001** **Floors: 1**

Use Types:
10 % Auditorium
50 % Technology Lab
30 % Classroom
10 % Admin

Notes:

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Lighting	5	$303,413	0 *$0*	10 *$30,341*	10 *$30,341*	80 *$242,731*	2007 assessment: Ballasts prone to excessive failure replaced, problem resolved. 2009-2016 Assessment: No changes reported. No reported problems 2018 Assessment: Lighting throughout the building is primarily T8 fluorescent, with classrooms containing direct/indirect fixtures on a multi-level switching scheme. Some exit signs were noted as no longer being illuminated. These are likely past their life and should be fixed or replaced. 2019, 2021 Assessment: No changes reported. No reported problems.
Voice/Data	5	$303,413	0 *$0*	0 *$0*	0 *$0*	100 *$303,413*	2007 assessment: No reported problems. 2009-2021 Assessment: No changes reported. No reported problems
Ceilings	3	$182,048	0 *$0*	0 *$0*	0 *$0*	100 *$182,048*	Some stained ceiling tiles in corridor outside M112, likely roof related, but no known recent leaks. 2007 assessment: Damaged ceiling tiles replaced. No reported problems. 2009-2021 Assessment: No changes reported. No reported problems
Walls/Casework	4	$242,731	0 *$0*	0 *$0*	5 *$12,137*	95 *$230,594*	2005-water damage to cabinets in catering kitchen from dishwasher leak 2007 - 2011 assessment:No changes. 2012 assessment: Minor renovations performed to relocate interior partitions to modify classroom sizes. 2013-2021 assessment:No changes reported. No reported problems.
Doors	2	$121,365	0 *$0*	0 *$0*	0 *$0*	100 *$121,365*	2007 assessment: No reported problems. 2009-2012 assessment:No changes reported. No reported problems. 2013 assessment: All classroom door hardware be changed to lockdown type for security.

2014-2021 Assessment: No changes reported. No reported problems

Campus: Greenville
Bldg. No: 14
Building: Ash Technology and Learning Center
Area: 19,495sf **Yr Built: 2001** **Floors: 1**

Use Types:
10 % Auditorium
50 % Technology Lab
30 % Classroom
10 % Admin

Notes:

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Floors	3	$182,048	0 *$0*	0 *$0*	10 *$18,205*	90 *$163,843*	2003-concrete floor showing cracks 2004-tile at entry lobby cracking, some loose grout, cracked tile at concrete control joints (recurring problem). 2005-tile replaced and repaired as necessary. Control joints added at crack location. 2005-water damage to VCT in catering kitchen from dishwasher leak 2007 assessment:No changes. No reported problems. 2009 Assessment: Minor settlement cracking continuing, repaired as required. 2010 Assessment: No changes reported. Cracking in grout repaired as required. 2011 assessment: No changes reported. Cracking in grout repaired as required. 2012 assessment: No changes reported. Cracking in grout repaired as required. 2013 assessment: Floor slab cut and underlying issue causing floor cracking resolved. Floor fully repaired. 2014-2021 Assessment: No changes reported. No reported problems
Bldg., Fire, ADA, Elevators	2	$121,365	0 *$0*	0 *$0*	0 *$0*	100 *$121,365*	2007 assessment:No changes. No reported problems. 2009-2021 Assessment: No changes reported. No reported problems
Immed. Site, Ext. Ltg., etc	3	$182,048	0 *$0*	2 *$3,641*	2 *$3,641*	96 *$174,766*	2007 assessment:No changes. No reported problems. 2009-2013 assessment:No changes reported. No reported problems. 2014 assessment: Parking lot lighting scheduled for upgrade to LED. 2015 assessment: parking lot lighting upgraded. 2016 assessment: concrete block screenwall and dumpster enclosure due for tuckpointing.

2018, 2019, 2021 Assessment: No changes reported. No reported problems.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
CRV Totals:	100	$6,068,265	*$0*	*$165,664*	*$470,897*	*$5,431,704*	$6,068,265

Priority Issues Data					0-5 Year Cumulative Data				
$6,068,265	$0	$0	0.0%	GOOD	$165,664	$0	2.7%	$121,365	GOOD
CRV	DMB	EXCESS	FCI	RATING	DMB	EXCESS	FCI	$/YR MAINTAIN	RATING

Campus: Greenville
Bldg. No: 15
Building: Braman Center
Area: 16,585sf **Yr Built: 2012** **Floors: 1**

Use Types:
50 % Technology Lab
50 % Classroom

Notes: New construction, completed in 2013
2019 - Welding lab renovation and robotics lab renovation completed.

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Structure	18	$947,249	0	0	0	100	Steel frame structure, concrete slab-on-grade.
			$0	*$0*	*$0*	*$947,249*	
							2013 assessment - building complete, under warranty.
							2014 - 2015 Assessment: No changes reported. No reported problems
							2016 Assessment: No changes reported. No reported problems.
							2018 Assessment: Building in good structural condition, no deficiencies noted.
							2019, 2021 Assessment: No changes reported. No reported problems.
Roof	6	$315,750	0	0	0	100	White EPDM roof membrane.
			$0	*$0*	*$0*	*$315,750*	
							2013 assessment - building complete, under warranty.
							2014 - 2015 Assessment: No changes reported. No reported problems
							2016 Assessment: No changes reported. No reported problems. Projected roof membrane replacement from roof report: 2024
							2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Glazing	3	$157,875	0	0	0	100	Aluminum framed fixed windows and clerestory. Some construction issues
			$0	*$0*	*$0*	*$157,875*	reported regarding clerestory, causing water infiltration.
							2013 assessment - building complete, under warranty.
							2014 Assessment: No changes reported.
							2015 assessment: Past leaks in clerestory caused water infiltration into receiving area. Issue reported as resolved.
							2016 Assessment: No changes reported. No reported problems.
							2018 Assessment: No changes reported. No reported problems.

2019 Assessment: Modified glazing at new welding lab No reported problems

2021 Assessment: No changes reported. No reported problems.

Campus: Greenville
Bldg. No: 15
Building: Braman Center
Area: 16,585sf **Yr Built: 2012** **Floors: 1**

Use Types:
50 % Technology Lab
50 % Classroom

Notes: New construction, completed in 2013

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Cladding	15	$789,374	0	0	0	100	Brick with metal panels at areas with windows.
			$0	*$0*	*$0*	*$789,374*	2013 assessment - building complete, under warranty.
							2014 - 2015 Assessment: No changes reported. No reported problems
							2016 - 2021 Assessment: No changes reported. No reported problems.
HVAC	15	$789,374	10	10	10	70	2 condensing boilers, ground mounted DX chillers, 1 air handler for entire building.
			$78,937	*$78,937*	*$78,937*	*$552,562*	System on DDC controls and college-wide system.
							2013 assessment - building complete, under warranty.
							2014 - 2015 Assessment: No changes reported. No reported problems
							2016 assessment: exhaust system added for new welding equipment.
							2018 Assessment: The HVAC system consist of shop rooms make-up air and exhaust appear relatively new and in good condition. RTUs provide the necessary HVAC using hot water boiler for zone control reheats. Central hot water heating boiler and pumps provide zone control via 2-way valves and the boiler appears to be in good condition. The building is fully DDC controlled with the standard campus BEMS system. The domestic hot water boiler is in good condition. The IT Data room is served by spit AC condensing units. Shop classrooms should have the ventilation verified and add controls to help meet current demands and shut-off airflow when not occupied.
							2019 Assessment: Upgrades at renovated welding lab. No reported problems.
							2021 Assessment: Plan to add rootop unitat welding lab. No other reported problems.

Campus: Greenville
Bldg. No: 15
Building: Braman Center
Area: 16,585sf **Yr Built: 2012** **Floors: 1**

Use Types:
50 % Technology Lab
50 % Classroom

Notes: New construction, completed in 2013

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Plumbing/Drainage	5	$263,125	0	0	0	100	2013 assessment - building complete, under warranty.
			$0	*$0*	*$0*	*$263,125*	
							2014 - 2015 Assessment: No changes reported. No reported problems
							2016 assessment: Compressed air system added for lab/shop use.
							2018 Assessment: The Braman building fully sprinkled.
							2019, 2021 Assessment: No changes reported. No reported problems.
Primary/Secondary	5	$263,125	0	0	0	100	208 3-phase service
			$0	*$0*	*$0*	*$263,125*	
							2013 assessment - building complete, under warranty.
							2014 - 2015 Assessment: No changes reported. No reported problems
							2016 Assessment: No changes reported. No reported problems.
							2018 Assessment: Power to the building is delivered via a utility-owned pad-mounted transformer on the southwest side. This delivers 208/120V, three-phase power to a 800A main distribution panel with 800A main breaker. The main panel is Square D I-line, which is still available and maintainable. Power delivery to the building is a mixture of branch panelboards and overhead bus, depending on the use of the room. Future planning should include a careful look at each room to ensure that the power is as flexible as possible for the anticipated use. The fire alarm consists of a Notifier system, no issues noted.
							2019 Assessment: Transformers and panelboards relocated as part of the renovation proje
							2021 Assessment: No changes reported. No reported problems.

Campus: Greenville
Bldg. No: 15
Building: Braman Center
Area: 16,585sf **Yr Built: 2012** **Floors: 1**

Use Types:
50 % Technology Lab
50 % Classroom

Notes: New construction, completed in 2013

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Distribution	4	$210,500	0	0	0	100	2013 assessment - building complete, under warranty.
			$0	*$0*	*$0*	*$210,500*	
							2014 Assessment: No changes reported.
							2015 assessment: Step-up transformer added to power new CNC equipment. Distribution panel, disconnects and bus ducts added. Total cost approx. $60,000.
							2016 Assessment: No changes reported. No reported problems.
							2018 Assessment: No changes reported. No reported problems.
							2019 Assessment: Distribution panels revised in welding lab renovation. No reported problems.
							2021 Assessment: No changes reported. No reported problems.
Lighting	4	$210,500	0	0	10	90	Predominantly fluorescent fixtures throughout.
			$0	*$0*	*$21,050*	*$189,450*	
							2013 assessment - building complete, under warranty.
							2014 - 2015 Assessment: No changes reported. No reported problems
							2016 Assessment: No changes reported. No reported problems.
							2018 Assessment: Lighting is a mix of T8 and compact fluorescent. The compact fluorescent in particular should be considered for replacement due to stocking issues and general inefficiency as compared to current LED technology.
							2019 Assessment: Lighting changes in welding lab and robotics lab renovation
							2021 Assessment: No changes reported. No reported problems.

Campus: Greenville
Bldg. No: 15
Building: Braman Center
Area: 16,585sf **Yr Built: 2012** **Floors: 1**

Use Types:
50 % Technology Lab
50 % Classroom

Notes: New construction, completed in 2013

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Voice/Data	3	$157,875	0	0	0	100	2013 assessment - building complete, under warranty.
			$0	*$0*	*$0*	*$157,875*	2014 - 2021 Assessment: No changes reported. No reported problems
Ceilings	4	$210,500	0	0	0	100	Combination of lay-in and open to deck in corridors & some labs, gypsum in toilet rooms.
			$0	*$0*	*$0*	*$210,500*	2013 assessment - building complete, under warranty. 2014 - 2015 Assessment: No changes reported. No reported problems 2018 Assessment: 2019 Assessment: Ceiling removed in robotics lab. 2021 Assessment: No changes reported. No reported problems.
Walls/Casework	5	$263,125	0	0	0	100	Painted drywall typical, with tile wainscots. Tile in toilet rooms.
			$0	*$0*	*$0*	*$263,125*	2013 assessment - building complete, under warranty. 2014 - 2021 Assessment: No changes reported. No reported problems
Doors	4	$210,500	0	0	0	100	Exterior doors - aluminum full-lite doors at entries, painted hollow metal at service entries.
			$0	*$0*	*$0*	*$210,500*	Interior doors - hollow metal. 2013 assessment - building complete, under warranty. 2014 - 2021 Assessment: No changes reported. No reported problems

Campus: Greenville
Bldg. No: 15
Building: Braman Center
Area: 16,585sf **Yr Built: 2012** **Floors: 1**

Use Types:
50 % Technology Lab
50 % Classroom

Notes: New construction, completed in 2013

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
Floors	4	$210,500	0	0	10	90	Corridors - porcelain tile; classrooms - carpet; labs - concrete; toilet rooms-porcelain tile.
			$0	*$0*	*$21,050*	*$189,450*	Mix of carpet, sheet goods and concrete. 2013 assessment - building complete, under warranty. 2014 Assessment: No changes reported. 2015 assessment: carpet removed as needed for repurposing rooms for industrial equipment. 2016 assessment: carpet being damaged from change in builduing use - worn, stained from industrial equipment, dirt, grease. 2018 Assessment: No changes reported. No reported problems. 2019 Assessment: Floor finish changes in welding and robotics labs 2021 Assessment: No changes reported. No reported problems.
Bldg., Fire, ADA, Elevators	2	$105,250	0	0	0	100	Building is fully sprinkled.
			$0	*$0*	*$0*	*$105,250*	2013 assessment - building complete, under warranty. 2014 - 2021 Assessment: No changes reported. No reported problems
Immed. Site, Ext. Ltg., etc	3	$157,875	0	0	0	100	2013 assessment - building complete, under warranty.
			$0	*$0*	*$0*	*$157,875*	2014 - 2021 Assessment: No changes reported. No reported problems

Campus: Greenville
Bldg. No: 15
Building: Braman Center
Area: 16,585sf **Yr Built: 2012** **Floors: 1**

Use Types:
50 % Technology Lab
50 % Classroom

Notes: New construction, completed in 2013

System	CRV of System %	CRV of System $	Pct. of system value to budget for repair/replacement: Immediate	1-5 Years	6-10 Years	11+ Years	System/Component Notes
CRV Totals:	100	$5,262,495	*$78,937*	*$78,937*	*$121,037*	*$4,983,583*	$5,262,495

Priority Issues Data

CRV	DMB	EXCESS	FCI	RATING
$5,262,495	$78,937	$0	1.5%	GOOD

0-5 Year Cumulative Data

DMB	EXCESS	FCI	$/YR MAINTAIN	RATING
$157,875	$0	3.0%	$105,250	GOOD

Campus: Greenville			**Use Types:**			**Notes:**	Original construction date unknown. Built as part of old fairgrounds, now owned by MCC.
Bldg. No: 16			100% Storage				
Building: Greenville Pole Barn							
Area: 4,900sf	**Yr Built: 1970**	**Floors: 1**					

	CRV of System		Pct. of system value to budget for repair/replacement:				
System	**%**	**$**	**Immediate**	**1-5 Years**	**6-10 Years**	**11+ Years**	**System/Component Notes**
Structure	30	$66,843	0	0	0	100	Wood pole barn structure
			$0	*$0*	*$0*	*$66,843*	
							2013 assessment - no reported problems.
							2014 Assessment: No changes reported.
							2015 - 2021 Assessment: No changes reported. No reported problems
Roof	20	$44,562	0	0	5	95	Standing seam metal roof.
			$0	*$0*	*$2,228*	*$42,334*	
							2013 assessment - no reported problems.
							2014 assessment: Roof inspected, repaired as necessary.
							2015 - 2021 Assessment: No changes reported. No reported problems
Glazing	0	$0	0	0	0	100	N/A
			$0	*$0*	*$0*	*$0*	
							2018 Assessment: No changes reported. No reported problems.
							2019 Assessment: No changes reported. No reported problems.
							Steel vertical siding.
							2021 Assessment: No changes reported. No reported problems.
Cladding	24	$53,474	0	0	5	95	
			$0	*$0*	*$2,674*	*$50,801*	
							2013 assessment - no reported problems.
							2014 Assessment: No changes reported.
							2015 - 2021 Assessment: No changes reported. No reported problems

Campus: Greenville			**Use Types:**			**Notes:**	Original construction date unknown. Built as part of old fairgrounds, now owned by MCC.
Bldg. No: 16			100% Storage				
Building: Greenville Pole Barn							
Area: 4,900sf	**Yr Built: 1970**	**Floors: 1**					

	CRV of System		Pct. of system value to budget for repair/replacement:				
System	**%**	**$**	**Immediate**	**1-5 Years**	**6-10 Years**	**11+ Years**	**System/Component Notes**
HVAC	2	$4,456	0	0	0	100	N/A
			$0	*$0*	*$0*	*$4,456*	
							2014 assessment: Gas fired infrared heater added.
							2015 - 2021 Assessment: No changes reported. No reported problems
Plumbing/Drainage	0	$0	0	0	0	100	N/A
			$0	*$0*	*$0*	*$0*	
							2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Primary/Secondary	0	$0	0	0	0	100	N/A
			$0	*$0*	*$0*	*$0*	
							2014 assessment:
							Power extended to building to support limited lighting and heater.
							2015 - 2021 Assessment: No changes reported. No reported problems
Lighting	0	$0	0	0	0	100	N/A
			$0	*$0*	*$0*	*$0*	
							2018, 2019, 2021 Assessment: No changes reported. No reported problems.

Campus: Greenville			**Use Types:**			**Notes:**	Original construction date unknown. Built as part of old fairgrounds, now owned by MCC.
Bldg. No: 16			100% Storage				
Building: Greenville Pole Barn							
Area: 4,900sf	**Yr Built: 1970**	**Floors: 1**					

	CRV of System		Pct. of system value to budget for repair/replacement:				
System	**%**	**$**	**Immediate**	**1-5 Years**	**6-10 Years**	**11+ Years**	**System/Component Notes**
Voice/Data	1	$2,228	0	0	0	100	N/A
			$0	*$0*	*$0*	*$2,228*	
							2014 assessment: data cabling extended to building to support security
							camera/system
							2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Ceilings	0	$0	0	0	0	100	N/A
			$0	*$0*	*$0*	*$0*	
							2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Walls/Casework	0	$0	0	0	0	100	N/A
			$0	*$0*	*$0*	*$0*	
							2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Doors	5	$11,141	0	0	0	100	2 new overhead doors, 3 man doors
			$0	*$0*	*$0*	*$11,141*	
							2013 - 2021 Assessment - no reported problems.
Floors	14	$31,193	0	0	0	100	Concrete slab floor
			$0	*$0*	*$0*	*$31,193*	
							2013 - 2021 assessment - no reported problems.
Bldg., Fire, ADA, Elevators	0	$0	0	0	0	100	N/A
			$0	*$0*	*$0*	*$0*	
							2018, 2019, 2021 Assessment: No changes reported. No reported problems.
Immed. Site, Ext. Ltg., etc	4	$8,912	0	0	0	100	No reported problems
			$0	*$0*	*$0*	*$8,912*	
							2013 assessment - no reported problems.
							2014 Assessment: No changes reported.
							2015 - 2021 Assessment: No changes reported. No reported problems

CRV Totals:	100	$222,810	*$0*	*$0*	*$4,902*	*$217,908*	$222,810						
Priority Issues Data						**0-5 Year Cumulative Data**							
$222,810	**$0**	**$0**	**0.0%**	**GOOD**		**$0**	**$0**	**0.0%**	**$4,456**	**GOOD**			
CRV	**DMB**	**EXCESS**	**FCI**	**RATING**		**DMB**	**EXCESS**	**FCI**	**$/YR MAINTAIN**	**RATING**			