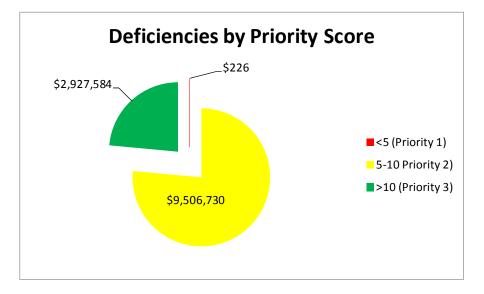


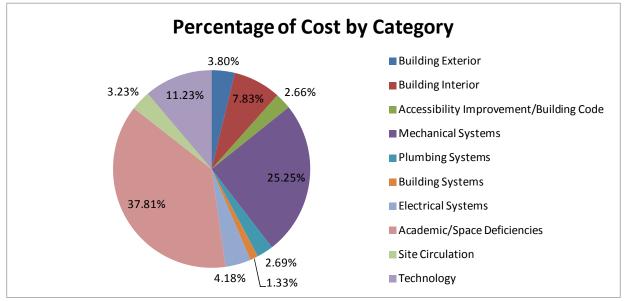
#### **GENERAL OVERVIEW**

Use:	Educational
Year Built:	1956
Total Area:	95,908 GSF
Floors:	2

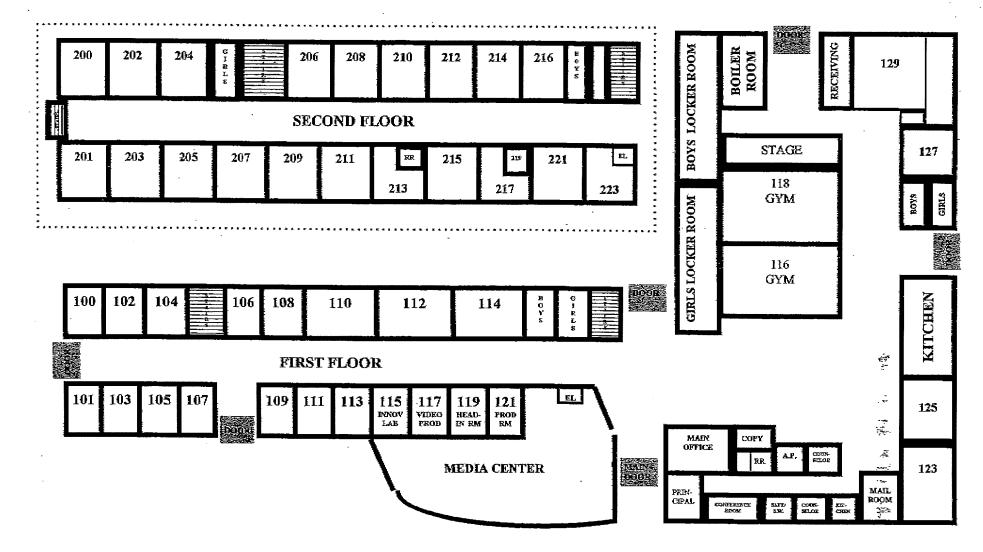
#### MAJOR FINDINGS

Refer to the following charts for a summary of deficiencies by category and priority score. Note: Lower priority score equals highest urgency.





ANDERSON MIDDLE SCHOOL 3205 CALTALPA BERKLEY, MICHIGAN 48072 (248) 837-8200



PAGE 02/02

ANDERSON MIDDLE SCHO

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Addros	: 3205 Catalpa, Berkley, Michigan	Berkley, Michigan									Building Deficiencies Priorities by Category							Notes										
Bldg. A No. of F Year Bu	iors: 2 ilt: 1956 ion Date: January 2014	AB: AD: BE: BI: BS: ES: MS: PS: SC: SE: IT:	Accessibility Improvement/B Academic/Space Deficienci Building Exterior Building Interior Building System Electrical System Mechanical System Plumbing System Site Circulation Specialty Equipment/Other Technology						1. 2. 3. 4.	Consequences of the ProblemNeed1. Hazards1. Critical2. Interruption2. Urgent3. Deterioration3. Necessa4. Utility4. ADA5. Energy5. Desirab		nt 2. Frequent 3. Occasional 4. Infrequent		<ol> <li>Energy column "X" refers to items that have an energy consumption impact, either increase or decrease.</li> <li>Lower score equals higher priority.</li> <li>Project Cost includes 50.8% mark-ups and fees for Facility Condition Analysis.</li> <li>Project Cost includes 20.5% mark-ups and fees for technology.</li> </ol>														
No.	Item/Description		Location	Photo No.	Cons. Need Fre		Freq.	Score	Energy	gy Notes		Action		Qty.	Unit	Archit Unit Cost	ectural Subtotal	Me Unit Co	chanical st Subtoto	_	ctrical Subtotal	2014 Project Cost						
BUILDIN	GEXTERIOR																		I									
BE-1	Overhangs/Soffits	Entire B	uilding	BE-1	3	3	2	8		Paint is peeling and steel is rusted.		Provide aluminum soffit	panels.	1,700	SF	\$ 6.00	\$ 10,200	)				\$ 15,382						
BE-2	Brick Veneer at Base of Walls		roofs drains to pavement ent to walls and at main ces	BE-2	3	3	2	8		Brick and mortar joints deteriorated roof water drainage.		Control roof drainage w and clean/tuck point br		600	SF	\$ 10.50	\$ 6,300	)				\$ 9,500						
BE-3	Sealant at Door and Window Openings	Entire B	uilding	BE-3	3	3	2	8		Sealant deteriorated and cracked	ł.	Replace sealant.		3,500	LF	\$ 4.75	\$ 16,625	5				\$ 25,071						
BE-4	Entrance Canopy Columns	Main Er	ntrance	BE-4	3	3	2	8		Steel is rusted.		Paint columns.		4	EA	\$ 125.00	\$ 500	)				\$ 754						
BE-5	Steel Stair/Ramp Railings	Building	g Entrances	BE-5	3	3	2	8		Paint is peeling and steel is rusted.		Paint railings.	150	LF	\$ 5.00	\$ 750	)				\$ 1,131							
BE-6	Steel Doors and Frames	Locker	Room Exit Doors		3	3	1	7		Deteriorated and rusted.		Replace with aluminum fiberglass reinforced pa		3	EA	\$ 2,800.00	\$ 8,400	)				\$ 12,667						
BE-7	Entrance Canopy Soffits	East En	trance	BE-7	3	3	2	8		Wood is deteriorated and paint is	peeling.	Provide aluminum soffit	panels.	130	SF	\$ 7.50	\$ 975	5				\$ 1,470						
BE-8	Roof Membrane		Selected Areas		3	3	2	8	х	Roof membrane reaching its life expectancy.		Remove and replace w and single-ply membrar	ne.	on 29,900	SF	\$ 10.00						\$ 450,892						
BE-9	Fiberglass Reinforced Panel Door Seals	-	ntrances	BE-9	4	3	2	9		Doors not sealed at perimeter.		Add/replace door seals		4	EA	\$ 100.00						\$ 603						
BE-10	Wood Fascia	· ·	asium Roof	BE-10	3	3	2	8		Deteriorated, peeling paint.		Replace with aluminum	fascia.	220	LF	\$ 12.00						\$ 3,981						
BE-11 BE-12	Stone Window Sills Concrete Slab		uilding ntrance	BE-11 BE-12	4	3 2	2	9 5		Sealant missing at joints. Irregular and rough, possible trippi hazard.	ina	Provide sealant. Repair/replace concret	e.	750 20	LF SF	\$ 4.75 \$ 115.00						\$ 5,372 \$ 3,468						
BE-13	Concrete Stairs	Locker	Room Entrances	BE-13	3	3	2	8		Concrete is deteriorated.		Repair concrete.		1	LS	\$ 500.00	\$ 500	)				\$ 754						
BE-14	Roof Downspout	East Ele		BE-14	3	3	2	8		Downspout leaks are deteriorating		Replace downspout an	d clean brick.	1	LS	\$ 500.00						\$ 754						
					-											1	1			Subtotal -	uilding Exterior	. ·						
BUILDIN	G INTERIOR																				-							
BI-1	Original Hollow Metal, Wood Doors and Frames	Entire B	uilding	BI-1	4	3	1	8		Deteriorated, nonfunctional and c meet current code requirements.		Replace with wood doo metal frames.	ors and hollow	132	EA	\$ 2,350.00	\$ 310,200	)				\$ 467,782						
BI-2	Plastic Laminate Counter Tops	Home E	Economics	BI-2	4	3	2	9		Delaminating.		Replace with solid surface new sinks with point of u		d 100	LF	\$ 150.00	\$ 15,000	)\$9	0.00 \$ 9,0	00		\$ 36,192						
BI-3	Carpet	Corrido		BI-3	3	3	1	7		Carpet reaching life expectancy.		Replace carpet and res	silient base.	14,000	SF	\$ 7.00		-				\$ 147,784						
BI-4	Casework Cabinets	Band C	Classroom	BI-4	3	3	2	8		Poor condition.		Replace cabinets.		15	LF	\$ 300.00	\$ 4,500	)				\$ 6,786						
BI-5	Wood Cabinets and Counter Tops	Science	e Classrooms	BI-5	4	5	2	11		Poor condition.		Replace cabinets and p counter tops.	orovide epoxy	96	LF	\$ 350.00	\$ 33,600	)				\$ 50,669						
BI-6	Shower Rooms	Boy's ai	nd Girl's Locker Rooms	BI-6	4	5	2	11		Rooms are abandoned and in nea updating and repair.	ed of	Reduce/replace numbe heads, add barrier free : repair floor, wall and ce	shower stall an	id 380	SF	\$ 40.00	\$ 15,200	)\$3	4.00 \$ 12,9	20 \$ 5.	00 \$ 1,900	\$ 45,270						
BI-7	Wood Floor	Music c	and Gym Stage	BI-7A BI-7B	4	5	3	12		Poor condition.		Refinish wood floors.		1,875	SF	\$ 3.50	\$ 6,563	3				\$ 9,896						
BI-8	Lockers	Boy's, G Rooms	Girl's and Team Locker	BI-8	4	5	2	11		Poor condition.		Replace lockers and be	enches.	400	LF	\$ 550.00	\$ 220,000	)				\$ 331,760						
BI-9	Room Security	Head E	Head End Room		1	1	1	3		Key type is not unique to authorize (typical for all buildings).	ed staff	Recore door lock.		2	EA	\$ 75.00	\$ 150	)				\$ 226						
																				Subtotal -	Building Interior	\$ 1,096,365						



A al al ra an	: 3205 Catalpa, Berkley, Michigan	lter	m No. Code	s					Building Deficienci	es Priorities	by Catego	bry	Notes									
Bldg. Area: 95,908 GSF No. of Floors: 2 Year Built: 1956 Evaluation Date: January 2014			Accessibility Improvement/B Academic/Space Deficienc Building Exterior Building System Electrical System Mechanical System Plumbing System Site Circulation Specialty Equipment/Other Technology				1 2 3 4	1 Hazards 1. Critical 1. Constant 3.			2. 1. Constant 2. Frequent 3. Occasional 4. Infrequent	<ol> <li>Energy column "X" refers to items that have an energy consumption impact, either increase or decrease.</li> <li>Lower score equals higher priority.</li> <li>Project Cost includes 50.8% mark-ups and fees for Facility Condition Analysis.</li> <li>Project Cost includes 20.5% mark-ups and fees for technology.</li> </ol>										
No.	Item/Description	Location		Photo No.	Cons.	. Need Free		Score	Energ	y Notes			Action	Qty.	Unit	Unit Architectural		Mech Unit Cost	nanical Subtotal	Electrical Unit Cost Subtotal		2014 Project Cost
ACCESS	BILITY IMPROVEMENT/BUILDING CODE																o o o lo ror di		00010101	0111 0001	0001010	,
AB-1	Furniture and Equipment	Corrido	ors	AB-1	1	4	1	6		Loose furniture and equipment not permitted in corridors.	ł	Remove fu	rniture and equipment.									
AB-2	Stair Guardrail	Stairs to	2nd Floor	AB-2	1	4	1	6		Guardrails do not meet current co requirements for height.	de	Add guarc	Irail.	100	LF	\$ 150.00	\$ 15,000					\$ 22,620
AB-3	Chair and Table Storage Under Stage	Gymno	asium	AB-3	1	4	4	9		Code violation considering curren construction of stage.	t	Limit storaç	ge to non-combustible items.									
AB-4	Handrails at Stairs	Balcon Northe	ocker Room, Gym y, Exercise Room, ast Building Entrance, Room Exits to Exterior	AB-4A AB-4B AB-4C	1	4	2	7		Handrails missing (required on both stairs).	n sides of	Add handrails.		75	LF	\$ 50.00	\$ 3,750					\$ 5,655
AB-5	Open Stairs	To 2nd	Floor	AB-5	1	4	1	6		Fire rated separation required on a one floor.			Add fire rated separation including door: and frames. Relocate ceiling lights.		EA	\$10,000.00	\$ 20,000			\$ 500.00	0 \$ 1,000	0 \$ 31,668
AB-6	Room Exits	Team L	ocker Room		1	4	1	6		Two (2) exits are required only one provided at exterior. (Locked wire gate to Boy's Locker Room.)	. ,	Provide er Locker Roc	nergency exit through Boy's om.	1	LS	\$ 2,000.00	\$ 2,000					\$ 3,016
AB-7	Boy's and Girl's Toilet Rooms	Various	s Locations	AB-7	2	4	2	8		Toilet rooms do not meet current accessibility requirements.		floor/wall/	w plumbing fixtures, lighting, ceiling finishes, stalls and door operators.	2,050	SF	\$ 55.00	\$ 112,750	\$ 27.0	00 \$ 55,350	\$ 4.20	0 \$ 8,610	0 \$ 266,479
AB-8	Boy's and Girl's Locker Room Toilets	Locker	Rooms	AB-8	1	4	2	7		Toilet rooms do not meet current accessibility requirements.			w plumbing fixtures, lighting, ceiling finishes and stalls.	210	SF	\$ 55.00	\$ 11,550	\$ 27.0	00 \$ 5,670	\$ 4.20	0 \$ 882	2 \$ 27,298
AB-9	Bleacher Guardrails	Gymno	isium		1	3	2	6		Open ends of wood bleachers do guardrails.			vable guardrails to open ends ble bleachers.	136	LF	\$ 80.00	\$ 10,880					\$ 16,407
MECHAN	IICAL SYSTEMS																	Subtotal - /	Accessibility Ir	nprovements/	Juilding Code	e \$ 373,143
-	Building Controls	Entire B	uilding	MS-1	2	2	1	5	Х	Existing controls are outdated.		Provide ne	w DDC controls throughout.	96,000	SF		[	\$ 3.3	32 \$ 318,720			\$ 480,630
	Domestic Water Heater (HTR-1)	Boiler R	0	MS-2	2	2	1	5	х	Existing Ruud water heater is beyo useful life.		Replace w	ith 199 MBH, 80 gallon e unit and stack.	1	LS				00 \$ 5,000			\$ 7,540
MS-3	Domestic Water Heater (HTR-2)	Boiler R	oom	MS-3	3	3	1	7	х	Existing Lochinvar water heater is b useful life.	beyond its	Replace w	rith like and kind; 399 MBH unit.	1	LS			\$ 7,300.0	00 \$ 7,300			\$ 11,008
MS-4	Condensate Return System	Boiler R		MS-4	4	3	1	8	х	Receiver tank and pumps are in fo		Replace w	ith packaged receiver system	. 1	LS				00 \$ 9,800			\$ 14,778
MS-5	Sump Pump	Boiler R	oom	MS-5	3	3	1	7		Existing duplex sump system is in di	srepair.		tire duplex sump system.	1	LS			\$ 5,000.0	0 \$ 5,000		<u> </u>	\$ 7,540
MS-6	Boilers	Boiler R		MS-6	3	3	1	7	х	Existing boilers are beyond their us circa 1956.	eful life;	and all ass	w boilers at 6,000 MBH each ociated trim, new stacks and n damper control.	1	LS				00 \$ 351,000		) \$ 50(	0 \$ 530,062
MS-7	Convectors	Vestibu	lles/Entrances	MS-7	4	4	1	9	Х	Existing convectors are in fair conc		Replace w	rith like and kind.	6	EA			\$ 2,250.0	0 \$ 13,500	\$ 185.00	) \$ 1,110	\$ 22,032
MS-8	Classroom Unit Ventilators - Horizontal	Entire B	uilding	MS-8	3	2	1	6	х	Existing heating and ventilating on horizontal unit ventilators are beyo useful life.	nd their		vith new heating and vertical ducted units.	37	EA	\$ 7,500.00	\$ 277,500	\$ 23,000.0	00 \$ 851,000	\$ 235.00	)\$8,69;	5 \$ 1,714,890
MS-8A	Unit Ventilators - HVAC	Entire B	uilding		5	5	1	11	Х	Existing unit ventilators are heating ventilating only.	and	ventilators		37	EA	\$ 7,500.00	\$ 277,500	\$ 27,000.0	0 \$ 999,000	\$ 2,373.00	) \$ 87,80	1 \$ 2,057,366
MS-9	Kitchen Hood	Kitcher	1	MS-9	4	4	1	9		Main kitchen hood is beyond its us			ith new stainless steel hood ical fire suppression system.	1	LS			\$ 14,500.0	00 \$ 14,500			\$ 21,866
MS-10	Refrigeration Compressors	Kitcher	1	MS-10	2	2	1	5	Х	Existing compressors use domestic and are not code compliant.	water	Replace w	rith new air-cooled units.	2	EA			\$ 6,500.0	00 \$ 13,000	\$ 350.00	5 \$ 700	\$ 20,660

Addross	s: 3205 Catalpa, Berkley, Michigan		Building Deficienc	es Prioritie:	s by Catego	ory	Notes																
Bldg. An No. of F Year Bu	ion Date: January 2014	Building Code cies					1. 2. 3. 4.	Donsequences of the Problem Hazards Interruption Deterioration Utility Energy	Need 1. Critic 2. Urger 3. Nece 4. ADA 5. Desire	nt 2. Frequent 3. Occasional 4. Infrequent		<ol> <li>Energy column "X" refers to items that have an energy consumption impact, either increase or decrease.</li> <li>Lower score equals higher priority.</li> <li>Project Cost includes 50.8% mark-ups and fees for Facility Condition Analysis.</li> <li>Project Cost includes 20.5% mark-ups and fees for technology.</li> </ol>											
No.	Item/Description	Location	Photo No.	Cons.	Need	Need Freq. Sc		Energ	y Notes			Action	Qty.	Unit	Archite Unit Cost	ctural Subtotal	Me Unit Co	echanical st Subtot		trical Subtotal	2014 Project Cost		
MS-11	Gym HVAC	Roof		5	5	1	11	х	Existing gym units are heating and ventilating only.		new insula	2) new DX rooftop units wit ted supply and return approximately 6,000 CFM	n 2	EA	\$18,000.00	\$ 36,000	\$ 51,00	0.00 \$ 102,	000 \$ 8,010.00	\$ 16,020	\$ 232,262		
MS-12	Locker Rooms Heating and Ventilating Units	Boy's and Girl's Locker Rooms	MS-12	4	4	4	12		Existing ceiling hung units are in fa condition.	r		vith like and kind; new n ductwork.	3	EA			\$ 9,50	0.00 \$ 28,	500 \$ 185.00	\$ 555	\$ 43,815		
MS-13	Rooftop Unit (RTU-1)	Roof	MS-13	4	4	1	9	х	Existing unit is beyond its useful life		Replace w HVAC unit	vith like and kind; 6,400 CFN	1 1	EA			\$ 28,80	0.00 \$ 28,	300 \$ 4,160.00	\$ 4,160	\$ 49,704		
MS-14	Rooftop Units (RTU-2 thru RTU-5)	Roof	MS-14	4	4	2	10	х	Existing unit is beyond its useful life		Replace w of 2,000 Cl	vith like and kind; average FM.	size 1	EA			\$ 13,00	0.00 \$ 13,	000 \$ 3,230.00	\$ 3,230	\$ 24,475		
MS-15	Head End Air Conditioning	Head End Room		4	5	1	10		Some issues with existing unit.			split air conditioning unit; ately 1.5-tons.	1	EA			\$ 8,50	0.00 \$ 8,	500 \$ 500.00	\$ 500	\$ 13,572		
PLUMBING SYSTEMS																							
PS-1	Domestic Water Pipe	Entire Building	PS-1	2	3	1	6		80% of domestic water pipe is galasteel.	anized	Replace w	vith copper pipe.	48,000	SF	\$ 0.50	\$ 24,000	\$	3.25 \$ 156,	000		\$ 271,440		
PS-2	Water Meter Isolation Valves	Boiler Room	PS-2	2	3	5	10		Existing gate valves are in fair to p conditions.	oor	Replace th	nree (3) 3" gate valves.	3	EA			\$ 1,83	0.00 \$ 5,	490		\$ 8,279		
PS-3	Investigate Possible Water Pipe Break	Under Lobby Slab		3	3	1	7		Possible pipe break under the lob	ру	Investigate	e as necessary and repair.	1	LS	\$ 5,000.00	\$ 5,000	\$ 10,00	0.00 \$ 10,	000		\$ 22,620		
PS-4	Electric Water Cooler	Entire Building	PS-4	3	3	1	7		Existing ceramic bubblers are in fo	ir	Replace/u cooler.	upgrade to new electric wo	iter 6	EA			\$ 3,00	0.00 \$ 18,	000 \$ 1,200.00	\$ 7,200	\$ 38,002		
PS-5	Sanitary Pipe	Entire Building	PS-5	5	5	1	11		Existing sanitary pipe is in fair conc	ition.	Replace a space.	accessible portions; confine	d 5,000	SF	\$ 0.50	\$ 2,500	\$	4.35 \$ 21,	750		\$ 36,569		
	G SYSTEMS		•										•				•	•	Subtotal - Plum	bing Systems	\$ 376,910		
BOILDING BS-1	Fire Alarm System	Entire Building		2	3	3	8		Existing system is outdated and dif	ficult to	Install new	addressable system.	1	LS					\$ 95,908.00	\$ 95,908	\$ 144,629		
BS-2	Emergency Lighting	Corridors, Gym, Locker Rooms, Media Center		1	3	4	8		maintain. Spacing of existing battery units ex	ceeds		units in existing fixtures.	82	EA					\$ 300.00	\$ 24,600	\$ 37,097		
	Boiler Room Emergency Power Off	Boiler Room		3	3	3	9		requirements. Boiler does not have an emergene off system as required by code.	cy power	Install boile system.	er room emergency power	off 1	LS			\$ 2,72	0.00 \$ 2,	720		\$ 4,102		
				1							39310111.								Subtotal - Bui	lding Systems	\$ 185,828		
	CAL SYSTEMS	Boiler Room	ES-1	2	3	1	6		Original electrical distribution equi	oment is	Replace th	ne original distribution	1	EA					\$ 20.250.00	\$ 20.250	\$ 48,784		
ES-1	Electrical Distribution System		ES-1 ES-2A	2		1	6 8		obsolete and a safety concern. Original electrical panels are obso		equipmen Replace th	t with new. ne original panels with new	, 15						-				
	Electrical Panels	Corridors to serve Classrooms	ES-2B	2	5	1	8	~	are sometimes located behind do Original lighting fixtures with obsol			els in new locations. vith more efficient T8 fluore	, 15 cent 17	EA EA							\$ 110,273 \$ 153,814		
	Original Lighting Fixtures	Classrooms	ES-3	о О			10	× 	fluorescent lamps. Original lighting fixtures with ineffic	ient	fixtures. Replace w	vith more efficient T8 fluore:									\$ 153,816		
	Original Lighting Fixtures	Locker Rooms		3	3	4	10 11	×	incandescent lamps. Rooms over 1,000 SF require two (2	?) exits	fixtures.		6	EA EA					\$ 9,000.00		\$ 27,144 \$ 2,714		
	Exit Lighting Fixtures Exterior Lighting	Classrooms Exterior Doors	ES-6A	4	3	4	5	~ ~	with exit signs. Lighting fixtures are in disrepair.		Add exit sig	gns. vith more efficient LED fixtur		EA					\$ 300.00		\$ 2,714 \$ 11,762		
			ES-6B	- -	5		ہ 11	~							\$ 4 000 00	\$ 36,000							
	Site Lighting	Parking Lot Outdoors on grade by boiler		3		3		Х	Inadequate site lighting. No back-up power for District-wid	e data		poles with efficient LED fix						0.00 0 0			\$ 117,262		
ES-8	Back-up Generator	room			3	4	8		operations.		serve rack			LS	\$ 500.00	\$ 500	\$ 2,20	0.00 \$ 2,	200 \$ 25,250.00	ъ <u></u> \$ 25,250	\$ 42,149		

Address	: 3205 Catalpa, Berkley, Michigan		lter	n No. Code	es					Building Deficiend	cies Prioritie	s by Category	Notes									
Bldg. Are No. of Fl Year Bui	ea: 95,908 GSF oors: 2	AD: Acac BE: Buildi BI: Buildi BS: Buildi ES: Elect MS: Mect PS: Plum SC: Site C SE: Spec	ssibility Improvement/B lemic/Space Deficienc ng Exterior ng Interior ng System rical System anical System bing System Circulation ialty Equipment/Other nology						1 2 3 4	Consequences of the Problem . Hazards . Interruption . Deterioration . Utility . Energy	Need 1. Critic 2. Urge 3. Nece 4. ADA 5. Desir	nt 2. Frequent assary 3. Occasional 4. Infrequent	2. Lowers 3. Project	ore equa Cost inclu	"refers to items that have an Is higher priority. des 50.8% mark-ups and fees des 20.5% mark-ups and fees	for Facility Condi		ther increase or decrease.				
No.	Item/Description		ocation	Photo	Cons	Need	Freg.	Score	Energ	Notes		Action	Qty	. Unit	Architectural	Mecho	anical	Electrical	2014			
	•				001.01		ineq.		2.1019				۵.,		Unit Cost Subtotal	Unit Cost Subtotal		Unit Cost Subtotal	Project Cost			
	Cord Across Floor Uninterruptible Power Supply		itchen         ES-9         3         3           ead End Room          1         3			3	4	7 8		Shock hazard. No protection against short power interruptions.	ər	Install over floor raceway. Provide 20 kVA UPS to serve racks u generator starts.	Intil 1	EA EA				\$       75.00       \$       75         \$       30,815.00       \$       30,815	1			
ES-11	Electrical Panel	Head End Room		l End Room 1 3 1 <b>5</b>			Technology circuits are serving ne technology loads.	Add panel and move non-technolo loads from technology panels.	ogy 1	EA				\$ 4,875.00 \$ 4,875	\$ 7,352							
ES-12	Uninterruptible Power Supply	Main Office		1	3	4	8		Maintain operation during power interruptions.	·	Provide 5 kVA UPS to serve key fob PA and phones.	entry, 1	EA				\$ 11,300.00 \$ 11,300					
ACADEM	IC/SPACE DEFICIENCIES																	Subtotal - Electrical Systems	\$ 584,878			
	New Fine Arts Wing	Building Addition			4	3	1	8		Existing space is inadequate.		Build new fine arts wing. This will free the current art spaces for new uses as sensory rooms, kindergarten room work rooms, storage, etc.	such 6.07	5 SF	\$ 225.00 \$1,366,875				\$ 2,061,248			
AD-2	Dedicated Cafeteria	Building Addit	ion		4	3	1	8		Existing building lacks dedicated	cafeteria.	Build new cafeteria.	6,25	D SF	\$ 250.00 \$1,562,500				\$ 2,356,250			
AD-3	Large Group Instruction Renovation	Existing Office	ce Area 4 3 1 <b>8</b> Existing building lacks dedicated instructional space.		large	Renovate existing office area to accommodate this space.	2,50	D SF	\$ 125.00 \$ 312,500				\$ 471,250									
AD-4	Office				4	3	1	8		Existing office is not located at m student/visitor entrance.	ain	Move to location of band/orchestre rooms.	a 2,16	D SF	\$ 125.00 \$ 270,000				\$ 407,160			
SITE CIRC																	Subtotal - Ac	ademic/Space Deficiencies	\$ 5,295,908			
	Parking	Site			4	4	1	9		Quantity of parking is inadequate	Э.	Add additional parking to the site. shown to the right is an allowance.	Figure	LS	\$ 175,000				\$ 263,900			
SC-2	Student Drop-off	Site 4 4 1 9				Student drop-off is inadequate. Add/modify student drop-off to th Figure shown to the right is an allo				LS	\$ 125,000				\$ 188,500							
																		Subtotal - Site Circulation	\$ 452,400			
IT-1	OGY Refer to Tab 12 for breakdown	1		1			1		1					-		1	1					
11-1		<u> </u>		<u> </u>	I		<u> </u>		I			<u> </u>	<u>I</u>		<b>I</b>	<u> </u>	ļ	Technology Tota	\$ 1.573.457			

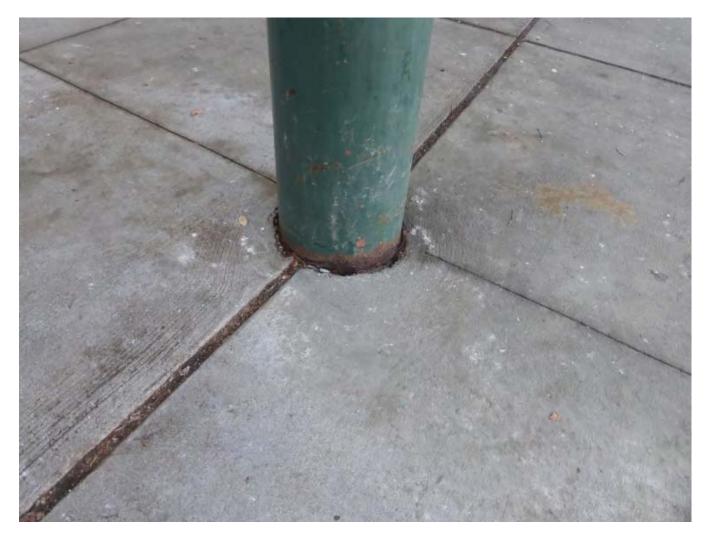
Note: Shaded items are shown for reference only and not included in the deficiency total.

Total Project Cost \$14,007,996















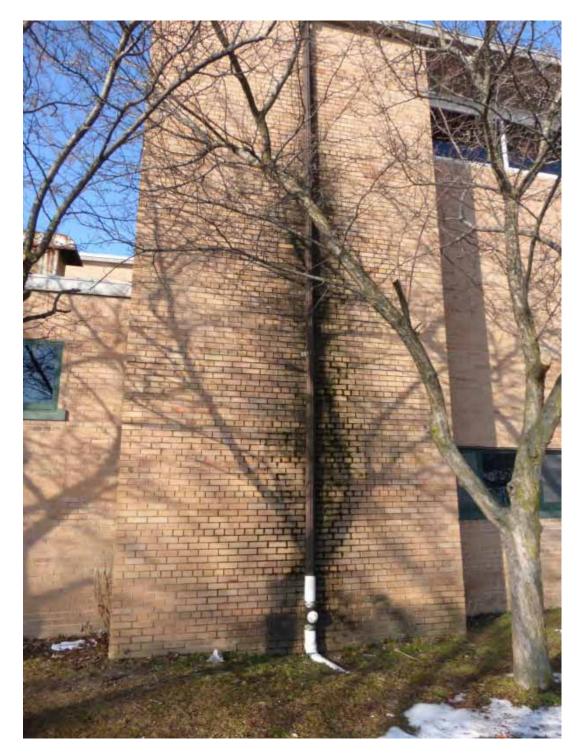




BE-11



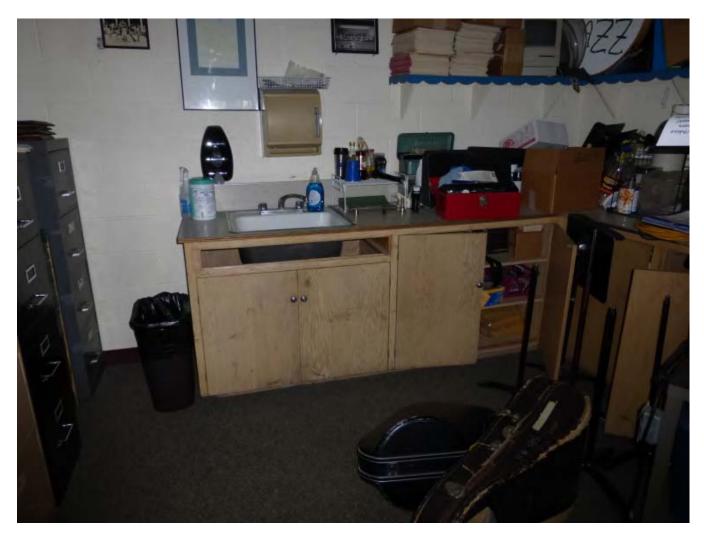




BE-14











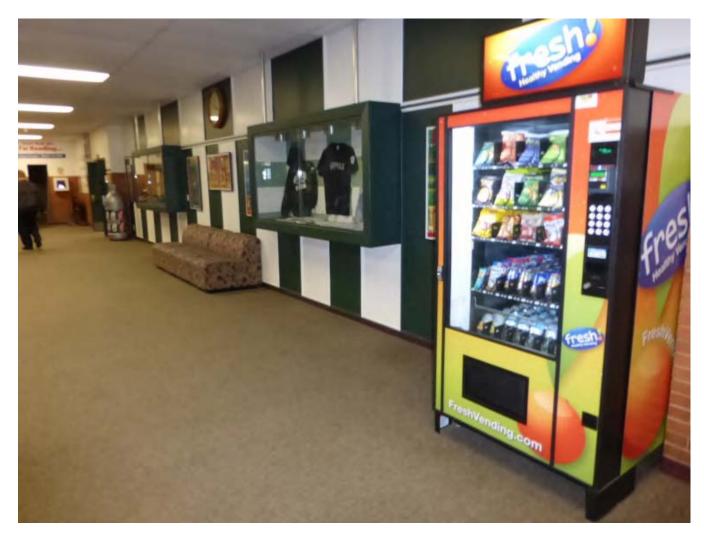


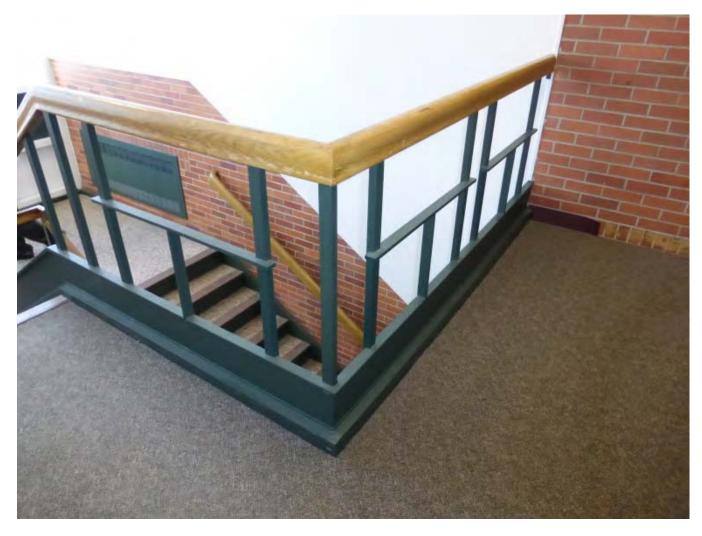
BI-7A



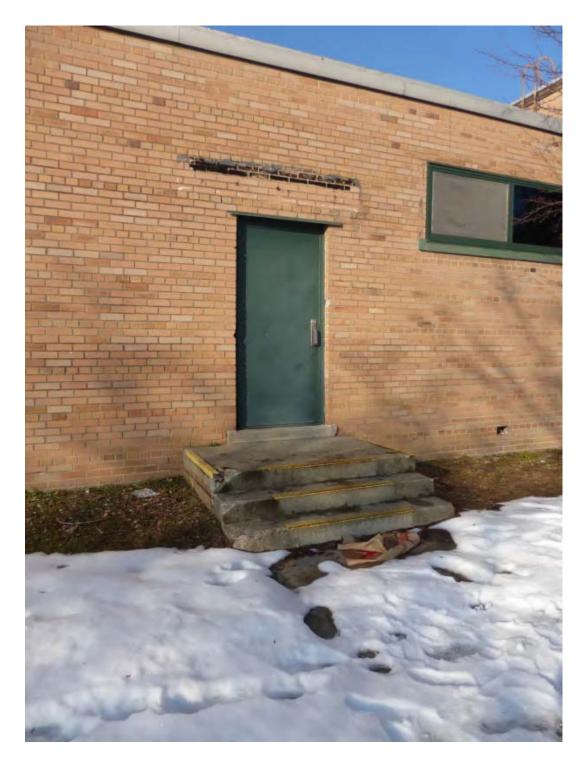
BI-7B







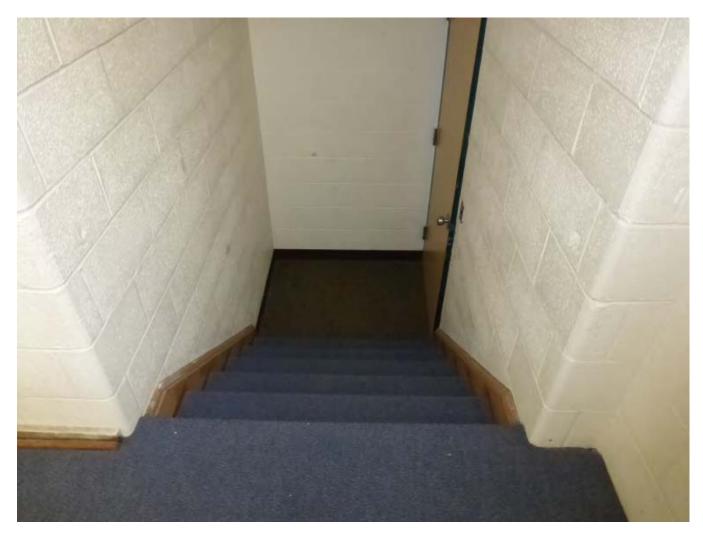




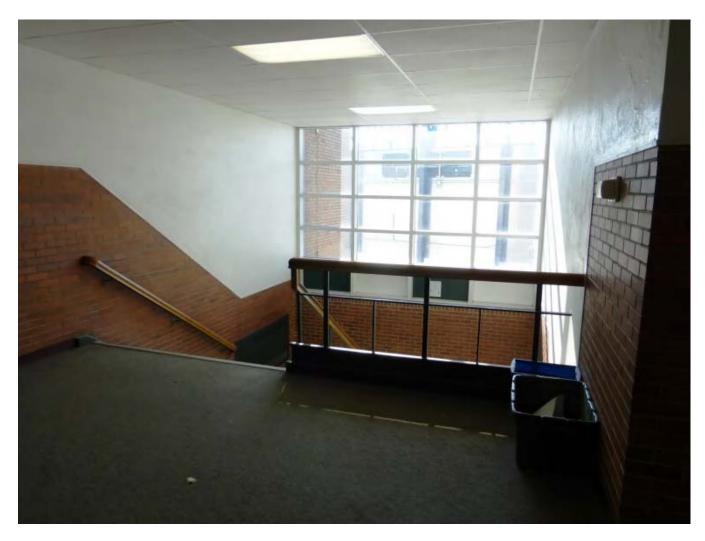
AB-4A



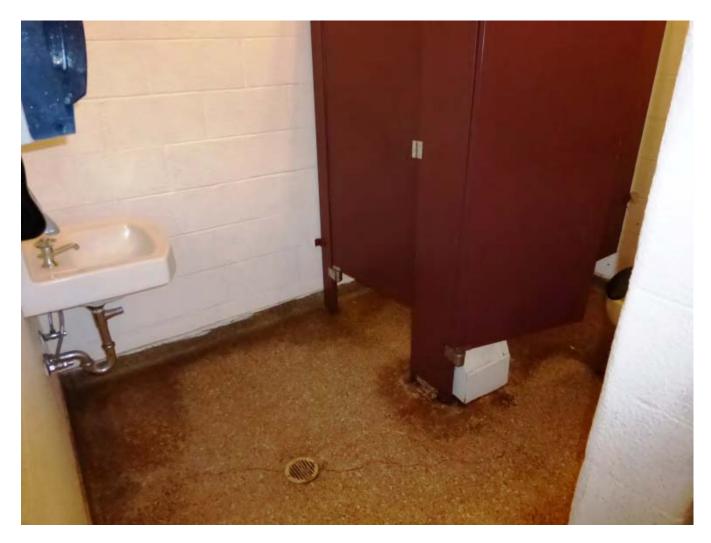
AB-4B



AB-4C



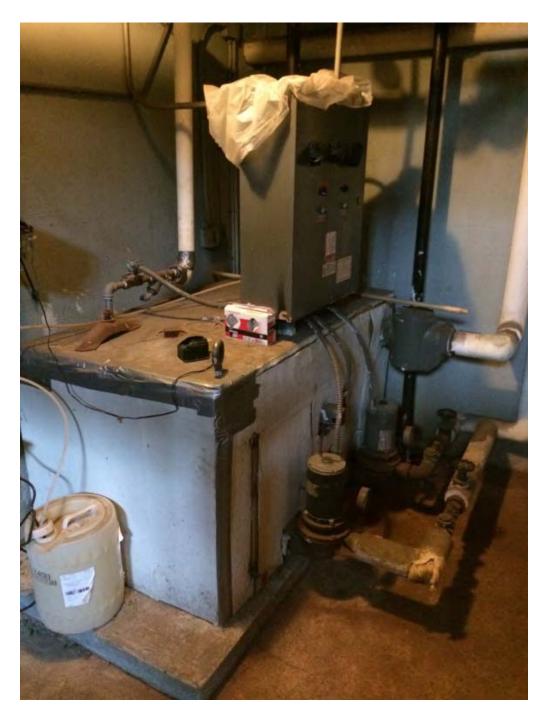




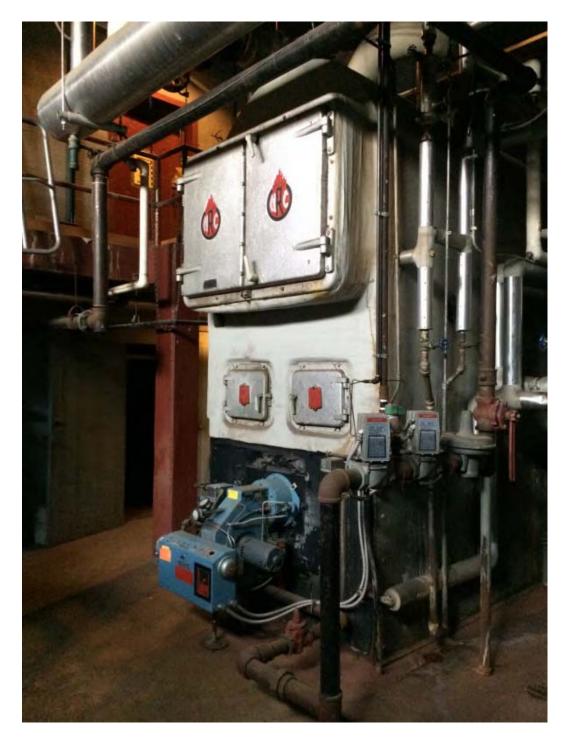


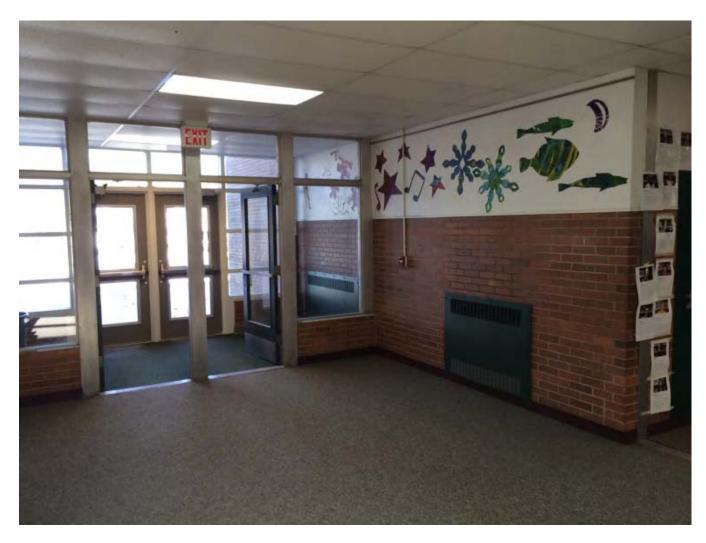




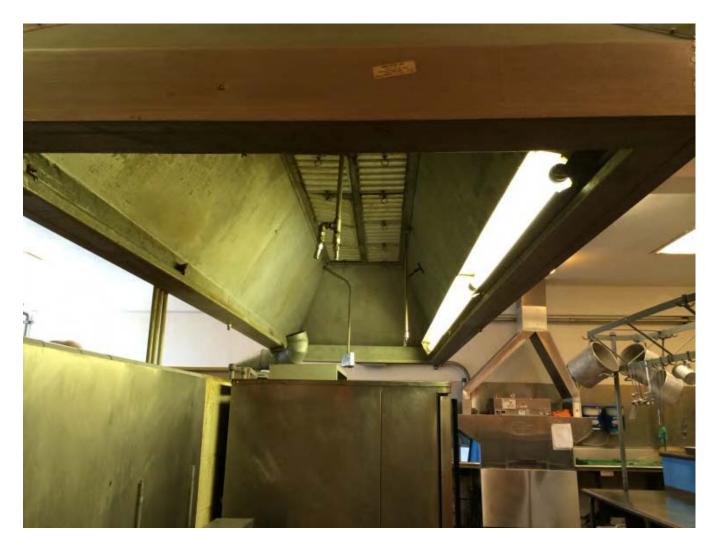


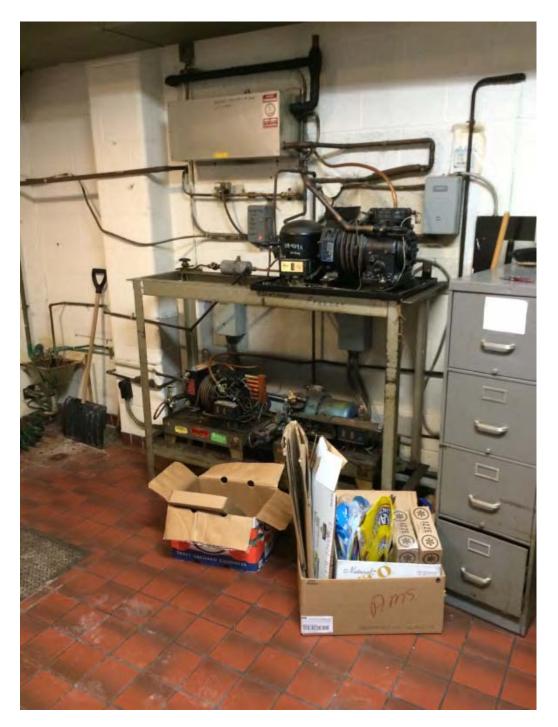














MS-12

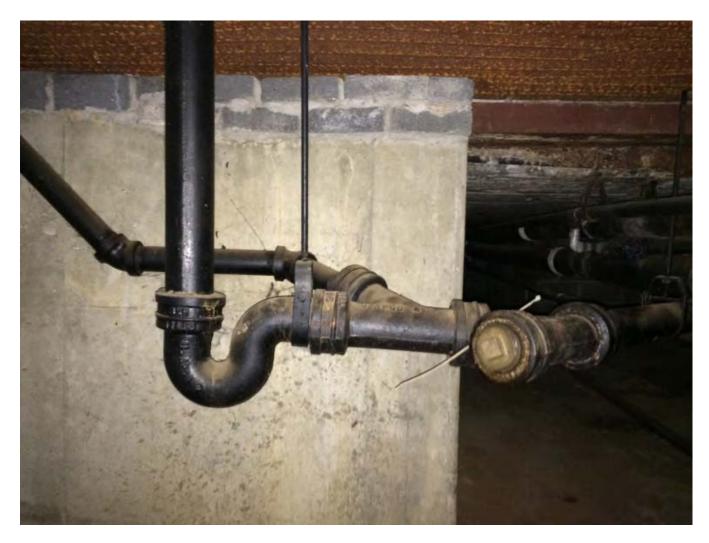














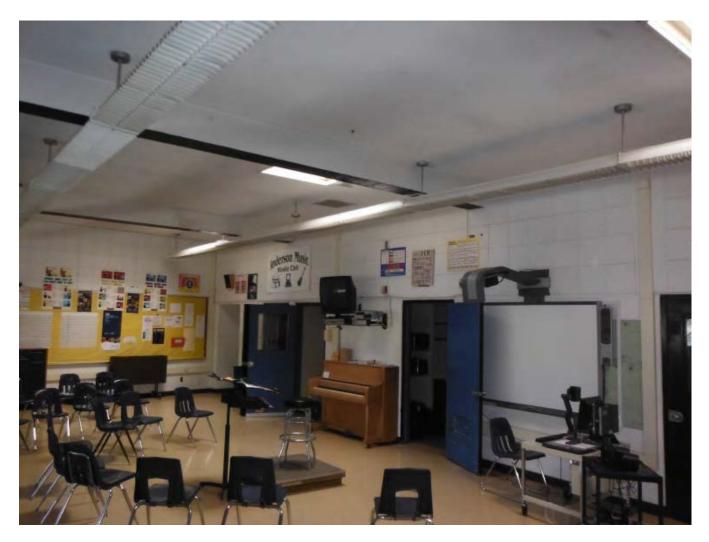
ES-1



ES-2A



ES-2B



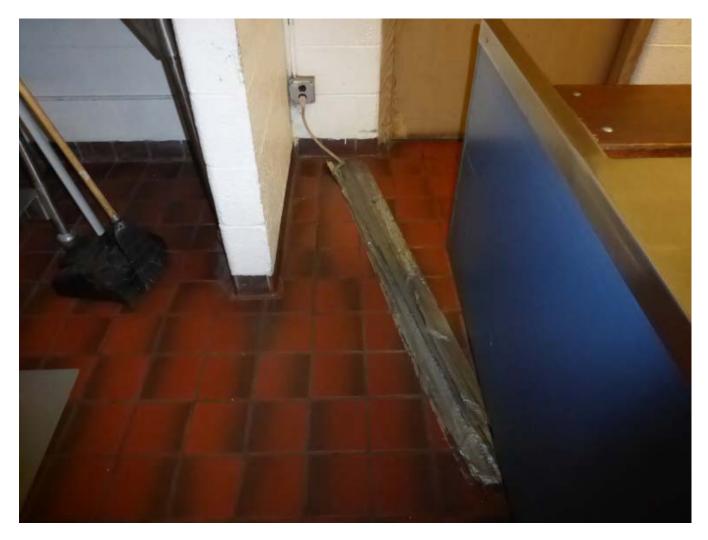
ES-3



ES-6A



ES-6B



ES-9

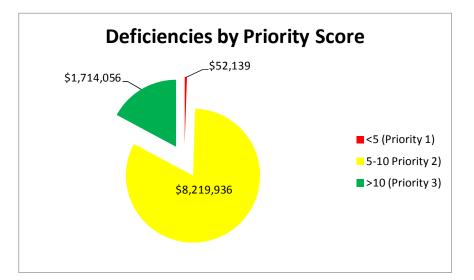


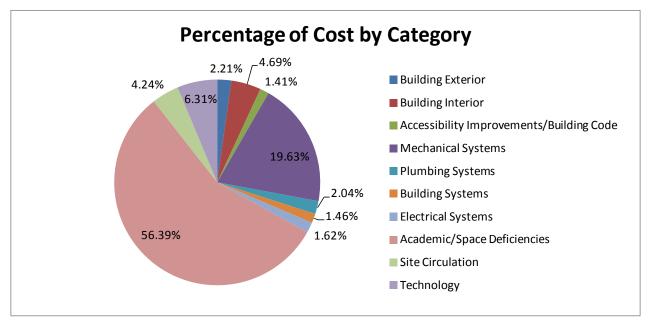
#### **GENERAL OVERVIEW**

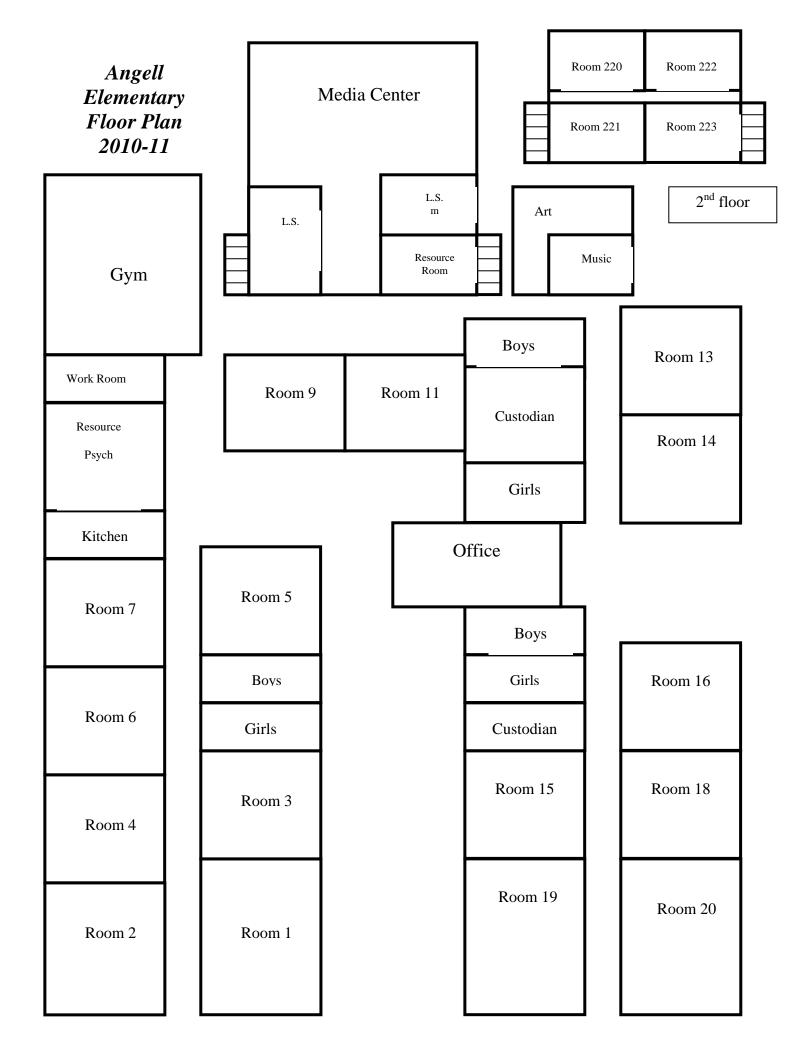
Use:	Elementary School
Year Built:	1921
Total Area:	40,981 square feet
Floors:	2

#### MAJOR FINDINGS

Refer to the following charts for a summary of deficiencies by category and priority score. Note: Lower priority score equals highest urgency.









Address: 3849 Beverly, Berkley, Michigan									Building Deficiencie	es Priorities by Cat	tegory	Notes										
Bldg. Ar No. of F Year Bu	ea: 40,981 loors: 2	AB:       Accessibility Improvement/BL         AD:       Academic/Space Deficienci         BE:       Building Exterior         BI:       Building Interior         BS:       Building System         ES:       Electrical System         MS:       Mechanical System         PS:       Plumbing System         SC:       Site Circulation         SE:       Specialty Equipment/Other         IT:       Technology						1 2 3 4	Consequences of the Problem . Hazards 2. Interruption 5. Deterioration 4. Utility 5. Energy	Need 1. Critical 2. Urgent 3. Necessary 4. ADA 5. Desirable	1. Constant	<ol> <li>Lower sco</li> <li>Project Co</li> </ol>	e equals	efers to items that have an e higher priority. es 50.8% mark-ups and fees fo es 20.5% mark-ups and fees fo	or Facility Conditi		er increase or decrease.					
No.	Item/Description	Location	Photo No.	Cons.	Need	Freq.	Score	Energ	gy Notes		Action	Qty.	Unit	Architectural Unit Cost Subtotal	Mecho Unit Cost	anical Subtotal	Electrical Unit Cost Subtotal	2014 Project Cost				
BUILDING							<u>.</u>					<u>I</u>				00010101		,				
BE-1	Overhangs/Soffits	Entire Building	BE-1	3	3	2	8		Paint is peeling and steel is rusted.	Provide	e aluminum soffit panels.	1,320	LF	\$ 6.00 \$ 7,920				\$ 11,943				
BE-2	Brick Veneer at Base of Walls	Where Roofs Drain to Pavement Adjacent to Walls	BE-2	3	3	2	8		Brick and mortar joints deteriorated water drainage.		ol roof drainage where possible ( 'tuck point brick.	and 1,300	SF	\$ 10.50 \$ 13,650				\$ 20,584				
BE-3	Sealant at Door and Window Openings	Entire Building	BE-3	3	3	2	8		Sealant deteriorated and cracked	. Replac	ce sealant.	2,500	LF	\$ 4.75 \$ 11,875				\$ 17,908				
BE-4	Sealant at Stone	Media Center	BE-4	3	3	2	8		Sealant at joints is missing.	Replac	ce sealant.	600	LF	\$ 4.75 \$ 2,850				\$ 4,298				
BE-5	Steel Stair/Ramp Railings	Building Entrances	BE-5	3	3	2	8		Paint is peeling and steel is rusted.	Paint ro	•	115	LF	\$ 5.00 \$ 575				\$ 867				
BE-6	Metal Stair Treads	Southwest Building Entrance	BE-6	1	2	2	5		Treads are missing and rusted.		ce with aluminum treads.	50	LF	\$ 60.00 \$ 3,000				\$ 4,524				
BE-7	Steel Doors and Frames	Entire Building	BE-7	3	3	1	7		Deteriorated and rusted.	fiberglo	ce with aluminum frames and ass reinforced panel doors.	3	EA	\$ 2,800.00 \$ 8,400				\$ 12,667				
BE-8	Stone Window Sills	Various Locations	BE-8	4	3	2	9				ce sills and sealant.	75		\$ 30.00 \$ 2,250				\$ 3,393				
BE-9	Entrance Canopy Soffits	Building Entrances		3	3	2	8		Wood is deteriorated and paint is p		e aluminum soffit panels.	510	SF	\$ 7.50 \$ 3,825				\$ 5,768				
BE-10	Roof Membrane	Selected Areas		2	1	1	4	Х	Roof membrane reaching its life expectancy.		ve and replace with new insulat ngle-ply membrane.	tion 3,450	SF	\$ 10.00 \$ 34,500				\$ 52,026				
BE-11	Site Drainage	East Elevation	BE-11	2	3	1	6		Roof drainage ponds along face o	f building. Add lai	indscape drain tile system.	4,140	SF	\$ 15.00 \$ 62,100				\$ 93,647				
BE-12	Clerestory Windows	West Wing		4	5	2	11		Single glazed glass.		ce with aluminum frames and ing glass.	65	SF	\$ 80.00 \$ 5,200				\$ 7,842				
																	Subtotal - Building Exterior	\$ 235,467				
BUILDING			1	1		1	-						1	Г Г Г	1	1	T I	1				
BI-1	Original Wood Doors and Frames	Entire Building	BI-1	4	3	1	8		Deteriorated, nonfunctional and de meet current code requirements.	o not Replac metal f	ce with wood doors and hollow frames.	53	EA	\$ 2,350.00 \$ 124,550				\$ 187,821				
BI-2	Plastic Laminate Counter Tops	Classrooms	BI-2	4	3	2	9		Delaminating.		ce with solid surface material. Ar new sink with point of use TMV.	nd 318	LF	\$ 150.00 \$ 47,700	\$ 65.00	\$ 20,670		\$ 103,102				
BI-3	Carpet	Corridors	BI-3	3	3	1	7		Carpet reaching life expectancy.	· · ·	ce carpet and resilient base.	6,170	SF	\$ 7.00 \$ 43,190				\$ 65,131				
BI-4	Gypsum Board Soffits	2nd Floor Classrooms	BI-4	4	5	1	10		Deteriorated and paint is peeling.		and repaint.	100	SF	\$ 5.00 \$ 500				\$ 754				
BI-5	Stair Wall	2nd Floor East Stair	BI-5	3	3	1	7		Plaster is deteriorated and paint is p	<b>J</b>	wall and paint.	250	SF	\$ 5.00 \$ 1,250				\$ 1,885				
BI-6	Resilient flooring and concrete floor topping	Art Room	BI-6	3	3	2	8		Concrete floor topping has failed of damage the resilient flooring.	causing Replac flooring	ce concrete topping and resilier g	nt 650	SF	\$ 10.50 \$ 6,825				\$ 10,292				
BI-7	Original Acoustical Tile Ceilings	West Wing, Music Room	BI-7	4	5	1	10		Poor condition.	conce	Replace with acoustical panels with concealed grid and new lighting. (Existing acoustic tile to remain.)		SF	\$ 5.00 \$ 30,900			\$ 9.00 \$ 55,620	) \$ 130,472				
BI-8	Room Security	Head End Room		1	1	1	3		Key type is not unique to authorized (typical for all buildings).	d staff Recore	e door lock.	1	EA	\$ 75.00 \$ 75				\$ 113				
																	Subtotal - Building Interior	\$ 499,570				



Barry B	Address: 3849 Beverly, Berkley, Michigan									Building Deficienc	es Priorities b	by Category	Notes												
No     Decision     No     Decision     No     Decision     No     Decision     No     Decision     No     Decision       All     Construction intervine inter	Bldg. Ar No. of Fl Year Bui	ea: 40,981 oors: 2 It: 1921	BE: BI: ES: MS: PS: SC: SE:	Academic/Space Deficiencia Building Exterior Building Interior Building System Electrical System Mechanical System Plumbing System Site Circulation Specialty Equipment/Other						1. 2. 3. 4.	- Hazrds Interruption Deterioration Utility	<ol> <li>Critical</li> <li>Urgent</li> <li>Necess</li> <li>ADA</li> </ol>	ary 3. Occasional 4. Infrequent	<ol> <li>Lower score equals higher priority.</li> <li>Project Cost includes 50.8% mark-ups and fees for Facility Condition Analysis.</li> </ol>						:her increase or decrease.					
Matrix     Matrix    Matrix <th>No.</th> <th>Item/Description</th> <th></th> <th>Location</th> <th></th> <th>Cons.</th> <th>Need</th> <th>Freq.</th> <th>Score</th> <th>Energ</th> <th>y Notes</th> <th></th> <th>Action</th> <th>Qty.</th> <th>Unit</th> <th></th> <th>-</th> <th></th> <th></th> <th>1</th> <th>2014 Project Cost</th>	No.	Item/Description		Location		Cons.	Need	Freq.	Score	Energ	y Notes		Action	Qty.	Unit		-			1	2014 Project Cost				
Abs						-	1	<b>r</b>			-			-	-		1			1	1				
A       A      A       A       A						1	4	1	6		Loose furniture and equipment no	+													
And       Sector Marcin M						1	4	1	6		Cabinets do not have required fire	rated		9	FA	\$ 2,350,00 \$ 21,150					\$ 31,894				
Add       A																φ 2,000,000 φ 21,100					¢ 01,07				
44       3       4       4       4       4       4       4       6		,				1		1	6		Required second exit from room to	corridor	· ·												
And       A	AB-6	Stair Handrail	Stair to	Staff Lounae	AB-6	1	4	1	6		,	tair. A	dd handrail.	14	FT	\$ 50.00 \$ 700					\$ 1,056				
Main       Mathemation       Main       Main <td></td> <td></td> <td></td> <td>0</td> <td></td> <td>1</td> <td>4</td> <td>1</td> <td>6</td> <td></td> <td>Guardrails do not meet current co</td> <td>de</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$ 11,310</td>				0		1	4	1	6		Guardrails do not meet current co	de									\$ 11,310				
Atm       Bin	AB-8	Barrier Free Toilet Room Doors	1st Floo	r	AB-8	1	4	2	7			chair A	add automatic door operators.	2	EA	\$ 1,500.00 \$ 3,000			\$ 1,200.00	\$ 2,400	0 \$ 8,143				
And Dep and Critital Binomic       Sum Max wright		0	_	0		1					· · ·		9	1							\$ 754				
Ach 1       Spand and weight spin spin spin spin spin spin spin spin	AB-10	Stair Handrail	Stair to	Staff Copy Room	AB-10	1	4	2	7	<u> </u>	Ű			12	LF	\$ 50.00 \$ 600					\$ 905				
4-10       Boile Marce Diagname       Control       Lo       Lo <thlo< th=""> <thlo< th="">       Lo       Lo</thlo<></thlo<>	AB-11	Boy's and Girl's Toilet Rooms	East an	d West Wings		1	4	2	7			fl	oor/wall/ceiling finishes, stalls and	900	SF	\$ 40.00 \$ 36,000	\$ 27	7.00 \$ 24,300	) \$ 4.20	\$ 3,780	96,633				
Verte         Vert         Vert <t< td=""><td></td><td></td><td></td><td></td><td>AB-12</td><td>1</td><td>4</td><td>1</td><td></td><td></td><td>· · ·</td><td></td><td></td><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>					AB-12	1	4	1			· · ·			6											
HECHANCY         View Indication         Prine Rulding         M-51         Lotation (Controls or Pice Rulding)         M-52         2         1         5         X         Indiving neumatic controls or auticide model (Rulding)         I/X         Rulding (Controls or Rulding)         I/X         Rulding (Rulding)         M-52         Z         1         5         X         Rulding (Rulding)         M-52         Z         I/X         Rulding (Rulding)         Rulding (Rulding)         I/X         Rulding (Rulding)         K         Rulding (Rulding) <thruldi (rulding)<="" th=""> <thr< th="">         Ruldi</thr<></thruldi>	AB-13	Barrier Free Toilet Paper Towel Dispenser	Girl's To	ilet 1st Floor			4	2	7		Paper towel dispenser mounted to	o high.	ower dispenser.		ΕA	\$ 50.00 \$ 50			Improvement/	uilding Code	\$ 150 770				
M54       Building Contrision       PMPe Allom       PMPe Allom       PMPe Allom       M61       2       2       1       5       X       Selfing parametric contrisis or pulsication       M614 regret parametric contrisis or pulsication       M614 regret parametric contrisis or pulsication       M614 regret parametric contrisis or pulsication       M617       K       X       Selfing parametric contrisis or pulsication       M617       K       X       Metric parametric contrisis or pulsication       M617       M617 </td <td>MECHAN</td> <td>ICAL SYSTEMS</td> <td></td> <td>300101</td> <td>ai - Accessibility</td> <td>improvement/</td> <td>Jolialing Code</td> <td>÷ Ş 130,770</td>	MECHAN	ICAL SYSTEMS															300101	ai - Accessibility	improvement/	Jolialing Code	÷ Ş 130,770				
MS3       Condencide Pipe       Entre Building       -       2       2       1       5       2       Biging condenside pipe maining       53       15       10       1       5       7       5       7       5       7       7       5       5       7       7       5       7       7       5       7       7       5       7       7       5       7 <th< td=""><td></td><td></td><td>Entire B</td><td>uilding</td><td>MS-1</td><td>2</td><td>2</td><td>1</td><td>5</td><td>Х</td><td>Existing pneumatic controls are ou</td><td>tdated. F</td><td>rovide new DDC controls throughout.</td><td>41,000</td><td>SF</td><td></td><td>\$</td><td>3.30 \$ 135,300</td><td>)</td><td></td><td>\$ 204,032</td></th<>			Entire B	uilding	MS-1	2	2	1	5	Х	Existing pneumatic controls are ou	tdated. F	rovide new DDC controls throughout.	41,000	SF		\$	3.30 \$ 135,300	)		\$ 204,032				
No. Solution (no. 1000)       No. 1000       No. 10000       No. 100000       No. 100000	MS-2	Steam Pipe	Entire B	uilding	MS-2	2	2	1	5	Х	Existing steam pipe is in poor conc	ition. R	eplace steam mains in tunnels.	520	LF		\$ 7.	5.00 \$ 39,000	)		\$ 58,812				
No.       Personation       Intersonation       Intersonatinstance       Intersonation	MS-3	Condensate Pipe	Entire B	uilding		2	2	1	5	х	Existing condensate pipe is in poo	CONDINON		520	2.		\$ 50	0.00 \$ 26,000	)		\$ 39,208				
NSS       Pie Ruliand       Fiel Building       <	MS-4	Steam Trap Maintenance	Entire B	uilding	MS-4	3	4	1	8	Х	Existing traps vary in age and con-	dition. R	eplace older traps in poor condition.	1	LS		\$ 18,500	0.00 \$ 18,500	)		\$ 27,898				
No. Column (numerication (n	MS-5	Pipe Insulation	Entire B	uilding	MS-5	4	4	1	9	х	с. С	on steam Ir	nstall new insulation and labels.	200	LF		\$ 9	2.00 \$ 1,800	)		\$ 2,714				
Ms-8       Vertical UV-HVAC       Infinite Series and series	MS-6	Classroom Unit Ventilators - Horizontal	Entire B	uilding	MS-6	3	3	1	7	х				s. 17	EA	\$ 7,500.00 \$ 127,500	\$ 23,000	0.00 \$ 391,000	\$ 235.00	\$ 3,995	5 \$ 787,922				
MAC       Gym MAC	MS-6A	Vertical UV - HVAC	Entire B	uilding		5	5	1	11	х	•	re neating v	entilators, exposed ductwork in high		EA	\$ 7,500.00 \$ 180,000	\$ 27,000	0.00 \$ 648,000	) \$ 2,373.00	\$ 56,952	2 \$ 1,334,508				
MS-8       Office FVAC       <	MS-7A	Gym HVAC	Gym			5	5	1	11	х	Existing gym unit is heating and ve only.			, 1	EA		\$ 51,000	0.00 \$ 51,000	\$ 8,010.00	\$ 8,010	) \$ 88,987				
MS-9       Corridor Heating and Ventilation Units       Roof       MS-9       4       4       2       10       X       second condition       Replace with like and kind.       3       EA       Corridor Median       5       27,000.0       5       5,000.0	MS-8	Office HVAC	Office			3	3	2	8	х	Office area lacks proper ventilation.		pproximate 2.5-ton unit thru wall ducte	ed 1	EA		\$ 17,500	0.00 \$ 17,500	\$ 2,787.00	\$ 2,787	7 \$ 30,593				
MS-YA       Control HVAC       Gol        -5       -5       -1       II       X       ventilation only.       each.       -5       -5       -5       -5       -5       -5       -5       -1       II       X       ventilation only.       each.       -5       5       -1       III       X       ventilation only.       each.       -5       5       -1       III       X       ventilation only.       each.       -5       5       -1       III       X       ventilation only.       each.       -5       5       000       \$       -5       5       000       \$       -5       000       \$       -10       0       0       0       0       10       0	MS-9	Corridor Heating and Ventilation Units	Roof		MS-9	4	4	2	10	х	Three rooftop units are beyond the life.	eir useful R	eplace with like and kind.	3	EA		\$ 27,000	0.00 \$ 81,000	\$ 3,230.00	\$ 9,690	) \$ 136,761				
Ms-10       Ms-10 <th< td=""><td>MS-9A</td><td>Corridor HVAC</td><td>Roof</td><td></td><td></td><td>5</td><td>5</td><td>1</td><td>11</td><td>х</td><td></td><td></td><td></td><td>s 3</td><td>EA</td><td>\$ 3,000.00 \$ 9,000</td><td>\$ 35,100</td><td>0.00 \$ 105,300</td><td>\$ 4,500.00</td><td>\$ 13,500</td><td>) \$ 192,722</td></th<>	MS-9A	Corridor HVAC	Roof			5	5	1	11	х				s 3	EA	\$ 3,000.00 \$ 9,000	\$ 35,100	0.00 \$ 105,300	\$ 4,500.00	\$ 13,500	) \$ 192,722				
MS-11       Root Exnaust Fans       Root       MS-11       4       4       1       9       useful life.       size is 600 CFM.       6       EA       1       9       1,500       \$       1,500       \$       1,500       \$       1,500       \$       1,500       \$       1,500       \$       3,0,00       \$       1,500       \$       3,0,00       \$       1,500       \$       3,0,00       \$       1,500       \$       3,0,00       \$       1,500       \$       3,0,00       \$       1,000       \$       3,0,00       \$       1,000       \$       3,0,00       \$       1,000       \$       3,0,00       \$       1,000       \$       3,0,00       \$       1,000       \$       3,0,00       \$       1,000       \$       3,0,00       \$       1,000       \$       3,0,00       \$       1,000       \$       3,0,00       \$       1,000       \$       3,0,00       \$       1,000       \$       3,0,00       \$       1,000       \$       3,0,00       \$       1,000       \$       3,0,00       \$       1,000       \$       3,0,00       \$       1,000       \$       3,0,00       \$       1,000       \$       1,000       \$	MS-10	Media Center HVAC	Roof		MS-10	4	4	1	9	х			ons each.	2	EA		\$ 18,000	0.00 \$ 36,000	\$ 4,500.00	\$ 9,000	) \$ 67,860				
						4		1	9		useful life.		ze is 600 CFM.	6			·								
Subtotal - Mechanical Systems \$ 2,091,	MS-12	Head End A/C	Header	nd Room		4	5	1	10		Some issues with existing unit.	li	nstall new split A/C unit approx 1.5 Tons	1	EA		\$ 8,500								

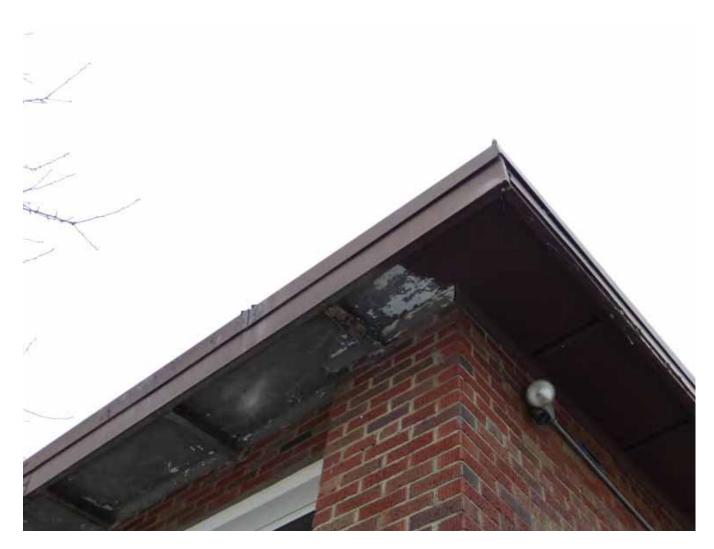
Address: 3849 Beverly, Berkley, Michigan								Building Deficiencie	es Priorities	s by Catego	bry				Notes									
Bldg. Are No. of Fl Year Bui	ea: 40,981 oors: 2	AB:     Accessibility Improvement/BL       AD:     Academic/Space Deficienci       BE:     Building Exterior       BI:     Building Interior       BS:     Building System       ES:     Electrical System       MS:     Mechanical System       PS:     Plumbing System       SC:     Site Circulation       SE:     Specialty Equipment/Other       IT:     Technology						1 2 3 4	Consequences of the Problem . Hazards . Interruption . Deterioration . Utility . Energy	Need 1. Critic 2. Urger 3. Nece 4. ADA 5. Desire	nt essary	2. 3.	<ol> <li>Energy column "X" refers to items that have an energy consumption impact, either increas</li> <li>Lower score equals higher priority.</li> <li>Project Cost includes 50.8% mark-ups and fees for Facility Condition Analysis.</li> <li>Project Cost includes 20.5% mark-ups and fees for technology.</li> </ol>						her increase or de	crease.				
No.	Item/Description	Location	Photo No.	Cons.	Need	Freq.	Score	Energ	gy Notes			Action	Qty.	Unit	Architectural Unit Cost Subtotal	N Unit C	Nechani ost	ical Subtotal	Elec Unit Cost	rical Subtotal	2014 Project Cost			
PLUMBING	G SYSTEMS			1		T			-		1		-			1			-	T	-			
PS-1	Sump Pump - West	West Tunnel	PS-1	3	3	5	11		West tunnel is generally wet.		Add drain west tunne	tile and sump pump to serve el.	1	LS		\$ 12,8	800.00	\$ 12,80	\$ 1,200.00	\$ 1,20	0 \$ 21,112			
PS-2	Sump Pump	Boiler Room	PS-2	3	3	5	11		Existing sump system is single pump, commercial.	, light	Replace w duplex syst	vith heavy duty commercial tem.	1	LS		\$ 4,4	00.00	\$ 4,40	\$ 1,200.00	\$ 1,20	0 \$ 8,445			
PS-3	Domestic Water Pipe	Entire Building	PS-3	2	3	1	6	х	80% of existing domestic water pipe galvanized steel.	e is	Replace w	vith copper pipe.	20,000	SF		\$	3.25	\$ 65,00	D		\$ 98,020			
PS-4	Water Meter Isolation Valves	Boiler Room	PS-4	2	3	5	10		Existing gate valves at water meter poor condition.	are in	Replace th	nree (3), 3" gate valves.	3	EA		\$ 2,7	/50.00	\$ 8,25	ס		\$ 12,441			
PS-5	Sanitary Pipe	Entire Building	PS-5	3	3	1	7		Sanitary pipe is in poor condition.		Replace a	accessible portions.	10,000	SF		\$	4.25	\$ 42,50	D		\$ 64,090			
PS-6	Water Cooler	Main Corridor		4	4	1	9		Limited number of drinking fountain corridors.	ıs in main	Add two (2	2) new water coolers.	2	EA	\$ 250.00 \$ 500	\$ 3,0	00.00	\$ 6,00	, , , , , , , , , , , , , , , , , , , ,					
	SYSTEMS																		Subtotal - Plum	bing System	s \$ 217,529			
	Fire Alarm System	Entire Building		2	3	3	8		Existing system is outdated and diffi	cult to	Install new	addressable system.	1	LS		1			\$ 88,109.00	\$ 88,10	9 \$ 132,868			
BS-2	Emergency Lighting	Corridors, Gym, Media Center		1	3	4	8		Spacing of existing battery units exc requirements.	ceeds	Install new	units in existing fixtures.	41	EA					\$ 300.00	\$ 12,30	0 \$ 18,548			
BS-3	Boiler Room EPO	Boiler Room		3	3	3	9		Boiler room does not have an emer power off system as required by co		Install Boile	er Room EPO system.	1	LS		\$ 2,7	20.00	\$ 2,72	D		\$ 4,102			
																			Subtotal - Bui	ding System	s \$ 155,519			
ELECTRIC	AL SYSTEMS			1		I					1		-			1			-	T	-			
ES-1	Electrical Distribution System	Boiler Room		2	3	1	6		Original electrical distribution equip obsolete and a safety concern.			ne original distribution t with new.	1	EA					\$ 24,500.00	\$ 24,50	0 \$ 36,946			
ES-2	Electrical Panels	Boiler Room	ES-2A ES-2B	2	5	1	8		Original electrical panels are obsol are sometimes located behind doc			ne original panels with new, nels in new locations.	7	EA					\$ 4,875.00	\$ 34,12	5 \$ 51,461			
ES-3	Electrical Receptacles	Child Use Areas		1	3	2	6		Electrical receptacles in child care are required to be inaccessible to o			Ill receptacles with tamper per receptacles.	20	EA					\$ 55.00	\$ 1,10	0 \$ 1,659			
ES-5	Exit Lighting Fixtures	Classrooms		4	3	4	11	х	Rooms over 1,000 SF require 2 exits v signs.	with Exit	Add exit siç	gns.	4	EA					\$ 300.00	\$ 1,20	0 \$ 1,810			
	Exterior Lighting	Exterior Doors		1	2	2	5	Х	Lighting fixtures are in disrepair.			vith more efficient LED fixtures.	7	EA						\$ 3,64				
ES-7	Site Lighting	Parking Lot		3	5	3	11	Х	Inadequate lighting.			vith more efficient LED fixtures.	3	EA	\$ 6,000.00 \$ 18,000				\$ 6,960.00	\$ 20,88	0 \$ 58,631			
ES-8	Uninterruptible Power Supply	Main Office		1	3	4	8		Maintain operation during power interruptions		Provide 5 k PA and Ph	<pre><va entry,="" fob="" key="" ones<="" pre="" serve="" to="" ups=""></va></pre>	1	EA					\$ 11,300.00	\$ 11,30	0 \$ 17,040			
																			Subtotal - Elec	rical System	s \$ 173,035			
	IC/SPACE DEFICIENCIES	Building Addition		4	3	1	8		Existing space is inadequate.		the current as sensory	fine arts wing. This will free up t art spaces for new uses such rooms, kindergarten rooms, Is, storage, etc.	6,075	SF	\$ 225.00 \$1,366,875						\$ 2,061,248			
AD-2	Dedicated Cafeteria	Building Addition		4	3	1	8		Existing building lacks dedicated co	afeteria.	Build new	cafeteria.	6,250	SF	\$ 250.00 \$1,562,500						\$ 2,356,250			
AD-3	New Large Group Instruction	Building Addition		4	3	1	8		Existing building lacks dedicated la instructional space.	rge	Build new I	large group instruction suite.	2,500	SF	\$ 200.00 \$ 500,000						\$ 754,000			
AD-4	Sensory Room	Old Music Room		4	3	1	8		Existing building lacks a dedicated room.		Renovate	music room to be sensory roon	n. 700	SF	\$ 100.00 \$ 70,000			U			\$ 105,560			
AD-5	New Science Lab	Building Addition		4	3	1	8		Existing building lacks dedicated sc lab.	ience	Build new :	science lab.	1,620	SF	\$ 300.00 \$ 486,000						\$ 732,888			
																	Su	ubtotal - A	cademic/Space	Deficiencie	s \$ 6,009,946			

Address	· 3849 Beverly Berkley Michigan		Iten	n No. Code	s					Building Deficience							
Address: 3849 Beverly, Berkley, Michigan Bldg. Area: 40,981 No. of Floors: 2 Year Built: 1921 Evaluation Date: January 2014		AB: AD: BE: BI: BS: ES: MS: PS: SC: SE: IT:	Accessibility Improvement/B Academic/Space Deficienci Building Exterior Building Interior Building System Electrical System Plumbing System Site Circulation Specialty Equipment/Other Technology							Consequences of the Problem - Hazards - Interruption - Deterioration - Utility - Energy	Need 1. Critic 2. Urget 3. Nece 4. ADA 5. Desire	nt essary	Frequency of Use 1. Constant 2. Frequent 3. Occasional 4. Infrequent 5. Meager	2. Lo 3. Pi	ower score	e equals t include	efers to items that hav higher priority. ss 50.8% mark-ups and ss 20.5% mark-ups and
No.	Item/Description		Location	Photo No.	Cons.	Need	Freq.	Score	Energ	ly Notes			Action		Qty.	Unit	Architectura Unit Cost Sub
SITE CIRC	CULATION					•				-					•		
SC-1	Parking	Site			4	4	1	9		Quantity of parking is inadequate			itional parking to the site. the right is an allowance.		1	LS	\$ 17
SC-2	Student Drop-off	Site			4	4	1	9		Student drop-off is inadequate.			dify student drop-off to the own to the right is an allov		1	LS	\$ 12
				8	8					3		8			8		l
TECHNOL	OGY									-		1					
IT-1	Refer to Tab 12 for breakdown																
1																	

Note: Shaded items are shown for reference only and not included in the deficiency total.

	Notes												
ve an er	e an energy consumption impact, either increase or decrease.												
	fees for Facility Condition Analysis. fees for technology.												
I	Mechanical         Electrical         2014           otal         Unit Cost         Subtotal         Unit Cost         Subtotal         Project Cost												
total	Unit Cost	Subtotal	Unit Cost	Subtotal	PIO	ject Cost							
	P			-									
75,000					\$	263,900							
25,000					\$	188,500							
			Subtotal - Sit	e Circulation	\$	452,400							
			Tec	hnology Total	\$	672,330							

Total Project Cost \$10,658,461





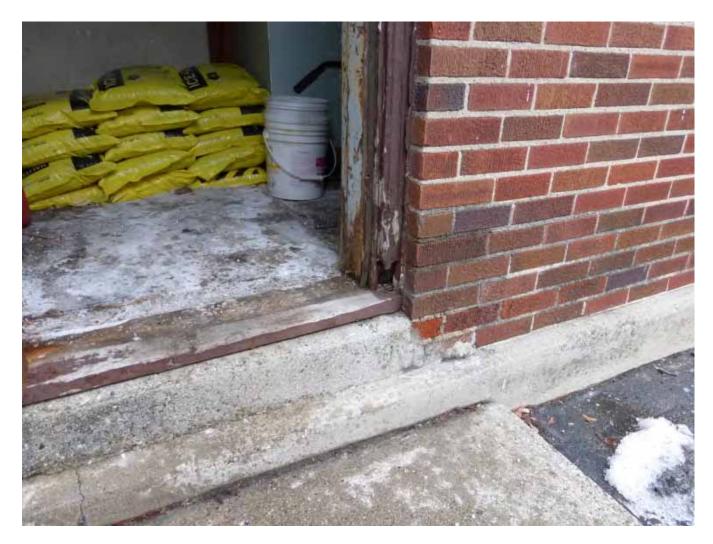




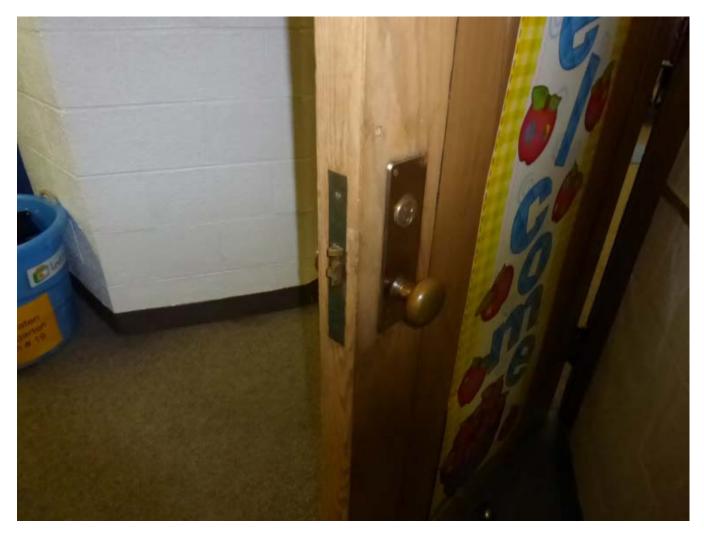






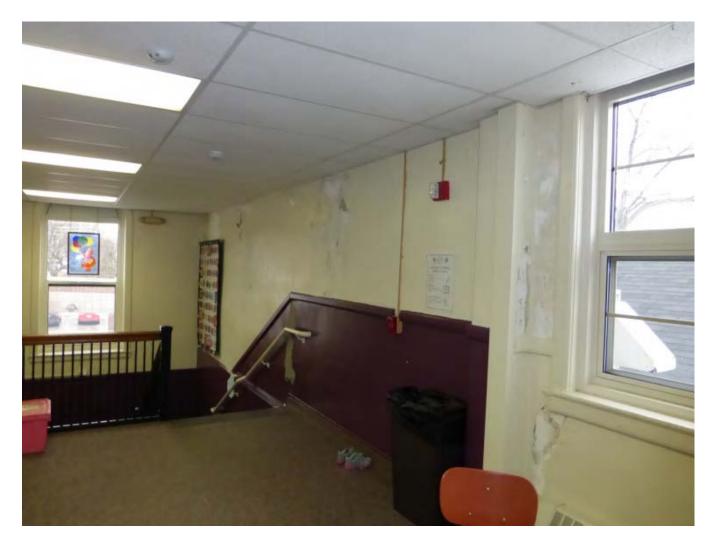








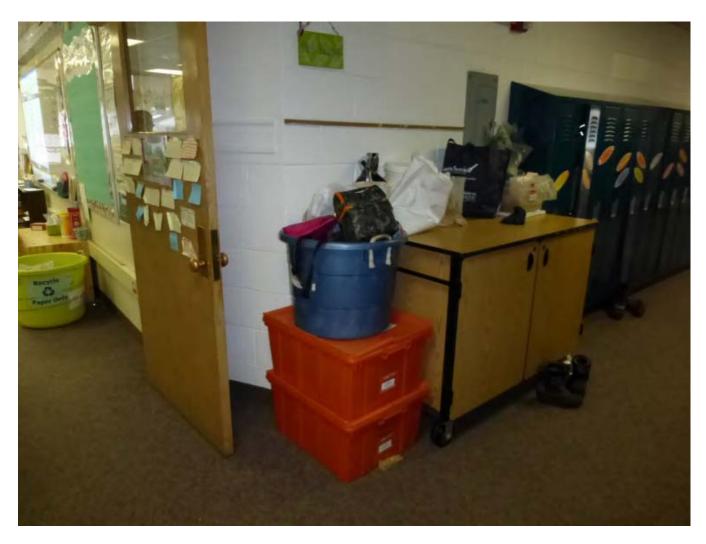


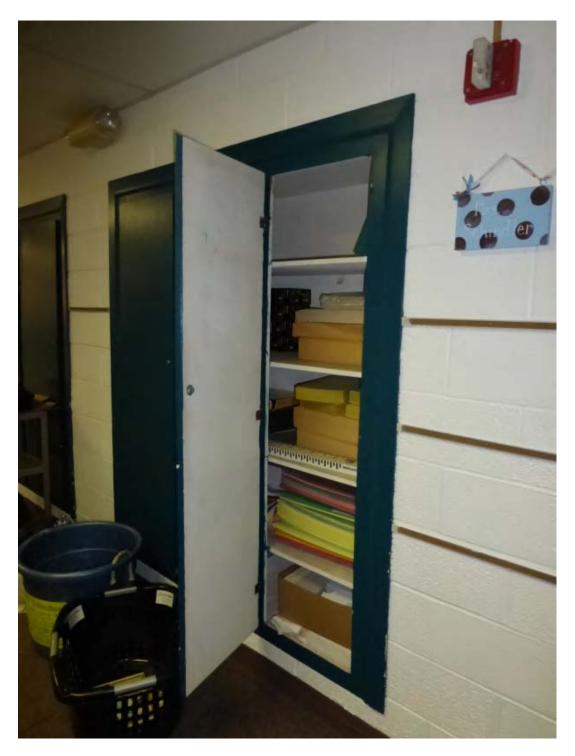




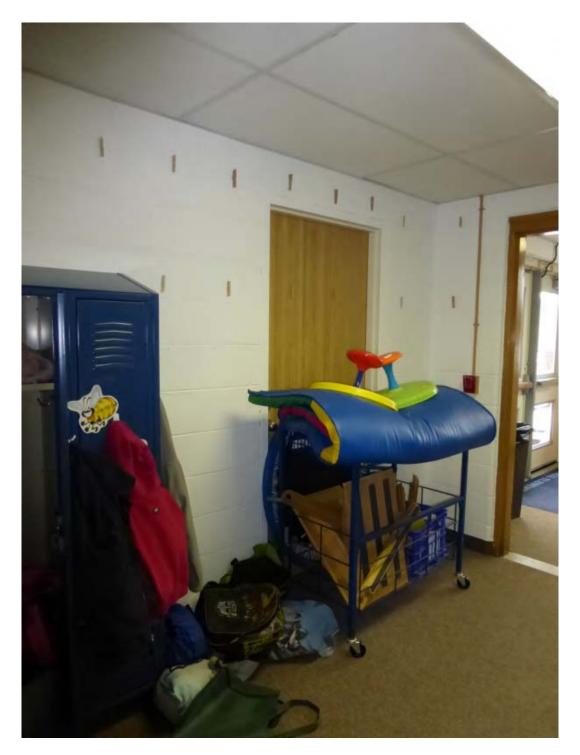




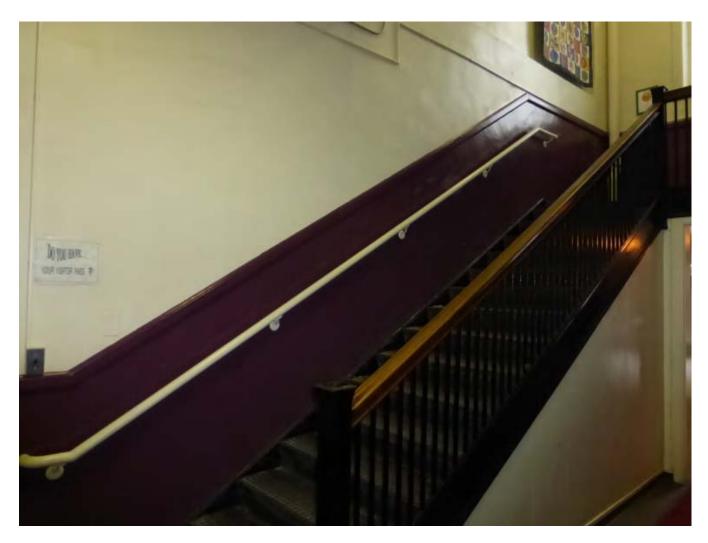


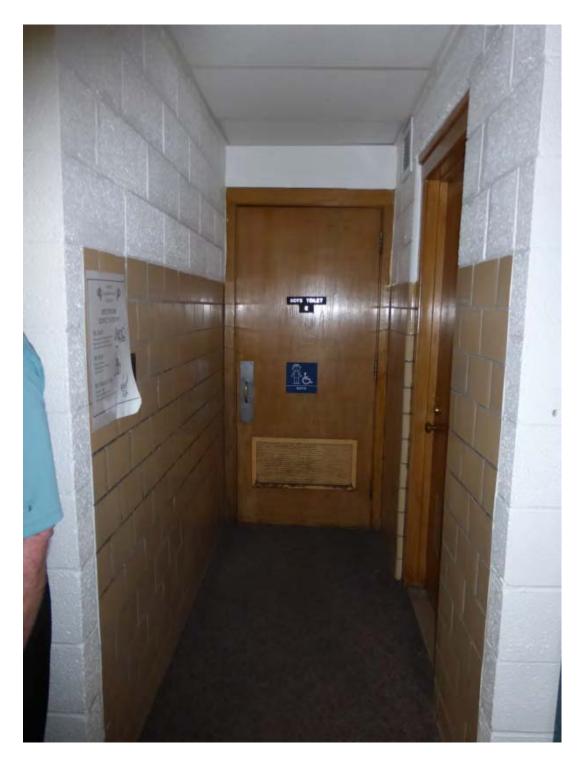






















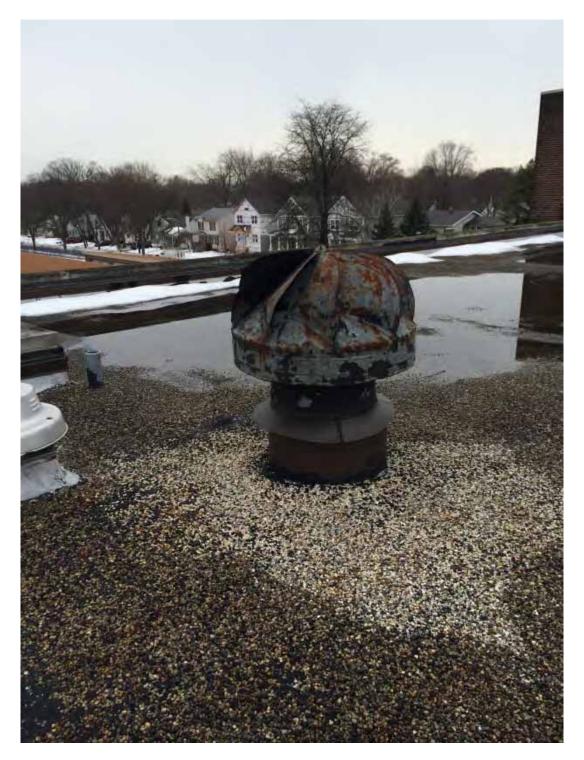








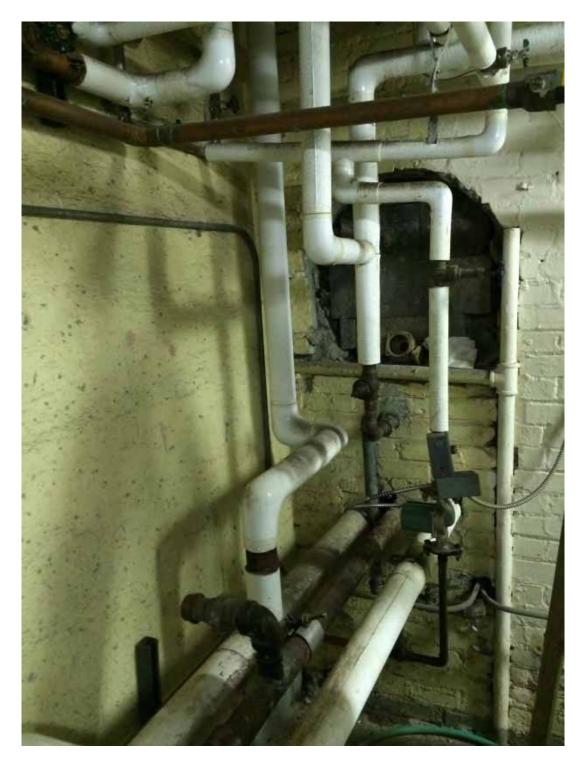




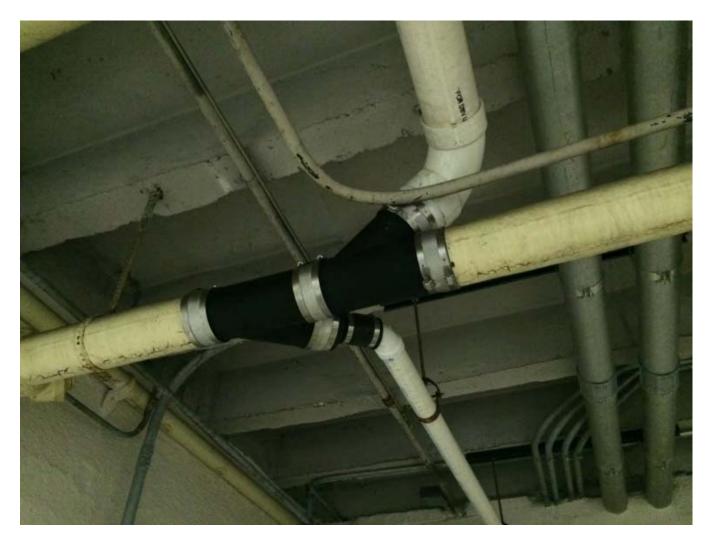
MS-11













ES-2A



ES-2B

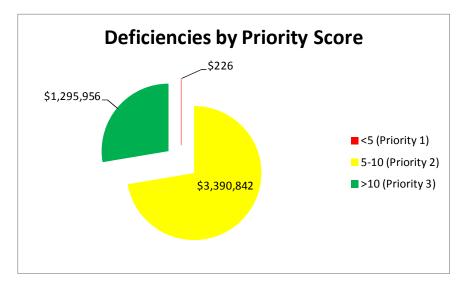


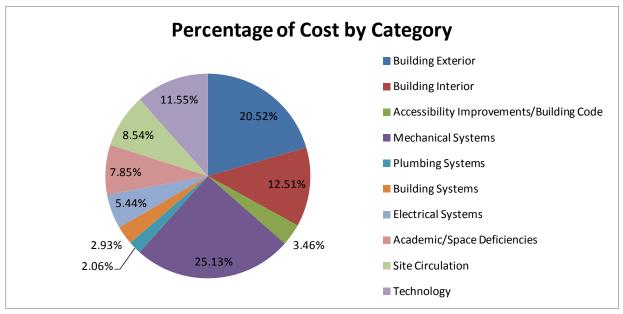
### **GENERAL OVERVIEW**

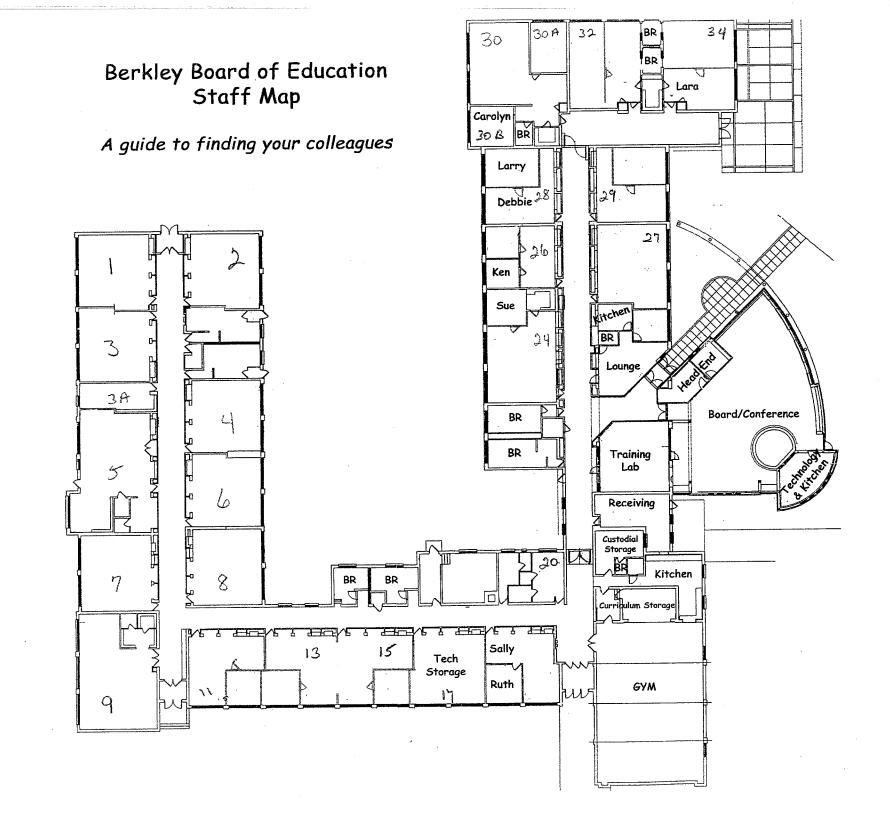
Use:	Administrative
Year Built:	1953
Total Area:	37,307 GSF
Floors:	1

### **MAJOR FINDINGS**

Refer to the following charts for a summary of deficiencies by category and priority score. Note: Lower priority score equals highest urgency.









#### Avery Center

Addross	14700 Lincoln, Oak Bark, Michigan	Iten	n No. Code	s					Building Deficienci	es Priorities by	Category	Notes											
Address: 14700 Lincoln, Oak Park, Michigan Bldg. Area: 37,307 GSF No. of Floors: 1 Year Built: 1953 Evaluation Date: January 2014		AB:       Accessibility Improvement/But         AD:       Academic/Space Deficienci         BE:       Building Exterior         BI:       Building Interior         BS:       Building System         ES:       Electrical System         MS:       Mechanical System         SC:       Site Circulation         SE:       Specialty Equipment/Other         IT:       Technology						1. 2. 3. 4.	Consequences of the ProblemNeed1. Hazards1. Critical2. Interruption2. Urgent3. Deterioration3. Necessai4. Utility4. ADA5. Energy5. Desirable		2. Ld 3. Pr 4. Pr 3. Occasional 4. Infrequent	<ol> <li>Energy column "X" refers to items that have an energy consumption impact, either increase or decrease.</li> <li>Lower score equals higher priority.</li> <li>Project Cost includes 50.8% mark-ups and fees for Facility Condition Analysis.</li> <li>Project Cost includes 20.5% mark-ups and fees for technology.</li> </ol>											
No.	Item/Description	Location	Photo No.	Cons.	Need	Freq.	Score	Energ	y Notes		Action	Qty.	Unit	Architectural Unit Cost Subtotal	Mecha Unit Cost	nical Subtotal	Elec Unit Cost	trical Subtotal	2014 Project Cos				
BUILDING	EXTERIOR			1								-				-							
	Overhangs/Soffits Brick Veneer at Base of Walls	Entire Building Where roofs drain to grade adjacent to walls	BE-1 BE-2	3 3	3 3	2	8 8		Paint is peeling and steel is rusted. Brick and mortar joints deteriorated roof water drainage.	d from Co	ovide aluminum soffit panels. Introl roof drainage where possible d clean/tuck point brick.	2,200		\$         6.00         \$         13,200           \$         10.50         \$         28,875					\$ 19,90 \$ 43,54				
BE-3	Sealant at Door and Window Openings	Entire Building		3	3	2	8		Sealant deteriorated and cracked		place sealant.	1,400	LF	\$ 4.75 \$ 6,650					\$ 10,02				
BE-4	Aluminum Windows	Media Center	BE-4	4	5	2	11	ļ	Paint finish peeling.		int window frames.	650	LF	\$ 5.50 \$ 3,575					\$ 5,39				
BE-5 BE-6	Glass Block Windows Steel Lintels at Wall Openings	North Elevation Media Center	BE-5 BE-6	4	3	2	9		Broken glass block. Steel is rusted.		place glass block. int lintels.	20 60	SF SF	\$ 50.00 \$ 1,000 \$ 18.00 \$ 1,080					\$ 1,50 \$ 1,62				
BE-7	Steel Doors and Frames	Entire Building	BE-7	3	3	1	7		Deteriorated and rusted.	Rep	place with aluminum frames and erglass reinforced panel doors.	5	EA	\$ 2,800.00 \$ 14,000					\$ 21,11				
BE-8	Clerestory Windows	Classrooms	BE-8	4	5	2	11	х	Single glazed glass.	-	place with aluminum frames and ulating glass.	400	SF	\$ 80.00 \$ 32,000					\$ 48,25				
BE-9	Entrance Canopy Soffits	Building Entrances	BE-9A BE-9B	3	3	2	8		Deteriorated and paint is peeling.		ovide aluminum soffit panels.	1,600	SF	\$ 7.50 \$ 12,000					\$ 18,09				
BE-10	Roof Membrane	Selected Areas		3	3	2	8	х	Roof membrane reaching its life expectancy.		move and replace with new insulation d single ply membrane.	14,060	SF	\$ 10.00 \$ 140,600					\$ 212,02				
BE-11	Entrance Canopy Columns	Media Center, South and Southeast Entrances	BE-11	3	3	2	8		Steel is rusted.		int columns.	19	EA	\$ 75.00 \$ 1,425					\$ 2,14				
BE-12	Roof Drainage	Various Locations	BE-12A BE-12B	3	3	2	8		Roof drainage spills onto brick cau deterioration.	Co	rrect roof drainage, clean/repair brick.	c. 2,400	SF	\$ 10.50 \$ 25,200					\$ 38,00				
BE-13	Roof Downspout	East Elevation of Gymnasium	BE-13A BE-13B	3	3	2	8		Leaking roof downspout causing a to brick and interior masonry.	damage Rep	pair downspout.	50	LF	\$ 12.00 \$ 600					\$ 90				
	Site Drainage	South Elevation	BE-14	2	3	1	6		Roof drainage ponds along buildin	- -	d landscape drain tile to storm system.			\$ 15.00 \$ 43,500 <b>(</b> 05.00 <b>(</b> 05.00)					\$ 65,59				
BE-15 BE-16	Brick Veneer Exposed Steel Frames	Various Locations Media Center Roof	BE-15 BE-16	3	3	2	8		Brick cracked and mortar is missing Steel is rusting.		place brick and tuckpoint joints.	100 40	SF LF	\$         25.00         \$         2,500           \$         10.00         \$         400					\$ 3,77 \$ 60				
BE-17	Aluminum Windows	Entire Building Excluding Media Center	-	4	5	2	11		Windows have operational issues of hardware is difficult to obtain.	and	move and replace aluminum windows.			\$         70.00         \$         361,900					\$ 545,74				
BE-18	Add Daylighting	Gymnasium		4	5	3	12		Owner requested.		move metal panels and provide iminum windows.	408	SF	\$ 80.00 \$ 32,640					\$ 49,22				
																	Subtotal - Bu	liaing Exterior	\$ 1,087,48				
	Original Wood Doors and Frames	Entire Building	BI-1	4	3	1	8		Deteriorated, nonfunctional and c meet current code requirements.		place with wood doors and hollow atal frames.	60	EA	\$ 2,350.00 \$ 141,000					\$ 212,62				
BI-2	Plastic Laminate Counter Tops	Classrooms	BI-2	4	3	2	9		Delaminating.		place with solid surface material. New ks with point of use TMV.	332	LF	\$ 150.00 \$ 49,800	\$ 65.00	\$ 21,580			\$ 107,64				
BI-3	Carpet	Corridors	BI-3	3	3	1	7		Carpet reaching life expectancy.		place carpet and resilient base.	6,080	-	\$ 7.00 \$ 42,560					\$ 64,18				
BI-4	Lay-in Acoustical Ceilings	Corridors	BI-4	4	5	1	10	<u> </u>	Poor condition.		place acoustical ceilings and grid.	6,080	SF	\$ 5.75 \$ 34,960					\$ 52,72				
BI-5	Water Damage	East Wall of Gymnasium	BI-5	3	3	2	8		Damage as result of leaking down exterior.	Rep	pair wall and paint.	1	LS	\$ 500.00 \$ 500					\$ 75				
BI-6	Original Acoustical Tile Ceilings	Classrooms and Offices	BI-6	4	5	1	10		Poor condition.	cor	place with acoustical panels with ncealed grid and new lighting (existing oustic tile to remain).	g 10,640	SF	\$ 5.00 \$ 53,200			\$ 9.00	\$ 95,760	\$ 224,63				
BI-7	Room Access	Head End Room		4	3	1	8		Access is limited.	Ade	d door and frame into corridor.	1	EA	\$ 3,800.00 \$ 3,800									
BI-8	Room Security	Head End Room		1	1	1	3		Key type is not unique to authorize (typical for all buildings).	ed staff Rec	core door lock.	2	EA	\$ 75.00 \$ 150					\$ 22				
																	Subtotal - Bu	ilding Interior	\$ 662,78				



### Integrated Design Solutions, LLC

### Avery Center

	14700 Lincoln Only Dark Michigan		Iten	m No. Code	s					Building Deficiencies Priorities by Category						Notes											
Bldg. Ar No. of F Year Bu	Set Soliding Exterior					1. 2. 3. 4.	Consequences of the Problem Hazards Interruption Deterioration Utility Energy	zards       1. Critical       1. Constant       2. Lower score equals higher priority.         zards       1. Critical       1. Constant       2. Frequent         zerroption       2. Urgent       3. Occasional       4. Infrequent							• •												
No.	Item/Description		Location	Photo No.	Cons.	Need	Freq.	Score	Energ	yy Notes			Action	Qty.	Unit	Archit Unit Cost	tectural Subtotal	Mecho Unit Cost	anical Subtotal	Elec <sup>-</sup> Unit Cost	rical Subtotal	2014 Project Cost					
ACCESS	BILITY IMPROVEMENT/BUILDING CODE																oobioidi	01111 00001	oobioidi	0111 00001	00010101						
AB-1	Furniture and Equipment	Corrido	Drs	AB-1A AB-1B	1	4	1	6		Loose furniture and equipment not permitted in corridors.	h	Remove fu	rniture and equipment.														
AB-2	Display Case	Corrido	ors	AB-2	1	4	1	6		Height and depth creates a protrue object under barrier free code.	ding /	Add side w	vings to floor.	1	LS	\$ 200.00	\$ 200					\$ 302					
AB-3	Chair and Table Storage Under Stage	Gymno	asium		1	4	2	7		Code violation considering current construction of stage.	L	Limit storag	ge to non-combustible iter	ns													
AB-4	Boy's and Girl's Toilet Rooms	Various Locations		AB-3	1	4	2	7		Toilet rooms do not meet current accessibility requirements.	f	floor/wall/	w plumbing fixtures, lightin ceiling finishes, stalls and door operators.	ng, 1,410	SF	\$ 55.00	\$ 77,550	\$ 27.00	\$ 38,070	\$ 4.20	\$ 5,922	\$ 183,285					
Subtotal - Accessibility Improvements/Building Code \$ 183, MECHANICAL SYSTEMS															\$ 183,587												
-	Building Controls	Entire P	Building		2	2	1	5	X	Existing controls are outdated.	F	Provide ne	w DDC controls througho	ut. 37,000	) SF	1		\$ 3.32	\$ 122,840			\$ 185,243					
	Boilers	Boiler R	0	MS-2	2	2	1	5	x	Existing boilers are 59 years old; be their useful life.	yond T	Two (2) ne <sup>.</sup> New HWH	w boilers at 2,500 MBH ea pumps. New HWH mains n air intake and stacks.	ch.	LS				\$ 251,000	\$ 2,700.00	\$ 2,700	\$ 382,580					
MS-3	Hot Water Heating Pumps	Boiler 🗟	Room	MS-3	2	2	1	5		Three (3) of four (4) inline split case are in poor condition.		Replace w associated	rith like and kind with all I trim.	3	EA			\$ 15,600.00	\$ 46,800	\$ 1,350.00	\$ 4,050	\$ 76,682					
MS-4	Pipe Insulation	Entire E	Building	MS-4	4	4	4	12	Х	Several areas of missing piping insu			pipe insulation.	200	LF			\$ 3.25	\$ 650			\$ 980					
MS-5	Gym Air Handling Unit	Fan Ro	oom Both Sides of Stage		2	2	1	5	Х	Existing indoor heating and ventilat units are in poor condition.	2	2,000 CFM		2	EA			\$ 39,000.00	\$ 78,000	\$ 3,360.00	\$ 6,720	\$ 127,758					
MS-5A	Gym HVAC	Roof			5	5	1	11	х	Existing gym unit is heating and ver only.	0	Add DX roo ductwork.	oftop unit with new distrib	ution 1	LS	\$18,000.00	\$ 18,000	\$ 51,067.00	\$ 51,067	\$ 8,010.00	\$ 8,010	\$ 116,232					
MS-6	Roof Mounted Heating and Ventilating Units	Roof		MS-6	4	4	1	9	Х	Seven (7) heating and ventilating r units are beyond their useful life.	h		ith like and kind; 3,000 CF		EA			\$ 22,000.00	\$ 154,000	\$ 2,325.00	\$ 16,275	\$ 256,775					
MS-6A	Roof Mounted HVAC	Roof			5	5	1	11	Х	Existing seven (7) units are heating ventilating only.	ir	Replace ex insulated d	xisting units with HVAC an luctwork.	d 7	EA	\$ 3,000.00	\$ 21,000	\$ 35,000.00	\$ 245,000	\$ 4,500.00	\$ 31,500	\$ 448,630					
MS-7	Roof Hoods and Exhaust Fans	Roof			4	4	2	10		Five (5) existing hoods or relief exha are in poor condition.	F	·	rith like and kind.	5	EA				\$ 16,500	\$ 175.00	-	\$ 26,202					
MS-8	Board Room HVAC	Roof			5	5	2	12		Office rooftop unit is beyond its use		Replace w	rith like and kind; 10-ton u	nit. 1	EA			\$ 27,000.00	\$ 27,000	\$ 4,500.00	\$ 5,510	\$ 49,025					
MS-9	Ceiling Hung Unit Ventilator	Lounge	e	MS-9	4	4	3	11		Lounge ceiling hung HVAC unit ver in fair to poor condition.	h	-	ith like and kind; 2.5-ton u	nit. 1	EA			\$ 15,000.00	\$ 15,000	\$ 5,275.00	\$ 6,535	\$ 32,475					
MS-10	Head End Air Conditioning	Head E	End Room		4	5	1	10		Some issues with existing unit.			split air conditioning unit; Itely 1.5-tons.	1	EA			\$ 8,500.00		-	-	\$ 13,572					
PLIIMRIN	IG SYSTEMS																		Sub	total - Mechai	ical Systems	\$ 1,331,620					
PS-1	Domestic Water Pipe	Miscell	aneous		2	3	1	6		40% existing galvanized pipe.	R	Replace w	rith copper pipe.	15,000	) SF	\$ 0.50	\$ 7,500	\$ 3.25	\$ 48,750			\$ 84,825					
PS-2	Water Meter Isolation Valves	Boiler R		PS-2	2	3	5	10		Existing gate valves are in poor con			nree (3) 3" gate valves.	3	EA				\$ 5,490			\$ 8,279					
PS-3	Water Coolers	Main C	Corridor	PS-3	4	4	1	9		Single bubbler is in fair to poor con	dition	Install new cooler.	bi-level electric water	2	EA	\$ 250.00	\$ 500	\$ 3,900.00		\$ 1,200.00							
	G SYSTEMS																		5	ubtotal - Plum	oing Systems	\$ 109,240					
	Fire Alarm System	Entire B	Building		2	3	3	8		Existing system is outdated and diff maintain.			addressable system with CO detectors for Day Co	are.	LS					\$ 91,402.00	\$ 91,402	\$ 137,834					
BS-2	Emergency Lighting		ors, Gym and 'Conference		1	3	4	8		Spacing of existing battery units ex- requirements.	ceeds II	Install new	units in existing fixtures.	30	EA					\$ 300.00	\$ 9,000	\$ 13,572					
BS-3	Boiler Room Emergency Power Off	Boiler 🗟	Room		3	3	3	9		Missing emergency power off syste required by Code.	em as II	Install new	EPO system.	1	LS			\$ 2,720.00	\$ 2,720			\$ 4,102					
																				Subtotal - Buil	ding Systems	\$ 155,508					

### Avery Center

Address	: 14700 Lincoln, Oak Park, Michiaan		Iten	m No. Code:	S					Building Deficiencies Priori	gory	Notes												
Address: 14700 Lincoln, Oak Park, Michigan Bldg. Area: 37,307 GSF No. of Floors: 1 Year Built: 1953 Evaluation Date: January 2014			AD:       Academic/Space Deficiencies         BE:       Building Exterior         BI:       Building Interior         BS:       Building System         ES:       Electrical System         MS:       Mechanical System         AS:       Mechanical System         AS:       Mechanical System         AS:       Mechanical System         AS:       Mechanical System						1 2 3 4	1 Hazards 1 Critical 1 Constant			<ol> <li>Energy column "X" refers to items that have an energy consumption impact, either increase or decrease.</li> <li>Lower score equals higher priority.</li> <li>Project Cost includes 50.8% mark-ups and fees for Facility Condition Analysis.</li> <li>Project Cost includes 20.5% mark-ups and fees for technology.</li> </ol>											
No.	Item/Description		Location	Photo No.	Cons.	Need	Freq.	Score	Energ	gy Notes		Action	Qty.	Unit	Archit Unit Cost	ectural Subtotal	Mecha Unit Cost	nical Subtotal	Elect Unit Cost	rical Subtotal		2014 Dject Cost		
ELECTRIC	CAL SYSTEMS																							
ES-1	Electrical Distribution System	Boiler R	loom	ES-1	2	3	1	6		Original electrical distribution equipment is obsolete and a safety concern.		the original distribution ent with new.	1	EA					\$ 24,500.00	\$ 24,50	00 \$	36,946		
ES-2	Electrical Panels	Corrido	ors to Serve Classrooms	ES-2A ES-2B	2	5	1	8		Original electrical panels are obsolete and are located behind doors.		e the original panels with new, anels in new locations.	6	EA					\$ 4,875.00	\$ 29,2	50 \$	44,109		
ES-3	Electrical Receptacles	Child Use Areas			1	3	2	6		Electrical receptacles in child care center are required to be inaccessible to children		e all receptacles with tamper type receptacles.	60	EA					\$ 55.00	\$ 3,30	00 \$	4,976		
ES-4	Exterior Lighting	Exterior			1	2	2	5	Х	Lighting fixtures are in disrepair.		with more efficient LED fixtures.	14	EA					\$ 520.00	\$ 7,28	80 \$	10,978		
ES-5	Site Lighting	Parking	j Lot		3	5	2	10	Х	Inadequate lighting.	-	with more efficient LED fixtures.	4	EA	\$ 6,000.00	\$ 24,000			\$ 6,960.00	\$ 27,84	40 \$	78,175		
ES-6	Back-up Generator	Outdoo Room	ors on Grade by Boiler		1	3	4	8		No back-up power for District wide data operations.		generator back-up system to cks. 15 kVA, 3 Phase	1	LS	\$ 500.00	\$ 500	\$ 2,200.00	\$ 2,200	\$ 25,250.00	\$ 25,2	50 \$	42,149		
ES-7	Storage in Electrical Rooms	Main El	ectrical Room	ES-7A ES-7B	4	5	5	14		Code violation.	Store iter	ms elsewhere.												
ES-8	Uninterruptible Power Supply	Head E	nd Room		1	3	4	8		No protection against short power interruptions	starts	UPS to serve racks until generate	r 1	EA					\$ 30,815.00	\$ 30,8	5 \$	46,469		
ES-9	Electrical Panel	Head E	nd Room		1	3	1	5		Technology circuits are serving non technology loads.		nel and move non-technology om technology panels.	1	EA					\$ 4,875.00	\$ 4,8	75 \$	7,352		
ES-10	Uninterruptible Power Supply	Main O	Office		1	3	4	8		Maintain operation during power interruptions	Provide & PA and F	5 kVA UPS to serve Key Fob entry Phones	, 1	EA					\$ 11,300.00					
																		9	Subtotal - Elect	rical System	is Ş	288,194		
ACADEN AD-1	Child Care Room Toilets	Child C	Care Room		4	3	1	8		There are currently no tiliet rooms in the do	<sup>yy</sup> Add toile	ets to each child care room.	720	SF	\$ 175.00	\$ 126,000	Ι				\$	190,008		
AD-2	Toilet Room Renovation	Admini	stration Side		4	3	1	8		Toilet rooms surrently have child sized fixtures.	Renovat	te toilet rooms.	1,000	SF	\$ 150.00	\$ 150,000					\$	226,200		
					I												S	ubtotal - Acc	ademic/Space	Deficiencie	s Ş	416,208		
SITE CIRC		T					1		1				<b>—</b>				1			1	1			
SC-1	Parking	Site			4	4	1	9		Quantity of parking is inadequate.		ditional parking to the site. Figure o the right is an allowance.	9 1	LS		\$ 175,000					\$	263,900		
SC-2	Student Drop-off	Site			4	4	1	9		Student drop-off is inadequate.		odify day care drop-off to the site nown to the right is an allowance		LS		\$ 125,000					\$	188,500		
																			Subtotal - Sit	e Circulatio	n \$	452,400		
TECHNO		I		1					1		-		1	<b>1</b>		1								
IT-1	Refer to Tab 12 for breakdown	<u> </u>							<u> </u>				_			ļ	l		L	 				
	aded items are shown for reference only and n																		Tec	hnology To	al Ş	612,055		

Note: Shaded items are shown for reference only and not included in the deficiency total.

Total Project Cost \$ 5,299,079

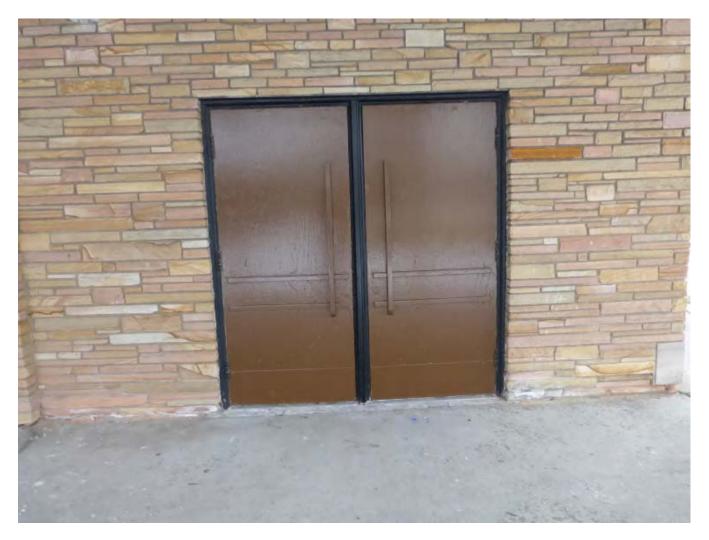














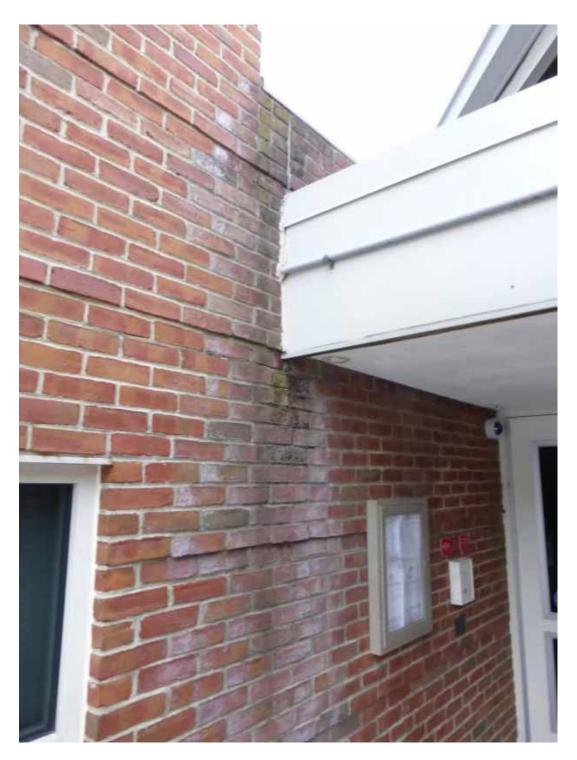


BE-9A



BE-9B





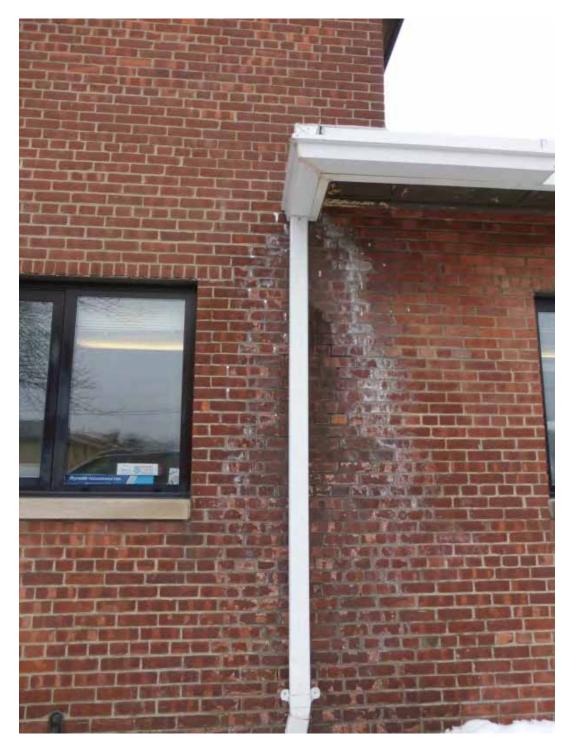
BE-12A



BE-12B



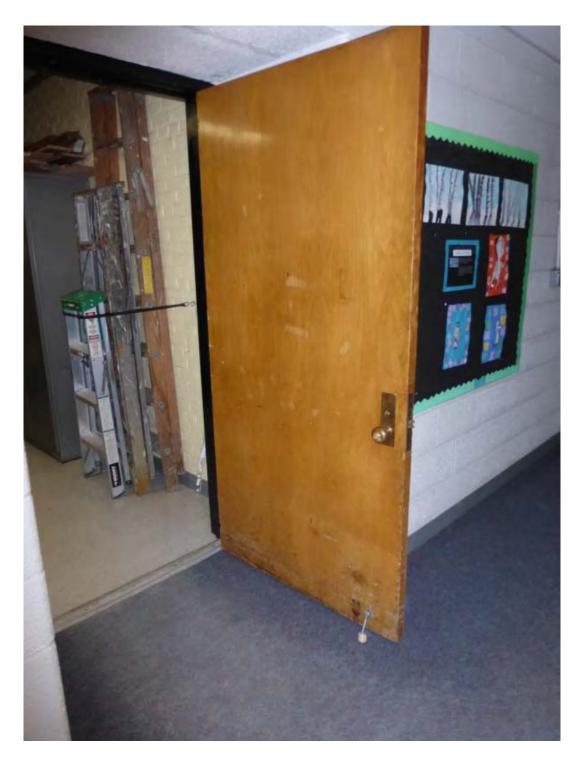
BE-13A

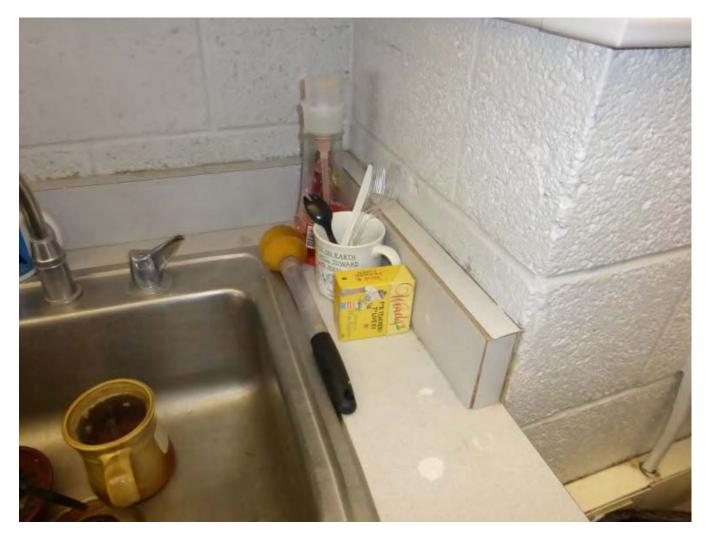


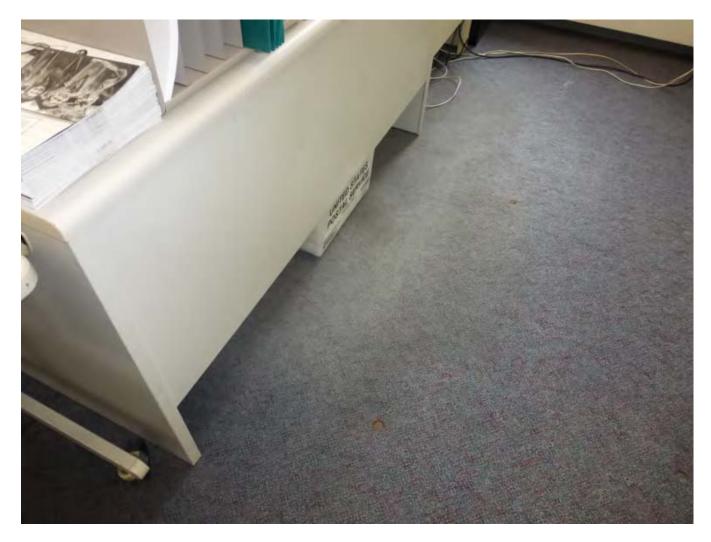
BE-13B



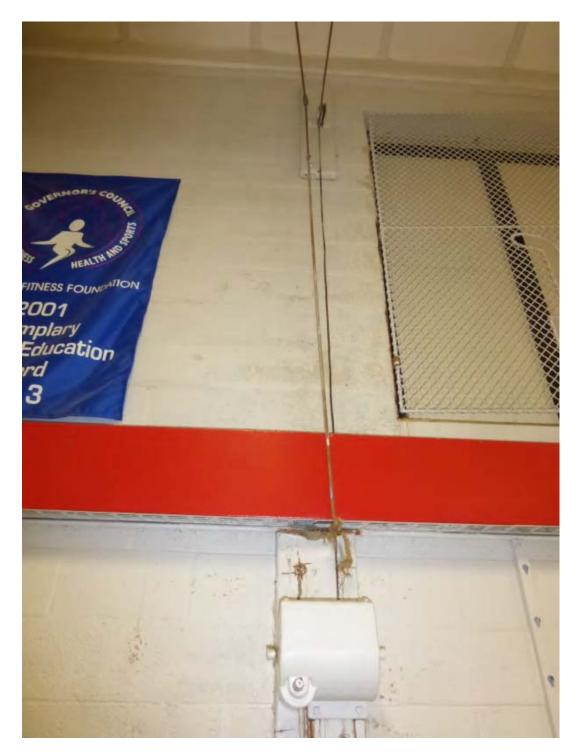




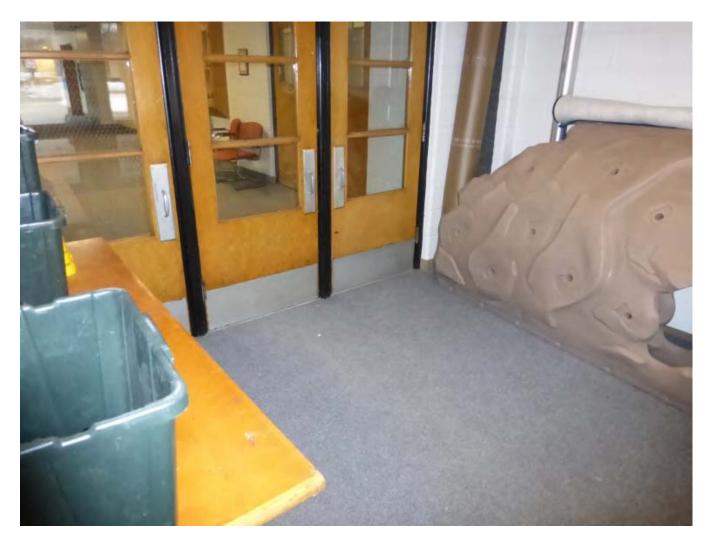




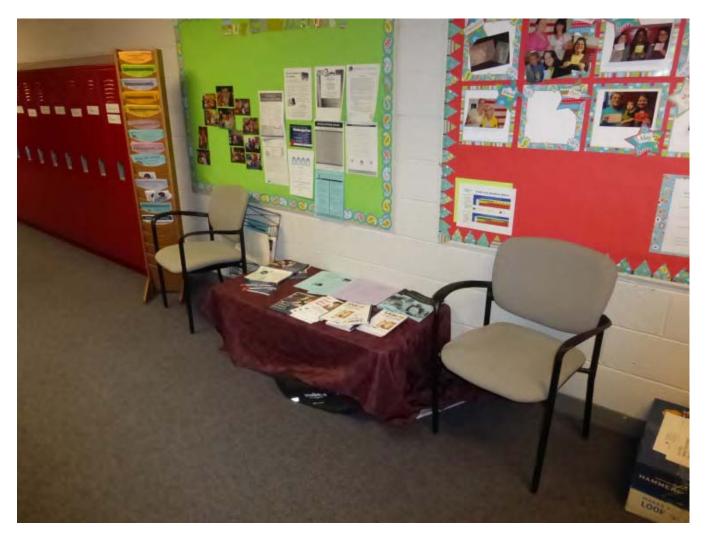








AB-1A



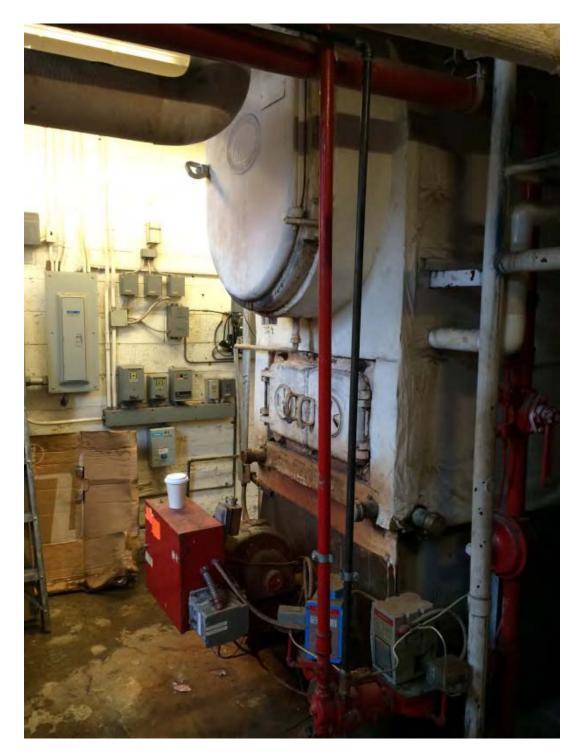
AB-1B

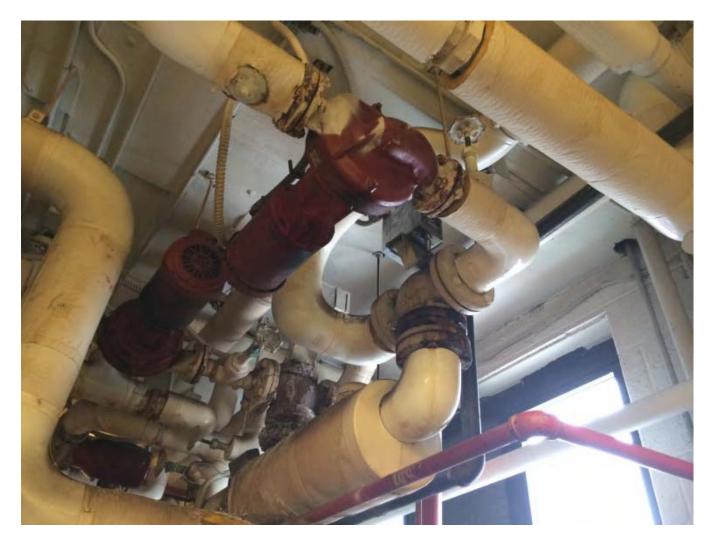


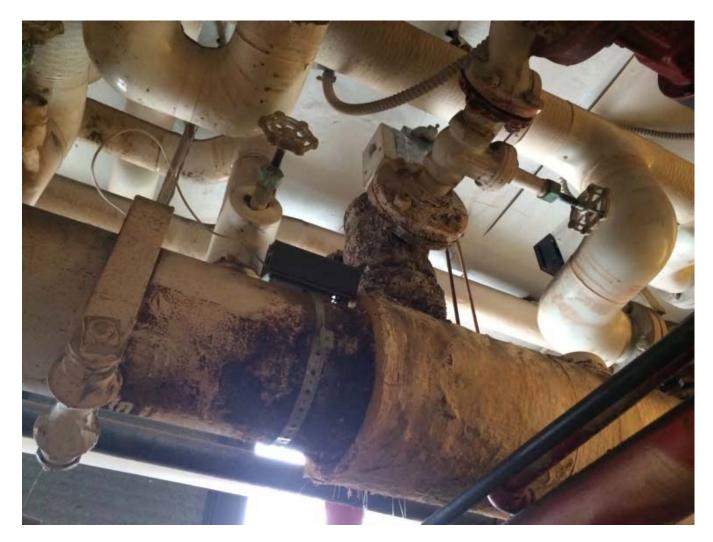
AB-2



AB-4



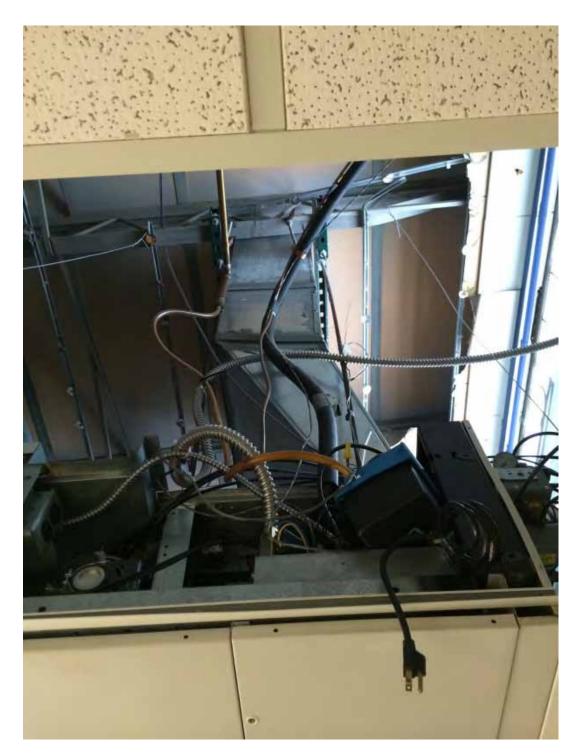








MS-7



MS-10



PS-2



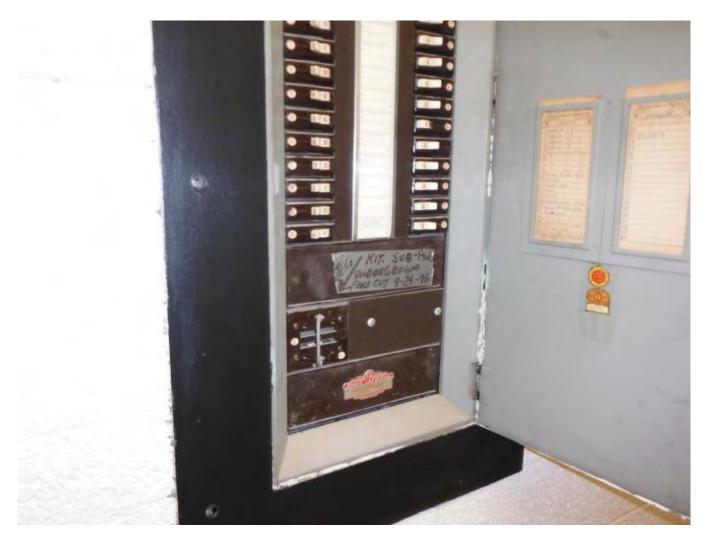
PS-3



ES-1



ES-2A



ES-2B



ES-7A



ES-7B



### **GENERAL OVERVIEW**

 Use:
 Educational

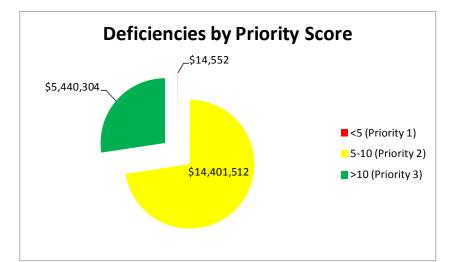
 Year Built:
 1948, 1955, 1961, 1974, 1987, 2001

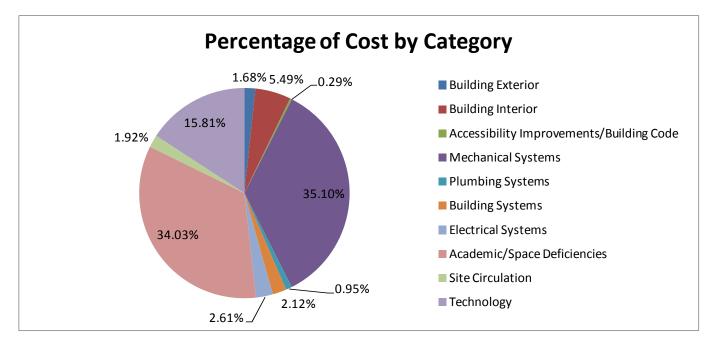
 Total Area:
 227,326 GSF

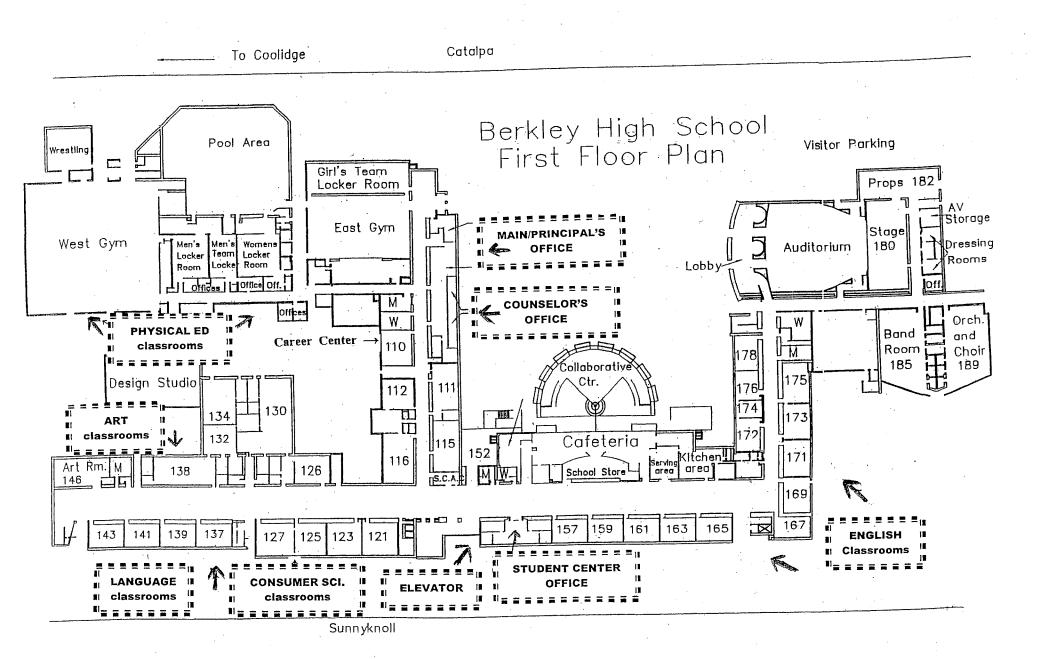
 Floors:
 2 plus basement

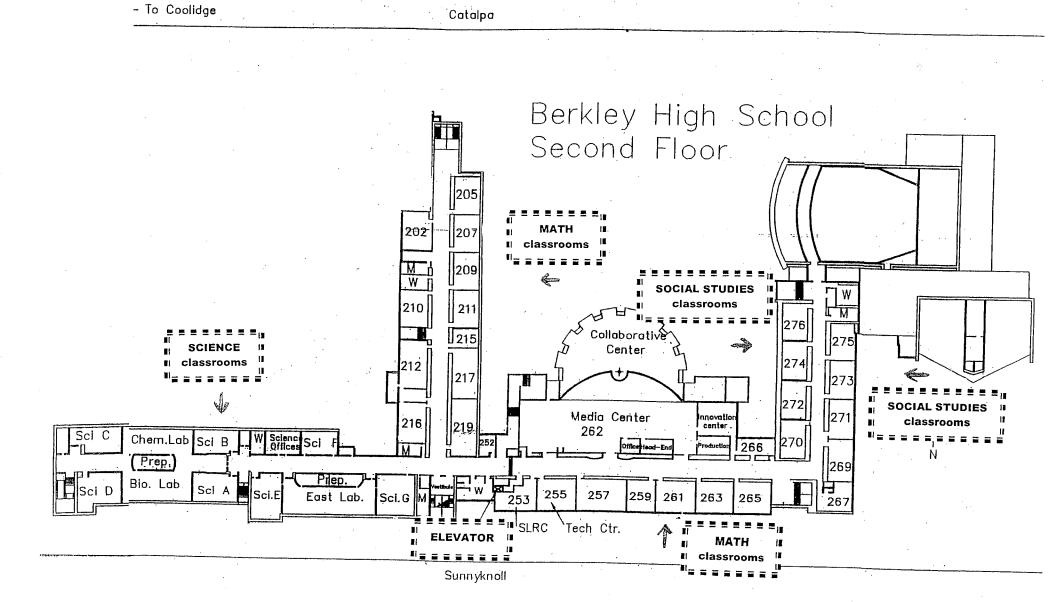
### **MAJOR FINDINGS**

Refer to the following charts for a summary of deficiencies by category and priority score. Note: Lower priority score equals highest urgency.











Addross	: 2325 Catalpa, Berkley, Michigan		Iten	n No. Code	s					Building Deficiencie	es Priorities	by Category	Notes										
Bldg. Ar No. of F Year Bu Theater	iea: 227,326 GSF loors: 2 plus Basement ilt: 1948, 1955, 1961, Pool/Gym 1974, 1987, Collaborative Center 2001 ion Date: January 2014	AB:       Accessibility Improvement/Building Code         AD:       Academic/Space Deficiencies         BE:       Building Exterior         B1:       Building Interior         B5:       Building System         ES:       Electrical System         PS:       Mechanical System         PS:       Plumbing System         SC:       Site Circulation         SE:       Specialty Equipment/Other         IT:       Technology								Consequences of the Problem 1. Hazards 2. Interruption 3. Deterioration 4. Utility 5. Energy	Need 1. Critica 2. Urgent 3. Neces: 4. ADA 5. Desiral	1     1. Constant     2. L       3. Fequent     3. Occasional       4. Infrequent	<ol> <li>Energy column "X" refers to items that have an energy consumption impact, either increase or decrease.</li> <li>Lower score equals higher priority.</li> <li>Project Cost includes 50.8% mark-ups and fees for Facility Condition Analysis.</li> <li>Project Cost includes 20.5% mark-ups and fees for technology.</li> </ol>										
No.	Item/Description		Location	Photo No.	Cons.	Need	Freq.	Score	Ener	gy Notes		Action	Qty.	Unit	Architectural Unit Cost Subtotal	Mechar Unit Cost	nical Subtotal	Electr Unit Cost	ical Subtotal	2014 Project Cost			
BUILDING	G EXTERIOR										I		-				00010101	0111 0000	00010101				
BE-1	Overhangs/Soffits	Band R	oom, Orchestra/Choir	BE-1	3	3	2	8		Paint is peeling and steel is rusted.	ſ	Provide aluminum soffit panels.	450	SF	\$ 6.00 \$ 2,700					\$ 4,072			
BE-2	Brick Veneer at Base of Walls		roofs drains to pavement ent to walls and at main ces	BE-2	3	3	2	8		Brick and mortar joints deteriorated water drainage.		Control roof drainage where possible and clean/tuck point brick.	d 1,000	SF	\$ 20.50 \$ 20,500					\$ 30,914			
BE-3	Sealant at Door and Window Openings	Entire B	luilding		3	3	2	8		Sealant deteriorated and cracked.		Replace sealant.	10,000		\$ 4.75 \$ 47,500					\$ 71,630			
BE-4	Entrance Canopy Column		vest Entrance	BE-4	3	3	2	8		Metal column enclosure is missing.	ſ	Replace metal enclosure.	1	EA	\$ 250.00 \$ 250					\$ 377			
BE-5	Steel Stair Railings	Stair to Basement Mechanical BE-5 3 3 2 8 Pair				Paint is peeling and steel is rusted.	F	Paint railings.	35	LF	\$ 8.00 \$ 280					\$ 422							
BE-6	Steel Window Lintels	West Ele	evation 2 story Wing	BE-6 BE-7A	3	3	2	8		Lintels are rusting.	ſ	Repaint lintels.	250	LF	\$ 18.00 \$ 4,500					\$ 6,786			
BE-7	Steel Doors and Frames	Basement Mechanical Room and Storage Exits			3	3	1	7		Deteriorated and rusted.		Replace with aluminum frames and iberglass reinforced panel doors.	2	EA	\$ 2,800.00 \$ 5,600					\$ 8,445			
BE-8	Entrance Canopy Soffits		vest Entrance and ce at East Gym	BE-8	3	3	2	8		Paint is peeling.	F	Provide aluminum soffit panels.	200	SF	\$ 7.50 \$ 1,500					\$ 2,262			
BE-9	Roof Membrane	Selecte	ed Areas		3	3	2	8	х	Roof membrane reaching its life expectancy.		Remove and replace with new insulation and single-ply membrane.	4,990	SF	\$ 10.00 \$ 49,900					\$ 75,249			
BE-10	Door Seals	Auditor	rium Lobby Entrance	BE-10	4	3	2	9		Doors not sealed at sills.	/	Add/replace door sweeps.	4	EA	\$ 100.00 \$ 400					\$ 603			
BE-11	Concrete Fascia and Soffit	South E	intrance	BE-11A BE-11B	3	3	2	8		Concrete is deteriorated and crac	ked. I	Replace with aluminum fascia and soffit.	200	SF	\$ 15.00 \$ 3,000					\$ 4,524			
BE-12	Stone Window Sills	Various	s Locations	BE-12	4	3	2	9		Sealant missing at joints, some sills a cracked and deteriorated.	re	Provide sealant and/or replace stone sill.	250	LF	\$ 30.00 \$ 7,500					\$ 11,310			
BE-13	Metal Fascia Panels		trance, West Entrance at rium Corridor	BE-13A BE-13B	4	3	2	9		Paint is peeling.	F	Repaint fascia.	100	SF	\$ 15.00 \$ 1,500					\$ 2,262			
BE-14	Glazed Masonry Window Sills	Auditor	ium Lobby Entrance	BE-14A BE-14B	3	3	2	8		Masonry is cracked and sealant join missing.	nts are	Replace masonry sills.	40	LF	\$ 75.00 \$ 3,000					\$ 4,524			
BE-15	Basement Areaway	Adjace	ent to Receiving Entrance	BE-15A BE-15B	4	5	5	14		Leaks water into basement, fence or railing at grade level deteriorated.		Add knee walls and sloped roof over areaway.	280	SF	\$ 35.00 \$ 9,800					\$ 14,778			
BE-16	Door Metal Threshold	East Ent	trance	BE-16	3	3	2	8		Metal threshold deteriorated.	I	Replace metal threshold.	6	LF	\$ 160.00 \$ 960					\$ 1,448			
BE-17	Greenhouse	East Ele	evation 2nd Story	BE-17	4	5	2	11		Wood framing and glazing in poor condition.		Replace greenhouse with aluminum structure with acrylic glazing.	200	SF	\$ 75.00 \$ 15,000	\$ 10.00	\$ 2,000	\$ 5.00	\$ 1,000	\$ 27,144			
BE-18	Former Overhead Door Jambs	Design	Studio North Elevation	BE-18	3	3	2	8		Steel added below original steel ch door frames in rusting.	nannel	Refinish steel and paint.	6	EA	\$ 100.00 \$ 600					\$ 905			
BE-19	Add Daylighting	Pool			4	5	3	12		Owner requested.		Add windows at north and east elevations.	320	SF	\$ 150.00 \$ 48,000					\$ 72,384			
BE-20	Add Daylighting	Gymnc	asium	-	4	5	3	12		Owner requested.		Add windows at south and west elevations	250	SF	\$ 150.00 \$ 37,500					\$ 56,550			
																		Subtotal - Bui	ding Exterior	\$ 396,589			
BUILDING BI-1	Original Hollow Metal, Wood Doors and	Entire B	uilding	BI-1	4	3	1	8		Deteriorated, nonfunctional and do meet current code requirements.		Replace with wood doors and hollow metal frames.	190	EA	\$ 2,350.00 \$ 446,500					\$ 673,322			
BI-2	Frames Wood Bleachers	East Gy		BI-2	4	5	2	11	F	Poor condition.	F	Replace bleachers add center aisle and aisle handrails.	1		\$18,000.00 \$ 18,000					\$ 27,144			
BI-3	Carpet		g Entrances	BI-3	3	3	1	7	-	Carpet reaching life expectancy.		aisie nanaraiis. Replace carpet and resilient base.	2,500		\$ 7.00 \$ 17,500					\$ 26,390			
BI-3 BI-4	Carper Casework Cabinets	Room 1	•	BI-3 BI-4	3	3	2	8		Poor condition.		Replace cabinets and counter top.	2,500	SF LF	\$ 300.00 \$ 17,500 \$ 300.00 \$ 2,400	\$ 113.00	\$ 904			\$ 26,390 \$ 4,982			
BI-5	Ceiling Paint Finish	East Gy		BI-5	4	3	2	9		Peeling paint finish.		Repaint ceiling.	7,200		\$ 4.50 \$ 32,400	,	, ,,,,,			\$ 48,859			
BI-6	Ceramic Tile Floor		ocker Room	BI-6	3	3	2	8		Tile delaminating.		Replace ceramic tile floor.		SF						\$ 19,001			



Address	: 2325 Catalpa, Berkley, Michigan	Iten				Building Deficience	ies Priorities	by Category		Notes														
Bldg. An No. of Fl Year Bui Theater	ea: 227,326 GSF oors: 2 plus Basement It: 1948, 1955, 1961, Pool/Gym 1974, 1987, Collaborative Center 2001 on Date: January 2014	AB:       Accessibility Improvement/BL         AD:       Academic/Space Deficienci         BE:       Building Exterior         BI:       Building Interior         BS:       Building System         ES:       Electrical System         MS:       Mechanical System         SC:       Site Circulation         SE:       Specialty Equipment/Other         IT:       Technology						1. 2. 3. 4.						<ol> <li>Energy column "X" refers to items that have an energy consumption impact, either increase or decrease.</li> <li>Lower score equals higher priority.</li> <li>Project Cost includes 50.8% mark-ups and fees for Facility Condition Analysis.</li> <li>Project Cost includes 20.5% mark-ups and fees for technology.</li> </ol>										
No.	Item/Description	Location	Photo No.	Cons.	Need	Freq.	Score	Energ	gy Notes		Action		Qty.	Unit	Architectural Unit Cost Subtotal	Mecha Unit Cost	nical Subtotal	Elect Unit Cost	rical Subtotal	2014 Project Cost				
BI-7	Lockers	Boy's and Girl's Locker Rooms	BI-7A BI-7B	4	5	2	11		Poor condition, rusted.	F	Replace lockers and bench	hes.	420	LF	\$ 550.00 \$ 231,000					\$ 348,348				
BI-8	Ceramic Tile Floor	Boy's Shower and Toilet Room	BI-8	4	5	2	11		Poor condition.		Replace ceramic tile floor.		670	SF	\$ 10.50 \$ 7,035					\$ 10,609				
BI-9	Wall Pads	Wrestling	BI-9	4	5	2	11		Damaged.		Replace selected wall pad		150	SF	\$ 12.00 \$ 1,800					\$ 2,714				
BI-10	Acoustical Ceiling	Kitchen, Dry Storage, Office	BI-10	3	3	2	8		Poor condition.	ç	Replace with lay-in acoustic grid.	ical panels c	1,760	SF	\$ 5.75 \$ 10,120	\$ 1.50	\$ 2,640	\$ 10.00	\$ 17,600	•				
BI-11	Ceramic Tile Floor	Kitchen Dry Storage Room	BI-11	3	5	3	11		Ceramic tile damaged, poor con		Replace ceramic tile floor.		480	SF	\$ 10.50 \$ 5,040					\$ 7,600				
BI-12	Water Leaks	Basement Near Elevator	BI-12	3	3	2	8		Gypsum board wall damage.		nvestigation cause, repair v	walls.	50	LF	\$ 45.00 \$ 2,250 \$ 2,250			L		\$ 3,393				
BI-13	Wood Stage	Basement Little Theater	BI-13	4	5	2	11		Wood stage in poor condition.		Refinish wood stage.		675	SF	\$ 3.50 \$ 2,363					\$ 3,563				
BI-14	Seating Steps and Risers	Basement Little Theater	BI-14	4	5	2	11		Poor condition.		Repair and refinish.		1	LS	\$ 2,000.00 \$ 2,000	<b> </b>				\$ 3,016				
BI-15	Ceiling Drop	Basement Storage Room Basement Little Theater	BI-15		5	2	7		Acoustical tile ceiling drop above damaged and in poor condition.	,	Replace ceiling drop.		1,000	SF	\$ 5.75 \$ 5,750					\$ 8,671				
BI-16	Fixed Seating	Basement Little Theater	BI-16	4	5	2	11		Seating fabric is torn and soiled.		Replace seating.		110	EA	\$ 150.00 \$ 16,500					\$ 24,882				
BI-17	Acoustical Ceiling	Basement Little Theater Office	BI-17	4	5	2	11		Original acoustical ceiling damage poor condition.	-	Replace with lay-in acoustic grid.	ical panels o	and 140	SF	\$ 5.75 \$ 805					\$ 1,214				
BI-18	Wall Damage	Pool Basement	BI-18	3	3	4	10		Chemical corrosion at base of mo	asonrywalls. F	Repair base of walls.		50	LF	\$ 10.50 \$ 525					\$ 792				
BI-19	Ceiling Paint Finish	Boiler Room	BI-19	4	5	4	13		Ceiling paint is peeling.	F	Repaint ceiling.		1,720	SF	\$ 4.50 \$ 7,740					\$ 11,672				
BI-20	Water Leaks	Auditorium North Exit	BI-20	3	3	2	8		Water leak adjacent to building o	olumn. I	nvestigate cause and repo	air.	1	LS	\$ 750.00 \$ 750					\$ 1,131				
BI-21	Door Thresholds	West Gym North Doors	BI-21	3	3	2	8		Metal threshold at wood floor tran missing.	nsition is	Provide metal thresholds.		12	LF	\$ 160.00 \$ 1,920					\$ 2,895				
BI-22	Floor Crack	2nd Floor North Wing	BI-22	4	5	1	10		Floor cracked.	I	nvestigate cause and repa	air.	1	LS	\$ 1,200.00 \$ 1,200					\$ 1,810				
BI-23	Resilient Flooring	Room 130	BI-23	4	5	1	10		Poor condition.	F	Replace resilient floor and b	base.	2,215	SF	\$ 4.75 \$ 10,521					\$ 15,866				
BI-24	Room Security	Head End Room		1	1	1	3		Key type is not unique to authorize (typical for all buildings).	ed staff	Recore door lock.		2	EA	\$ 75.00 \$ 150					\$ 226				
ACCESSI	BILITY IMPROVEMENT/BUILDING CODE																	Subtotal - Bu	ilding Interior	\$ 1,293,883				
AB-1	Furniture and Equipment	Corridor behind Stage	AB-1	1	4	2	7		Loose furniture and equipment no permitted in corridors.	et F	Remove loose furniture and	d equipmen <sup>.</sup>	t											
AB-2	Stair Guardrail	Stair from basement to 1st floor adjacent to Receiving	AB-2	1	4	1	6		Guardrails do not meet current co requirements for height and oper between balusters.		Replace guardrail.		15	LF	\$ 150.00 \$ 2,250					\$ 3,393				
AB-3	Handicap Wheelchair Lift	Orchestra Pit	AB-3	1	4	3	8		Lift blocked by storage.	F	Remove stored items.													
AB-4	Staff Toilets	Near Wood Shop entrance	AB-4	1	4	2	7		Barrier Free signed rooms lack gro toilet.	b bars at	Add grab bars.		2	EA	\$ 600.00 \$ 1,200					\$ 1,810				
AB-5	Handrails at Stairs	Exterior stair at entrance near East Gym	AB-5	1	4	1	6		Handrails missing (required on bot stairs).	h sides of	Add handrails.		9	LF	\$ 50.00 \$ 450					\$ 679				
AB-6	Handrails at Stairs	Exercise Room north stair	AB-6	1	4	1	6		Portion of handrail is missing.	F	Replace handrail.		4	LF	\$ 50.00 \$ 200					\$ 302				
AB-7	Handrails at Stairs	Girl's Team Locker Room	AB-7	1	4	1	6		Handrails missing.	/	Add handrails.		6	LF	\$ 50.00 \$ 300					\$ 452				
AB-8	Boy's and Girl's Toilet Rooms	First floor south wing		1	4	2	7		Toilet rooms do not meet current accessibility requirements.	f	Provide new plumbing fixtur loor/wall/ceiling finishes, st automatic door operators.		190	SF	\$ 40.00 \$ 7,600	\$ 27.00	\$ 5,130	\$ 4.20	\$ 798	\$ 20,400				
AB-9	Boy's and Girl's Toilet Rooms	Various locations		1	4	2	7		Doors do not have required whee maneuvering space.	lchair ,	Add automatic door opera	ators.	6	EA	\$ 1,500.00 \$ 9,000			\$ 1,200.00	\$ 7,200	\$ 24,430				
AB-10	Open Stairs	Near East Gym		1	4	1	6		Fire rated separation required on one floor.		Add fire rated separation in and frames. Relocate ceilir		ors 1	EA	\$10,000.00 \$ 10,000			\$ 500.00	\$ 500	\$ 15,834				
AB-11	tomatic Door Operator West Cafeteria Entrance		AB-11	1	4	1	6		Door operator is non-functional a properly interlocked with door loc mechanism.		Correct door operation.		1	LS	\$ 1,000.00 \$ 1,000			\$ 500.00	\$ 500	\$ 2,262				
																Subtotal - A	ccessibility In	nprovements/B	uilding Code	\$ 69,561				

A al alva a	2005 Ostala a Baddau Mishimaa		ltem No. Code	es					Building Deficienc	ies Priorities	by Category	Notes									
Bldg. Ar No. of F Year Bu Theater	s: 2325 Catalpa, Berkley, Michigan rea: 227,326 GSF Floors: 2 plus Basement vilt: 1948, 1955, 1961, Pool/Gym 1974, r 1987, Collaborative Center 2001 tion Date: January 2014	AB:     Accessibility Improv       AD:     Academic/Space       BE:     Building Exterior       BI:     Building Interior       BS:     Building System       C:     Etcrical System       MS:     Mechanical System       SC:     Site Circulation       SC:     Site Circulation       SE:     Specialty Equipmen       IT:     Technology						1 2 3 4	onsequences of the Problem Hazards Interruption Deterioration Utility Energy	Need 1. Critico 2. Urgen 3. Nece: 4. ADA 5. Desirco	at 2. Frequent ssary 3. Occasional 4. Infrequent	2. Lo 3. Pro	werscore oject Cos	e equals t include	efers to items that have an e higher priority. is 50.8% mark-ups and fees fo is 20.5% mark-ups and fees fo	or Facility Conditio		er increase or dea	crease.		
No.	Item/Description	Location	Photo No.	Cons.	Need	Freq.	Score	Energ	y Notes		Action		Qty.	Unit	Architectural Unit Cost Subtotal	Mecho Unit Cost	nical Subtotal	Elect Unit Cost	rical Subtotal	2014 Project Cost	
	NICAL SYSTEMS				<b>N</b>	M	1	1	T		1					I	1		n		
MS-1	Building Controls	Entire Building	MS-1	2	2	1	5	Х	Existing controls are outdated.		Provide new DDC controls throug	hout.	200,000	SF		\$ 4.50	\$ 900,000			\$ 1,357,200	
MS-2	Domestic Water Heaters	Boiler Room	MS-2	3	3	1	7	Х	Existing Lochinvar water heaters a their useful life.	,	Replace with like and kind; 1,260	MBH unit.	2	EA		\$ 21,300.00	\$ 42,600			\$ 64,241	
MS-3	Condensate Return System	Boiler Room	MS-3A MS-3B	4	3	1	8	Х	Receiver tank and pumps are in for condition.	air to poor	Replace with packaged receiver		4	EA		\$ 9,800.00	\$ 39,200			\$ 59,114	
MS-4	Boilers	East Boiler Room	MS-4	4	4	1	9	х	Existing boilers are beyond their us	eful life.	Two (2) new boilers at 9,000 MBH and all associated trim, new stac combustion damper control.		1	LS		\$ 371,000.00	\$ 371,000	\$ 500.00	\$ 50	0 \$ 560,222	
MS-5	Convectors	Vestibules/Entrances	MS-5	4	4	1	9	Х	Existing convectors are in fair cond	dition.	Replace with like and kind.		14	EA		\$ 2,250.00	\$ 31,500	\$ 185.00	\$ 2,59	0 \$ 51,408	
MS-6	Classroom Unit Ventilators - Horizontal	East Wing 1st and 2nd Floo	ors MS-6	3	2	1	6	х	Existing heating and ventilating or horizontal unit ventilators are beyouseful life.		Replace with new vertical ducted	d units.	34	EA	\$11,700.00 \$ 397,800	\$ 23,000.00	\$ 782,000	\$ 235.00	\$ 7,99	0 \$ 1,791,187	
MS-6A	Classroom Unit Ventilators - HVAC	Entire Building		5	5	1	11	х	Existing unit ventilators are heating ventilating only.	and	Install new vertical ducted DX HV ventilators, ceiling and lights.	AC unit	37	EA	\$11,700.00 \$ 432,900	\$ 27,000.00	\$ 999,000	\$ 2,373.00	\$ 87,80	1 \$ 2,291,709	
MS-7	Kitchen Hood	Kitchen	MS-7	4	4	1	9		Main kitchen hood is beyond its us	seful life.	Replace with new stainless steel h and chemical fire suppression sys		1	LS		\$ 14,500.00	\$ 14,500			\$ 21,866	
MS-8	Refrigeration Compressors	Kitchen		2	2	1	5	Х	Existing compressors are in fair cor	ndition.	Replace with like and kind.		3	EA		\$ 6,500.00	\$ 19,500	\$ 350.00	\$ 1,05	0 \$ 30,989	
MS-9	West Gym HVAC	Roof		5	5	1	11	х	Existing gym units are heating and ventilating only.		Two (2) new DX rooftop units with insulated supply and return ductv approximately 6,000 CFM each.		2	EA	\$18,000.00 \$ 36,000	\$ 51,000.00	\$ 102,000	\$ 8,010.00	\$ 16,02	0 \$ 232,262	
MS-10	East Gym Air Handling Unit	East Gym Fan Room	MS-10	3	3	1	7		Unit is original to building and in percention.		Replace with like and kind; whole plenum, approximately 3,000 CFA		1	LS		\$ 18,000.00	\$ 18,000	\$ 3,360.00		\$ 27,144	
MS-10A	East Gym HVAC	Roof		5	5	1	11		Existing gym units are heating and ventilating only.		One (1) new air handling unit with water heating and chilled water with insulated supply and return c approximately 4,000 CFM.	cooling	1	EA	\$18,000.00 \$ 18,000	\$ 42,500.00	\$ 42,500	\$ 3,360.00	\$ 3,36	0 \$ 96,301	
MS-11	Chiller Plant	Outdoors on Grade		5	5	1	11	х	All air conditioning in the building direct expansion local to the unit.	is presently	Install new chiller plant consisting approximately two (2) 120-ton air chillers located on slab outdoors. Associated pumps and trim to be indoors.	-cooled	1	LS		\$ 1,032,000.00	\$ 1,032,000	\$ 200,000.00	\$ 200,00	0 \$ 1,857,856	
MS-12	Locker Rooms Heating and Ventilating Units	Boy's and Girl's Locker Roc	oms	4	4	4	12		Existing ceiling hung units are in fa condition.		Replace with like and kind; new distribution ductwork.		3	EA		\$ 9,500.00	\$ 28,500	\$ 185.00	\$ 55	5 \$ 43,815	
MS-13	Rooftop Unit RTU-1	Roof		4	4	1	9	х	Existing unit is beyond its useful life		Replace with like and kind; 6,400 HVAC unit.	CFM	1	EA		\$ 28,800.00	\$ 28,800	\$ 4,160.00	\$ 4,16	0 \$ 49,704	
MS-14	Theater Rooftop Units	Roof		4	4	2	10	х	Existing unit is beyond its useful life 27 years old.		Replace with like and kind; avera of 6,000 CFM, 15-tons, DX unit.	ige size	3	EA		\$ 36,000.00	\$ 108,000	\$ 3,230.00	\$ 9,69	0 \$ 177,477	
MS-15	Classroom Convectors	Classrooms	MS-15	4	4	1	9	Х	Existing convectors are in poor co		Replace with like and kind.		54	EA		\$ 2,250.00				\$ 183,222	
MS-16	Steam Pipe	Entire Building		3	3		7	Х	Existing steam pipe is in poor conc		Replace steam mains in tunnels.	in	520	LF		\$ 75.00				\$ 58,812	
	Condensate Pipe Steam Trap Maintenance	Entire Building Entire Building		3 3	3 4	1	7	X X	Existing condensate pipe is in poo	r condition.	Replace condensate pipe mains tunnels. Replace older traps in poor cond		520	LF LS		\$ 50.00 \$ 18,500.00				\$ 39,208 \$ 27,898	
				3	4		•		Large sections of missing/damage		Install new insulation and labels, i		1								
-	Pipe Insulation Office Rooftop Units	Entire Building         MS-19         4         4         1         9           Office         MS-20         3         3         2         8			X X	insulation on steam and condense Office rooftop units are in poor co	ate pipe.	reheat coils in Science Wing. Replace with like and kind.		500 2	LF EA		\$ 9.00 \$ 17,500.00	\$ 4,500 \$ 35,000	\$ 2,787.00	\$ 5,57	\$ 6,786 4 \$ 61,186				
	Roof Exhaust Fans	Roof	MS-21	4	4	1	9			re beyond	Provide new roof exhaust fans/hc average size is 600 CFM.	ods;	12	EA		\$ 3,250.00	\$ 39,000	·			
MS-22	AS-22 Head End Air Conditioning Head End Room			4	5	1	10		Some issues with existing unit.		Install new split air conditioning ur approximately 1.5-tons.	nit;	1	EA		\$ 8,500.00	\$ 8,500	\$ 500.00	\$ 50	0 \$ 13,572	

Addrow	: 2325 Catalpa, Berkley, Michigan	Ite	m No. Code	s					Building Deficienc	ies Priorities	s by Catego	ry	Notes										
Bldg. Ar No. of F Year Bu Theater	ea: 227,326 GSF loors: 2 plus Basement lit: 1948, 1955, 1961, Pool/Gym 1974, 1987, Collaborative Center 2001 ion Date: January 2014	AB:     Accessibility Improvement//       AD:     Accdemic/Space Deficient       BE:     Building Exterior       BI:     Building System       ES:     Electrical System       MS:     Mechanical System       PS:     Plumbing System       SC:     Site Circulation       SE:     Specialty Equipment/Other       IT:     Technology	cies					1. 2. 3. 4.	Consequences of the ProblemNeed1. Hazards1. Critica2. Interruption2. Urgent3. Deterioration3. Neces4. Utility4. ADA5. Energy5. Desiral		nt essary	Frequency of Use 1. Constant 2. Frequent 3. Occasional 4. Infrequent 5. Meager	2. Lower sco 3. Project Co	<ol> <li>Energy column "X" refers to items that have an energy consumption impact, either increase or decrease.</li> <li>Lower score equals higher priority.</li> <li>Project Cost includes 50.8% mark-ups and fees for Facility Condition Analysis.</li> <li>Project Cost includes 20.5% mark-ups and fees for technology.</li> </ol>									
No.	Item/Description	Location	Photo No.	Cons.	Need	Freq.	Score	Energ	y Notes			Action	Qty.	Unit	Architectural Unit Cost Subtotal	Mechani Unit Cost	ical Subtotal	Electrical Unit Cost Sub	total	2014 Project Cost			
MS-23	Main Kitchen Hood	Kitchen		4	4	3	11		Main kitchen hood has limited fire heads.	protection	Increase siz suppression		1	LS		\$ 7,810.00	\$ 7,810			\$ 11,777			
MS-24	Science Room C Make-Up Air Unit	Roof		4	3	1	8		Existing make-up air unit serving Sc Room C is in fair to poor condition.	ience	Replace wi	ith like and kind.	1	LS		\$ 22,000.00	\$ 22,000	\$ 500.00 \$	500	\$ 33,930			
MS-25	Science Wing Rooftop Units	Roof	MS-25	3	3	1	7		Existing McQuay and Trane roofto in fair to poor condition.	o units are	Replace wi	ith like and kind.	2	EA		\$ 32,000.00	\$ 64,000	\$ 500.00 \$	1,000	\$ 98,020			
MS-26	North Academic Air Handling Unit	Basement Fan Room	MS-26	4	4	1	9		Existing unit is more than 60 years o	old.		g unit with steam coil; tely 7,500 CFM.	1	LS		\$ 25,000.00	\$ 25,000	\$ 4,160.00 \$	4,160	\$ 43,973			
MS-26A	North Academic Air Handling Unit	Basement Fan Room		4	4	1	9	х	Existing unit is more than 60 years o	ıld.		w air handling unit with cl and steam heating coil.	hilled	LS		\$ 32,500.00	\$ 32,500	\$ 5,408.00 \$	5,408	\$ 57,165			
MS-27	Gym/Café Air Handling Unit	Basement Fan Room Near Boiler Room	MS-27	3	3	1	7		Existing unit is more than 60 years o	old.	Replace wi	ith like and kind; heating only.	and 1	LS		\$ 25,000.00	\$ 25,000	\$ 4,160.00 \$	4,160	\$ 43,973			
MS-27A	Gym/Café Air Handling Unit	Basement Fan Room Near Boiler Room		3	3	1	7		Existing unit is more than 60 years o	ıld.		w air handling unit with cl and steam heating coil.	hilled 1	LS		\$ 32,500.00	\$ 32,500	\$ 5,408.00 \$	5,408	\$ 57,165			
MS-28	Little Theater Air Handling Unit	Basement Fan Room	MS-28	3	3	1	7		Existing unit is more than 60 years o	ld.	-	ig air handling unit with st ximately 3,000 CFM.	ream 1	LS		\$ 15,000.00	\$ 15,000	\$ 3,360.00 \$	3,360	\$ 27,687			
MS-28A	Little Theater Air Handling Unit	Basement Fan Room		3	3	1	7		Existing unit is more than 60 years o	ıld.		HVAC unit in same location I water cooling and stear		LS		\$ 19,500.00	\$ 19,500	\$ 4,368.00 \$	4,368	\$ 35,993			
MS-29	Fin Tube Radiation	Basement and 1st Floor	MS-29	2	2	1	5		Existing fin tube is in fair to poor co	ndition.	Replace wi	ith like and kind.	500	LF		\$ 71.00	\$ 35,500			\$ 53,534			
MS-30	Domestic Water Tanks	Basement	MS-30	4	4	1	9		Existing Lochinvar tanks are in fair t condition.	o poor	Provide nev gallons eac	w tanks; approximately 25 ch.	50 4	EA		\$ 6,000.00	\$ 24,000			\$ 36,192			
MS-31	Hot Water Heating Pumps	Basement Heat Exchanger Room	MS-31	3	3	1	7		Existing base-mounted end suction are in poor condition.	n pumps	Replace wi 162 GPM, 5	ith like and kind; approxin 0 TDH.	nately 2	EA		\$ 16,000.00	\$ 32,000	\$ 175.00 \$	350	\$ 48,784			
MS-32	Hot Water Heating Pipe	Multiple Locations	MS-32	3	3	1	7		Existing pipe is in fair to poor condi	tion.	label.	ith like and kind; insulate o	750	LF		·	\$ 56,250			\$ 84,825			
MS-33	Ductwork	Entire Building		4	4	1	9		Existing supply and return ductwor	k is dirty.		sanitize entire duct system	n. 200,00				\$ 230,000			\$ 346,840			
MS-34	Music Wing Unit Ventilators	Band and Orchestra Rooms	MS-34	5	5		11		Existing units are in fair condition.		· ·	ith like and kind. ith like and kind; approxin	2 natoly	EA			\$ 35,000			\$ 52,780			
MS-35	Steam Isolation Valves	Boiler Room		1	1	1	3		Steam isolation valves do not hold		8".	in like and kind, approxin	2	EA		\$ 4,750.00		ototal - Mechanical Sy	rtome	\$ 14,326			
PLUMBIN	G SYSTEMS																301	biolai - Mechanicai Sy	siems	\$ 0,270,137			
	Sump Pump	North End of Basement	PS-1	3	3	5	11		Sump system is in disrepair.		Rebuild pur	mping portion of sump sys	stem. 1	LS		\$ 5,500.00	\$ 5,500	\$ 1,200.00 \$	1,200	\$ 10,104			
PS-2	Sump Pump	Basement	PS-2	3	3	5	11	1	Existing sump system is light commo	ercial in	Replace wi duplex syste	ith heavy duty commerci em.	al 1	LS		\$ 4,400.00	\$ 4,400	\$ 1,200.00 \$	1,200	\$ 8,445			
PS-3	Sump Pump	Basement Heat Exchanger Room	PS-3	3	3	5	11	1	Existing sump system is single pump commercial.	o, light		h heavy duty commercia	1 1	LS		\$ 8,800.00	\$ 8,800			\$ 13,270			
PS-4	Domestic Water Pipe	Entire Building	PS-4	2	3	1	6	х	30% of existing domestic water pip galvanized steel.	e is		ith copper pipe.	6,800	SF	\$ 0.50 \$ 3,400	\$ 3.25	\$ 22,100			\$ 38,454			
PS-5	Water Meter Isolation Valves	Basement	PS-5	2	3	5	10		Existing gate valves at water meter hold.	r do not	Replace th	ree (3), 3" gate valves.	3	EA		\$ 2,750.00	\$ 8,250			\$ 12,441			
PS-6	Sanitary Pipe	Entire Building	PS-6	3	3	1	7		Sanitary pipe is in poor condition.		Replace ad	ccessible portions.	10,000	SF	\$ 0.50 \$ 5,000	\$ 4.25	\$ 42,500			\$ 71,630			
PS-7	Water Coolers	Entire Building	PS-7	4	4	1	9		Drinking fountains are in fair to poo condition.	or	Add bi-leve	el water coolers.	10	EA		\$ 3,000.00	\$ 30,000	\$ 1,200.00 \$	12,000	\$ 63,336			

Address	: 2325 Catalpa, Berkley, Michigan		Building Deficiencie	es Priorities	by Catego	bry	Notes															
Bldg. Ar No. of Fl Year Bu Theater	ea: 227,326 GSF loors: 2 plus Basement lit: 1948, 1955, 1961, Pool/Gym 1974, 1987, Collaborative Center 2001 ion Date: January 2014	AB: Accessibility Improvement/Bu AD: Academic/Space Deficienci BE: Building Exterior BI: Building Interior BS: Building System ES: Electrical System MS: Mechanical System PS: Plumbing System SC: Site Circulation SE: Specialty Equipment/Other II: Technology						1. 2. 3. 4.	Consequences of the Problem - Hazards - Interruption - Deterioration - Utility - Energy	Need 1. Critica 2. Urgent 3. Necess 4. ADA 5. Desirat	t sary	2. 3.	<ol> <li>Energy column "X" refers to items that have an energy consumption impact, either increase or decrease.</li> <li>Lower score equals higher priority.</li> <li>Project Cost includes 50.8% mark-ups and fees for Facility Condition Analysis.</li> <li>Project Cost includes 20.5% mark-ups and fees for technology.</li> </ol>									
No.	Item/Description	Location	Photo No.	Cons.	Need	Freq.	Score	Energ	y Notes			Action	Qty.	Unit	Architectural Unit Cost Subtotal	Mech Unit Cost	anical Subtotal	Electrical Unit Cost Subtotal	2014 Project Cost			
PS-8	Kitchen Prep Sink	Kitchen	PS-8	4	4	3	11		Kitchen prep sink has hard corners.	ł	Replace v meet Cod	vith rounded corner style to le.	1	LS		\$ 4,500.00	0 \$ 4,50		\$ 6,786			
PS-9	3-Compartment Sink	Kitchen	PS-9	5	5	1	11		Wash, rinse, sanitize labels are on wr sinks.	rong l	Reverse la	bels.										
	~ evertage															Subtotal - Plumbing Systems	\$ 224,466					
BUILDING BS-1	Fire Alarm System	Entire Building		2	3	3	8		Existing system is outdated and diffic maintain.	cult to	Install new addressable system.		1	LS				\$ 256,878.00 \$ 256,878	\$ 387,372			
BS-2	Emergency Lighting	Corridors, Gyms, Locker Rooms, Pool, Fitness Center, Science Labs, Collaboration Center, Media Center		1	3	4	8		Spacing of existing battery units excorrequirements.	eeds	Install new	units in existing fixtures.	230	EA				\$ 300.00 \$ 69,000	\$ 104,052			
BS-3	Boiler Room Emergency Power Off	Boiler Room		3	3	3	9		Boiler room does not have an emerg power off system as required by Coo		Install Boile	er Room EPO system.	2	EA		\$ 2,720.00	) \$ 5,44		\$ 8,204			
ELECTRIC	CAL SYSTEMS																	Subtotal - Building Systems	\$ 499,628			
ES-1	Electrical Distribution System	East Boiler Room (Auditorium) and West Boiler Room (Career Center)	ES-1A ES-1B ES-1C	2	3	1	6		Original electrical distribution equipr obsolete and a safety concern.			he original distribution It with new.	2	EA				\$ 32,350.00 \$ 64,700	\$ 97,568			
ES-2	Electrical Panels	Corridors to serve Classrooms	ES-2A ES-2B ES-2C	2	5	1	8		Original electrical panels are obsole are sometimes located behind door		•	he original panels with new, nels in new locations.	20	EA				\$ 4,875.00 \$ 97,500	\$ 147,030			
ES-3	Original Lighting Fixtures	Science Labs	ES-3	3	3	1	7	х	Original lighting fixtures with obsolete fluorescent lamps.		Replace w fixtures.	vith more efficient T8 fluorescer	<sup>nt</sup> 12	EA				\$ 6,000.00 \$ 72,000	\$ 108,576			
ES-4	Exit Lighting Fixtures	Design Center, Science Labs	-	4	3	4	11	х	Rooms over 1000 SF require 2 exits wi signs	rith Exit	Add Exit sig	gns	18	EA				\$ 300.00 \$ 5,400	\$ 8,143			
ES-5	Exterior Lighting	Exterior Doors	ES-5	1	2	2	5	х	Lighting fixtures are in disrepair.		Replace w and west l	vith efficient LED fixtures in east lots.	33	EA				\$ 520.00 \$ 17,160	\$ 25,877			
ES-6	Site Lighting	Parking Lots		3	5	3	11	х	Inadequate site lighting.		Install new	poles with efficient LED fixtures	s 10	EA	\$ 6,000.00 \$ 60,000			\$ 6,960.00 \$ 69,600	\$ 195,437			
ES-7	Pool Lighting	Pool	ES-7A ES-7B	1	2	2	5	х	Lighting levels are below IES illumina recommendations.	ł	perimeter.		20	EA				\$ 520.00 \$ 10,400	\$ 15,683			
ES-8	Uninterruptible Power Supply	Main Office		1	3	4	8		Maintain operation during power interruptions		Provide 5 k PA and Ph	kVA UPS to serve Key Fob entry, nones	, 1 1	EA				\$ 11,300.00 \$ 11,300				
ACADEN	NC/SPACE DEFICIENCIES																	Subtotal - Electrical Systems	\$ 615,354			
	New Fine Arts Wing	Building Addition		4	3	1	8		Existing space is inadequate.	1	the curren as sensory	fine arts wing. This will free up It art spaces for new uses such rooms, kindergarten rooms, Is, storage, etc.	8,100	SF	\$ 225.00 \$1,822,500				\$ 2,748,330			
AD-2	New Large Group Instruction	Building Addition		4	3	1	8		Existing building lacks dedicated instructional space.		Build new	large group instruction suite.	12,500	SF	\$ 200.00 \$2,500,000				\$ 3,770,000			
AD-3	Main Office Consolidation	Existing Office Areas		4	3	1	8		Offices are split into different locatio building.	ons of the	Renovate	existing office areas.	5,000	SF	\$ 125.00 \$ 625,000				\$ 942,500			
AD-4	Separate Counseling Office from Main Office	Counseling Office		4	3	1	8		Counseling office is open and adjac Main office.			and/or relocate Counseling ay from the Main Office.	3,000	SF	\$ 125.00 \$ 375,000				\$ 565,500			
																	Subtotal - A	cademic/Space Deficiencies	\$ 8,026,330			

Address	: 2325 Catalpa, Berkley, Michigan		lter	m No. Code	s					Building Deficienci	ies Priorities	by Categ	ory					Notes				
Bldg. Area: 227,326 GSF No. of Floors: 2 plus Basement Year Built: 1948, 1955, 1961, Pool/Gym 1974, Theater 1987, Collaborative Center 2001 Evaluation Date: January 2014			Accessibility Improvement/B Academic/Space Deficienc Building Exterior Building Interior Building System Electrical System Plumbing System Site Circulation Specialty Equipment/Other Technology	cies					1. 2. 3. 4.	Consequences of the Problem . Hazards 2. Interruption 5. Deterioration 4. Utility 5. Energy	Need 1. Critica 2. Urgent 3. Neces 4. ADA 5. Desiral	t Isary	Frequency of Use 1. Constant 2. Frequent 3. Occasional 4. Infrequent 5. Meager	2. Lowe 3. Proje	er score	equals t include	efers to items that have an a higher priority. 25 50.8% mark-ups and fees 25 20.5% mark-ups and fees	or Facility Conditio		er increase or de	crease.	
No.	Item/Description		Location	Photo No.	Cons.	Need	Freq.	Score	e Energ	ay Notes			Action		Qty.	Unit	Architectural Unit Cost Subtotal	Mecho Unit Cost	nical Subtotal	Elect Unit Cost	-	2014 Project Cost
SITE CIRC	ULATION								-	•									•			
SC-1	Parking	Site			4	4	1	9		Quantity of parking is inadequate.			tional parking to the site. I the right is an allowance.	Figure	1	LS	\$ 175,000					\$ 263,900
SC-2	Student Drop-off	Site			4	4	1	9		Student drop-off is inadequate.			lify student drop-off to the own to the right is an allow		1	LS	\$ 125,000					\$ 188,500
				*	8					-	*							8		Subtotal - Si	e Circulation	\$ 452,400
TECHNOL					1	-	<b>1</b>											1				
IT-1	Refer to Tab 12 for breakdown																					
																				Tec	hnology Total	\$ 3,729,487

Note: Shaded items are shown for reference only and not included in the deficiency total.

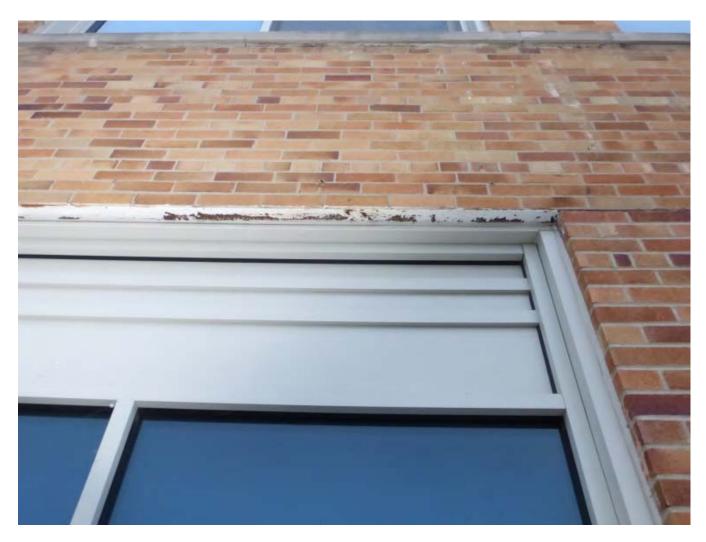
Total Project Cost \$23,585,855





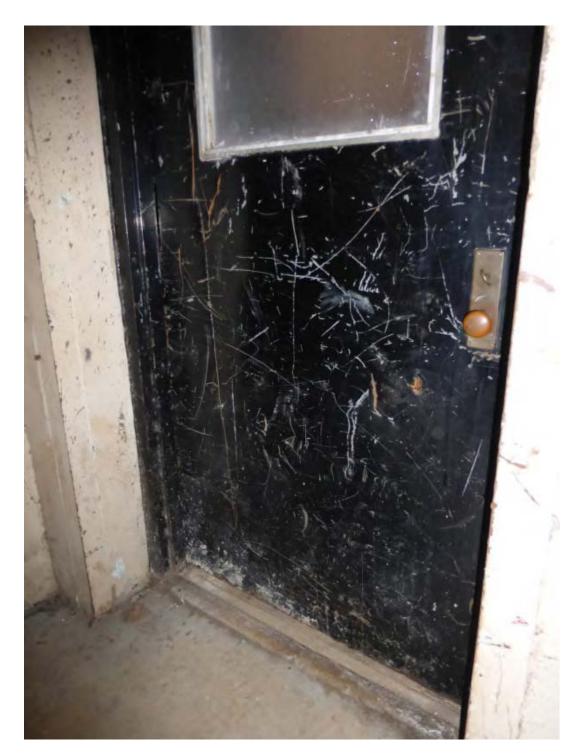








BE-7A



BE-7B







BE-11A



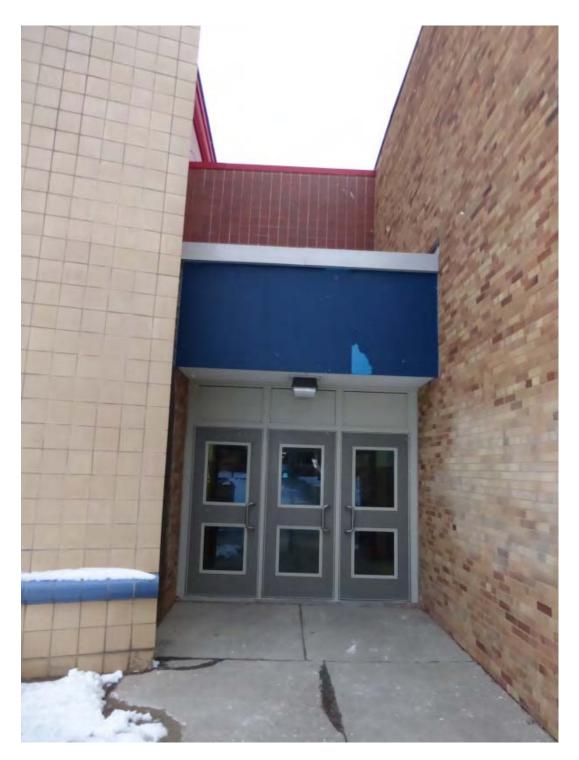
BE-11B



BE-12



BE-13A



BE-13B



BE-14A



BE-14B



BE-15A



BE-15B



BE-16



BE-17

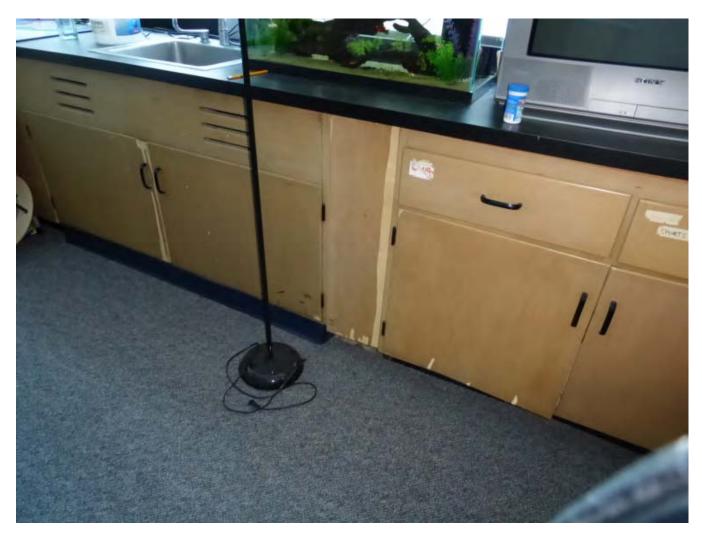


BE-18

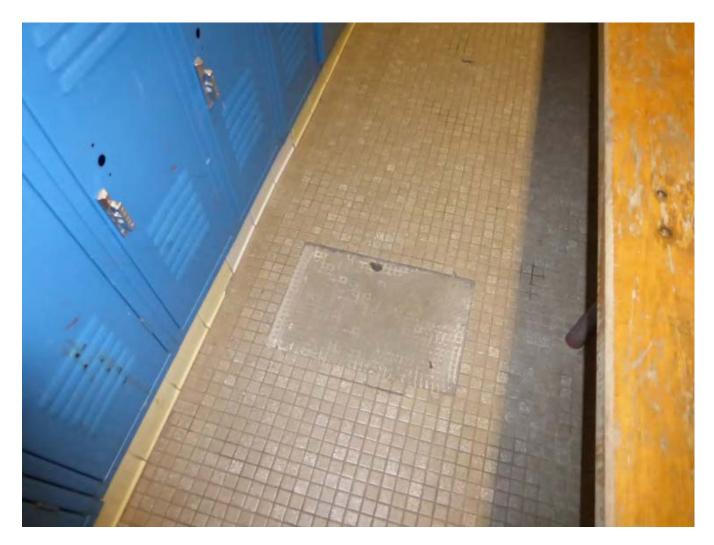










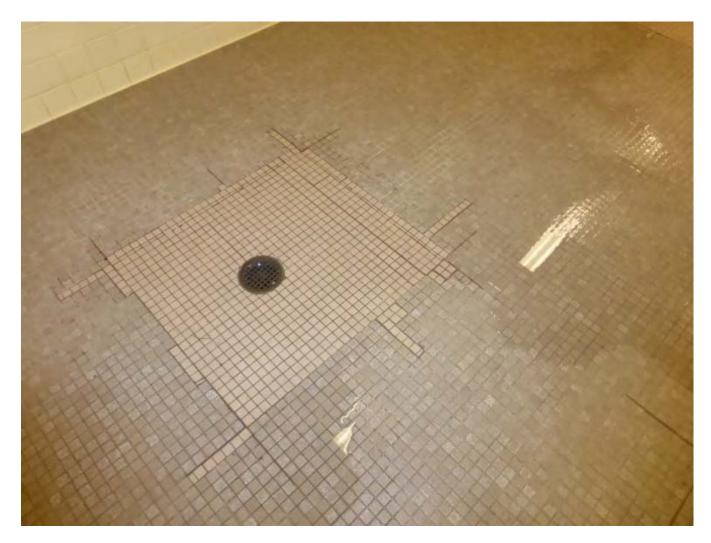


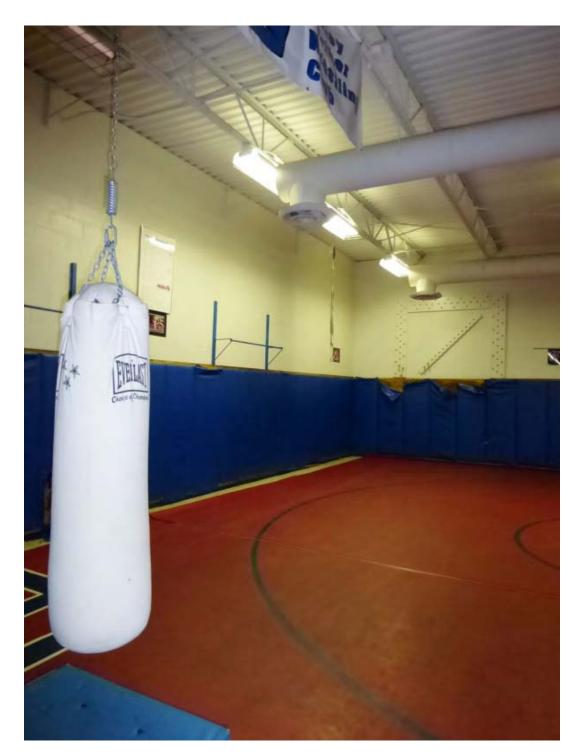


BI-7A



BI-7B

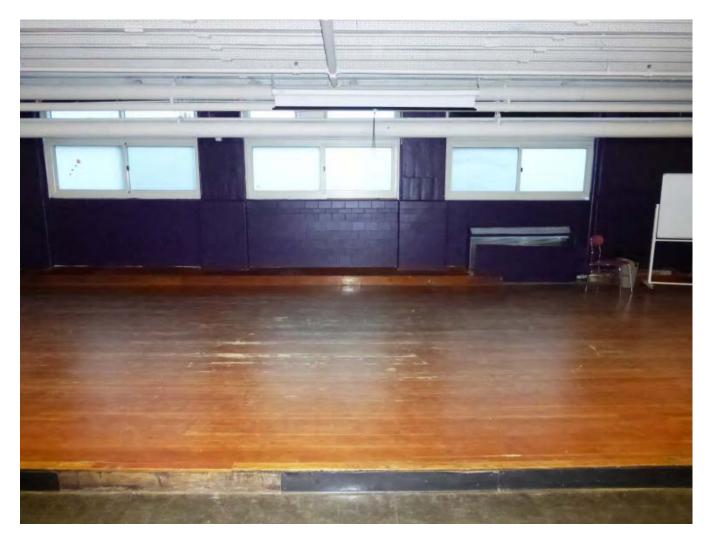


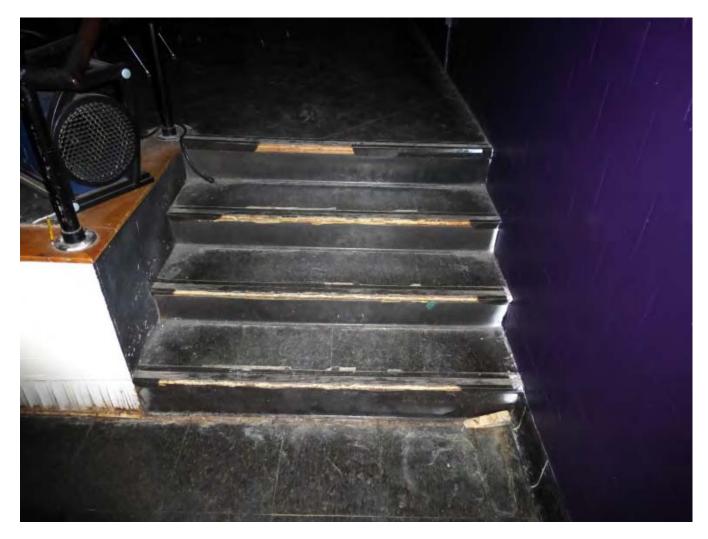




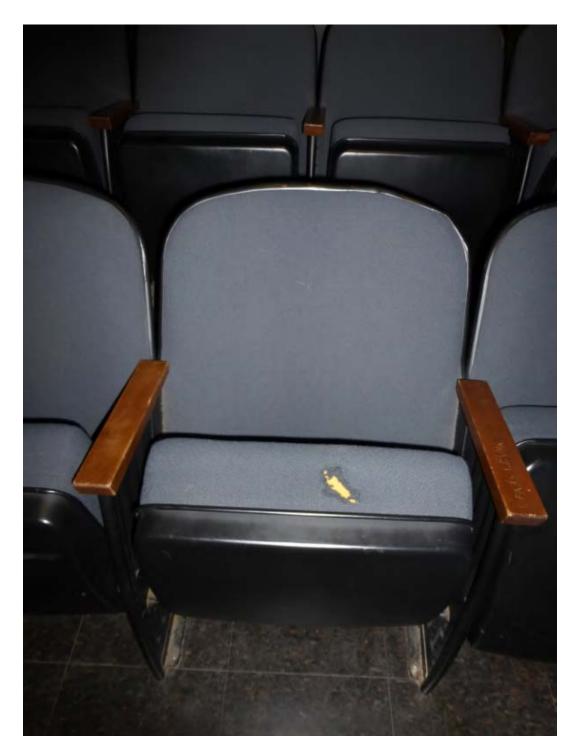






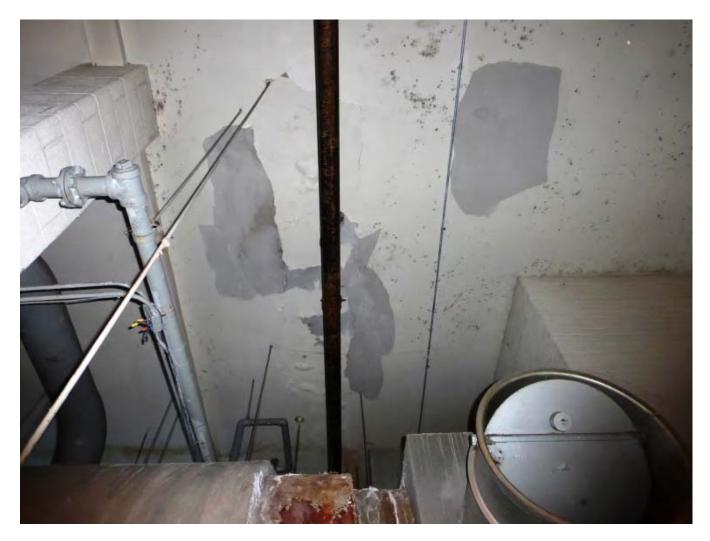




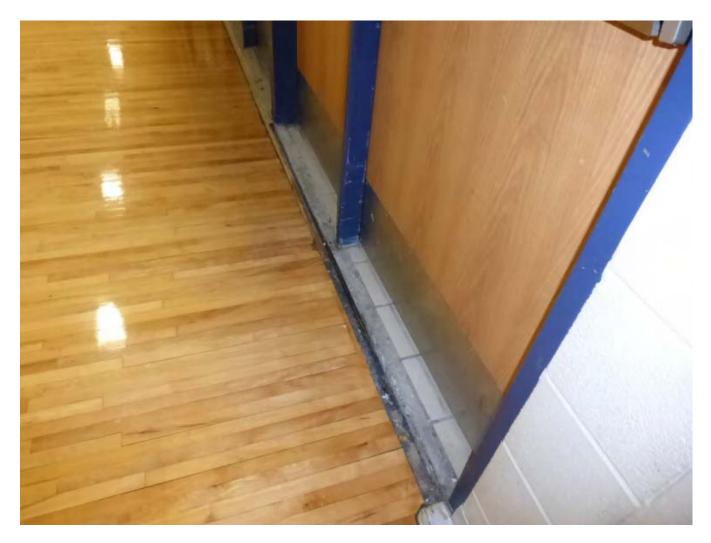






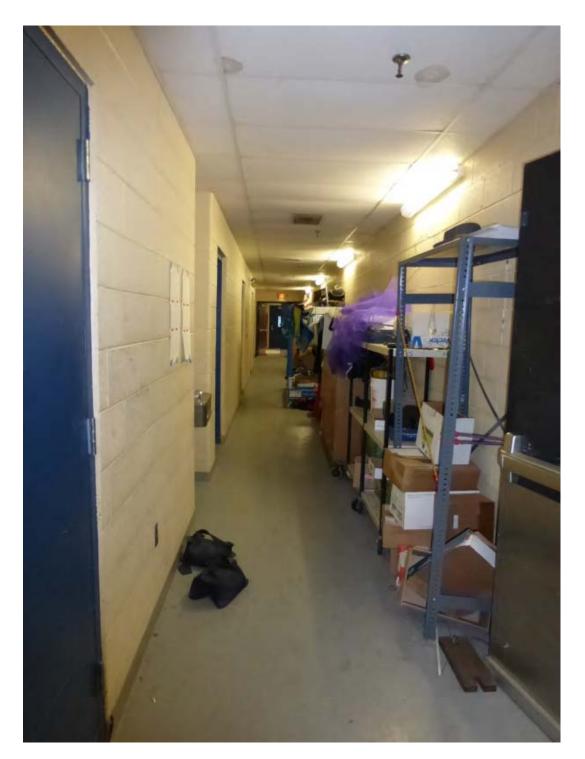


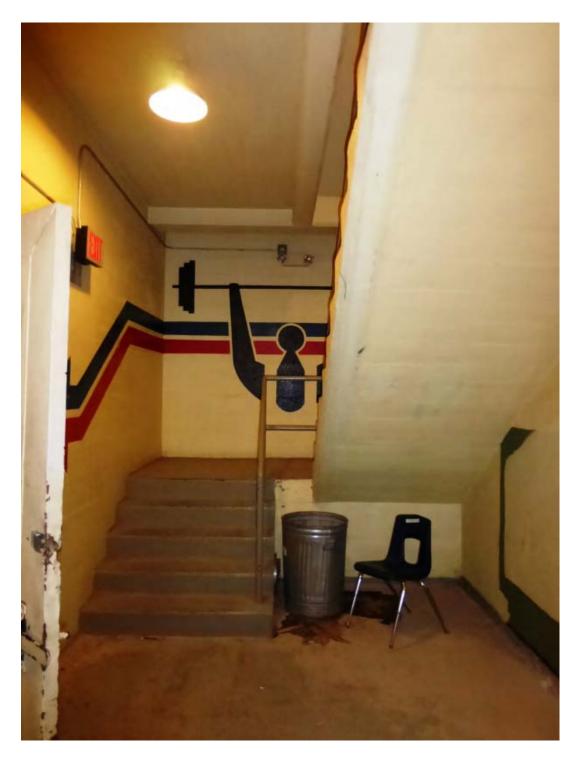










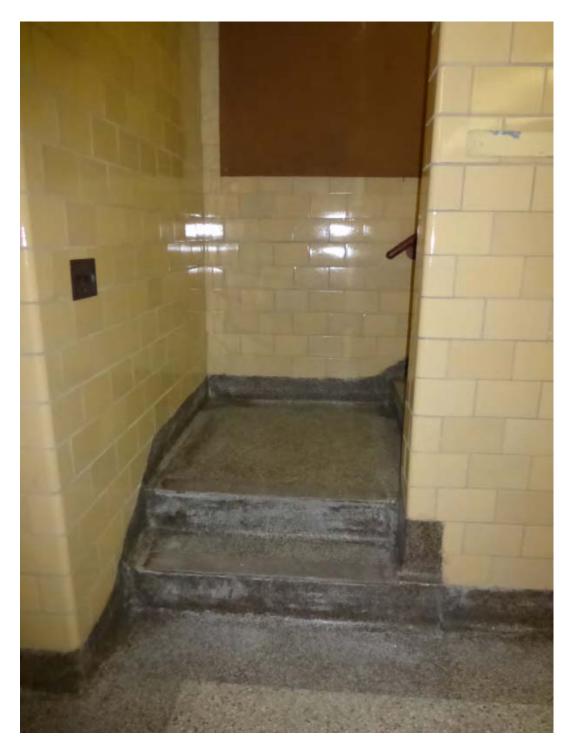


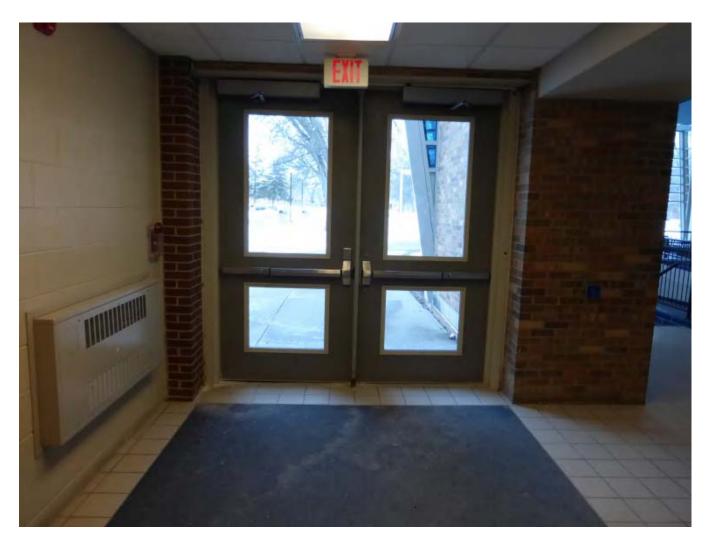














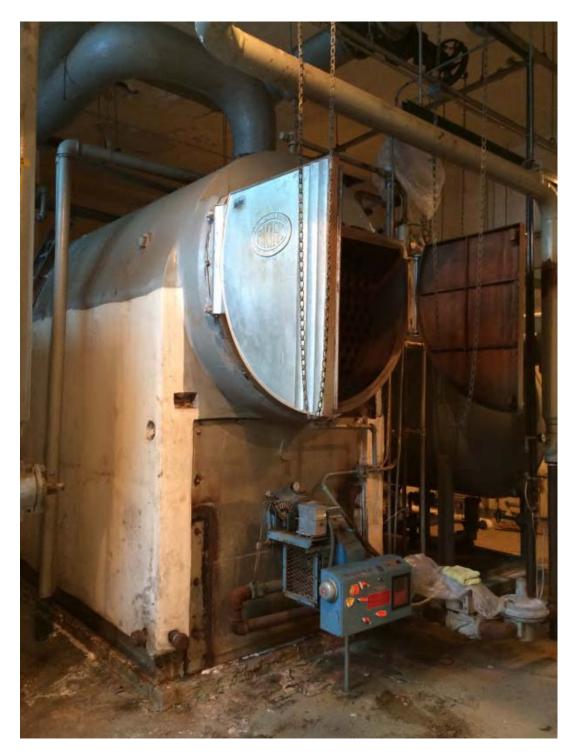




MS-3A



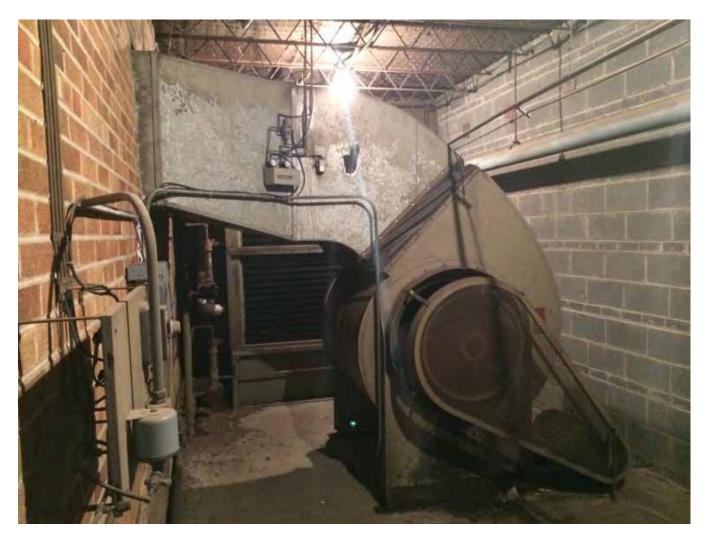
MS-3B

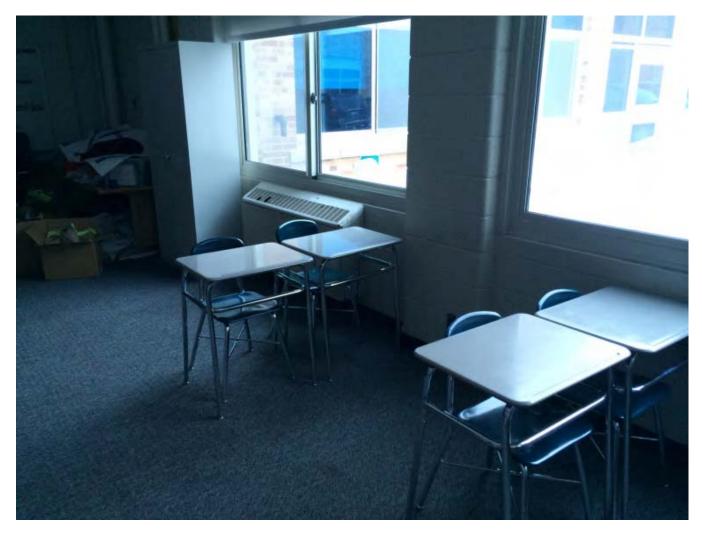


















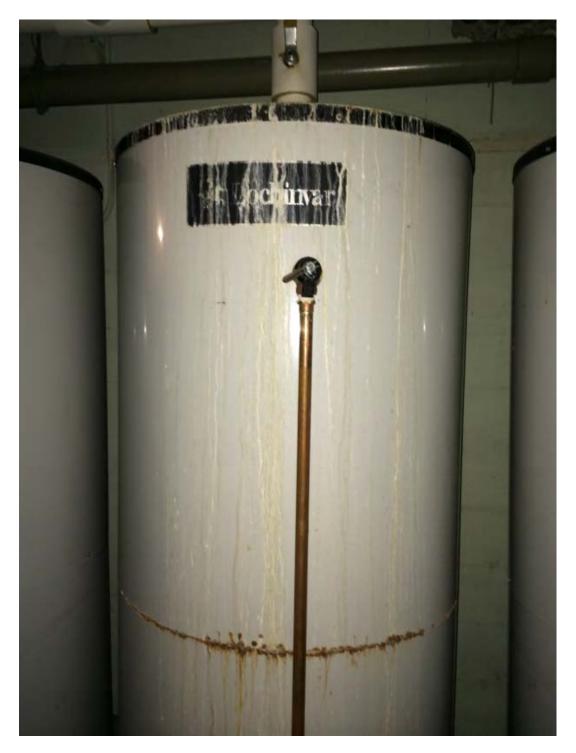




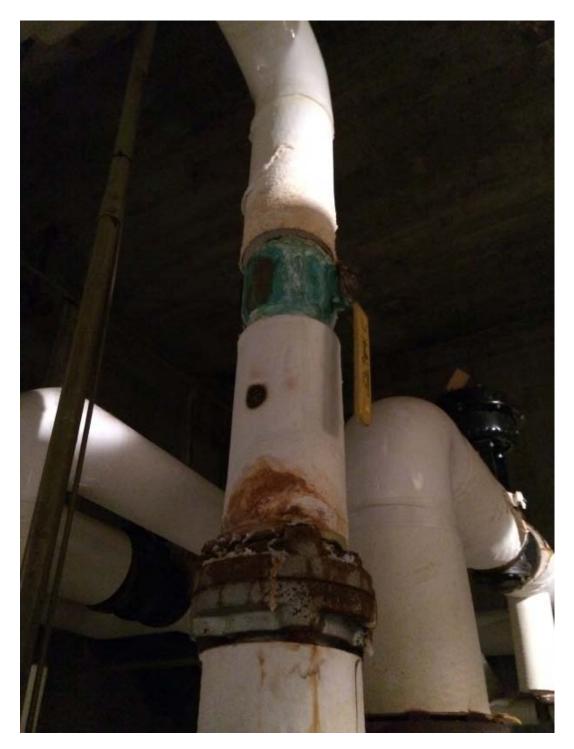






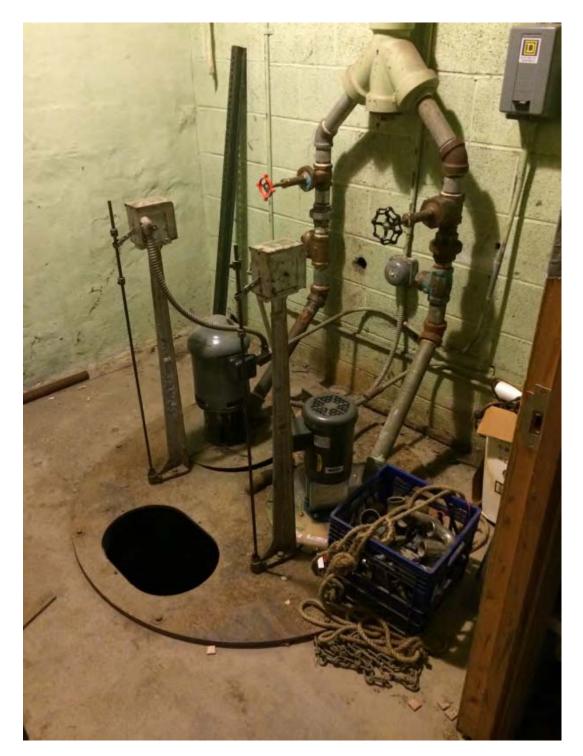




























ES-1A



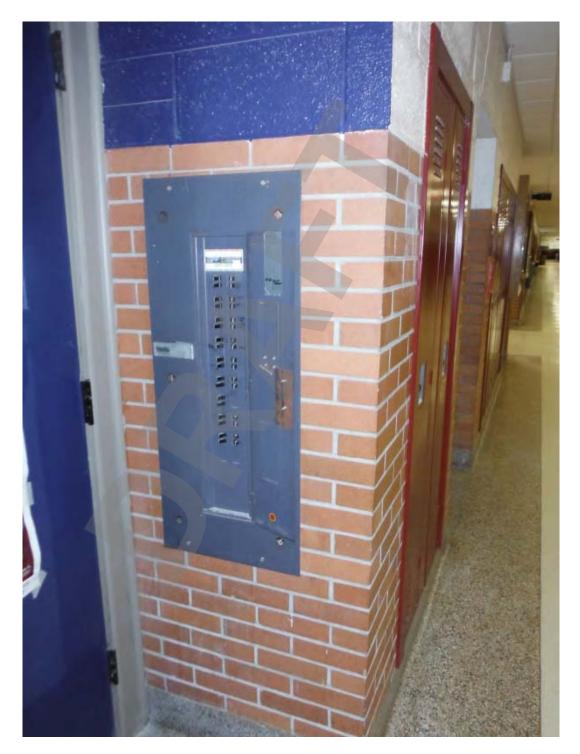
ES-1B



ES-1C



ES-2A



ES-2B



ES-2C



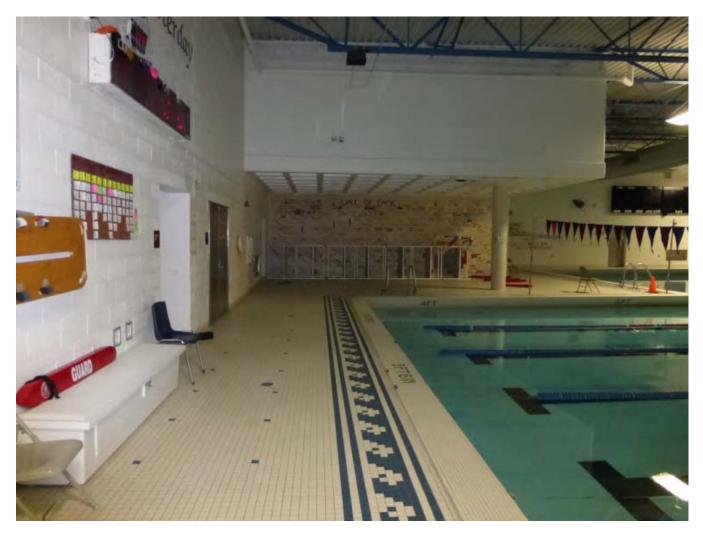
ES-3



ES-5



ES-7A



ES-7B

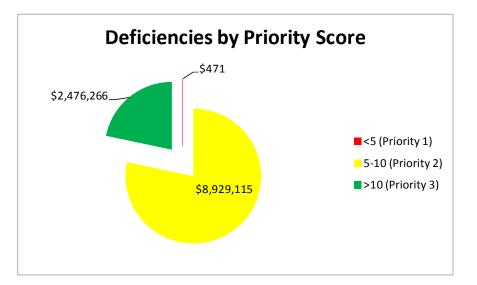


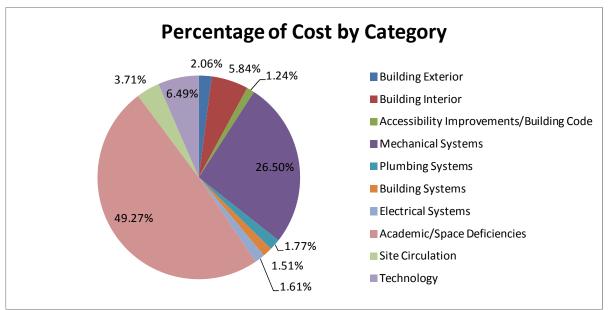
#### **GENERAL OVERVIEW**

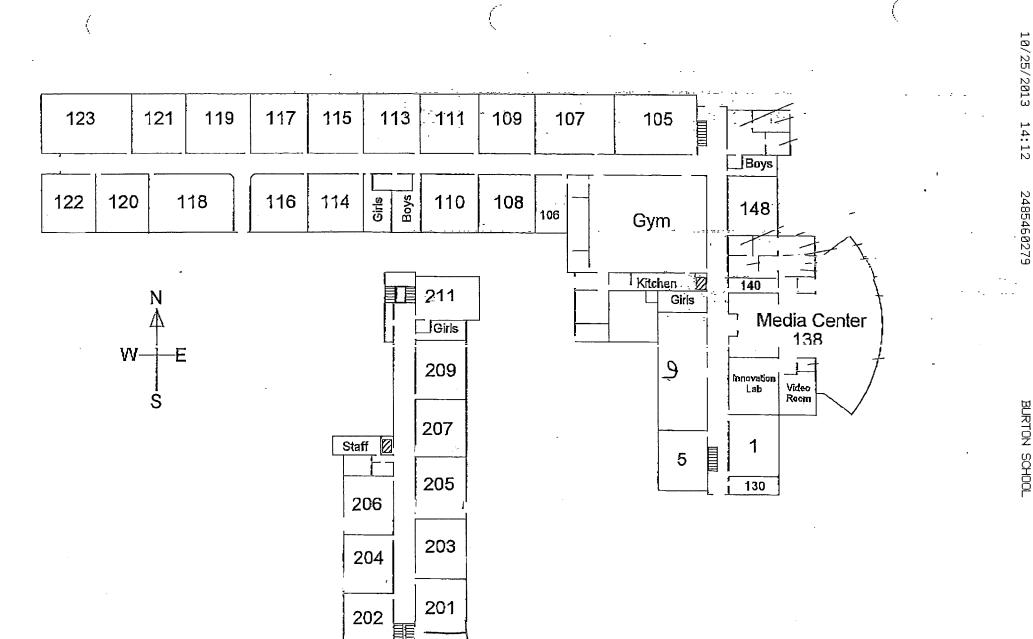
Use:	Elementary School
Year Built:	1926
Total Area:	48,272 GSF
Floors:	2

#### MAJOR FINDINGS

Refer to the following charts for a summary of deficiencies by category and priority score. Note: Lower priority score equals highest urgency.







i

Boys

BURTON SCHOOL

10/25/2013 14:12

PAGE 02/02



		Ite	em No. Code	es					Building Deficienc	ies Priorities	by Categ	ory	Notes										
Bldg. Are No. of Fle Year Buil		AB:       Accessibility Improvement/Building Code         AD:       Academic/Space Deficiencies         BE:       Building Exterior         BI:       Building Exterior         BS:       Building System         ES:       Electrical System         MS:       Mechanical System         SC:       Site Circulation         SE:       Speciatly Equipment/Other         IT:       Technology							Consequences of the ProblemNeed1. Hazards1. Critical2. Interruption2. Urgent3. Deterioration3. Necessar4. Utility4. ADA5. Energy5. Desirable		it ssary	Frequency of Use 1. Constant 2. Frequent 3. Occasional 4. Infrequent 5. Meager	2. Lower 3. Project	score	equals include	refers to items th : higher priority. es 50.8% mark-u es 20.5% mark-u	ups and fee:	s for Facility (	Conditio		ner increase or o	decrease.	
No.	Item/Description	Location	Photo No. Cons. Need Freq. Score Er		Energ	nergy Notes		Action		G	Qty.	Unit	Archite Unit Cost	ctural Subtotal	N Unit C	Nechar ost	nical Subtotal	Elec Unit Cost	subtotal	2014 Project Cos			
BUILDING	GEXTERIOR							<u>II.</u>															
BE-1	Overhangs/Soffits	Entire Building	BE-1	3	3	2	8		Paint is peeling and steel is rusted.		Provide al	luminum soffit panels.	1,	270	SF	\$ 6.00	\$ 7,620	)					\$ 11,49
BE-2	Brick Veneer at Base of Walls	Where roofs drain to pavement adjacent to walls	BE-2	3	3	2	8		Brick and mortar joints deteriorate roof water drainage.			oof drainage where possik n/tuck point brick.	ole 1,	200	SF	\$ 10.50	\$ 12,600	D					\$ 19,00
BE-3	Sealant at Door and Window Openings	Entire Building	BE-3	3	3	2	8		Sealant deteriorated and cracked	d.	Replace s	sealant.	4,	200	LF	\$ 4.75	\$ 19,950	_					\$ 30,08
BE-4	Concrete Steps	South Entrance	BE-4	3	3	2	8		Concrete cracked and deteriorat		Repair co			1	LS	\$ 750.00	\$ 750						\$ 1,13
BE-5	Steel Stair/Ramp Railings	Building Entrances	BE-5	3	3	2	8	<u> </u>	Paint is peeling and steel is rusted.		Paint railin	ngs.	1	00	LF	\$ 5.00	\$ 500	)					\$ 75
BE-6	Door Sills	South and North Entrances	BE-6	3	3	2	8		Concrete is deteriorated, threshol	d missing.	Repair co	ncrete and replace threst	hold.	14	LF	\$ 65.00	\$ 910	)					\$ 1,37
BE-7	Steel Doors and Frames	North and South Entrances of East Wing	BE-7	3	3	1	7		Deteriorated. Excessive door wid causing hardware failures.	hs	fiberglass	eplace with aluminum frames and berglass reinforced panel doors with ide lights to reduce door widths.		4	EA	\$ 2,800.00	\$ 11,200	)					\$ 16,89
BE-8	Gutters	West Elevation, 2nd Story	BE-8	3	3	2	8		Gutter leaks are deteriorating brid	k.	Repair lec	Repair leaks and clean/tuck point brick.			LS	\$ 3,000.00	\$ 3,000						\$ 4,52
BE-9	Entrance Canopy Soffits	Building Entrances	BE-9	3	3	2	8		Deteriorated and paint is peeling.		Provide al	luminum soffit panels.	1	50	SF	\$ 7.50	\$ 1,125	5					\$ 1,69
BE-10	Brick and Mortar	Southeast Entrance Wall	BE-10	3	3	2	8		Brick cracked and deteriorated.		Investigat brick.	e cause and repair/tuck p	point 2	:50	SF	\$ 50.00	\$ 12,500	D					\$ 18,8
BE-11	Glass Block Window	North Entrance	BE-11	1	1	2	4	i —	Sealant at perimeter deteriorated		Replace s	sealant.		50	LF	\$ 4.75	\$ 238	3					\$ 35
BE-12	Clerestory Windows	West Wing	BE-12	4	5	2	11	х	Single glazed glass.		Replace v insulating	with aluminum frames and glass.	d 1,	200	LF	\$ 80.00	\$ 96,000	D					\$ 144,70
	GINTERIOR																				Subtotal - Bu	uilding Exterior	\$ 250,92
BI-1	Original Wood Doors and Frames	Entire building	BI-1	4	3	1	8		Deteriorated, nonfunctional and a meet current code requirements.		Replace v metal frar	with wood doors and hollo mes.	wo	78	EA	\$ 2,350.00	\$ 183,300	)					\$ 276,4
BI-2	Plastic Laminate Counter Tops	Classrooms		4	3	2	9		Delaminating.		Replace v	with solid surface material	I. 3	72	LF	\$ 150.00	\$ 55,800	) \$	75.00	\$ 27,900			\$ 126,22
BI-3	Carpet	Corridors		3	3	1	7		Carpet reaching life expectancy.		Replace o	carpet and resilient base.	6,	780	SF	\$ 7.00	\$ 47,460	)					\$ 71,57
BI-4	Water Leaks	Various areas in basement	BI-4	3	3	2	8	L	Water leaking through exterior wo		•	e cause and repair leaks.		1	LS	\$25,000.00	\$ 25,000						\$ 37,70
BI-5	Stair Door	2nd floor south	BI-5	3	2	2	7	┣──	Broken hinge, door will not latch.		Repair do		and	1	EA	\$ 500.00	\$ 500						\$ 75
BI-6	Former Classroom	Basement	BI-6	4	5	2	11		Currently used for storage.	,	ceiling fini	ion to include floor, wall c ishes, HVAC, fire protectio nd fire alarm.		00	SF	\$ 22.00	\$ 15,400	\$	39.00	\$ 27,300	\$ 9.0	0 \$ 6,300	) \$ 73,89
BI-7	Original Sloped Acoustical Tile Ceilings	West Wing and 2nd Floor Classrooms	BI-7	4	5	1	10		Poor condition.			with acoustical panels with a grid and new lighting (e remain).		,675	SF	\$ 5.00	\$ 83,37	5					\$ 125,73
BI-8	Room Security	Head End Room		1	1	1	3		Key type is not unique to authorize (typical for all buildings).	ed staff	Recore do	oor lock.		1	EA	\$ 75.00	\$ 75	5					\$ 11
ACCESS	BILITY IMPROVEMENT/BUILDING CODE																				Subtotal - B	uilding Interior	\$ 712,39
ACCESS AB-1	Coats Hung Outside of Lockers	Corridors	AB-1	1	4	1	6		Code violation.		Remove o	coats.											1
AB-2	Furniture and Equipment	Corridors	AB-2	1	4	1	6		Loose furniture and equipment no permitted in corridors.	+		urniture and equipment.						1					1
AB-3	Stair Handrail	North and South Stairs to Basement	AB-3	1	4	1	6		Handrail missing from one side of	stair.	Add hanc	drail.		32	LF	\$ 50.00	\$ 1,600	)					\$ 2,41
AB-4	Stair Guardrail	Stairs to 2nd floor	AB-4	1	4	1	6		Guardrails do not meet current co requirements for height.	ode	Add guar	drails.		64	LF	\$ 150.00	\$ 9,600	)					\$ 14,47



		Iter	m No. Code	s					Building Deficienc	ies Priorities	by Catego	ory	Notes										
Bldg. Are No. of Fl Year Buil		AB:       Accessibility Improvement/E         AD:       Academic/Space Deficience         BE:       Building Exterior         BI:       Building Interior         BS:       Building System         ES:       Electrical System         MS:       Mechanical System         PS:       Plumbing System         SC:       Site Circulation         SE:       Specialty Equipment/Other         IT:       Technology	cies					1 2 3 4	Consequences of the Problem <ol> <li>Hazards</li> <li>Interruption</li> <li>Deterioration</li> <li>Utility</li> <li>Energy</li> </ol>		al nt ssary able	Frequency of Use 1. Constant 2. Frequent 3. Occasional 4. Infrequent 5. Meager	<ol> <li>Energy column "X" refers to items that have an energy consumption impact, either increase or decrease.</li> <li>Lower score equals higher priority.</li> <li>Project Cost includes 50.8% mark-ups and fees for Facility Condition Analysis.</li> <li>Project Cost includes 20.5% mark-ups and fees for technology.</li> </ol>										
No.	Item/Description	Location	Photo No.	Cons.	Need	Freq.	Score	Energ	yy Notes			Action	Qty.	Unit	Architectural Unit Cost Subtotal	Mechanical Unit Cost Subtotal		Electrical Unit Cost Subtotal		2014 Project Cost			
AB-5	Barrier Free Toilet Room Doors	1st floor, Boy's adjacent to Offices, Girl's adjacent to Kitchen	AB-5	1	4	2	7		Doors do not have required whee maneuvering space.	I wheelchair Add autor		matic door operators.	2	EA	\$ 1,500.00 \$ 3,000			\$ 1,200.00	\$ 2,400	\$ 8,143			
AB-6	Fire Extinguisher Cabinets	Entire building	AB-6	1	4	2	7		Mounted too high above the floo		Mount ext	inguishers lower.	1	LS	\$ 500.00 \$ 500					\$ 754			
AB-7	Chair and Table Storage Under Stage	Gymnasium	AB-7	1	4	2	7		Code violation considering curren construction of stage.	nt		ge to non-combustible ite											
AB-8	Boy's and Girl's Toilet Rooms	Various locations	AB-8	1	4	2	7		Toilet rooms do not meet current accessibility requirements.		floor/wall/	ew plumbing fixtures, light (ceiling finishes, stalls and c door operators.	ing, 1,135	SF	\$ 40.00 \$ 45,400	\$ 27.00	\$ 30,645	\$ 4.20	\$ 4,767	\$ 121,864			
AB-9	Storage in Stairway	South Stair	AB-9	1	4	1	6		Code violation.			tored items.											
AB-10	Emergency Egress	Former Video Production Room Now Used As Classroom		1	3	2	6		Student occupied room withuot or required emergency egress.	code		gency egress window (re ons to masonry wall).	quires 1	LS	\$ 2,600.00 \$ 2,600					\$ 3,921			
	Subtotal - Accessibility Improvements/Building Code \$ 151,572         MECHANICAL SYSTEMS																						
MS-1	Building Controls	Entire Building	MS-1	2	2	1	5	X	Existing pneumatic controls are o	utdated.	Provide ne	ew DDC controls through	out. 49,00	) SF	l	\$ 3.30	\$ 161,700	1		\$ 243,844			
MS-2	Steam Pipe	Entire Building	MS-2	3	3	1	7	X	61			team mains in tunnels.	570	LF	\$ 5.00 \$ 2,850					\$ 68,765			
MS-3	Condensate Pipe	Entire Building		3	3	1	7	х	X Existing condensate pipe is in poor condition.		Replace c tunnels.	condensate pipe mains in	570	LF	\$ 5.00 \$ 2,850	\$ 50.00	\$ 28,500			\$ 47,276			
MS-4	Steam Trap Maintenance	Entire Building		3	4	1	8	Х				older traps in poor condition	on. 1	LS		\$ 417,000.00	\$ 417,000			\$ 628,836			
MS-5	Pipe Insulation	Entire Building		4	4	1	9	X	Large sections of missing insulatio and condensate pipe.			v insulation and labels.	200	LF		\$ 11.00	\$ 2,200			\$ 3,318			
MS-6	Classroom Unit Ventilators	Entire Building	MS-6	3	3	1	7	Х	Horizontal unit ventilators are in po condition.		ventilators	ew ducted vertical unit ew self-contained DX HVA	19 C. unit	EA	\$ 7,500.00 \$ 142,500	\$ 23,000.00	\$ 437,000	\$ 235.00	\$ 4,465	\$ 880,619			
MS-6A	Classroom Vertical Unit Ventilators - HVAC	Entire Building		5	5	1	11	Х	Existing horizontal unit ventilators of heating and ventilation only.	lie	ventilators		32 Onlin	EA	\$ 7,500.00 \$ 240,000	\$ 27,000.00	\$ 864,000	\$ 2,373.00	\$ 75,936	\$ 1,779,343			
MS-7	Gym HVAC	Gym		5	5	1	11	х	Existing gym unit is heating and ve only.			/ DX rooftop unit, 10-ton 4 new insulated distribution	,000	LS	\$18,000.00 \$ 18,000	\$ 51,000.00	\$ 51,000	\$ 8,010.00	\$ 8,010	\$ 116,131			
MS-8	Office HVAC	Office		3	3	2	8	х	Office area lacks proper ventilation	on.		ew DX cassette unit, ate 2.5-ton unit, thru wall f	resh 1	LS	\$ 1,200.00 \$ 1,200	\$ 12,000.00	\$ 12,000	\$ 2,787.00	\$ 2,787	\$ 24,108			
MS-9	Corridor Heating and Ventilation Units	Roof	MS-9	4	4	2	10	х	Three rooftop units are beyond the life.	eir useful	Replace w	vith like and kind.	3	EA		\$ 27,000.00	\$ 81,000	\$ 3,230.00	\$ 9,690	\$ 136,761			
MS-9A	Corridor HVAC	Roof		5	5	1	11	Х	Existing rooftop units are heating over the testing of	and	each, and	vith HVAC; approximate 5 d insulated ductwork.	3	EA	\$ 3,000.00 \$ 9,000	\$ 35,000.00	\$ 105,000	\$ 4,500.00	\$ 13,500	\$ 192,270			
MS-10	Media Center HVAC	Basement		5	5	1	11	х	Existing unit is in fair condition.		5,500 CFM		1	EA		\$ 35,800.00	\$ 35,800	\$ 4,500.00	\$ 4,500	\$ 60,772			
MS-11	Roof Exhaust Fans	Roof	MS-11	4	4	1	9		, ,			ew roof exhaust fans/relie erage size is 600 CFM.	f 6	EA		\$ 3,250.00	\$ 19,500	\$ 175.00	\$ 1,050	\$ 30,989			
MS-12	Ventilate Tunnel	Tunnel	MS-12	4	3	5	12	Х	X Tunnels are wet. Difficult working Furr conditions.			rmanent ventilation syster	n. 1	LS		\$ 5,500.00	\$ 5,500			\$ 8,294			
MS-13	Condensate Receiver	Basement Main Corridor	MS-13	3	3	1	7		Existing receiver is undersized.		equipmen		1	LS		\$ 9,800.00	\$ 9,800			\$ 14,778			
MS-14	Head End Air Conditioning	Head End Room		4	5	1	10		Some issues with existing unit.			v split air conditioning unit; ately 1.5-tons.	1	EA		\$ 8,500.00		•	-				
																	Sul	btotal - Mecha	nical Systems	\$ 3,232,297			

			Iten	m No. Code	s					Building Deficienci	Notes														
Bldg. Are No. of Fl Year Bui		AB: AD: BE: BI: BS: ES: MS: PS: SC: SE: IT:	Accessibility Improvement/B Academic/Space Deficienci Building Exterior Building Interior Building System Electrical System Plumbing System Site Circulation Specialty Equipment/Other Technology							Consequences of the ProblemNeed1. Hazards1. Critical2. Interruption2. Urgent3. Deterioration3. Necess4. Utility4. ADA5. Energy5. Desirab			1. Constant	<ol> <li>Energy column "X" refers to items that have an energy consumption impact, either increase or decrease.</li> <li>Lower score equals higher priority.</li> <li>Project Cost includes 50.8% mark-ups and fees for Facility Condition Analysis.</li> <li>Project Cost includes 20.5% mark-ups and fees for technology.</li> </ol>											
No.	Item/Description		Location	Photo No.	Cons.	Need	Freq.	Score	Ener	gy Notes			Action	Qty.	Unit	Archi <sup>.</sup> Unit Cost	tectural Subtotal	Mechanical Unit Cost Su	btotal	Electrical Unit Cost Subtotal		2014 Dject Cost			
	G SYSTEMS						-		1		I								5 500						
PS-1	Sump Pump	Basem			3	3	5	11	H	Existing sump system is in disrepair 50% of existing domestic water pip	e is	Rebuild exis		1	LS			\$ 5,500.00 \$	5,500	\$ 1,200.00 \$ 1,20	0 \$	10,104			
PS-2	Domestic Water Pipe		Building	PS-2	2	3	1	6	-	galvanized steel. Existing gate valves at water mete	r are in		th copper pipe.	20,000		\$ 0.50	\$ 10,000		65,000		\$	113,100			
PS-3	Water Meter Isolation Valves	Boiler R		PS-3	2	3	5	10	_	poor condition.	h	•	ree (3), 3" gate valves.	3	EA				8,250		\$	12,441			
PS-4	Sanitary Pipe		Building	PS-4	3	3	1	7		Sanitary pipe is in poor condition. Existing drinking fountains are in fa			cessible portions. v bi-level electric water	10,000		\$ 0.50			35,000		\$	60,320			
PS-5	Water Cooler	Main C	Corridor	PS-5	4	4	1	9		condition.	, C	coolers.		3	EA	\$ 250.00	\$ 750	\$ 3,000.00 \$	9,000			20,132			
BUILDING	G SYSTEMS																		S	ubtotal - Plumbing System	s Ş	216,096			
BS-1	Fire Alarm System	Entire B	Building		2	3	3	8		Existing system is outdated and dif maintain	ficult to	Install new	addressable system	1	Lot					\$ 103,785.00 \$ 103,78	\$5 \$	156,508			
BS-2	Emergency Lighting	Corrido	ors, Gym, Media Center		1	3	4	8		Spacing of existing battery units exceeds requirements		Install new (	units in existing fixtures	52	EA					\$ 300.00 \$ 15,60	00 \$	23,525			
BS-3	Boiler Room EPO	Boiler R	Room		3	3	3	9		Boiler room does not have an eme power off system as required by c	· ·	Install Boiler	Room EPO system.	1	LS			\$ 2,720.00 \$	2,720		\$	4,102			
	•			•		-				• •	•			•		•	•	• •		Subtotal - Building System	s Ş	184,134			
ELECTRIC ES-1	Electrical Distribution System	Boiler R	Room	ES-1	2	3	1	6	Г	Original electrical distribution equi obsolete and a safety concern.		Replace the	e original distribution with new	1	EA					\$ 15,900.00 \$ 15,90	0 \$	23,977			
ES-2	Electrical Panels	Corrido	ors to Serve Classrooms	ES-2	2	5	1	8		Original electrical panels are obsc are sometimes located behind do	lete and	Replace the	e original panels with new els in new locations.	, 8	EA					\$ 4,875.00 \$ 39,00	00 \$	58,812			
ES-3	Electrical Receptacles	Child U	lse Areas		1	3	2	6		Electrical receptacles in child care are required to be inaccessible to			receptacles with tamper e receptacles.	1	EA					\$ 55.00 \$ 5	55 \$	83			
ES-4	Exit Lighting Fixtures	Classra	poms		4	3	4	11	х	Rooms over 1,000 SF require 2 exits signs.	with exit	Add exit sig	ns.	1	LS					\$ 300.00 \$ 30	00 \$	452			
ES-5	Exterior Lighting	Exterior	r Doors	ES-5	1	2	2	5	Х	Lighting fixtures are in disrepair.			th more efficient LED fixtur		EA					\$ 520.00 \$ 3,64	10 \$	5,489			
ES-6	Site Lighting	Parking	g Lot		3	5	3	11	Х	Inadequate lighting.	r	match Huni	th more efficient LED fixtur tington Woods standard.	4	EA	\$ 6,000.00	\$ 24,000			\$ 8,960.00 \$ 35,84	10 \$	90,239			
ES-7	Uninterruptible Power Supply	Main C	Office		1	3	4	8		Maintain operation during power interruptions		Provide 5 k <sup>v</sup> PA and Pho	VA UPS to serve Key Fob e ones	ntry, 1	EA					\$ 11,300.00 \$ 11,30		17,040			
																			S	ubtotal - Electrical System	s Ş	196,093			
	New Fine Arts Wing	Building	g Addition		4	3	1	8		Existing space is inadequate. This v the current art spaces for new use sensory rooms, kindergarten work storage, etc.	s such as t rooms, c	the current	art spaces for new uses su ooms, kindergarten work	ich	SF	\$ 225.00	\$1,366,875				\$	2,061,248			
AD-2	Dedicated Cafeteria	Building	g Addition		4	3	1	8	Γ	Existing building lacks dedicated c	afeteria. B	Build new c	afeteria.	6,250	SF	\$ 250.00	\$1,562,500				\$	2,356,250			
AD-3	New Large Group Instruction	Building	g Addition		4	3	1	8		Existing building lacks dedicated la instructional space.	arge E	Build new lo	arge group instruction suite	e. 2,500	SF	\$ 200.00	\$ 500,000				\$	754,000			
AD-4	Teacher Work Room	Old Mu	usic Room		4	3	1	8		Existing building lacks an adequat work room.		Renovate n room.	nusic room to be teacher	work 700	SF	\$ 100.00	\$ 70,000				\$	105,560			
AD-5	New Science Lab	Building	g Addition		4	3	1	8		Existing building lacks dedicated s lab.	cience E	Build new so	cience lab.	1,620	SF	\$ 300.00	\$ 486,000				\$	732,888			
					-	-			-						-	-		Subto	tal - Aca	demic/Space Deficiencie	s Ş	6,009,946			

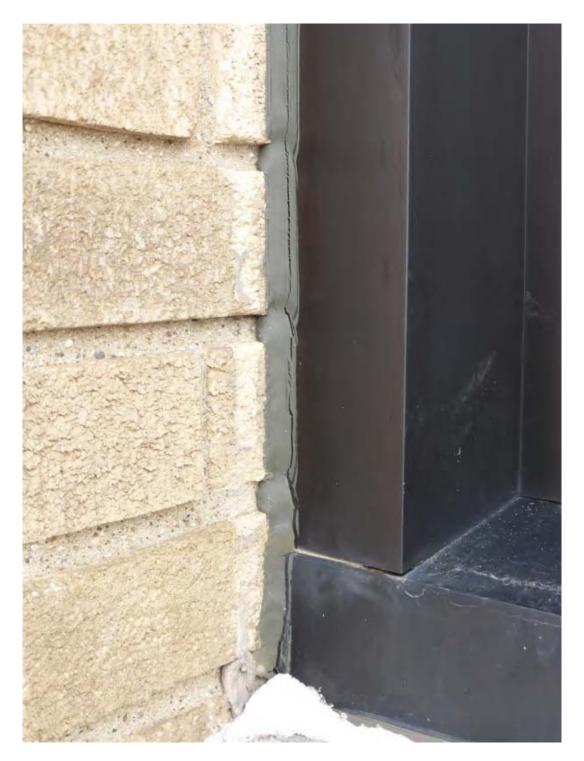
A -l -l		AD:       Academic/Space Deficiencies         BE:       Building Exterior         BI:       Building Interior         BS:       Building System         ES:       Electrical System         MS:       Mechanical System								Building Deficienc	ies Priorities	by Categ	ory	Notes											
Bldg. Area: No. of Floo Year Built:										sequences of the Problem     Need       azards     1. Critico       terruption     2. Urgen       eterioration     3. Nece:       hergy     5. Desirco		t ssary	1. Constant 3		<ol> <li>Energy column "X" refers to items that have an energy consumption impact, either increase or decrease.</li> <li>Lower score equals higher priority.</li> <li>Project Cost includes 50.8% mark-ups and fees for Facility Condition Analysis.</li> <li>Project Cost includes 20.5% mark-ups and fees for technology.</li> </ol>										
No.	Item/Description		Location	Photo No.	Cons.	Need	Freq.	Score	Energy	y Notes			Action	(	Qty. l	Unit	Architectural Unit Cost Subtot	al Ur	Mechar nit Cost	nical Subtotal	Elect Unit Cost		2014 Project		
SITE CIRCU	LATION																		•						
SC-1 P	Parking	Site			4	4	1	9		Quantity of parking is inadequate			tional parking to the site. F the right is an allowance.	igure	1	LS	\$ 175,0	00					\$ 26	63,900	
SC-2 S	itudent Drop-off	Site			4	4	1	9		Student drop-off is inadequate.			lify student drop-off to the own to the right is an allow		1	LS	\$ 125,0	00					\$ 18	88,500	
<b>U</b>		8			8																Subtotal - Sit	e Circulation	\$ 45	52,400	
TECHNOLO						1		-	-	-								-					_		
IT-1 R	Refer to Tab 12 for breakdown																					<u> </u>	<u> </u>		
																					Tec	hnology Total	\$ 79	91,945	

Note: Shaded items are shown for reference only and not included in the deficiency total.

Total Project Cost \$ 12,197,798

















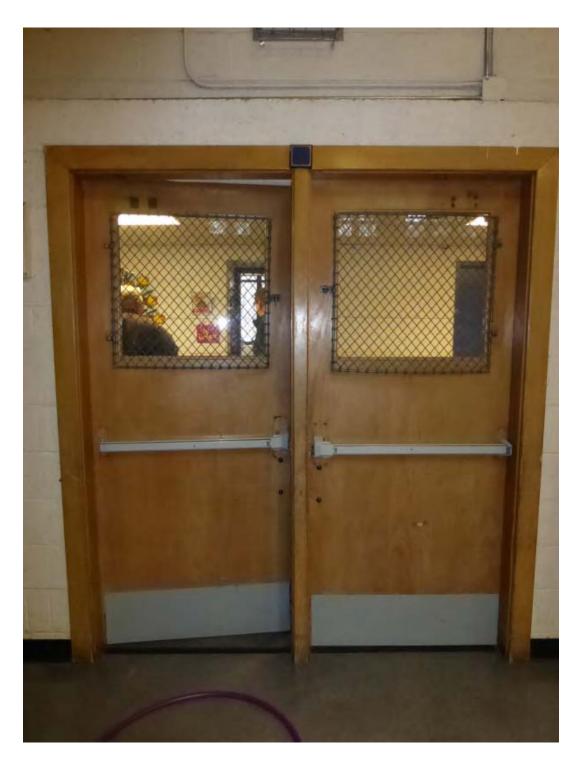




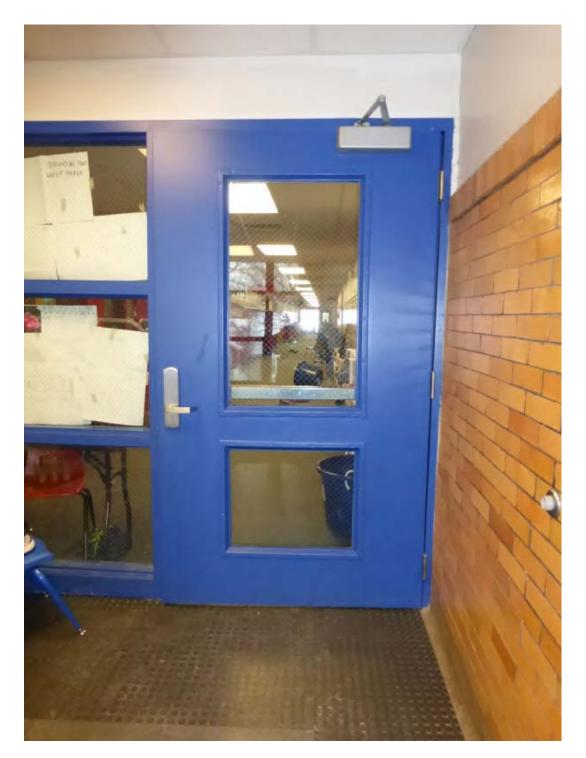


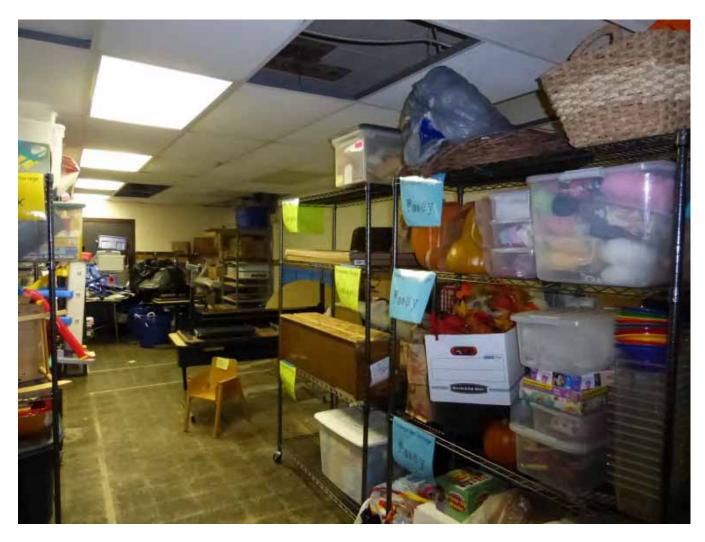


BE-12





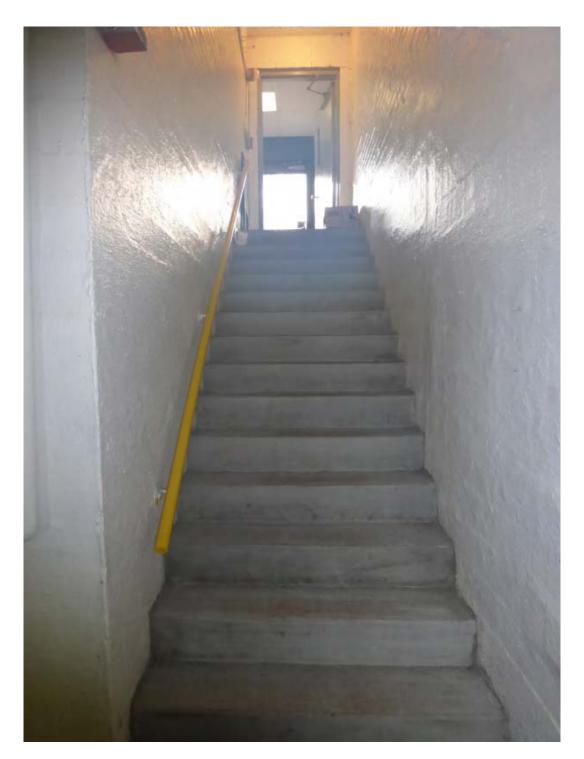


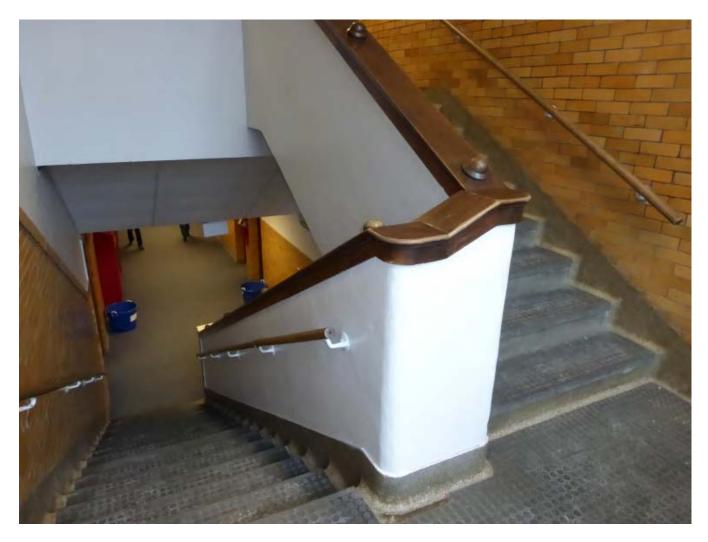


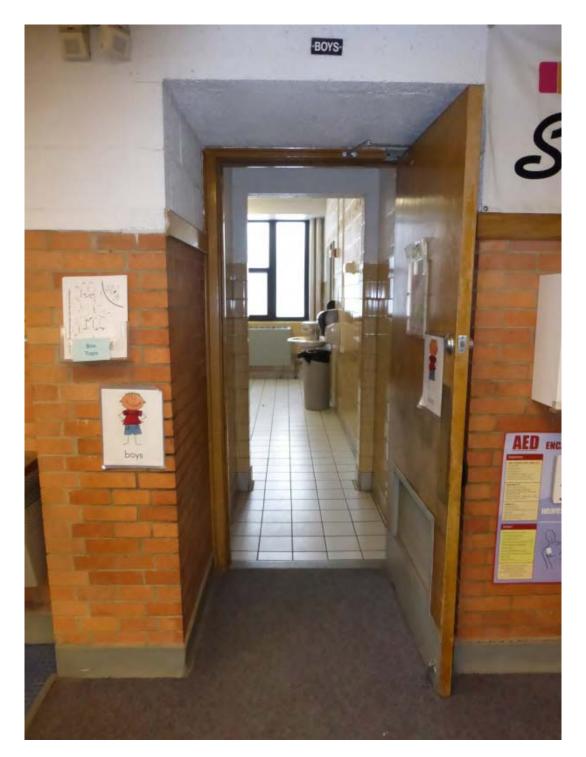


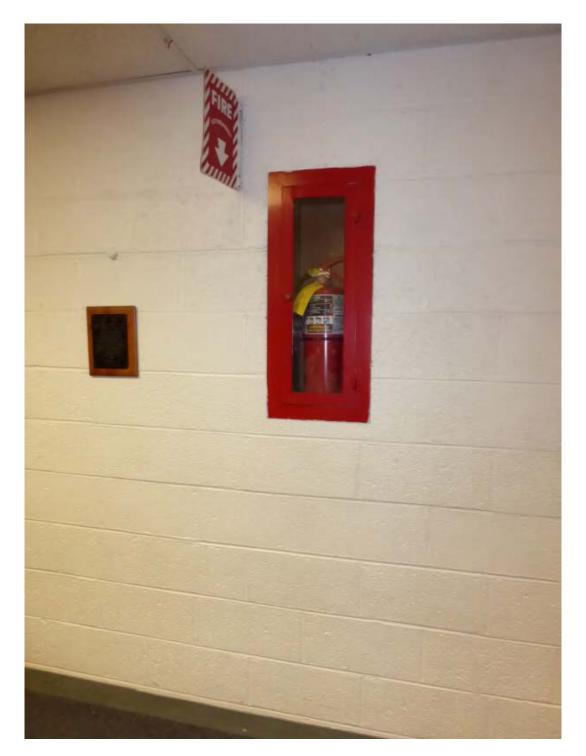




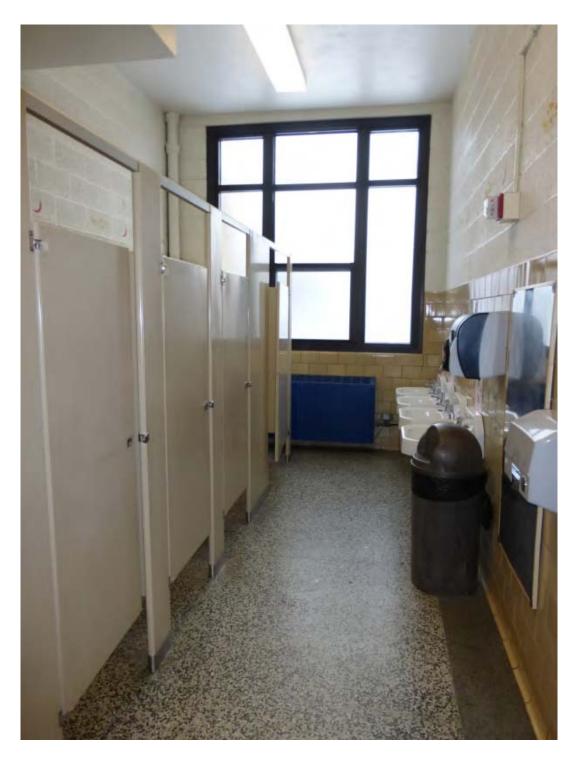




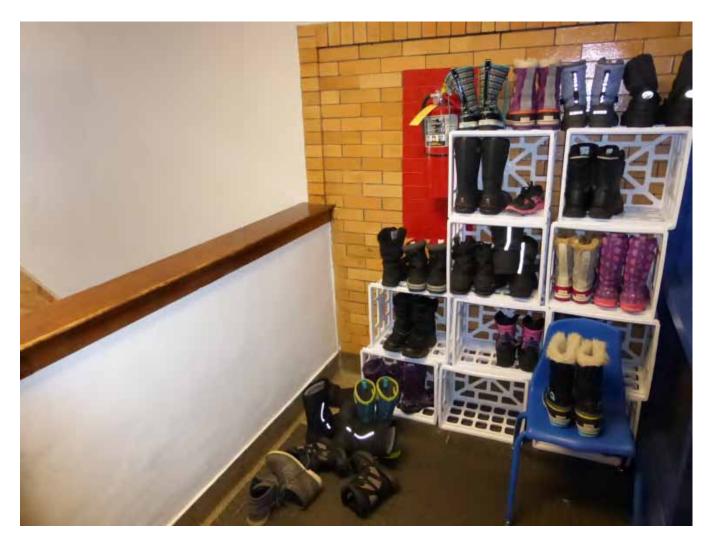






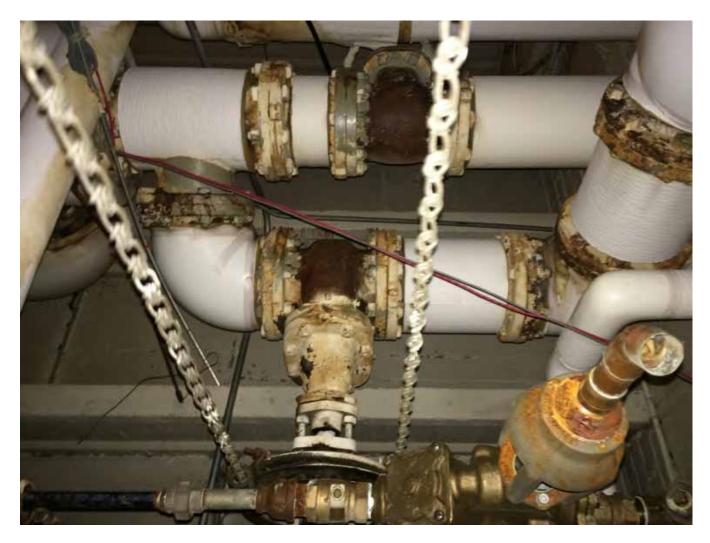


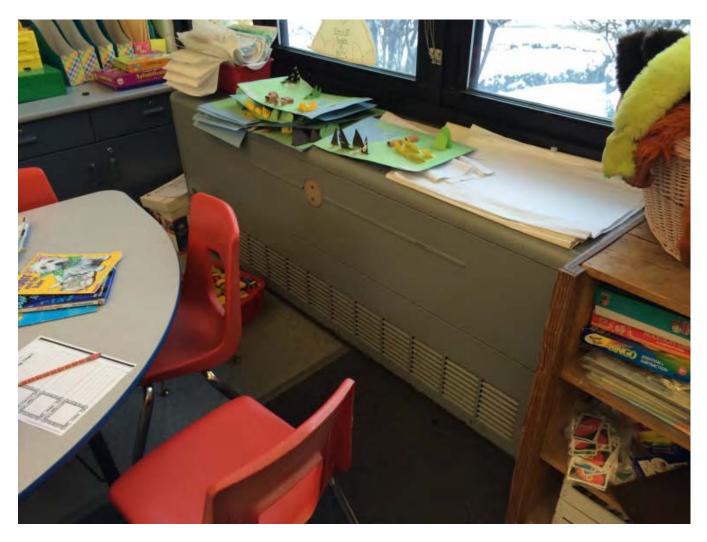
AB-8



AB-9

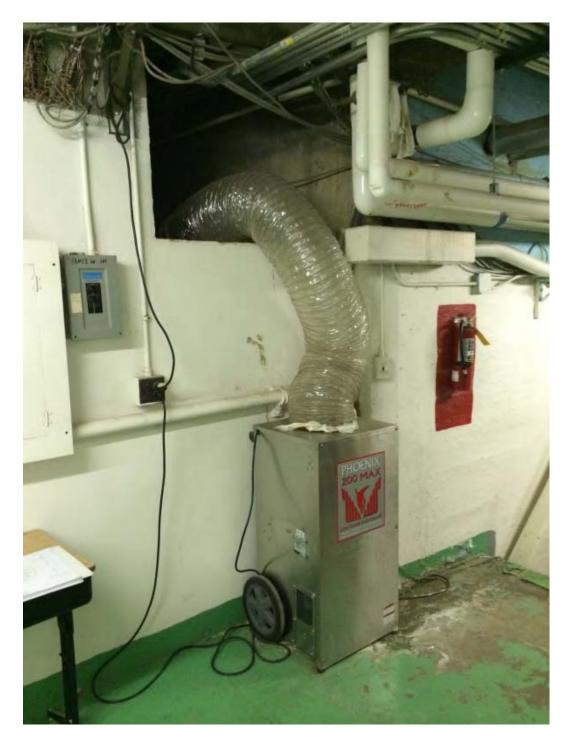






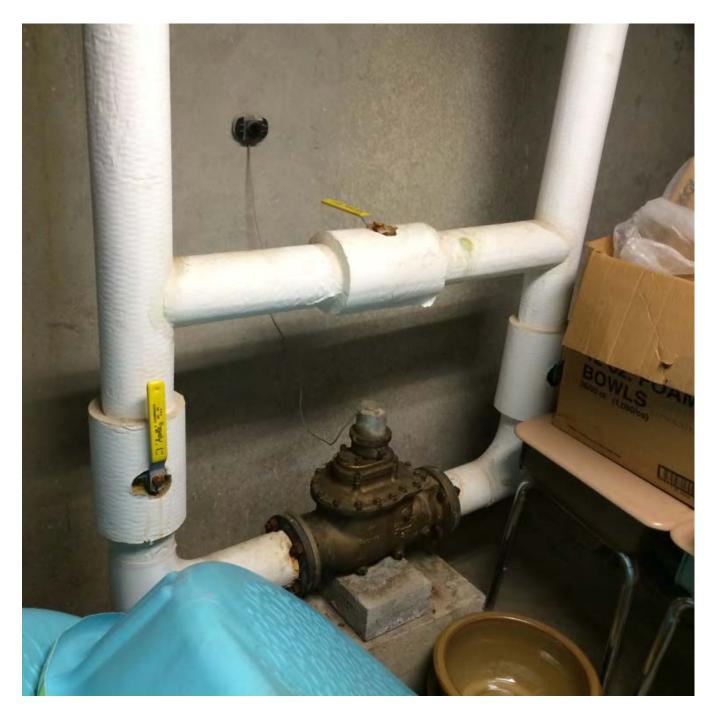




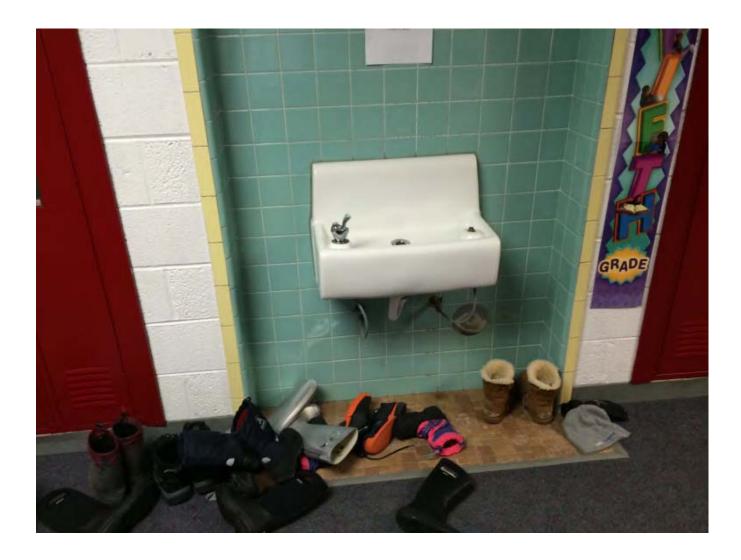


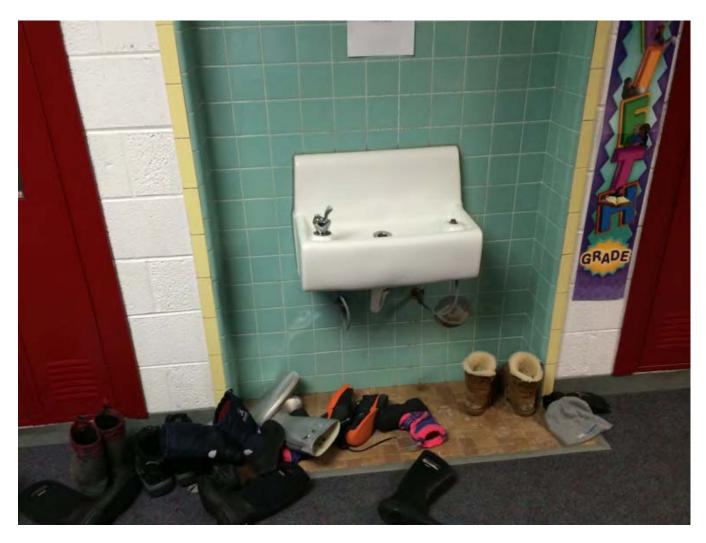














ES-1



ES-2



ES-5