RECAPP Facility Evaluation Report



Medicine Hat High School B3772A Medicine Hat

Report run on: January 30, 2006 1:25 PM

Medicine Hat - Medicine Hat High School (B3772A

Facility Details	Evaluation Details
Building Name: Medicine Hat High School	Evaluation Company: Baird & Bergum Architects
Address: 200 - 7 Street S. W.	Evaluation Date: December 1 2004
Location: Medicine Hat	Evaluator Name: Mr. Robert Baird
Building Id: B3772A	
Gross Area (sq. m): 0.00	
Replacement Cost: \$61,062,612	
Construction Year: 0	Total Maintenance Events Next 5 years:\$4,860,000
	5 year Facility Condition Index (FCI): 7.96%

General Summary:

Medicine Hat High School serves grades 9 to 12. The original, 3,940 sq.m., one story, building was constructed in 1952. A three story, 11,148 sq. m. addition was built to the east of the original building in 1953. Additional third floor space, of 840 sq.m., was added in 1957. In 1962, a separate, 14,471 sq. m., two story building was constructed to the south. The second floor of the 1962 building is connected to the north buildings' second floors by two skywalks, constructed as part of the 1962 building. In 1965 two separate, two story buildings, totaling 2,225 sq.m., were constructed. One, a two story shop building, was connected to the S.W. corner of the original 1952 building. The other, a two story drama/band building, was built in the central area between the north and south buildings and the two skywalks. A 500 sg.m., two story additon, was added to the east side of the 1965 drama/band building in 1993. A small 162 sq.m. one story, expansion to the cafeteria, was built in 2000. The resulting total area of the school is 33,286 sq.m. There has been minor interior renovations and boiler upgrading in 1966/77/78. A small 1981 modenization renovated the 1962 building's cosmetology classroom and replaced flooring in the upper corridors of the 1953/57/62 buildings. The windows in the 1953/57 building were replaced in 1983. There was a boiler replacement in 1988. A 1992/93 major modernization, replaced the 1952 building's exterior doors and windows, and totally renovated the 1952 building's interior into a science area, the 1965 drama/band building's lecture classroom into a theatre in conjunction with an addition. The N.E. washrooms of the 1962 building were also replaced in 1993, with barier free washrooms on both floor levels. In 1998/99 new foods classrooms were created from former, general classroom areas in the 1962 building and the S.E. main floor washrooms, were renovated and made barrier free, and south entry lobby retiled. Major modernizations in 2000 totally renovated the 1962's south gymnasium, adjacent change/shower rooms, cafeteria, and central, main floor corridor. 2001 major renovations were done to the 1953 building's north entry lobby, gymnasium, change/shower rooms, fitness centre and student washrooms. An elevator was also installed. Eventhough some major modernizations have been done, most of the 1953/57and 1962 buildings still have original interior finishes, millwork, doors and hardware, and they should be replaced. An elevator needs to be installed in the 1962 building.

The high school site is mainly covered by buildings and asphalt paved areas. There are landscaped and irrigated grassed areas in front of the north and south buildings, and around the north and west sides of the central drama/band building. Concrete sidewalks, steps and ramps to all, but the north building's main entry, are in acceptable condition. All asphalt areas require resurfacing. The irrigated, grass playing field area is shared by an adjacent elementary school, and the high school's portion is too small. Sections of the chainlink fencing need replacement. Underground mechanical and electrical utilities are supplied by the City and are in acceptable to good condition. Car plug-ins and site lighting are in acceptable condition.

The 1993 and 2000 additons and areas modernized from 1993 to 2001 are in good to excellent condition, the remainder of the school is in poor to marginal condition.

Structural Summary:

The original 1952, one story building has standard concrete foundations and footings, a concrete slab on grade floor, masonry walls, steel columns, beams and steel joists, with structural wood roof decking. The 1953 (1957 top floor addition) building construction is standard concrete foundations and footings, concrete slab on grade, masonry walls, cast-in-place concrete columns, and beams, with cast-in-place concrete floors and roof slabs. The 1953 building has a mechanical service tunnel, constructed of cast-in-place concrete walls, around the slab on grade gymnasium. The gymnasium roof is wood shiplap boards on wood purlins on steel beams supported by steel columns. Adjacent south change room roof is 75mm concrete slab on steel joists, supported by masonry walls. The 1962, two story building has a concrete pile and grade beam foundation, concrete slab on grade main floor, masonry walls, with precast concrete columns, and beams. The floor and roof are precast concrete double tee joists, with concrete topping on the floor joists. In 1965, two separate, two story buildings, were constructed of masonry walls with steel columns, beams and joists. The 1965 drama/band building has a cast-in-place second floor slab. the roof is steel joists with wood decking. In 1993, a two story addition to the drama/band building was constructed with standard concrete foundations, concrete slab on grade lower floor. The second floor is metal decking and concrete topping, supported by load bearing concrete block walls, steel beams and steel channel floor joists.

It has a steel joist with metal decking roof. In 2000, a small, one story addition was built onto the 1962 building's cafeteria. It is constructed with a standard concrete foundation, slab on grade floor, loadbearing concrete block pony wall with HSS structural steel columns and roof joists, supporting vertical and sloped glass. Overall, the school's building structures are in generally acceptable to good condition.

Envelope Summary:

The original buildings have brick masonry, precast and cast-in-place concrete exteriors with brick and concrete block backup walls. Original wall insulation and vapor barriers are non-existent or poor. Additions in 1993 and 2000 have brick veneer with cavity wall insulation, on air/vapor barrier adhesive, on backup concrete block walls. The windows and doors in the 1952 building were replaced in 1993, with new aluminun doors and windows. Exterior doors, hardware and windows in all of the 1962/65 buildings need replacing. EPDM and BUR reroofing and roof insulation upgrading has been done in 1992-1998. Additional roofing and insulation upgrading needs to be done to the remaining areas of the 1953/1957 and 1962 buildings. Except for recent additions and reroofing, the building envelopes are in marginal to acceptable condition.

Interior Summary:

The interior of the 1952 building was modernized in 1993 into a science area, with porcelain tile flooring in corridors, linoleum in classrooms and suspended T-bar ceilings. The classrooms and prep areas have varnished birch cabinets with acid resistant plastic laminate tops. An enclosed handicapped lift, and two wheelchair platform lifts were installed, in this area and the adjacent building, to improve barrier free access in this part of the school. An additional enclosed lift needs to be installed to provide access to the lower floor. A 1993 addition and modernization, renovated a former 1965 building lecture classroom into a theatre with carpeted concrete risers and a sprung, hardboard, floor level, stage area with adjacent rehearsal and dressing areas. Modernizations in 1993,1998/99, 2000 and 2001 to other areas of the school, renovated the washrooms to provide barrier free access. Most of the washrooms have individual, concrete block toilet closets with porcelain tile floor, ceramic tile wall finishes and birch doors. The totally renovated north and south change/shower rooms have porcelain tile flooring and ceramic tile walls, T-bar ceilings, prefinished steel toilet compartment and lockers. The south gymnasium was extensively renovated in 2000, with a new acoustic metal deck ceiling, vinyl divider curtain, and retracable bleachers. The stage in the north gymnasium was removed and cushioned rubber flooring installed to create an exercise area. The lower floor fitness centre also has cushioned rubber flooring. An enclosed lift was installed to access this area by wheelchairs. The cafeteria and adjacent lobby and corridor have porcelain tile flooring and T-bar ceilings, installed in 2000. Two foods labs were renovated in 1998/99 with porcelain tile flooring, and birch cabinets with plastic laminate countertops. A hydraulic elevator was installed in th 953/57 building to provide barrier free access to all three levels. An additional elevator is required in the two story 1962 building to completely provide barrier free access to the entire school. Most of the other 1953/1957/1962 and 1965 have original finishes, millwork, doors and hardware, all requiring replacement or upgrading.

The interiors in renovated areas are in good to excellent condition. The interiors that are still original, are in marginal condition.

Mechanical Summary:

The school is served by two boiler plants located on the north side of the 1962 addition and in the 1952 original building. The 1952 building plant was replaced in 1988 with two large water tube boilers and a plate and frame heat exchanger for coil isolation. The domestic water boiler was replaced in 1988 as well. The 1962 addition plant was replaced in 1986 and consists of two very large fire tube boilers. The domestic water boiler was built in 1962 and should be replaced.

1952 original building had a major modernization in 1993. New VAV air handler with D/X cooling, VAV air terminals with reheat, perimeter radiation, and an EMCS were all installed. The above grade hydronic heating and plumbing was replaced. Fire protection is provided by fire hose cabinets and fire extinguishers. The mezzanine mechanical room has a wet pipe sprinkler system. The 1952 building is in good condition.

The hydronic plumbing and perimeter heating was replaced in the 1953 addition in 1981. Washrooms and locker rooms were redone in 2000 complete with new fixtures. The air handlers are 1953 vintage and are in need of some repair. The above grade waste plumbing should be replaced as several failures have occurred. The controls system is pneumatic and should be replaced. Fire protection is provided by fire hose cabinets and fire extinguishers.

The 1962 addition has all original equipment excluding the washrooms which were renovated in 2000 and D/X cooling added to the north air handlers. The hydronic heating should be replaced as the piping has failed several times and valves do not work to isolate sections of pipe. The air handlers are located in three plenum rooms which draw return air from the corridors. Return air ductwork should be added to bring this up to code and acoustically insulating the room

would help the noise transfer to the corridor. The control system is pneumatic and should be replaced. Fire protection is provided by fire hose cabinets and fire extinguishers.

The 1965 buildings remain original. HVAC in both buildings is provided by a coiled multizone until located in penthouses. The Drama/Band building has cooling. An addition was constructed to the Drama/Band Building and HVAC is provided by a single zone coiled air handler. The control systems are pneumatic. Fire protection is provided by fire hose cabinets and fire extinguishers.

Overall the mechanical equipment and systems are acceptable.

Electrical Summary:

The school has a high voltage switchgear and is primary metered. There are two main electrical distributions in the 1952 Bld. and the 1962 Add. with sizes of 2000A and 1600A 208V 3ph 4w respectively. The school board office feeder is feed from one of these distributions and is causing voltage drop problems. A new service should be brought into the school board office.

The lighting is T8 fluorescent in the 1952 Bld. with dimming ballasts. The ballasts do not work properly and cause the tubes to burn out prematurely. The ballasts should be replaced. The remainder of the school is mostly lit with T12 fluorescent and magnetic ballasts which should be replaced due to their high energy consumption. The mercury vapour lighting in the 1953 gymnasium should also be replaced. Emergency and exit lighting should also be retrofitted throughout.

Two of the three fire alarm systems should be replaced in the building as parts are no longer available. The clock program system should be replaced as it no longer works properly.

Overall the electrical equipment and systems are marginal.

Rating Guide		
Condition Rating	Performance	
1 - Critical	Unsafe, high risk of injury or critical system failure.	
2 - Poor	Does not meet requirements, has significant deficiencies. May have high operating/maintenance costs.	
3 - Marginal	Meets minimum requirements, has significant deficiencies. May have above average operating maintenance costs.	
4 - Acceptable	Meets present requirements, minor deficiencies. Average operating/maintenance costs.	
5 - Good	Meets all present requirements. No deficiencies.	
6 - Excellent	As new/state of the art, meets present and foreseeable requirements.	

S1 STRUCTURAL

A1010 Standard Foundations*

1950, 1953 1965 1993,2000: Cast-in-place concrete foundation walls on continuous footings. Concrete pad footings under interior columns and strip footings under interior masonry walls, and interior concrete crawlspace and service tunnel walls.

Rating	Installed	<u>Design Life</u>	Updated
5 - Good	0	100	DEC-04

A1020 Special Foundations

1962: "Franki" piles, cast-in-place concrete pile caps and grade beams to south building.

Rating	Installed	Design Life	<u>Updated</u>
5 - Good	0	0	DEC-04

A1030 Slab on Grade*

Concrete slabs on grade to all the lower floors.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	100	DEC-04

A2020 Basement Walls*

1953,1965, 1993: North and partial east and west walls are below grade. 1953: Crawlspace and service tunnel below building's west wing. Service tunnel around building's gymnasium and small basement area at east end of gymnasium. Basement walls are cast-in-place concrete.

Rating	Installed	Design Life	Updated
5 - Good	0	100	DEC-04

B1010.01 Floor Structural Frame*(Building Frame)

1953/57: Cast-in-place concrete exterior and interior columns, beams and floor slabs. Concrete slabs have clay tile fillers. 1962: Precast concrete exterior and interior columns, beams and precast double tees floor structure. Skywalks have precast concrete beams and 150mm precast concrete joists. 1965 (Drama/ band building): Steel columns, beams and masonry walls supporting cast-in-place concrete floor slab. 1965: (Shop building): Steel columns, beams and joists. 1993: Concrete block walls, steel beams and steel channel joists.

Rating	Installed	Design Life	Updated
5 - Good	0	100	DEC-04

B1010.02 Structural Interior Walls Supporting Floors*

1953/57: brick masonry stairwell walls. 1993: Concrete block walls.

Rating	Installed	Design Life	Updated
5 - Good	0	100	DEC-04

B1010.03 Floor Decks, Slabs, and Toppings*

1953: 32mm concrete topping on concrete floor slabs. 1962: 50mm lightweight concrete topping on precast concrete double tees. Skywalks have 50mm concrete topping on 50mm rigid insulation on precast concrete double tees. 1965 (Shop building): Metal deck with 75mm concrete topping on steel joists. 1993: Metal deck with concrete topping.

Rating	Installed	Design Life	<u>Updated</u>
5 - Good	0	100	DEC-04

B1010.05 Mezzanine Construction*

1952: Steel columns, beams and joists with wood decking. 1953: masonry walls with wood decking. 1962: Precast concrete columns, beams and double tee joists.

Rating	Installed	Design Life	<u>Updated</u>
5 - Good	0	100	DEC-04

0 DEC-04 100

B1010.06 Ramps: Exterior*

2000: Cast-in-place concrete ramps to south 1962 building entry 1993: Cast-in-place concrete ramps to N.W. 1953 building entry. Painted steel pipe handrails and guardrails, to both ramps.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	0	40	DEC-04

B1010.07 Exterior Stairs*

1962: Concrete steps, with cast iron nosings, to south building's south and east entries. 1965: Concrete steps to drama/band building's north entry. 1993?: Concrete steps to N.W. 1953 building entry. 1993: Painted, steel stairs to upper floor exit door on south side of drama/band building. All: Painted steel pipe handrails and guardrails.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	0	40	DEC-04

B1020.01 Roof Structural Frame*

1952:Steel columns, beams, and joists, with wood roof decking. 1953: Wood joists, with wood shiplap decking over low administration area. 1953: Steel columns and beams with wood purlins and shiplap decking to gymnasium roof. Masonry walls, steel joists and 75mm concrete roof to change rooms south of gymnasium. 1953/57:Cast-in-place concrete columns, beams, and roof slab, to west and south classroom wings. 1962: Precast concrete columns, beams and double tee roof joists. 1962: Skywalk roofs are 150mm precast concrete slabs supported by precast concrete beams and columns. 1965: Steel columns, beams and joists with wood roof decking. 1993: Load bearing concrete block walls, steel beams and joists with metal, roof decking. 2000: Low, loadbearing concrete block walls, with steel HSS columns, steel beams, steel channel roof joists, and metal decking.

Rating	Installed	Design Life	Updated
5 - Good	0	100	DEC-04

B1020.04 Canopies*

1962: Precast concrete columns, beams and roof joists to south entry and N.W. entry canopies. 1965: Steel columns, beams and steel angles with 40mm wood decking.

Rating	Installed	Design Life	Updated
5 - Good	0	100	DEC-04

B1020.06 Roof Construction Fireproofing*

1993: Fire retardant coating sprayed on underside of wood roof decking, in 1965 drama/band building. 1993: Intumescent paint sprayed to underside of wood decking in 1952 building, prior to suspended T-bar ceiling installation.

Rating	Installed D	esign Life	Updated
5 - Good	0	100	DEC-04

S2 ENVELOPE

		*
B2010.01.01 Precast Cond	crete: Exterior Wall Ski	<u>n^</u>
1962: Exposed precast co	ncrete columns and bea	ams.
Rating	Installed Design Life	
5 - Good	0 75	DEC-04
B2010.01.02.01 Brick Mas	onry: Ext. Wall Skin*	
1952,1953/57,1962, 1965	, 1993, 2000: Brick exte	rior.
Rating	Installed Design Life	
5 - Good	0 75	DEC-04
B2010.01.06.03 Metal Sidi	ing*	
1993: Prefinshed metal sic	ding on north and west w	alls of roof penthouse.
Rating	Installed Design Life	<u>updated</u>
5 - Good	0 40	DEC-04
B2010.01.08 Portland Cer	nent Plaster: Ext. Wall*	
1965: Roof penthouse - St	tucco exterior finish.	
Rating	Installed Design Life	e <u>Updated</u>
4 - Acceptable	0 75	DEC-04
B2010.01.09 Expansion C	Control: Exterior Wall Si	<u>kin</u> *
1962: Joints between prec	ast concrete componen	ts.
Rating	Installed Design Life	<u>updated</u>
5 - Good	0 0	DEC-04
B2010.01.11 Joint Sealers	s (caulking): Ext. Wall*	
1962: Caulked expansion j	oints between precast c	oncrete components and around windows abutting precast concrete.
Rating	Installed Design Life	e <u>Updated</u>
3 - Marginal	0 0	DEC-04
Event: Recaulk control	joints.	
Concern:		
Precast concrete	e component's contro g is missing and/or deter	•
Recommendation Recaulk control jo	n:	
Type Repair	<u>Year</u> <u>Cost</u> 2005 \$5,400	Priority Low
	2000 \$0,100	

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B2010.02.01 Cast-in-place Concrete:Ext.Wall Const*

1952: Painted, cast-in-place concrete below windows. 1953,1965,1993: Exposed portion of lower floor foundation/basement walls.

<u>Rating</u>	Installed	Design Life	Updated
4 - Acceptable	0	100	DEC-04

B2010.02.03 Masonry Units: Ext. Wall Const.*

1952: 90mm brick exterior with 90mm brick interior. 1953: 90mm brick exterior, 90mm concrete block backup, and 90mm brick interior wall to gymnasium. 1953/57: Classroom wings - 90mm brick exterior, 90mm clay tile backup, 90mm brick interior wall, and 190 brick exterior, 90mm clay tile with 19mm wood lath and 22mm plaster interior finish. 1962 and 1965: 90mm brick exterior, 25mm insulation,90mm brick interior wall. 1962: Skywalk walls are 90mm brick exterior, 90mm block, 25 insulation and 90mm brick interior wall. 1993: 90mm brick exterior, air space, 64mm insulation, air barriier adhesive on 190mm concrete block interior wall.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	0	100	DEC-04

B2010.02.05 Wood Framing*: Ext. Wall Const.

1965: Roof penthouse - Stucco with metal lath over wax paper on 13mm plywood on 38x89 wood studs with 50mm batt insulation, gypsum board interior finish. 2000: Small, horizontal strip of acrylic stucco on metal lath on building paper on 13mm plywood on wood studs, above sloped glass cafeteria addition.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	0	100	DEC-04

B2010.02.99 Other Exterior Wall Construction*

2000: Metal studs with 13mm gypsum board, steel girts and 50mm semi-rigid insulation, 10mm OSB sheathing, building paper and acrylic stucco finish, to upper wall above sloped glass cafeteria addition.

Rating	Installed	Design Life	Updated
5 - Good	0	0	DEC-04

B2010.03 Exterior Wall Vapor Retarders, Air Barriers, and Insulation*

1952,1953,1957: No wall insulation or air/vapor barriers. 1962,1965: 25mm rigid insulation in masonry wall cavities. No air/vapor barriers. 1962: 25mm insulation on inside face of concrete grade beams. 1993: 64mm semi-rigid insulation with air/vapor barrier adhesive on concrete block backup wall. and 64mm semi-rigid insulation on foil faced gypsum board on metal studs to penthouse walls with metal siding. 2000: 50mm semi-rigid insulation with air/vapor barrier adhesive on concrete block backup wall.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	20	DEC-04

B2010.06 Exterior Louvers, Grilles, and Screens*

1953/57: Galvanized steel channels, horizontal sunscreen louvres mounted above windows on all floors, in west and south walls. 1962: Precast concrete louvres, supported by precast concrete columns and beams above first and second floor windows in south wall.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	20	DEC-04

		Medicine nat - Medicine nat nigh School (BS/12A
B2010.09 Exterior Soffits*		
1962: Exposed, precast co	ncrete double tees. 19	65: Painted wood, (repainting less than \$1,000).
Rating 4 - Acceptable	Installed Design Life	DEC-04
B2020.01.01.01 Steel Wind	lows*	
1965: Two, single glazed, p	ainted steel windows in	drama/band building.
<u>Rating</u> 3 - Marginal	Installed Design Life	e <u>Updated</u> DEC-04
Event: Replace two, sma	Il steel windows.	
Concern: Painted steel fram only single glazing Recommendation Replace two, smal	:	en and windows have
Type Energy Efficiency Up <i>Updated: February</i>	-	Priority Low
B2020.01.01.02 Aluminum		ing
1993: Fixed and awning uni	ts with sealed, doubled	glazing, in thermally broken frames in 1952 building
Rating 5 - Good	Installed Design Life	
B2020.01.01.02 Aluminum	Windows*-1953/57 Bu	lilding
•		v broken, aluminum frames in classrooms, vertical sliders in corridors a minum panels with baked enamel finish above.
Rating	Installed Design Life	<u>updated</u>

KatingInstalledDesign LifeUpdated4 - Acceptable035DEC-04

B2020.01.01.02 Aluminum Windows*-1962 Building

1962: Sealed (~6mm air space), double glazing, and insulated aluminum panels, with baked enamel finish, in nonthermally broken aluminum frames. Fixed and opening casement units.

Rating	Installed	Design Life	Updated
2 - Poor	0	35	DEC-04

Event: Replace windows.

Concern:

Windows leaks, frames are not thermally broken, sealed glazing is failing (condesation in glass cavity). Hardware is worn and replacement parts are difficult to obtain.

Recommendation:

Replace windows with fixed, sealed glazing, internal blinds and interior sash, in thermally broken aluminum frames. Mechanical ventilation and cooling to be installed, (see mechanical report) to eliminate need for opening units, (approx. 400 windows).

Туре	Year	<u>Cost</u>	Priority
Failure Replacement	2005	\$540,000	Low

Updated: February 23 2005

B2020.01.01.05 Wood Windows*

1965: Large, west window in drama/band building.

Rating	Installed	Design Life	<u>Updated</u>
3 - Marginal	0	20	DEC-04

Event: Replace wood window.

Concern:

Wood is deteriorated and window is only single glazing.

Recommendation:

Replace large, wood window with a fixed, sealed, double glazed unit in a thermally broken aluminum frame. Remove and dispose of deteriorated wood, louvred sunscreen, which is covering window.

Туре	<u>Year</u>	<u>Cost</u>	Priority
Failure Replacement	2007	\$5,400	Low

Updated: February 23 2005

B2020.02.02 Steel-Framed Storefronts

1965: Original painted steel frames and sidelights with single glazing to drama/band building entries. 1981: Painted steel frames and sidelights with sealed double glazing and insulated metal panels to 1953 building entries.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	0	35	DEC-04

B2020.03 Glazed Curtain Wall*

2000: Vertical and sloped, sealed double glazing in thermally broken, aluminum frames, to cafeteria addition.

<u>Rating</u>	Installed	Design Life	<u>Updated</u>
5 - Good	0	35	DEC-04

B2030.01.01 Aluminum-Framed Storefronts*

1962: Sealed, double glazing, and insulated aluminum panels, with baked enamel finish, in non-thermally broken aluminum frames to south entry.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
N/A	0	30	DEC-04

Event: Replace storefront.

Concern:

Sealed glazing is failing (condensation problems), and aluminum frames are not thermally broken.

Recommendation:

Replace storefront.

Туре	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Failure Replacement	2005	\$6,480	Low

Updated: February 23 2005

B2030.01.10 Wood Entrance Door*

1962: Painted wood doors with vision panels, in aluminum frames. panic hardware and closers. 1965: Painted wood doors with vision panels, in painted steel frames. panic hardware and closers.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
2 - Poor	0	30	DEC-04

Event: Replace wood doors, aluminum frames, and hardware.

Concern:

Doors are chipped, split and damaged. Hardware is worn and high maintence to keep operatonal. Aluminum frames are structurally weakened, and have been reinforced with steel plates and bolts. Poor appearance for both doors and frames.

Recommendation:

Replace wood doors, aluminum frames, and hardware, (27 doors and hardware, 10 aluminum frames).

Туре	Year	<u>Cost</u>	Priority
Failure Replacement	2005	\$43,200	Low

Updated: February 23 2005

B2030.02 Exterior Utility Doors*

All buildings: Painted wood and metal in painted steel frames.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	0	DEC-04

B2030.03 Large Exterior Special Doors*-1962

1962: Industrial arts shops have electric motor operated, overhead, sectional wood doors, with glass vision panels and swinging man doors cut into them. 1965: Manually operated, overhead, sectional wood doors.

Rating	Installed	Design Life	Updated
2 - Poor	0	30	DEC-04

Event: Replace overhead sectional doors.

Concern:

Wood doors are badly deteriorated, of poor insulation value and drafty. Tracks are worn. Replacement part are unavailable. Electric motor operators are high maintenance.

Recommendation:

Replace four, electric motor operated shop doors and two manually, chain operated overhead doors with insulated, prefinished steel, sectional, overhead doors.

Туре	Year	<u>Cost</u>	Priority
Failure Replacement	2005	\$27,000	Low

Updated: February 23 2005

B2030.03 Large Exterior Special Doors*-1993

1993: One, wood overhead sectional door, in 1962 building automotive repair shop, was replaced with a prefinished, insulated steel, sectional door and new electric motor operator in 1993.

Rating	Installed	Design Life	<u>Updated</u>
5 - Good	0	20	DEC-04

B2030.05 Other Exterior Doors*-Aluminum

1993: Aluminum doors with sealed, double glazing in upper half and lower half has sealed double glazing or insulated aluminum panels, in aluminum frames, in entries to 1952 building and 1993 addition to 1965 drama/band building. Panic hardware and closers. 1995: Aluminum doors with sealed, double glazing in upper half and lower half has insulated aluminum panel, in painted steel frames to entries in 1953 building. Panic hardware and closers,

Rating	Installed	<u>Design Life</u>	Updated
4 - Acceptable	0	0	DEC-04

B2030.05 Other Exterior Doors*-Wood

1953: Large, wood clad swinging doors in east wall of storage area behind former stage location, repainting required, (less than \$1,000).

Rating	Installed	<u>Design Life</u>	Updated
4 - Acceptable	0	20	DEC-04

B3010.01 Deck Vapor Retarder and Insulation*

1953: Original roofs have 25mm rigid insulation, vapor barrier unknown. 1992 EPDM reroofing of some 1953 building areas have 75mm rigid insulation on two ply, asphalt coated felts, vapor barrier. 1993/1995 BUR reroofing to 1952 and 1965 buildings, and 1993 addition roof have 75mm rigid insulation plus 13mm fiberboard, two layers of asphalt coated kraft paper, vapor barrier. 1962: original roofs have 50mm rigid insulation, vapor barrier type unknown. 1992/1995/1998 EPDM reroofing of some areas have 75mm rigid insulation on vapor barrier. Areas to be reroofed would have insulation increased (see B3010.04.01).

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
5 - Good	0	0	DEC-04

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B3010.04.01 Built-up Bituminous Roofing (Asphalt & Gravel)*-1953/1957/1962Buildings

1953: Original BUR asphalt and gravel roof on gymnasium and lower, north administration area. 1957: Original BUR asphalt and gravel roof on south classroom wing. 1962: Original BUR asphalt and gravel roof on both skywalks, west shop area and N.E. classroom area.

Rating	Installed	Design Life	Updated
2 - Poor	0	25	DEC-04

Event: Replace roofing.

Concern:

Original BUR roofing is deteriorated and leaking.

Recommendation:

Replace with additional 50mm insulation and two ply SBS roofing, (5,810 sq.m.).

Туре	Year	<u>Cost</u>	Priority
Failure Replacement	2005	\$702,000	Low

Updated: February 23 2005

B3010.04.01 Built-up Bituminous Roofing (Asphalt & Gravel)*1952/1965 Buildings

1993,1995: Four ply builtup roofing and gravel, on 1952 and both 1965 buildings.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	0	25	DEC-04

B3010.04.04 Modified Bituminous Membrane Roofing (SBS)*

2000: Two ply SBS roofing on cafeteria addition.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
6 - Excellent	0	25	DEC-04

B3010.04.05 Membrane Roofing (Single Ply, EPDM, PVC, TPO)*

1992: Single ply EPDM roofing with gravel ballast on west wing and S.E. shower area roofs of 1953 building. 1992: Single ply EPDM roofing with gravel ballast on gymnasium and library areas of 1962 building. 1995: Single ply EPDM roofing with gravel ballast on lower, N.W. roof of 1962 building. 1998: Single ply EPDM roofing with gravel ballast on roof at S.E. corner of 1962 building.

Rating	Installed	<u>Design Life</u>	Updated
4 - Acceptable	0	25	DEC-04

B3010.09 Roof Specialties and Accessories*

1953,1957,1965: Wall mounted, painted steel ladders, to access higher roofs from lower roofs.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	25	DEC-04

B3020.01.01 Unit Skylights

1962,1965: Double domed, acryliic skylights.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	0	DEC-04

B3020.01.02 Metal-Framed Skylights

1993: Sloped, sealed, double glazing in thermally broken aluminum frames on roof of 1952 building.

Installed Design Life Updated Rating 0

5 - Good

0 DEC-04

B3020.02 Other Roofing Openings*

1962: Sheet metal covered wood, roof access hatch.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	0	0	DEC-04

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S3 IN	TERIOR					
<u>C1010.0</u>	1 Interior Fixed Pa	rtitions*				
Variety o	of brick, concrete blo	ock, wood stud	d and meta	al stud part	itions.	
<u>Rating</u> 5 - Good		Installed De	sign Life 50	Updated DEC-04		
<u>C1010.0</u>	3 Interior Operable	Folding Pan	el Partitio	<u>ns*</u>		
1993: M	oveable, acoustic w	alls in two scie	ence class	rooms.		
<u>Rating</u> 5 - Good		Installed De	<mark>sign Life</mark> 30	Updated DEC-04		
<u>C1010.0</u>	4 Interior Balustra	des and Scree	ens, Interio	or Railing	<u>s</u> *	
1962: Pa	ainted steel pipe me	ezzanine guarc	Irails.			
<u>Rating</u> 4 - Accep	otable	Installed De	sign Life 40	Updated DEC-04		
<u>C1010.0</u>	5 Interior Windows	<u>s</u> *				
Single g	lazing in varnished a	and painted wo	od, and pa	ainted met	al frames.	
<u>Rating</u> 4 - Accep	otable	Installed De	sign Life 40	Updated DEC-04		
<u>C1010.0</u>	6 Interior Glazed P	artitions and	Storefron	<u>ts*-Woo</u> d		
				-	nsoms and fir doors to administration area and in co soms and painted wood doors to administration area.	
<u>Rating</u> 2 - Poor		Installed De	sign Life 40	Updated DEC-04		
Event:	Replace corridor	storefronts.				
	Concern: Original wood doo and chipped. Da maintainence and p	ited appearan	ce. Hard	lware is v	•	
	Recommendation: Replace wood storefront framing and doors with painted steel storefront framing, aluminum/glass doors and new hardware, (four sets).					
	<u>Type</u> Failure Replacement	<u>Year</u> 2005	<u>Cost</u> \$32,400		Priority Low	
	Updated: February	23 2005				
<u>C1010.0</u>	6.02 Aluminum-Fra	amed Storefro	onts			

2000: Aluminum and glass doors in aluminum framing with glass sidelights and transoms at north and south ends of central corridor in 1962 building.

Rating	Installed	Design Life	Updated
5 - Good	0	0	DEC-04

corridors.

C1020.01 Interior Swinging Doors*-1953/1962 Building

1953: Varnished fir doors in fir frames, original hardware. 1962: Painted wood doors in painted steel frames, original hardware.

Rating	Installed	Design Life	<u>Updated</u>
2 - Poor	0	50	DEC-04

Event: Replace doors and hardware.

Concern:

Original wood doors and wood frames are damaged, splintered and chipped. Dated appearance. Hardware is worn, high maintainence and parts are difficult to obtain.

Recommendation:

Replace wood doors, wood frames (with steel frames), and hardware, (approx.120 doors and 45 wood frames).

Туре	Year	Cost	Priority
Failure Replacement	2006	\$324,000	Low

Updated: February 23 2005

C1020.01 Interior Swinging Doors*-1993 to 2001

1993-2001: Varnished birch doors, in painted steel frames. Lever handle locksets, dull chrome finishes.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
5 - Good	0	40	DEC-04

C1020.03 Interior Fire Doors*

1993/ 2000/2001 Painted, rated steel and varnished, rated mineral core wood doors with rated hardware, in painted steel frames.

RatingInstalledDesign LifeUpdated5 - Good050DEC-04

C1020.04 Interior Sliding and Folding Doors*

1981?: Vinyl covered metal, accordion, folding acoustic door in library. Metal edge trim has pulled loose and needs to be repaired, (less than \$1,000). 1993: Vinyl covered metal, accordion, folding acoustic doors in two science classrooms.

Rating	Installed	Design Life	Updated
5 - Good	0	40	DEC-04

C1020.05 Interior Large Doors*

1962?: Two large, overhead, coiling aluminum shutters to cafeteria servery counter.

Rating	Installed	Design Life	<u>Updated</u>
3 - Marginal	0	40	DEC-04

Event: Replace cafeteria servery counter shutters.

Concern:

Two large, overhead, coiling aluminum shutters to cafeteria servery counter worn and difficult to operate and reported to be requiring frequent repairs.

Recommendation:

Replace the two cafeteria servery counter shutters, with neww aluminum shutters.

Туре	<u>Year</u>	Cost	Priority
Failure Replacement	2007	\$10,800	Low

Updated: February 23 2005

C1020.07 Other Interior Doors*

Small, wood slat rollup shutter to concession counter in 1953 building. Small aluminum slat, rollup shutter to concession counter in 1962 building.

Rating	Installed	<u>Design Life</u>	Updated
4 - Acceptable	0	0	DEC-04

C1030.01 Visual Display Boards*-1953/1957/1962

1953/1957/1962: Original chalk and tackboards. Varnished fir frames and chalkrails in 1953/1957 classrooms and aluminum frames and chalkrails in 1962 classrooms.

Rating	Installed	Design Life	<u>Updated</u>
3 - Marginal	0	10	DEC-04

Event: Replace chalk and tackboards.

Concern:

Original chalk and tackboard surfaces are deteriorated.

Recommendation:

Replace chalk and tackboards, (approx. 40 classrooms).

Туре	Year	<u>Cost</u>	Priority
Failure Replacement	2008	\$75,600	Low

Updated: February 23 2005

C1030.01 Visual Display Boards*-1993/1998/1999

Aluminum framed, whiteboards and vinyl covered tackboards in renovated areas.

Rating	Installed	Design Life	Updated
5 - Good	0	0	DEC-04

C1030.02 Fabricated Comp	partments(Toi	lets/Show	vers)*
1993/2000/2001: Prefinish and changerooms off both g		or mounted	d, overhead braced toilet partitions in S.W. washrooms in 1962 buildi
Rating	Installed De	sign Life	Updated
5 - Good	0	0	DEC-04
C1030.05 Wall and Corner	Guards*		
A few stainless steel corner	guards.		
Rating	Installed De	sign Life	
5 - Good	0	15	DEC-04
C1030.06 Handrails*- Paint	ted Steel		
1962: Painted steel pipe gu gymnasium.	uardrails to sho	op mezzan	nines. 2000: Removable, painted steel pipe guardrails to stage in sout
Rating	Installed De		
4 - Acceptable	0	50	DEC-04
C1030.06 Handrails*-Stainl	less Steel		
2000: Fixed, stainless steel	traffic rails in o	cafeteria, f	for servery lineup.
Rating	Installed De		
6 - Excellent	0	50	DEC-04
C1030.08 Interior Identifyir	ng Devices*		
Various ages of engraved Washroom signage is painte		mounted	signs. 1993/2000/2001: Painted plexiglass, door mounted sign
Rating	Installed De		
4 - Acceptable	0	0	DEC-04
C1030.10 Lockers*-Corrido	<u>or</u> s		
Prepainted steel lockers.			
Rating	Installed De		
3 - Marginal	0	30	DEC-04
Event: Replace damaged	lockers.		
Concern: Some lockers and	dented and da	amaged.	
Recommendation Replace damaged		rox. 200).	
Туре	Year	<u>Cost</u>	Priority
Failure Replacement	2007	\$32,400	Low
Updated: February	23 2005		

C1030.10 Lockers*Shower/Change Rooms

2000/2001: Prepainted steel lockers in change rooms.

<u>Rating</u>	Installed	Design Life	<u>Updated</u>
6 - Excellent	0	30	DEC-04

C1030.14 Toilet, Bath, and Laundry Accessories*

Stainless steel, double roll toilet tissue dispensers. Stainless steel grab bars. Enameled steel, roll paper towel dispensers and electric hand dryers. Plastic, liquid soap dispensers. Stainless steel framed, glass mirrors. Free standing, galvanized steel, trash cans

Rating	Installed	Design Life	<u>Updated</u>
5 - Good	0	20	DEC-04

C1030.17 Other Fittings*-Changeroom Benches

2000,2001: Change room benches are 38x140 varnished wood boards, on galvanized steel angles and support post, anchored to the floor.

Rating	Installed	Design Life	<u>Updated</u>
5 - Good	0	0	DEC-04

C1030.17 Other Fittings*-Corridor Benches

1962: Wall mounted painted steel brackets with 38x140, painted wood board benches, on south entry lobby wall, and along both sides of skywalk walls.

Rating	Installed	<u>Design Life</u>	Updated
2 - Poor	0	0	DEC-04

Event: Repair wood benches.

Concern:

Painted wood boards are badly worn and splintered.

Recommendation:

Replace with new, varnished boards. Repaint steel support brackets.

Туре	<u>Year</u>	<u>Cost</u>	Priority
Repair	2006	\$5,400	Low

Updated: February 23 2005

C1030.17 Other Fittings*1993 Corridor Benches.

1993: Painted, 100x150 HSS steel tube bench, supported be wall mounted 38x38 painted HSS steel tube brackets, in science area corridor.

Rating	Installed	Design Life	Updated
5 - Good	0	0	DEC-04

C2010 Stair Construction*

Concrete stairs, in all areas, (with cast iron nosings in 1953/1957/1962 buildings), except steel stairs to mezzanines in 1962 building's shop areas, 1993 drama/band addition, and to mezzanine (stairs installed in 2001) at west end of 1953 gymnasium.

Rating	Installed	Design Life	<u>Updated</u>
5 - Good	0	100	DEC-04

C2020.01 Tile Stair Finishes*

1962: 150x150 quarry tile on 1962 building's concrete stairs and landings. 1993: 300x300 porcelain tile on concrete steps in 1952/1953/1965 buildings.

Rating	Installed	Design Life	Updated
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5 - Good 0 30 DEC-04

C2020.02 Terrazzo Stair Finishes*

1953: Main stair off north entry lobby has terrazo finish on treads, risers, stringers and landings.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	0	50	DEC-04

C2020.05 Resilient Stair Finishes*

1993/2001: Rubber stair treads with abrasive nosing strips to steel stairs in 1993 drama/band addition, and to mezzanine stairs, (installed in 2001) at west end of 1953 gymnasium. Also to concrete stairs in S.E. entry to 1953 building. Some abrasive strips need to be repaired/replaced, (less than \$1,000).

Rating	Installed	Design Life	Updated
5 - Good	0	20	DEC-04

C2020.08 Stair Railings and Balustrades*

Painted steel pipe handrails and guardrials in all stairs.

Rating	Installed	<u>Design Life</u>	Updated
4 - Acceptable	0	50	DEC-04

C2020.11 Other Stair Finishes*

Painted, concrete stairs in 1953/1957 building.

Rating	Installed	Design Life	Updated
3 - Marginal	0	0	DEC-04

Event: Install resilient stair treads.

Concern:

Paint finish in 1953/1957 stairs is worn off, but repainting is not being done, as it is reported to be slippery, and doesn't wear well. Cast iron nosings are worn smooth.

Recommendation:

Install rubber, non-slip treads to west and south stairs.

Туре	Year	Cost	Priority
Repair	2006	\$32,400	Medium

Updated: February 23 2005

C3010.01 Concrete Wall Finishes*

Painted concrete in lower floor storage rooms. Unfinished in service tunnels.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	100	DEC-04

C3010.02 Wall Paneling*

A few wa	alls have prefinished, masonite wall panelling in 1962 building offices, south entry and adjacent corridor.
Rating	Installed Design Life Updated
3 - Margin	al 0 30 DEC-04
Event:	Replace wall paneling.
	Concern: Paneling is poor quality, possible fire hazard and dated in appearance.
	Recommendation: Replace wall paneling with a more appropriate, durable and fire resistant material, such as tiled gypsum board.
	TypeYearCostPriorityHazardous Material2005\$5,400LowManagement UpgradeVerticalVerticalVertical
	Updated: February 23 2005
<u>C3010.03</u>	3 Plaster Wall Finishes*
1953: Pa	ainted plaster on some brick partition walls.
<u>Rating</u> 4 - Accep	table 0 40 DEC-04
C3010.06	6 Tile Wall Finishes*
	93/2000/2001: 100x100 glazed ceramic wall tile in cafeteria kitchen, walk-in cooler, washrooms, individual to walls and inside face of wood doors), change rooms and shower areas.
Rating 5 - Good	InstalledDesign LifeUpdated050DEC-04
C3010.09	9 Acoustical Wall Treatment*
1993: Fa	abric covered, plastic framed, semi-rigid, fiberglass insulated wall panels in seating area of theatre.
Rating 5 - Good	InstalledDesign LifeUpdated015DEC-04
C3020.01	1 Concrete Floor Finishes*
Painted of	concrete in janitor and service rooms, unpainted in mechanical rooms.
<u>Rating</u> 4 - Accep	table 0 75 DEC-04
<u>C3020.02</u>	2 Tile Floor Finishes*
1962: 1	50x150 quarry tile in south entry vestibule and cafeteria kitchen. 1993/2000/2001: 300x300 porcelain tile ms and change rooms, 1952 building's corridors, and 1962 building's south lobby,central corridor and cafeteria.

196 0/2001: 300x300 porcelain tile in washrooms and change rooms, 1952 building's corridors, and 1962 building's south lobby,central corridor and cafeteria.

Rating	Installed	<u>Design Life</u>	Updated
5 - Good	0	30	DEC-04

C3020.04 Wood Flooring*-1953 Building

1953: North gymnasium floor is 20mm maple on 19 shiplap on wood sleepers.

<u>Rating</u> 3 - Margi	nal	Installed I 0	Design Life 10	Updated DEC-04
Event:	Replace 1953 gym	nasium flo	or.	
	Concern: Gymnasium floor is where flooring is fa		s opening a	nd has "soft spots"
	Recommendation: Replace 1953 gym	-	r, (615 sq.m	n.).

Туре	Year	Cost	Priority
Failure Replacement	2009	\$156,600	Low

Updated: February 23 2005

C3020.04 Wood Flooring*-1962 Building

1962: Maple flooring in carpentry shop. 20mm maple, on 19 shiplap, on wood sleepers in south gymnasium.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	0	25	DEC-04

C3020.04 Wood Flooring*-Drama

1993: Drama floor is 6mm painted hardboard, on 19mm plywood, on 38x89wood sleepers.

Rating	Installed	Design Life	Updated
5 - Good	0	10	DEC-04

C3020.07.01 Resilient Tile Flooring-225x225 VAT

1953: 225x225 vinyl asbestos tile in north entry lobby, administration area, and lower floor corridor in 1953 building. 1962: 225x225 vinyl asbestos tile in main floor corridors, classrooms and administration areas, cafeteria kitchen storage room, and east, second floor classrooms.

Rating	Installed	Design Life	<u>Updated</u>
3 - Marginal	0	0	DEC-04

Event: Replace vinyl asbestos floor tile.

Concern:

Vinyl asbestos tile is chipped and cracked in corridors and kitchen storage room. Replacement tiles, used for patching, are various, non-matching colors. Tiles in lobby and classrooms are dated in appearance. Rubber base is missing in several corridor locations

Recommendation:

Replace corridor vinyl asbestos floor tile with low maintenance, porcelain tile, and rubber base, as per the other renovated corridors, (approx. 1,200 sq.m.). Replace classroom vinyl asbestos floor tile with linoleum, and rubber base, (1,700 sq.m.). Removal and disposal of asbestos containing tiles to meet current regulations.

Туре	Year	<u>Cost</u>	<u>Priority</u>
Failure Replacement	2007	\$280,800	Low

Updated: February 23 2005

C3020.07.01 Resilient Tile Flooring-300x300 VCT

1993/2000/2001: 300x300 vinyl composition tile and rubber base in storage and service rooms.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	0	0	DEC-04

C3020.07.02 Resilient Sheet Flooring- Rubber

2001: Cushioned, sheet rubber flooring in fitness centre and east end of north gymnasium, where stage was removed.

Rating	Installed	<u>Design Life</u>	Updated
5 - Good	0	0	DEC-04

C3020.07.02 Resilient Sheet Flooring-Linoleum

1993: Linoleum in science area classrooms.

Rating	Installed	Design Life	Updated
5 - Good	0	0	DEC-04

C3020.07.02 Resilient Sheet Flooring-Vinyl

1981?: Main floor corridors of 1953 building and second floor corridors and west classrooms of 1962 building.

Rating	Installed	Design Life	<u>Updated</u>
3 - Marginal	0	0	DEC-04

Event: Replace sheet vinyl flooring.

Concern:

Sheet vinyl is stained and discolored in corridors and damaged, with patches in cosmetology classroom. Linoleum in second floor classrooms of 1962 building is acceptable.

Recommendation:

Replace corridor and skywalk sheet vinyl with low maintenance, porcelain tile, as per the other renovated corridors, (approx.1,600 sq.m.). Replace cosmetology sheet vinyl with linoleum, (190 sq.m.).

Туре	Year	<u>Cost</u>	Priority
Failure Replacement	2006	\$216,000	Low

Updated: February 23 2005

C3020.08 Carpet Flooring*-Band Room

1985?: Band room and one classroom.

Rating	Installed	Design Life	<u>Updated</u>
3 - Marginal	0	10	DEC-04

Event: Replace carpet.

Concern:

Carpet in band room and one classroom is worn, seams frayed.

Recommendation:

Replace band room and classroom carpet and rubber base, (200 sq.m.).

Туре	Year	<u>Cost</u>	Priority
Failure Replacement	2006	\$16,200	Low

Updated: February 23 2005

C3020.08 Carpet Flooring*-Library

1993: Library, principal's office, staff room and theatre.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	0	10	DEC-04

C3030.03 Plaster Ceiling Finishes*

1962: Painted	plaster in	cafeteria	kitchen.
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Rating	Installed	<u>Design Life</u>	Updated
4 - Acceptable	0	50	DEC-04

C3030.06 Acoustic Ceiling Treatment (Susp.T-Bar)*

1990?: Suspended, T-Bar, acoustic tile ceilings in 1962 building corridors. 1993/2000/2001: Suspended, T-bar, acoustic tile ceilings in science areas, cafeteria and washrooms, shower/change rooms.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>

5 - Good 0 25 DEC-04

C3030.07 Interior Ceiling Painting*

Painted plaster in cafeteria kitchen. Some painted wood deck, metal deck and exposed concrete tees in 1953/1962,1965 and 1993 buildings.

<u>Rating</u>	Installed	Design Life	<u>Updated</u>
4 - Acceptable	0	10	DEC-04

C3030.09 Other Ceiling Finishes*- Metal Deck

1993: Painted exposed deck in 1993 addition to drama/band building. 2000: Painted, acoustic metal deck ceiling, installed in 2000 in 1962 building's south gymnasium.

Rating	Installed	Design Life	<u>Updated</u>
5 - Good	0	0	DEC-04

C3030.09 Other Ceiling Finishes*-300x300 Acoustic Tile

1953,1957: 300x300 acoustic tiles stapled to wood furring, supported by suspended wood framing in corridors, classrooms and administration areas. 1962: 300x300 acoustic tiles glued to suspended panels, between exposed precast concrete tees, in classrooms and administration areas.

Rating	Installed	Design Life	Updated
3 - Marginal	0	0	DEC-04

Event: Install suspended T-bar acoustic ceilings.

Concern:

Ceiling tiles in corridors are broken, missing and stained. Ceiling tiles and wood supports have to be removed to install mechanical ductwork, sprinklers and lighting fixtures.

Recommendation:

Remove ceiling tiles and related wood supports and install suspended T-bar acoustic tile ceilings in conjunction with mechanical and electrical upgrading, (approx. 7,800 sq.m.). Costs for mechanical and electrical work is in their respective components.

Туре	Year	Cost	Priority
Failure Replacement	2007	\$486,000	Low

Updated: February 23 2005

C3030.09 Other Ceiling Finishes*-North Gymnasium

1953: 300x300 acoustic tiles glued on to gypsum board ceiling.

Rating	Installed	Design Life	Updated
3 - Marginal	0	0	DEC-04

Event: Replace acoustic tile ceiling.

Concern:

Acoustic tiles fall off and get damaged by activities in the gymnasium. Exposed screws have been used to refasten tiles.

Recommendation:

Cover tiles with painted, acoustic metal decking, as per south gymnasium.

Туре	Year	<u>Cost</u>	Priority
Failure Replacement	2008	\$64,800	Low

Updated: February 23 2005

D1010.01.02 Hydraulic Passenger Elevators*

2001: Hydralic elevator installed in 1953/1957 building serves all three floors.

Rating	Installed	Design Life	<u>Updated</u>
6 - Excellent	0	30	DEC-04

D1010.02 Lifts*

1993: Enclosed H/C lift in science area serves second level mezzanine. Two wheelchair platform lifts in stepped corridors, (approx.1200mm change floor levels). 2001: Enclosed H/C lift in S.E. entry of 1953 building provides barrier free access from lower level fitness area to main floor of 1953 building.

Rating	Installed	Design Life	Updated
6 - Excellent	0	25	DEC-04

S4 MECHANICAL

D2010.01 Water Closets*-	<u>1952 Bld</u> .
1993: Floor mounted, vitre	eous china, with infrared operated flush valve.
Rating	Installed Design Life Updated
6 - Excellent	0 30 DEC-04
D2010.01 Water Closets*-	<u>1953 Add./1962 Add</u> .
2000: Floor mounted, vitre flush valves.	eous china. 1953 Add. have manual flush valves and the 1962 Add. has battery operated infrared
<u>Rating</u> 6 - Excellent	InstalledDesign LifeUpdated030DEC-04
D2010.02 Urinals*-1952 Bl	<u>Id</u> .
1993: Wall hung, vitreous	china, with EMCS driven, solenoid flush valve.
Rating	Installed Design Life Updated
5 - Good	0 30 DEC-04
D2010.02 Urinals*-1953 A	<u>dd./1962 Add</u> .
	Il mounted vitreous china urinals with soleniod operated washout. 1962 Add. has recessed floor ashout urinals with soleniod operator.
Rating	Installed Design Life Updated
6 - Excellent	0 30 DEC-04
D2010.03 Lavatories*-195	<u>2 Bld</u> .
1993: Vanity mounted, vitr	reous china, with infrared faucets. One vanity in each washroom is barrier free.
<u>Rating</u> 5 - Good	Installed Design Life Updated 0 30 DEC-04
D2010.03 Lavatories*-195	
	nity mounted. 1953 Add. has mechanical timed mixed water faucets and the 1962 Add has aucets. Some Bradley wall mounted lavatory stations with infrared operators.
Rating	Installed Design Life Updated
6 - Excellent	0 30 DEC-04
D2010.04 Sinks*-1952 Bld	ļ.
	p sinks with wall mounted trim. Stainless steel, single bowl, with gooseneck faucets in Science Science room has an emergency eyewash station attached to the faucet.
Rating	Installed Design Life Updated
5 - Good	0 30 DEC-04
D2010.05 Showers*-1952	<u>Bld</u> .
1993: Wall mounted trim f mounted showerhead, and	or emergency shower (not a listed shower) in the Science Prep Room includes hand shower, wall I mixing valve.
<u>Rating</u> N/A	InstalledDesign LifeUpdated030DEC-04

D2010.05 Show	ers*-1953 Add./1962 Add.
2000: Wall mou	nted vandel resistant showerheads with soleniod operated mixed water and electronic timer buttons.
Rating	Installed Design Life Updated
6 - Excellent	0 30 DEC-04
<u>D2010.08 Drinki</u>	ng Fountains / Coolers*-1952
1993: Wall mou	nted, stainless steel, with electric refrigeration coolers.
Rating	Installed Design Life Updated
5 - Good	0 30 DEC-04
<u>D2010.08 Drinki</u>	ng Fountains / Coolers*-1953 Add./1962 Add.
2000: Wall mou	nted, stainless steel tops, electric cooled.
Rating	Installed Design Life Updated
6 - Excellent	0 30 DEC-04
D2020.01.01 Pip	es and Tubes: Domestic Water*-1952 Bld.
Copper piping, w	vith ball valves for sizes 50mm and less.
Rating	Installed Design Life Updated
6 - Excellent	0 40 DEC-04
D2020.01.01 Pip	es and Tubes: Domestic Water*-1953 Add./1962 Add./1965 Blds.
1953/1962/1965	5: Copper tubing
Rating	Installed Design Life Updated
4 - Acceptable	0 40 DEC-04
D2020.01.03 Pip	ning Specialties (Backflow Preventors)*-1952 Bld.
1993: Double cl	heck provided for 75mm sprinkler line, reduced pressure protects 50mm fire hose standpipe.
Rating	Installed Design Life Updated
2 - Poor	0 0 DEC-04
Event: Add ba	ckflow preventor.
Concer No bacl	n: kflow preventor on the domestic water service.
	mendation: louble check valve backflow preventor.
<u>Type</u> Code Up	ograde 2005 \$2,700 Medium
Updated	d: February 28 2005

D2020.01.03 Piping Specialties (Backflow Preventors)*-1962

1962: No backflow protection on building water service or irrigation connection.

<u>Rating</u>		Installed De	sign Life	<u>Updated</u>
1 - Critica	al	0	0	DEC-04
Event:	Install backflow p	reventors.		
	Concern: No backflow prote water connection.	ection on build	ling water	service or irrigation
	Recommendation Add two double ch	-	preventors	
	Type Code Upgrade	<u>Year</u> 2005	<u>Cost</u> \$5,400	<u>Priority</u> Medium
	Updated: February	28 2005		
D2020.0	2.02 Plumbing Pur	nps: Domesti	c Water*-1	<u>952 Bld</u> .
1993: I	nline circulators use	d for domestic	hot water	circulation.
Rating		Installed De	sign Life	<u>Updated</u>
4 - Acce	otable	0	20	DEC-04
D2020.02.02 Plumbing Pumps: Domestic Water*-1962 Add.				
1995: I	nline circulators at h	ot water boiler	provide do	mestic hot water circulation.
<u>Rating</u>		Installed De	sign Life	Updated

5 - Good 0 20 DEC-04

D2020.02.06 Domestic Water Heaters*-1952 Bld.

1993: A.O. Smith copper water tube domestic water boiler, 76.8kW input with two AO Smith model TJV-120M 450 litre hot water storage tanks. Storage tanks were replaced in 1998. Provides domestic water for the 1952 Bld., 1953 Add., and 1965 Drama/Band Bld.

Rating	Installed	Design Life	Updated
5 - Good	0	20	DEC-04

D2020.02.06 Domestic Water Heaters*-1962 Add.

1962: Patterson Kelly model NATLB010849 large horizontal boiler and storage vessel. Capacity unknown, heating input 420kW. Provides domestic hot water for 1962 Add. and 1965 Shops Bld.

420KVV.	. Provides domestic hot water to	or 1962 Add.	and 1965 Shops Bid.		
Rating	Installed	Design Life	Updated		
1 - Critica		20	DEC-04		
Event:	Replace domestic water plan	<u>.t.</u>			
	Concern: Boiler flue is heavily corroded probably oversized. The b domestic water for 43 years it inefficient.	oiler has co	onditioned untreated		
	Recommendation: Replace boiler/storage tank a heaters.	assembly with	h condensing water		
	Energy Efficiency Upgrade 200	ar <u>Cost</u> 95 \$54,000	<u>Priority</u> Low		
	Updated: February 28 2005				
D2020.0	03 Water Supply Insulation*: D	omestic-195	62 Bld.		
Fibregla	ass wrap insulation canvas cover	red in mecha	nical room.		
<u>Rating</u> 5 - Good		Design Life 0	Updated DEC-04		
D2020.0	03.01 Piping Insulation: Domes	stic Water-19	953 Add./1962 Add./1965 B	<u>ld</u> s.	
1953/19	962/1965: Fibreglass wrap				
Rating 4 - Acce		Design Life 0	Updated DEC-04		
D2030.0	01 Waste and Vent Piping*-195	2 Bld. Above	e Grade		
1993: C	Cast iron and DWV.				
<u>Rating</u> 6 - Excel		Design Life 50	Updated DEC-04		
D2030.01 Waste and Vent Piping*-1952 Bld./1962 Add./1965 Add.s Below Grade					
1952: L	1952: Underground sanitary is probably clay tile.				
Rating 4 - Acce		Design Life 50	Updated DEC-04		

D2030.01 Waste and Vent Piping*-1953 Add. Above Grade

1953: Cast iron.

Rating	Installed	Design Life	Updated
2 - Poor	0	50	DEC-04

Event: Replace above grade waste and vent piping.

Concern:

Cast iron piping has rotted out in several places casing foul odours in the school until the breeches were found.

Recommendation:

Replace all the original cast iron sanitary plumbing.

Туре	Year	Cost	Priority
Failure Replacement	2005	\$108,000	Medium

Updated: February 28 2005

D2030.01 Waste and Vent Piping*-1962 Add./1965 Blds.

1962/1965: Cast iron and DWV copper.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	50	DEC-04

D2030.02 Waste Piping Specialties*-1952 Bld.

1993: Dillution traps on all Science Room Sinks.

Rating	Installed	Design Life	<u>Updated</u>
5 - Good	0	50	DEC-04

D2040.01 Rain Water Drainage Piping Systems*-1952 Bld.

1993: Cast iron above grade.

Rating	Installed	Design Life	Updated
6 - Excellent	0	50	DEC-04

D2040.01 Rain Water Drainage Piping Systems*-1953 Add./1962 Add./1965 Blds.

1953/1962/1965: Cast iron above grade.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	50	DEC-04

D2040.02.04 Roof Drains*-1952 Bld.

1993: Basket type debris stops.

Rating	Installed	Design Life	Updated
5 - Good	0	40	DEC-04

D2040.02.04 Roof Drains*-1953 Add./1962 Add./1965 Blds.

1953/1962/1965

Rating	Installed	Design Life	<u>Updated</u>
2 - Poor	0	40	DEC-04

Event: Install debris stops.

Concern:

Many of the roof drains debris stops are non existent or severely damaged by vandalism.

Recommendation:

Install new basket debris stops.

Туре	Year	<u>Cost</u>	Priority
Repair	2005	\$5,400	Low

Updated: February 28 2005

D2090.01 Compressed Air Systems*

1962: Compressed air system installed in shops. Large reciprocating air compressor installed in room off the main school foyer. Air compressor is very noisy and should be relocated to one of the shop areas.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	0	0	DEC-04

D3010.02 Gas Supply Systems*

High pressure gas meter and regulator on the north side of the 1962 Add. Distributed to 1952 Bld. mechanical room underground and directly into the 1962 Bld. mechanical room. Steel piping throughout.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
5 - Good	0	50	DEC-04

D3020.02.01 Heating Boilers and Accessories: H.W.*-1952 Bld.

1986: Two Unilux model 500W, forced draft, watertube boilers with capacity of 1464kW each. Boiler plant in the 1952 Building serves the 1952 Bld. 1953 Add., and 1965 Drama/Band Bld.

Rating	Installed	Design Life	Updated
5 - Good	0	30	DEC-04

D3020.02.01 Heating Boilers and Accessories: H.W.*-1962 Add.

1988: Two Cleaver Brooks model CB700-250 firetube boilers with capacity of 3063kW each. Provides heating for the 1962 Add. and 1965 Shops Bld.

Rating	Installed	Design Life	Updated
5 - Good	0	30	DEC-04

D3020.02.02 Chimneys (&Comb. Air): H.W. Boiler*-1952 Bld.

1986: Galvanized sheet metal combustion air duct with trap. Insulated breeching and type B vent through roof.

Rating	Installed	Design Life	Updated
5 - Good	0	0	DEC-04

D3020.02.03 Water Treatment: H. W. Boiler*-1952 Bld.

1986: Chemical pot feeder, bypass micron filter and flow indicator.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	0	0	DEC-04

D3020.03.01 Furnaces*

1985: Engineered air HE unit provides make up air for various added shop exhaust. Welding fume hoods, paint mixing hood, and general exhaust risers.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	25	DEC-04

D3030.04 Rotary-Screw Water Chillers*

1962: South mechanical room of the 1962 addition has a water cooled screw chiller.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
2 - Poor	0	30	DEC-04

Event: Replace chiller.

Concern:

Chiller is 43 years old, uses refrigerant that is no longer available and replacement and service parts are no longer available.

Recommendation:

Replace with a roof mounted air cooled chiller.

Туре	<u>Year</u>	Cost	Priority
Failure Replacement	2005	\$64,800	Low

Updated: February 28 2005

D3030.05.01 Packaged Cooling Towers-1962 Add.

1962: Draw through evaporative cooling tower provides condensor water to water cooled chiller in south mechanical room of the 1962 Add.

Rating	Installed	Design Life	Updated
2 - Poor	0	0	DEC-04

Event: Replace cooling tower (refer to D3030.04).

Concern:

Cooling tower is heavily corroded, pads are built up with minerals.

Recommendation:

Replace cooling tower, with air cooled chiller refer to D3030.04 for requried chiller work.

Туре	Year	Cost	Priority
Failure Replacement	2005	\$0	Low

Updated: February 28 2005

D3030.06.02 Refrigerant Condensing Units*-1952 Bld.

1993: Trane model RUA00806BC032DF9 condensing unit serves direct expansion cooling coil in VAV air handler.

RatingInstalledDesign LifeUpdated5 - Good025DEC-04

D3030.06.02 Refrigerant Condensing Units*-1962 Add.

1980: South mechanical room classroom air handler is served by a roof mounted air cooled condensing unit.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	25	DEC-04

D3030.06.02 Refrigerant Condensing Units*-1965 Band Drama Bld.

1965: Air cooled, roof mounted, coupled to direct expansion cooling coil in the penthouse air handler.

Rating	Installed	<u>Design Life</u>	Updated
2 - Poor	0	25	DEC-04

Event: Replace condensing unit.

Concern:

Compressors use R-11 refrigerant, unit is corroded from exposure to weather. Age of compressors suggest they will fail soon replacement parts are no longer available.

Recommendation:

Replace condensing unit.

Туре	Year	<u>Cost</u>	Priority
Failure Replacement	2005	\$32,400	Low

Updated: February 28 2005

D3030.06.02 Refrigerant Condensing Units*-1965 Band/Drama Bld. Theatre Add.

1993: Trane model RAU0030GBG03D serves direct expansion cooling coil in penthouse air handler.

Rating	Installed	Design Life	Updated
5 - Good	0	25	DEC-04

D3030.08 Other Refrigeration Systems*

1962: Compressor for cooler in kitchen.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	0	DEC-04

D3040.01.01 Air Handling Units: Air Distribution*-1952 Bld.

1993: Engineered Air LM-26-C with 13,188 l/s supply air fan, 11,775 l/s return air fan, gylcol heating coil, direct expansion cooling coil, 50mm filter section and mixing plenum with intake and exhaust air. Unit is VAV controlled by variable speed drives on the supply and return fans.

Rating	Installed	Design Life	Updated
6 - Excellent	0	30	DEC-04

D3040.01.01 Air Handling Units: Air Distribution*-1953 Add.

1953: Ventilation units installed in tunnels for classroom, gymnasium and fitness room ventilation. Classroom unit is a large site constructed unit with supply and return fans, room is the mixing plenum, filters heating coil for tempering ventilation, and wet cell humidifier. Gymansium and fitness room units use the room as a plenum have heating coils, supply and return fans.

Rating	Installed	Design Life	<u>Updated</u>
2 - Poor	0	30	DEC-04

Event: Replace humidifier.

Concern:

Wet cell humidifier is a recirculating type system which is not used due to high maintenance costs and bateria concerns.

Recommendation:

Replace the humidifier pads and install a once through water system.

Туре	Year	<u>Cost</u>	Priority
Repair	2005	\$10,800	Low

Updated: February 28 2005

D3040.01.01 Air Handling Units: Air Distribution*-1962 Add. North Mech Room

1962: Three units installed in north mechanical room. System uses corridor for return air and room as a mixing chamber. Units serve the south and east classrooms, north and east classrooms and gymnasium. The units are constant volume and all have, mixing, return air and supply air fans, and gylcol heating coils for tempering the supply air. The classroom units have had D/X cooling coils installed. Sizes and capacities unknown.

Rating	Installed	Design Life	Updated
3 - Marginal	0	30	DEC-04

Event: Acoustically insulate mechanical room.

Concern:

All fans are exposed in the mechanical room and it is very noisy.

Recommendation:

Acoustically insulated mechanical room.

Туре	Year	Cost	Priority
Program Functional Upgrade	2005	\$32,400	Low

Updated: February 28 2005

Event: Add return air ductwork

Concern:

Air handlers use the corridor as a return air plenum.

Recommendation:

Install return air ductwork or ceiling plenum.

Туре	Year	<u>Cost</u>	Priority
Code Upgrade	2005	\$162,000	Low

Updated: February 28 2005

D3040.01.01 Air Handling Units: Air Distribution*-1962 Add. South Mech. Rm

1962: Three units installed in south mechanical room. System uses corridor for return air and room as a mixing chamber. Units serve the south classrooms, library and cafeteria. The units are constant volume and all have, mixing, return air and supply air fans, and gylcol heating coils for tempering the supply air. The classroom unit has a cooling coil installed. Sizes and capacities unknown.

Rating	Installed	Design Life	Updated
3 - Marginal	0	30	DEC-04

Event: Acoustically insulate room.

Concern:

High noise levels from open fans in the mechanical room.

Recommendation:

Acoustically insulate the mechanical room.

Туре	Year	<u>Cost</u>	Priority
Program Functional Upgrade	2005	\$32,400	Low

Updated: February 28 2005

Event: Add return air ductwork

Concern:

System uses the corridor for return air.

Recommendation:

Install return air ductwork.

Туре	Year	Cost	Priority
Code Upgrade	2005	\$162,000	Low

Updated: February 28 2005

D3040.01.01 Air Handling Units: Air Distribution*-1962 Add. West Mech. Rm.

1962: Two units installed in west mechanical room. System uses corridor for return air and room as a mixing chamber. Units serve the shops. The units are constant volume and all have, mixing, return air and supply air fans, and heating coils for tempering the supply air. Sizes and capacities unknown.

Rating	Installed	<u>Design Life</u>	Updated
3 - Marginal	0	30	DEC-04

Event: Acoustically insulate room.

Concern:

High noise levels from open fans in the mechanical room.

Recommendation:

Insulate mechanical room.

Туре	Year	<u>Cost</u>	Priority
Program Functional Upgrade	2005	\$27,000	Low

Updated: February 28 2005

Event: Install return air.

Concern:

Air handlers use the corridor for return air.

Recommendation:

Install return air ductwork.

Туре	Year	<u>Cost</u>	Priority
Code Upgrade	2005	\$54,000	Low

Updated: February 28 2005

D3040.01.01 Air Handling Units: Air Distribution*-1965 Band/Drama Bld.

1965: Carrier model 39W9AS100 hot water coiled multizone unit with supply and return fans, D/X cooling coil, heating coil and mixing section.

Rating	Installed	<u>Design Life</u>	Updated
4 - Acceptable	0	30	DEC-04

D3040.01.01 Air Handling Units: Air Distribution*-1965 Band/Drama Bld. Theatre Add.

1993: Engineered Air model LM-8-C constant volume unit with supply and return fans. Unit has a mixing box, filters, heating coil, and D/X cooling coil.

Rating	Installed	<u>Design Life</u>	Updated
5 - Good	0	30	DEC-04

D3040.01.01 Air Handling Units: Air Distribution*-1965 Shops Bld.

1965: Armstrong hot water coiled multizone unit with supply and return fans, D/X cooling coil, heating coil and mixing section.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	0	30	DEC-04

D3040.01.03 Air Clean	ning Devices:Air Distribution*
	e, air recirculating, dust collectors. One dust collector connected to woodworking tools and the oth ected to the metal grinders.
Rating 4 - Acceptable	InstalledDesign LifeUpdated00DEC-04
D3040.01.04 Ducts: A	ir Distribution*-1952 Bld.
1993: Galvanized stee	el, insulated supply air throughout.
Rating 4 - Acceptable	InstalledDesign LifeUpdated050DEC-04
D3040.01.04 Ducts: A	ir Distribution*-1953 Add./1962 Add./1965 Blds.
1953/1962/1965: Gal	vanized steel uninsulated.
Rating 4 - Acceptable	InstalledDesign LifeUpdated050DEC-04
D3040.01.05 Duct Acc	cessories: Air Distribution*-1952 Bld.
1993: Fire and balanc	e dampers.
<u>Rating</u> 5 - Good	InstalledDesign LifeUpdated00DEC-04
D3040.01.06 Air Term	inal Units: Air Distribution*-1952 Bld.
1993: VAV air termina	als with reheat coils. Electronically controlled.
<u>Rating</u> 5 - Good	InstalledDesign LifeUpdated00DEC-04
D3040.01.07 Air Outle	ets & Inlets:Air Distribution*-1952 Bld.
1993: Generally lay-in	ceiling diffusers and eggcrate return grilles into ceiling plenum.
<u>Rating</u> 5 - Good	InstalledDesign LifeUpdated050DEC-04
D3040.03.01 Hot Wate	er Distribution Systems*-1952 Bld.
	per plumbing with fibreglass insulation throughout. Insulation is cavas covered in mechanical roo os circulate hot water to permiter radiation, heat exchanger and air handling unit coils.
Rating 5 - Good	InstalledDesign LifeUpdated040DEC-04
D3040.03.01 Hot Wate	er Distribution Systems*-1953 Add.
1981: Steel and copp	er insulated piping.
Dating	

Rating	Installed	Design Life	Updated
5 - Good	0	0	DEC-04

D3040.03.01 Hot Water Distribution Systems*-1962 Add./1965 Bid.s 1962/19-55: Steel insulated piping. Rating 2 - Poor Installed 0 Design Life DEC-04 Updated DEC-04 Event: Replace hydronic plumbing. Valves no longer work keaks can be isolated. Valves no longer work keaks can be isolated. Recommendation: Replace hydronic plumbing. Priority Ealure Replacement Priority 2005 Priority Low 1993: Several spun aluminium roof exhausters for Science Classroom general exhaust and washroom exhaust. Rating 5 - Good Installed Design Life 0 Updated DEC-04 1993: Several spun aluminium roof exhausters for Science Classroom general exhaust and washroom exhaust. Rating 5 - Good Installed Design Life 0 Updated DEC-04 1993: Galvanized sheet metal. Rating 5 - Good Installed Design Life 0 Updated DEC-04 1993: Eggerate style ceiling and wall mounted grilles. Rating 5 - Good Installed Design Life 0 Updated DEC-04 1993: Eggerate style ceiling and wall mounted grilles. Rating 5 - Good Installed Design Life 0 Updated DEC-04 1993: Superchanger model UX-206-HP-127, plate and frame type, hot water to glycol, heat exchanger protects aris thr unt coils. 1993: Superchanger model UX-206-HP-127, plate an
Rating 2 - Poor Installed 0 Design Life 0 Updated DEC-04 Event: Replace hydronic plumbing. Image: Concern: Maintenance has to repair frequent pipe leaks. Valves no longer work leaks can't be isolated. Valves no longer work leaks can't be isolated. Recommendation: Replace hydronic plumbing. Year Cost Priority Low Type Year Cost Priority Low Updated: February 28 2005 Event Low 1993: Several spun aluminium roof exhausters for Science Classroom general exhaust and washroom exhaust. Rating 5 - Good Installed Design Life 0 Updated DEC-04 1993: Galvanized sheet metal. Installed Design Life 0 Updated DEC-04 Installed Design Life 0 Updated DEC-04 1993: Galvanized sheet metal. Installed Design Life 0 Updated DEC-04 Installed Design Life 0 Updated DEC-04 1993: Eggcrate style ceiling and wall mounted grilles. Imstalled Design Life 0 Updated DEC-04 Imstalled Design Life 0 Updated DEC-04 1993: Eggcrate style ceiling and wall mounted grilles. Imstalled Design Life 0 Updated DEC-04 Imstalled Design Life 0 Updated DEC-04 1993: Eggcrate style ceiling and wall mounted grilles.<
2 - Poor 0 0 DEC-04 Event: Replace hydronic plumbing. Concern: Maintenance has to repair frequent pipe leaks. Valves no longer work leaks can't be isolated. Recommendation: Replace hydronic plumbing. Type Year Cost Failure Replace hydronic plumbing. Year Cost Updated: February 28 2005 Priority D3040.04.01 Fans*: Exhaust-1952 Bid. Low 1993: Several spun aluminium roof exhausters for Science Classroom general exhaust and washroom exhaust. Rating Installed Design Life Updated 93040.04.03 Ducts*: Exhaust-1952 Bid. 1993: Galvanized sheet metal. Rating Installed Design Life Updated 5 - Good 0 0 DEC-04 D3040.04.05 Air Outlets and Inlets*: Exhaust-1952 Bid. 1993: Eggcrate style ceiling and wall mounted grilles. Rating Installed Design Life Updated 5 - Good 0 0 DEC-04 D3040.04.05 Air Outlets and Inlets*: Exhaust-1952 Bid. 1993: Eggcrate style ceiling and wall mounted grilles. Rating Installed Design Life Updated 5 - Good <
Concern: Maintenance has to repair frequent pipe leaks. Valves no longer work leaks can't be isolated. Recommendation: Recommendation: Replace hydronic plumbing. Year Cost Priority Failure Replacement 2005 \$324,000 Low Updated: February 28 2005 Priority Low 1993: Several spun aluminium roof exhausters for Science Classroom general exhaust and washroom exhaust. Rating Installed Design Life Updated 5 - Good 0 30 DEC-04 D3040.04.03 Ducts*: Exhaust-1952 Bld. 1993: Galvanized sheet metal. Rating Installed Design Life Updated 5 - Good 0 0 0 DEC-04 D3040.04.05 Air Outlets and Inlets*: Exhaust-1952 Bld. 1993: Eggcrate style ceiling and wall mounted grilles. Rating Installed Design Life Updated 5 - Good 0 0 0 DEC-04 D3040.04.05 Air Outlets and Inlets*: Exhaust-1952 Bld. 1993: Eggcrate style ceiling and wall mounted grilles. Rating Installed Design Life Updated 5 - Good 0 0 0 DEC-04 D3040.05 Heat Exchangers*-1
Maintenance has to repair frequent pipe leaks. Recommendation: Replace hydronic plumbing.Year Cost S324,000Priority LowType Failure ReplacementYear 2005Cost S324,000Priority Low1993: Several spun aluminium roof exhausters for Science Classroom general exhaust and washroom exhaust.Rating 5 - GoodInstalled Design Life 0Updated DEC-041993: Galvanized sheet metal.Rating 5 - GoodInstalled Design Life 0Updated DEC-041993: Eggcrate style celling and wall mounted grilles.Rating 5 - GoodInstalled Design Life 0Updated DEC-041993: Superchanger model UX-206-HP-127, plate and frame type, hot water to glycol, heat exchanger protects are hard unt cols.
Replace hydronic plumbing. Year Year Sold Priority Failure Replacement 2005 \$324,000 Priority Uddated: February 28 2005 D3040.04.01 Fans*: Exhaust-1952 BId. 1993: Several spun aluminium roof exhausters for Science Classroom general exhaust and washroom exhaust. Rating Installed Design Life Updated 6 - Good 0 0 DEC-04 D3040.04.03 Ducts*: Exhaust-1952 BId. Installed Design Life Updated 1993: Galvanized sheet metal. Installed Design Life Updated 1993: Eggcrate style ceiling and wall mounted grilles. Installed Design Life Updated 1993: Eggcrate style ceiling and wall mounted grilles. Installed Design Life Updated 1993: Eggcrate style ceiling and wall mounted grilles. Installed Design Life Updated 2 - Good 0 0 0 Dec-04 Image: Superchanger model UX-206-HP-127, plate and frame type, hot water to glycol, heat exchanger protects and heat interviewer
Failure Replacement 2005 \$324,000 Low Updated: February 28 2005 D3040.04.01 Fans*: Exhaust-1952 Bld. 1993: Several spun aluminium roof exhausters for Science Classroom general exhaust and washroom exhaust. Rating Installed Design Life Updated 5 - Good 0 30 DEC-04 D3040.04.03 Ducts*: Exhaust-1952 Bld. 1993: Galvanized sheet metal. Rating Installed Design Life Updated 5 - Good 0 0 DEC-04 D3040.04.05 Air Outlets and Inlets*: Exhaust-1952 Bld. 1993: Eggcrate style ceiling and wall mounted grilles. Rating Installed Design Life Updated 5 - Good 0 0 DEC-04 D3040.04.05 Air Outlets and Inlets*: Exhaust-1952 Bld. 1993: Eggcrate style ceiling and wall mounted grilles. Rating Installed Design Life Updated 5 - Good 0 0 DEC-04 D3040.05 Heat Exchangers*-1952 Bld. 1933: Superchanger model UX-206-HP-127, plate and frame type, hot water to glycol, heat exchanger protects air hear intit coils.
D3040.04.01 Fans*: Exhaust-1952 Bld. 1993: Several spun aluminium roof exhausters for Science Classroom general exhaust and washroom exhaust. Rating Installed Design Life Updated 5 - Good 0 30 DEC-04 D3040.04.03 Ducts*: Exhaust-1952 Bld. Installed Design Life DEC-04 D93: Galvanized sheet metal. Installed Design Life Updated 5 - Good 0 0 DEC-04 D3040.04.05 Air Outlets and Inlets*: Exhaust-1952 Bld. Installed Design Life 1993: Eggcrate style ceiling and wall mounted grilles. Eating Installed Design Life 5 - Good 0 0 0 DEC-04 Dec-04 D3040.04.05 Air Outlets and Inlets*: Exhaust-1952 Bld. Installed Design Life Updated 1993: Eggcrate style ceiling and wall mounted grilles. Eating Installed Design Life Updated 5 - Good 0 0 0 DEC-04 Dec-04 D3040.05 Heat Exchangers*-1952 Bld. Installed Dec-04 Dec-04 D3040.05 Heat Exchangers*-1952 Bld. Installed Dec-04 Dec-04 <t< td=""></t<>
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Rating 5 - Good Installed 0 Design Life 30 Updated DEC-04 D3040.04.03 Ducts*: Exhaust-1952 Bld. 1993: Galvanized sheet metal. Rating 5 - Good Installed 0 Design Life 0 Updated DEC-04 D3040.04.05 Air Outlets and Inlets*: Exhaust-1952 Bld. 1993: Eggcrate style ceiling and wall mounted grilles. Rating 5 - Good Installed Design Life 0 Updated DEC-04 D3040.04.05 Air Outlets and Inlets*: Exhaust-1952 Bld. 1993: Eggcrate style ceiling and wall mounted grilles. Rating 5 - Good Installed Design Life 0 Updated DEC-04 D3040.05 Heat Exchangers*-1952 Bld. DEC-04 D3040.05 Heat Exchangers*-1952 Bld. 1993: Superchanger model UX-206-HP-127, plate and frame type, hot water to glycol, heat exchanger protects air has unit coils.
5 - Good 0 30 DEC-04 D3040.04.03 Ducts*: Exhaust-1952 Bld. 1993: Galvanized sheet metal. Rating Installed Design Life Updated 0 0 0 DEC-04 D3040.04.05 Air Outlets and Inlets*: Exhaust-1952 Bld. 1993: Eggcrate style ceiling and wall mounted grilles. Rating Installed Design Life Updated 5 - Good 0 0 DEC-04 D3040.05 Air Outlets and Inlets*: Exhaust-1952 Bld. 1993: Eggcrate style ceiling and wall mounted grilles. Exting Installed Design Life Updated 5 - Good 0 0 0 DEC-04 DEC-04 DEC-04 D3040.05 Heat Exchangers*-1952 Bld. 1993: Superchanger model UX-206-HP-127, plate and frame type, hot water to glycol, heat exchanger protects air has unit colls.
1993: Galvanized sheet metal. Rating 5 - Good Installed 0 Design Life 0 Updated DEC-04 D3040.04.05 Air Outlets and Inlets*: Exhaust-1952 Bld. 1993: Eggcrate style ceiling and wall mounted grilles. Rating 5 - Good Installed 0 Design Life 0 Updated DEC-04 D3040.05 Heat Exchangers*-1952 Bld. 1993: Superchanger model UX-206-HP-127, plate and frame type, hot water to glycol, heat exchanger protects air has unit coils.
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1993: Eggcrate style ceiling and wall mounted grilles. Rating Installed Design Life Updated 5 - Good 0 0 DEC-04 D3040.05 Heat Exchangers*-1952 Bld. 1993: Superchanger model UX-206-HP-127, plate and frame type, hot water to glycol, heat exchanger protects air haunit coils.
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5 - Good 0 0 DEC-04 D3040.05 Heat Exchangers*-1952 Bld. 1993: Superchanger model UX-206-HP-127, plate and frame type, hot water to glycol, heat exchanger protects air ha unit coils.
1993: Superchanger model UX-206-HP-127, plate and frame type, hot water to glycol, heat exchanger protects air ha unit coils.
unit coils.
Rating Installed Design Life Updated
5 - Good 0 30 DEC-04
D3050.05.02 Fan Coil Units*-1952 Bld.
1993: Cabinet heaters installed in entrances.
RatingInstalledDesign LifeUpdated5 - Good00DEC-04

Atting 5-Good Installed 0 Design Life 0 Updated DEC-04 20305.05.06 Unit Heaters*1952 Bid. 1993: Ducted unit heaters with hot water coils and centrifugal blowers serve the main entrance. Rating 6-Good 0 0 DEC-04 20305.02.01 Life trianal Electronic Controls*1952 Bid. 20305.02.01 Electric and Electronic Controls*1952 Bid. 20305.02.02 Preumatic Controls Metasys energy management and control system. Controls boiler plant, air handler, air terminals. 20305.02.02 Preumatic Controls*1953 Add /1962 Bid./1965 Bids. 20305.02.02 Preumatic Controls fail regularily, sticking valves uncalibrated room thermostats. and part replacement consume serves serves serves serves were maintenance. Rating 2 - Poor 0 40 DEC-04 Event 2 - Poor 10 40 DEC-04 Event 2 - Poor 0 40 DEC-04 Event 2 - Poor 0 205 Event 2005 Event		
Sating Installed Design Life Updated Society 0 0 Decode D3050.05.06 Unit Heaters':1952 Bid. 1993: Ducted unit heaters with hot water coils and centrifugal blowers serve the main entrance. Maing Society 0 0 Decode D3050.05.06 Unit Heaters':1952 Bid. 1993: Ducted unit heaters with hot water coils and centrifugal blowers serve the main entrance. Maing Installed Design Life Updated Society 0 0 DEC:04 D3050.05.02.01 Electric and Electronic Controls':1952 Bid. Society in the model of the serve the main entrance. Maing Installed Design Life Updated Society 0 30 DEC:04 D3050.02.02 OPerumatic Controls':1953 Add/1962 Bid/1965 Bids. 1952/1962/1965: Two air compressors provide air for pneumatic valves, damper operators and room thermostats. Sating Installed Design Life Updated Concern: Replace pneumatic controls Electronic Controls Replace pneumatic system with an EMCS. Installed Design Life Priority Low Jupdated: Electronics(BMCS, EMCS)':1952 Bid. 1983: Johnson Controls Metasys energy management and control system. Controls	D3050.05.03 Finned Tube	Radiation*-1952 Bld.
S- Good 0 0 DEC-04 D3050.05.06 Unit Heaters "1952 BId. 1993: Ducted unit heaters with hot water coils and centrifugal blowers serve the main entrance. Rating Installed Design Life Updated DEC-04 D3060.02.01 Electric and Electronic Controls"-1952 BId. 1993: Johnson Controls Metasys energy management and control system. Controls boiler plant, air handler, air terminals, perimeter radiation, and lighting (through relay panels). Rating Installed Design Life Updated 5 - Good 0 30 DEC-04 D3060.02.02 Pneumatic Controls*-1953 Add/1962 BId./1965 BIds. 1952/1962/1965: Two air compressors provide air for pneumatic valves, damper operators and room thermostats. Rating Installed Design Life Updated 2 - Poor 0 40 DEC-04 Event: Replace pneumatic controls Earlier explacement consumes excessive maintenance. Recommendation: Recommendation: Replace pneumatic system with an EMCS. Type Year Cost Priority Pailure Replacement 2005 \$216,000 Low Updated: February 28 2005 D3060.025 D3060.025 D3060.0205	1993: Slope top in hallways grilles.	s. Classrooms are combinations of finned tubes installed in slope top cabinets and millwork with
Page: Ducted unit heaters with how water coils and centrifugal blowers serve the main entrance. Rating Installed Design Life Updated 3 - Good 0 0 DEC-04 Page: Dotted unit heaters with hot water coils and centrifugal blowers serve the main entrance. Rating Installed 3 - Good 0 0 DEC-04 Page: Dotted unit heaters with hot water coils and centrol system. Controls boiler plant, air handler, air terminals, nerimeter radiation, and lighting (through relay panels). Rating Stating Installed Design Life Updated 5 - Good 0 30 DEC-04 D3060.02.02 Pneumatic Controls*-1953 Add/1965 Bids. Installed Design Life Updated 1952/1962/1965: Two air compressors provide air for pneumatic valves, damper operators and room thermostats. Rating Installed Design Life Updated 2 - Poor 0 40 DEC-04 DEC-04 DEC-04 DEC-04 Event Replace pneumatic controls Failure Replace and part replacement consumes excessive maintenance. Rating Updated Dec-04 Event Replace pneumatic system with an EMCS. Failure Replacenent Yoo Sols	<u>Rating</u> 5 - Good	
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Failure Replacement 2005 \$216,000 Low Updated: February 28 2005 D3060.02.05 Building Systems Controls(BMCS, EMCS)*-1952 Bld. 1993: Johnson Controls Metasys energy management and control system. Controls boiler plant, air handler, air terminals, berimeter radiation, and lighting (through relay panels). Rating Installed Design Life Updated DEC-04 D3060.02.05 Building Systems Controls(BMCS, EMCS)*-1962 Add. D3060.02.05 Building Systems Controls(BMCS, EMCS)*-1962 Add. 1988: Johnson Controls DSC-8500 acts as a glorified timeclock for enabling ventilation units and preforms some boiler placed with EMCS refer to D3060.02.02 for costs. Rating Installed Design Life Updated		
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control. Should be replaced with EMCS refer to D3060.02.02 for costs. Rating Installed Design Life	D3060.02.05 Building Syst	tems Controls(BMCS, EMCS)*-1962 Add.
	<u>Rating</u> 3 - Marginal	

D3090 Other Special HVAC Systems and Equipment*-1952 Bld.

1993: Fume hood installed in Science Prep Room.							
<u>Rating</u> 6 - Excellent	InstalledDesign LifeUpdated00DEC-04						
D4010 Sprinklers: Fire Pro	tection*						
1993: Mezzanine air handle	er room has fire sprinklers.						
<u>Rating</u> 1 - Critical	InstalledDesign LifeUpdated050DEC-04						

Event: Install sprinklers.

Concern:

Building area is well over the allowable unsprinklered area. City of Medicine Hat (AHJ) has mandated the installation of sprinklers in the school should any renovations or additions take place.

Recommendation:

Install sprinklers throughout the school if it is renovated.

Туре	Year	<u>Cost</u>	Priority
Code Upgrade	2005	\$405,000	High

Updated: February 28 2005

D4020 Standpipes*

Fire hose racks in recessed cabinets in corridors.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
5 - Good	0	50	DEC-04

D4030.01 Fire Extinguisher, Cabinets and Accessories*

Dry type fire extinguishers installed in semi recessed cabinets in corridors.

Rating	Installed	Design Life	Updated
5 - Good	0	30	DEC-04

S5 ELECTRICAL

D5010.03 Main Electrical Switchboards (Main Distribution)*-1952 Bld.

1993: FPE 2000A 208V three phase four wire service for the 1952, 1953, 1965 and school board office buildings. Branch breakers protect central distribution panels.

Rating	Installed	Design Life	Updated
5 - Good	0	40	DEC-04

Event: Extend distribution.

Concern:

School board office electrical is supplied from this main distribution and voltage drop has caused concerns. Transformer is tapped to the highest level causing phase voltage at near 130V at the distribution and 110V at the school board office. High and low voltages could damage equipment.

Recommendation:

Install a 13.8kV service to the school board office.

Туре	Year	<u>Cost</u>	Priority
Failure Replacement	2005	\$108,000	Medium

Updated: March 2 2005

D5010.03 Main Electrical Switchboards (Main Distribution)*-1962

1962: 1600A 208V three phase, four wire, switchboard.

Rating	Installed	Design Life	Updated
3 - Marginal	0	40	DEC-04

Event: Replace main distribution.

Concern:

Parts are no longer availabled for the switchboard.

Recommendation:

Replace switchboard.

Туре	Year	<u>Cost</u>	<u>Priority</u>
Failure Replacement	2005	\$54,000	Low

Updated: March 2 2005

D5010.05 Electrical Branch Circuit Panelboards (Secondary Distribution)*-1952 Bld.

1993: Bolt on branch breaker panelboards.

Rating	Installed	Design Life	<u>Updated</u>
6 - Excellent	0	25	DEC-04

D5010.05 Electrical Branch Circuit Panelboards (Secondary Distribution)*-1953 Add./1962 Add./1965 Blds.

1953/1962/1962: Bolt on branch breaker panelboards.

Rating	Installed	Design Life	<u>Updated</u>
3 - Marginal	0	30	DEC-04

D5010.07	7 Motor Control Ce	enters (Moto	r Control)*						
	ICC installed in weld								
Rating		Installed D	osian Lifo	Updated					
4 - Accep	table	0	0	DEC-04					
D5010.07	7.02 Motor Starters	and Access	ories*						
Various I	oose starters of diff	erent ages ir	nstalled thro	oughout the	school.				
Rating		Installed D							
3 - Margin	nal	0	0	DEC-04					
Event:	Replace starters.								
	Concern: Parts are not availa	ble for older	starters.						
	Recommendation								
	<u>Type</u> Failure Replacement		<u>Cost</u> \$43,200		Priority ∟ow				
	Updated: March 2 2	2005							
D5010.07	7.03 Variable Frequ	ency Drives	*						
1993: Ty	wo Siemens variabl	e speed drive	es installed	on 1952 B	uilding air	handler supp	oly and return	fans.	
Rating		Installed D	esign Life						
5 - Good		0	0	DEC-04					
D5020.01	1 Electrical Branch	Wiring*							
Original v	wiring and wiring de				been add	ed in some l	ocations for o	computers.	
<u>Rating</u> 3 - Margin	al	Installed D	esign Life 50	Updated DEC-04					
Event:	Add computer gra	de circuits.							
	Concern: Older wiring and re electronic equipme	•	e not suite	d to harmo	onics from				
	Recommendation: Install computer gra		ground circ	uits.					
	<u>Type</u> Program Functional U	Year Ipgrade 2005			<mark>Priority</mark> ∟ow				
	Updated: March 2 2	2005							
D5020.01	1 Electrical Branch	Wiring*-195	2 Bld.						
1993: W	/iring and wiring dev	vices.							
Rating 4 - Accep	table	Installed D	esign Life 50	Updated DEC-04					

D5020.02.01 Lighting Accessories (Lighting Controls)*-1952 Bld.
GE lighting control relay panels controlled by the EMCS.
RatingInstalledDesign LifeUpdated5 - Good030DEC-04
D5020.02.01 Interior Incandescent Fixtures*
1953: Some incandescent potlights installed in the gymnasium ceiling. Only used for temporary lighting.
Rating Installed Design Life Updated
4 - Acceptable 0 30 DEC-04
D5020.02.02 Interior Florescent Fixtures*-1952 Bld.
1993: T8 lighting with electronic dimming ballasts.
RatingInstalledDesign LifeUpdated3 - Marginal030DEC-04
Event: Replace ballasts.
Concern:
First generation dimming ballasts burn out tube prematurely.
Recommendation: Replace ballasts with modern electronic dimming ballasts.
TypeYearCostPriorityFailure Replacement2005\$54,000Low
Updated: March 2 2005
D5020.02.02 Interior Florescent Fixtures*-1953 Add./1962 Add./1965 Add.
1970: T12 fluorescents with magentic ballasts.
RatingInstalledDesign LifeUpdated3 - Marginal00DEC-04
Event: Replace fluorescent lighting.
Concern: Poor efficacy using T12 lamps and magnetic ballasts.
Recommendation: Replace fixtures with fixtures designed for T8 or T5 lamps and electronic ballasts
TypeYearCostPriorityEnergy Efficiency Upgrade2005\$972,000Low
Updated: March 2 2005
D5020.02.03 Interior Metal Halide Fixture*
1990: Metal halide high bays in main gymnasium of the 1962 Add.
RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

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D5020.02.02.05 Other Interior Fixtures*

1953: N	lercury vapour	high	bays in	gymnasium.
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Rating	Installed	<u>Design Life</u>	<u>Updated</u>
3 - Marginal	0	0	DEC-04

Event: Replace mercury vapour lights

Concern:

Mercury vapour lights have poor colour rendering and consume excessive energy.

Recommendation:

Replace with metal halide high bays with pulse start ballasts.

Туре	Year	<u>Cost</u>	Priority
Energy Efficiency Upgrade	2005	\$32,400	Low

Updated: March 2 2005

D5020.02.03 Emergency Lighting*-1952 Bld.

1993: Distributed battery packs and incandescent exit lights.

Rating	Installed	Design Life	<u>Updated</u>
3 - Marginal	0	30	DEC-04

Event: Replace exit lights

Concern:

Incandescent light bulbs consume excessive energy and continually burn out.

Recommendation:

Replace incandescent exit lights with LED lights.

Туре	Year	<u>Cost</u>	<u>Priority</u>
Energy Efficiency Upgrade	2005	\$4,320	Medium

Updated: March 2 2005

D5020.02.03 Emergency Lighting*-1953 Add./1962 Add./1965 Add.

03020.0	2.00 Emergency Eighting	-1000	Add./ 1902 Add./ 1	<u>303 Au</u>		
1981: C	Distributed battery packs wit	th remo	te heads and inca	ndescent exit lights.		
Rating 2 - Poor	<mark>Instal</mark> 0	led De	<mark>sign Life</mark> <u>Updat</u> 0 DEC			
Event:	Replace emergency light	ting.				
	Concern: Batteries are too old to he lighting requires constant l Recommendation: Replace emergency batt style.	bulb rep	placement.			
	Type Failure Replacement	<u>Year</u> 2005	<u>Cost</u> \$129,600	<u>Priority</u> Medium		
	Updated: March 2 2005					
D5020.0	2.05 Special Purpose Lig	hting*				
1993: T	heatre lighting in 1993 Add	lition to	the 1965 Band/D	rama Bld.		
Rating 5 - Good		led De	sign Life Updat 0 DEC			
D5020.0	3.01.04 Exterior H.P. Sodi	ium Fix	<u>ktures</u> *			
Various	ages and styles of area and	d secu	rity lighting on the	building.		
<u>Rating</u> 4 - Accep		led De	sign Life Updat 30 DEC			
D5030.0	1 Detection and Alarm Fi	re Aları	m*-1952 Bld.			
1952 Bl	d. Edwards 2280 control pa	anel.				
Rating 2 - Poor	<mark>Instal</mark> 0	led De	<u>sign Life</u> <u>Updat</u> 25 DEC			
Event:	Replace fire alarm system	<u>n.</u>				
	Concern: Panel is out of date and re	placen	nent parts are not	available.		
	Recommendation: Replace fire alarm system.					
	Type Failure Replacement	<u>Year</u> 2005	<u>Cost</u> \$32,400	<u>Priority</u> Medium		
	Updated: March 2 2005					
D5030.0	1 Detection and Alarm Fi	re Aları	m*-1953 Add.			

2004: Edwards EST2 conventional system with original devices.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	25	DEC-04

Report run on: January 30, 2006 1:25 PM

D5030.01 Detection and Alarm Fire Alarm*-1962 Bld.

1981: Edwards 2280 control panel monitors two other fire alarm panels and the 1962 Bld.

		·		er fire alarm panels and	
Rating		Installed De	sign Life	<u>Updated</u>	
2 - Poor		0	25	DEC-04	
Event:	Replace fire alarm	system.			
	Concern: Parts are not availal	ble for 2280 s	system.		
	Recommendation: Replace fire alarm lights.	system. R	eplace be	ells with bell strobe	
	Type Failure Replacement	<u>Year</u> 2005	<u>Cost</u> \$32,400	Priority Medium	
	Updated: March 2 2	005			
D5030.0	02.02 Intrusion Detec	ction*			
Three ii		stems monito	or differen	t areas of the school.	Infrared detectors monitor hallways and some
<u>Rating</u> 4 - Acce		Installed De	sign Life 25	Updated DEC-04	
D5030.0	2.03 Security Acces	<u>s</u> *			
Numerio	keypads installed at	main entranc	es.		
<u>Rating</u> 4 - Acce		Installed De	sign Life 25	Updated DEC-04	
D5030.0	3 Clock and Program	m Systems*			
1983: N	Master time clock syst	tem used to s	et time on	corridor clocks.	
Rating 2 - Poor		Installed De	sign Life 25	Updated DEC-04	
Event:	Replace clock syst	em			
	Concern: Clock program sys Neither system kee no longer available.			n of two systems. placement parts are	
	Recommendation: Replace clock progr	ramming syst	em.		
	<u>Type</u> Failure Replacement	<u>Year</u> 2005	<u>Cost</u> \$32,400	<u>Priority</u> Low	
	Updated: March 2 2	005			

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D5030.04.01 Telephone Systems*

1990: Telephones installed in every classroom and in the administration offices. Phone switch is located in the administration area of the 1962 Add.

Rating Installed Design Life Updated

5 - Good 0 25 DEC-04

D5030.04.05 Local Area Network Systems*

1990-2004: Local area network brought to all classroms and computer labs. Large server room. Mostly catagory 5 copper with some fibre backbone wiring.

RatingInstalledDesign LifeUpdated5 - Good00DEC-04

D5030.05 Public Address and Music Systems*

1990: Public address system located in the administration area. Classrooms have speakers some with the ability to talk back. Used as a PA system only staff relies on telephones for intercommunication.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	0	DEC-04

D5030.06 Television Systems*

1990: Some CCTV for message broadcasting in the two main lobbies.

Rating	Installed	Design Life	Updated
5 - Good	0	0	DEC-04

D5090.06 Lightning Protection Systems*

No surge supression installed.

Rating	Installed	Design Life	Updated
1 - Critical	0	25	DEC-04

Event: Install surge protection.

Concern:

No surge protection on main distribution panels to protect from utility power spikes. Sensitive equipment could be badly damaged.

Recommendation:

Install surge suppression on the main distribution panels.

Туре	Year	Cost	Priority
Program Functional Upgrade	2005	\$32,400	Low

Updated: March 2 2005

S6 EQUIPMENT, FURNISHINGS AND SPECIAL CONSTRUCTION

E1020.02 Library Equipment*

Erozoroz Erorary Equi	
1993: Electronic book t	heft security system.
Rating	Installed Design Life Updated
4 - Acceptable	0 0 DEC-04
E1020.03 Theater and	Stage Equipment*
1993: Steel pipe ceiling	lighting grid. 2004: drapes and curtains.
Rating	Installed Design Life Updated
6 - Excellent	0 0 DEC-04
E1020.07 Laboratory E	quipment*
1993: Science preperat	tion room has premanufactured fume hoods, safety showers and eye wash equipment.
Rating	Installed Design Life Updated
5 - Good	0 0 DEC-04
E1030.01 Vehicle Serv	ice Equipment*
1993: Two, freestanding	g hoists/engine lifts in auto repair shop.
Rating	Installed Design Life Updated
4 - Acceptable	0 0 DEC-04
E1090 Other Equipmen	<u>n</u> t
1979: Sawdust collection	on system in carpentry shop. Sawdust storage tank located outside, adjacent to building.
Rating	Installed Design Life Updated
4 - Acceptable	0 0 DEC-04
E1090.03 Food Service	Equipment*
	kitchen equipment, counters, tables, and range hood. Freezers and food preparation applianc place with prefabricated door, (see F1020.04).
Rating	Installed Design Life Updated
4 - Acceptable	0 0 DEC-04
E1090.04 Residential E	Equipment*
1998/99: Foods classr	ooms have residential type stoves, refrigerators, dishwashers and washer/dryers.
Rating	Installed Design Life Updated
5 - Good	0 0 DEC-04

E1090.07 Athletic, Recreational, and Therapeutic Equipment*

Both gymnasiums have padded, glass, main court basketball backboards, with electric motor operated, retractable, painted steel support framing, (south gymnasium glass backboards installed in 2000). Crosscourt backboards are painted plywood on fixed, wall mounted, painted steel frames. 2000: Vinyl, electric motor operated, drop down, gymnasium divider curtain in south gymnasium. Two electric scoreboards in south gymnasium (older scoreboard in north gymnasium). All equipment is in acceptable to good condition, except the 1953 north gymnasium has an original, electric motor operated, folding panel gymnasium divider.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	0	DEC-04

Event: Replace north gymnasium folding room divider.

Concern:

North gymnasium room divider is in poor condition, and track is worn. Divider is difficult to keep operational. Panel and motor repairs are high maintence.

Recommendation:

Replace north gymnasium folding room divider with motorized, drop down, vinyl curtain.

Туре	Year	<u>Cost</u>	Priority
Failure Replacement	2005	\$27,000	Low

Updated: February 23 2005

E2010.02.05 Educational Facility Casework*

1953/1957/1962: Classrooms have original varnished fir plywood cabinets and shelving.

Rating	Installed	<u>Design Life</u>	Updated
3 - Marginal	0	0	DEC-04

Event: Replace classroom millwork.

Concern:

Original, 1953,1957 & 1962, varnished fir plywood cabinets and shelving is worn, splintered, chipped and dated in appearance.

Recommendation:

Replace classroom millwork, (51 classrooms).

Туре	Year	<u>Cost</u>	Priority
Failure Replacement	2007	\$432,000	Low

Updated: February 23 2005

E2010.02.07 Kitchen Casework*

1998/1999: Foods classrooms have varnished birch cabinets and cupboards. Countertops are plastic laminate with solid birch nosings.

Rating	Installed	Design Life	Updated
5 - Good	0	0	DEC-04

E2010.02.08 Laboratory Casework*

1993: Science classrooms and prep rooms have varnished birch cabinets and cupboards. Countertops have acid resistant plastic laminate. Prefabricated, prefinished metal wall cabinets with sliding glass doors.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
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5 - Good 0 0 DEC-04

E2010.02.09 Library Casework*

1962: Varnished fir plywood shelving. Varnished wood checkout counter. with vertica, varnished wood battens on front. Countertop has a plastic laminate surface with wood edging.

RatingInstalledDesign LifeUpdated3 - Marginal00DEC-04

Event: Refinish checkout counter.

Concern:

Plastic laminate countertop and wood edging is worn.

Recommendation:

Resurface countertop and refinish edging.

Туре	<u>Year</u>	<u>Cost</u>	Priority
Repair	2008	\$2,160	Low

Updated: February 23 2005

Event: Replace library shelving.

Concern:

Original, 1962, varnished fir plywood shelving is worn, splintered, chipped and dated in appearance.

Recommendation:

Replace library shelving.

Туре	Year	<u>Cost</u>	Priority
Failure Replacement	2008	\$16,200	Low

Updated: February 23 2005

E2010.02.99 Other Casework*-Administration

1953: Notrh administration office has varnished fir plywood cabinets and shelving. 1962/1978?: Main, south administration office has varnished wood and plastic laminate countertops with wood edging.

Rating	Installed	Design Life	<u>Updated</u>
3 - Marginal	0	0	DEC-04

Event: Replace administration office millwork.

Concern:

The original millwork is worn and dated in appearance.

Recommendation:

Replace administration office millwork.

Туре	Year	Cost	Priority
Failure Replacement	2008	\$21,600	Low

Updated: February 23 2005

E2010.02.99 Other Casework*-Carpentry

1962: Workbenches with painted metal bases and laminated hardwood tops, in carpentry shop.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	0	DEC-04

E2010.02.99 Other Casework*-Greenhouse

1993: Geeenhouse work benches are 38x89 cedar framing, plastic laminate covered plywood recessed countertop, with galvanized steel liner.

Rating	Installed	Design Life	Updated
5 - Good	0	0	DEC-04

E2010.02.99 Other Casework*-Sewing

1962: Sewing classroom has original, varnished wood cabinets, shelving and work tables. Work tables have newer plastic laminate countertops with hardwood edging.

Rating	Installed	<u>Design Life</u>	Updated
3 - Marginal	0	0	DEC-04

Event: Replace sewing room millwork.

Concern:

Original varnished fir plywood cabinets and worktables are worn and dated in appearance.

Recommendation:

Replace cabinets and worktable bases. Reuse countertops.

Туре	<u>Year</u>	Cost	Priority
Failure Replacement	2008	\$37,800	Low

Updated: February 23 2005

E2010.02.99 Other Casework*-Vanities

1993,2000,2001: Washroom vanities are plastic laminate covered plywood.

Rating	Installed	Design Life	Updated
5 - Good	0	0	DEC-04

E2010.03.01 Blinds*

2000?: Horizonal, prefinished metal, venetian blinds on interior windows.

Rating	Installed	Design Life	Updated
5 - Good	0	0	DEC-04

E2010.03.01 Blinds*-Exterior Windows

1983?: PVC, vertical blinds in exterior windows of 1953/57 and 1962 building.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
3 - Marginal	0	10	DEC-04

Event: Replace exterior window blinds.

Concern:

PVC blinds are faded and aged, becoming brittle

Recommendation:

Replace exterior window blinds in 1953/57 building. Blinds in 1962 building would be replaced as part of the window replacement, (cost for blinds, incorporated within the glazing, is included in the replacement window cost).

Туре	Year	<u>Cost</u>	Priority
Failure Replacement	2007	\$10,800	Low

Updated: February 23 2005

E2010.03.06 Curtains and Drapes*

Some library windows have fabric drapes.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	0	DEC-04

E2010.04 Fixed Floor Grilles and Mats

Aluminum floor mat grilles in recessed mat wells in, 1962 building, south entry.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	0	DEC-04

E2020 Moveable Furnishings*

Various ages and types of desks, tables, and chairs. Older style hairdressing chairs in cosmetology classroom were reupholstered in 2005.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	0	DEC-04

2000: Retrac <u>Rating</u> 6 - Excellent <u>F1020.02 Spe</u> 1993: Scienc <u>Rating</u> 5 - Good <u>F1020.02 Spe</u> 1993: Explos <u>Rating</u> 5 - Good	Grandstands and Bleachers* ctable steel and wood bleachers with plastic seating caps, in south gymnasium. Installed Design Life 0 Updated DEC-04 ccial Purpose Rooms*-Greenhouse cce area has an Interior, glass and painted structural steel framed greenhouse, with roof skylight above. Installed Design Life 0 Updated DEC-04 0 0
Rating 6 - Excellent F1020.02 Spectron 1993: Science Rating 5 - Good F1020.02 Spectron 1993: Explose Rating 5 - Good F1020.02 Spectron 5 - Good F1020.02 Spectron 5 - Good F1093: Explose Fating 5 - Good	$\frac{\text{Installed}}{0} \frac{\text{Design Life}}{0} \frac{\text{Updated}}{\text{DEC-04}}$ ecial Purpose Rooms*-Greenhouse ce area has an Interior, glass and painted structural steel framed greenhouse, with roof skylight above. $\frac{\text{Installed}}{0} \frac{\text{Design Life}}{0} \frac{\text{Updated}}{\text{DEC-04}}$ ecial Purpose Rooms*-Paint Storage ion proof, fire-rated room for paint and autobody material storage, in autobody classroom, upgrade in 1993. $\frac{\text{Installed}}{0} \frac{\text{Design Life}}{0} \frac{\text{Updated}}{\text{DEC-04}}$
5 - Excellent F1020.02 Spe 1993: Science Rating 5 - Good F1020.02 Spe 1993: Explose Rating 5 - Good	0 0 DEC-04 ecial Purpose Rooms*-Greenhouse ce area has an Interior, glass and painted structural steel framed greenhouse, with roof skylight above. Installed Design Life Updated 0 0 0 DEC-04 ecial Purpose Rooms*-Paint Storage ion proof, fire-rated room for paint and autobody material storage, in autobody classroom, upgrade in 1993. Installed Design Life Updated 0 0 0 DEC-04
1993: Scienc <u>Rating</u> 5 - Good F1020.02 Spe 1993: Explos <u>Rating</u> 5 - Good	ce area has an Interior, glass and painted structural steel framed greenhouse, with roof skylight above. <u>Installed</u> Design Life Updated 0 0 DEC-04 ecial Purpose Rooms*-Paint Storage ion proof, fire-rated room for paint and autobody material storage, in autobody classroom, upgrade in 1993. <u>Installed</u> Design Life Updated 0 0 0 DEC-04
<u>Rating</u> 5 - Good F1020.02 Spe 1993: Explos Rating 5 - Good	Installed Design Life Updated 0 0 0 DEC-04 ecial Purpose Rooms*-Paint Storage
5 - Good F 1020.02 Spe 1993: Explos Rating 5 - Good	0 0 DEC-04 ecial Purpose Rooms*-Paint Storage ion proof, fire-rated room for paint and autobody material storage, in autobody classroom, upgrade in 1993. Installed Design Life Updated 0 0 DEC-04
1993: Explos <mark>Rating</mark> 5 - Good	ion proof, fire-rated room for paint and autobody material storage, in autobody classroom, upgrade in 1993. Installed Design Life Updated 0 0 DEC-04
Rating 5 - Good	Installed Design Life Updated 0 0 DEC-04
5 - Good	0 0 DEC-04
F1020.02 Spe	
	ecial Purpose Rooms*-Welding Booths
	I, welding booths with vertical, vinyl strip curtains and ducted exhaust system, in welding shop. Welding ga red in special purpose, exterior storage room.
Rating 4 - Acceptable	InstalledDesign LifeUpdated00DEC-04
F1020.02.04 (Cold Storage Rooms*
1962: Walk- nsulated met	in cooler in cafeteria kitchen has ceramic tiled floor and walls, painted fiberboard ceiling, premanufactur al door.
Rating 3 - Marginal	InstalledDesign LifeUpdated00DEC-04
Event: Repl	lace walk-in cooler ceiling.
	cern: ting, painted fibreboard ceiling is sagging and stained.
Rem	ommendation: hove deteriorated fibreboard and replace with insulated, inished, washable ceiling panels.
Type Failu	eYearCostPriorityIre Replacement2007\$2,160Low
Upda	ated: February 23 2005

F1020.02.13 Paint Booths*

1962?: Premanufactured, sprinklered, vehicle spray painting booth, in 1962 building I.A. autobody shop.

Rating	Installed	Design Life	Updated
3 - Marginal	0	0	DEC-04

Event: Replace spray paint booth.

Concern:

Existing 1962 paint booth is reported to provide poor ventilation and may not meet current health and safety regulations.

Recommendation:

Replace spray paint booth.

Туре	Year	<u>Cost</u>	Priority
Indoor Air Quality Upgrade	2006	\$86,400	Medium

Updated: February 23 2005

F2020.01 Asbestos*

Known asbestos in vinyl floor tiles and on mechanical pipe elbows in 1962 & 1965 buildings, is contained. Asbestos on pipe elbows in 1952/1953 buildings was removed during previous renovations. Remaining asbestos containing materials would have to be removed and disposed of, to current regulations, if disturbed by renovations.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	0	DEC-04

Medicine Hat - Medicine Hat High School (S3772

Fac	ility Details	Evaluation Details	
Building Name:	Medicine Hat High School	Evaluation Company: Baird & Bergum Architects	
Address:		Evaluation Date: December 1 2004	
Location:	Medicine Hat	Evaluator Name: Mr. Robert Baird	
Building Id:	S3772		
Gross Area (sq. m):	0.00		
Replacement Cost:	\$0		
Construction Year:	0	Total Maintenance Events Next 5 years:	\$282,960
		5 year Facility Condition Index (FCI):	0%

General Summary:

The high school site is mainly covered by buildings and asphalt paved areas. There are landscaped and irrigated grassed areas in front of the north and south buildings, and around the north and west sides of the central drama/band building. Concrete sidewalks, steps and ramps to all, but the north building's main entry, are in acceptable condition. All asphalt areas require resurfacing. The irrigated, grass playing field area is shared by an adjacent elementary school, and the high school's portion is too small. Sections of the chainlink fencing need replacement. Underground mechanical and electrical utilities are supplied by the City and are in acceptable to good condition. Car plug-ins and site lighting are in acceptable condition.

Structural Summary:

Envelope Summary:

Interior Summary:

Mechanical Summary:

Electrical Summary:

Rating Guide		
Condition Rating	Performance	
1 - Critical	Unsafe, high risk of injury or critical system failure.	
2 - Poor	Does not meet requirements, has significant deficiencies. May have high operating/maintenance costs.	
3 - Marginal	Meets minimum requirements, has significant deficiencies. May have above average operating maintenance costs.	
4 - Acceptable	Meets present requirements, minor deficiencies. Average operating/maintenance costs.	
5 - Good	Meets all present requirements. No deficiencies.	
6 - Excellent	As new/state of the art, meets present and foreseeable requirements.	

S7 SITE

G2010.02.02 Flexible Pavement Roadway (Asphalt)*

Asphalt paved access to east parking lots, along west side of school and between north and south buildings, connecting east and west paved areas.

Rating	Installed	Design Life	<u>Updated</u>
3 - Marginal	0	0	DEC-04

Event: Resurface asphalt roadways.

Concern:

All roadway areas are worn, and cracked with numerous patches.

Recommendation:

Resurface asphalt roadways, (approx. 3,500 sq.m.).

Туре	Year	<u>Cost</u>	Priority
Repair	2006	\$81,000	Low

Updated: February 19 2005

G2010.06 Roadway Appurtenances*

Low, painted steel pipe barricades with padlocked chains, at each end of roadway going between north and south buildings, (under skywalks), to prevent unauthorized vehicle traffic. Pedestrians can walk through spaces in barricades or step over chains. Pipes need to be repainted, (less than \$1000).

Rating	Installed	Design Life	Updated
4 - Acceptable	0	15	DEC-04

G2020.02.02 Flexible Paving Parking Lots(Asphalt)*

Asphalt paved east staff/student parking lot. Asphalt paved N.W. staff parking lot. Enclosed asphalt paved parking area adjacent to industrial arts shops used for access to overhead doors to shops and storage of vehicles and small sheds being constructed by students.

Rating	Installed	Design Life	<u>Updated</u>
3 - Marginal	0	0	DEC-04

Event: Resurface asphalt parking lots.

Concern:

All parking areas are worn, and cracked with numerous patches.

Recommendation:

Resurface asphalt parking lots, (approx. 6,150 sq.m.). Repaint parking stall lines

Туре	Year	<u>Cost</u>	Priority
Repair	2006	\$145,800	Low

Updated: February 19 2005

		Medicine Hat - Medicine Hat High School (53/72
G2020.06.01 Traffic Barrie	<u>ers*</u>	
Precast concrete barriers	along driveway to east, sta	aff and student parking lots.
Rating	Installed Design Life	Updated
4 - Acceptable	0 0	DEC-04
G2020.06.02 Parking Bun	npers*	
Precast concrete wheelsto	ops in east, staff and stude	ent parking stalls.
Rating	Installed Design Life	Updated
3 - Marginal	0 0	DEC-04
Event: Replace deterior	rated wheelstops.	
Concern: Several precast o	concrete wheelstops are d	deteriorated.
Recommendatio Replace deteriora	n : ated wheelstops, (approx	x. 30).
Туре	Year Cost	Priority
Failure Replaceme	nt 2006 \$3,240	Low
Updated: Februa	ry 19 2005	
G2020.06.03 Parking Lot	<u>Signs</u> *	
Numerous, painted metal s	signs mounted on building	as and steel pipe posts, identifying parking regulations.
Rating	Installed Design Life	Updated
5 - Good	0 0	DEC-04
G2020.06.04 Pavement M	arkings*	
Painted parking stall lines.	To be repainted when pa	arking lots repaved, (see G2020.02.02).
Rating	Installed Design Life	
3 - Marginal	0 0	DEC-04

G2030.04 Rigid Pedestrian Pavement (Concrete)*

Concrete pad under N.E. seating area. Concrete sidewalks to entries are in acceptable condition, except to main entry to north building, and N.E. gymnasium exit.

Rating	Installed Design Life	Updated
4 4	 2 2	

4 - Acceptable 0 0 DEC-04

Event: Replace concrete sidewalks.

Concern:

Concrete sidewalk to main entry of the north building is cracked and settled.

Recommendation:

Replace concrete sidewals, (120 sq.m.).

Туре	Year	<u>Cost</u>	Priority
Failure Replacement	2005	\$18,360	Low

Updated: February 19 2005

G2030.06 Exterior Steps and Ramps*

Long flight of concrete steps to drama/band building. Painted steel pipe handrails and guardrails.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	0	DEC-04

G2040.02 Fences and Gates*

1800mm high chainlink fence along property lines abutting grassed playing field, and along east side of playing field. No gates, just openings in the fence. 1800mm high chainlink fence, with large gates, around industrial arts exterior storage compound. Vinyl strips woven in chainlink fence along south side of industrial arts compound, to screen storage area from the street. Also a short section of freestanding, decorative brick and precast concrete fence along south side of industrial arts storage compound.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	0	0	DEC-04

Event: Replace sections of chainlink fencing.

Concern:

Sections of chainlink fencing are damaged.

Recommendation:

Replace sections of chainlink fencing, (approx. 280 meters).

Туре	Year	<u>Cost</u>	Priority
Failure Replacement	2007	\$27,000	Low

Updated: February 19 2005

G2040.03 Athletic and Recreational Surfaces*

Shale infield baseball diamond. Shale should be upgraded, (less than \$1,000). Basketball area in asphalt paved roadway between north and south buildings, (see G2010.02.02 for resurfacing of asphalt).

Rating	Installed	Design Life	Updated
3 - Marginal	0	0	DEC-04

G2040.04 Athletic and Recreational Equipment*

Fiberglass basketball backboards on painted steel posts in asphalt roadway area between north and south buildings. Painted steel pipe soccer goals in grassed playing field.

Rating Installed Design Life Updated

4 - Acceptable 0 25 DEC-04

G2040.04.01.01 Athletic or Recreational Screening

Small, painted steel pipe baseball backstop with chainlink fabric and painted wood boards.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
3 - Marginal	0	0	DEC-04

Event: Replace with larger baseball backstop.

Concern:

Backstop is in poor condition, and too small.

Recommendation:

Replace with larger baseball backstop.

Туре	Year	<u>Cost</u>	Priority
Failure Replacement	2007	\$3,240	Low

Updated: February 19 2005

G2040.04.01.04 Sports Goals and Equipment*

Painted steel football goal posts, with uprights.

Rating	Installed	Design Life	Updated
3 - Marginal	0	0	DEC-04

Event: Replace goal posts.

Concern: Football goal posts are rusted and deteriorating.

Recommendation:

Replace the two football goal posts.

Туре	Year	<u>Cost</u>	Priority
Failure Replacement	2007	\$4,320	Low

Updated: February 19 2005

G2040.05 Site and Street Furnishings*

Prefinished metal benches and trash receptacle, anchored to concrete pad, in seating area in N.E. corner of site, near bus loading area. Fixed, painted steel frame and wood slat, trash can holder near south entry. Freestanding, large, painted steel oil drums used for trash receptacles at secondary entries. Painted steel bike racks near north entry.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	0	DEC-04

G2040.06 Exterior Signs*

Name of school in individual aluminum letters mounted on the brick building wall adjacent to north entry, and individual, prepainted painted metal letters, on prepainted backing plate, mounted on south face of canopy above south entry.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	0	0	DEC-04

G2040.08 Flagpoles*

Freestanding, painted steel flagpole, in grassed area, in front of the north building entry. Freestanding, aluminum flagpole, in grassed area, in front of the south building entry.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	0	0	DEC-04

G2040.09 Covers and Shelters*

Protection to ground level pedestrian traffic between buildings is provided by the two, second floor skywalks, above, connecting north and south buildings. Construction of skywalks is in the building report.

Rating	Installed	Design Life	<u>Updated</u>
5 - Good	0	0	DEC-04

G2040.11 Retaining Walls*

Cast-in- place concrete retaining wall along side of south stairs to drama/band building. Small section of low retaining wall, constructed of decorative concrete block, along S.E. sidewalk.

Rating	Installed	Design Life	Updated
5 - Good	0	0	DEC-04

G2050.01 Irrigation Systems*

Underground irrigation to grassed and planter areas.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	0	DEC-04

G2050.04 Lawns and Grasses*

Irrigated grass areas in front of north and south buildings, and in interior courtyard of south building. Large, Irrigated grass playing field, which has to be shared with adjacent elementary school. However, the portion available for the high school's use is too small.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	0	0	DEC-04

G2050.05 Trees, Plants and Ground Covers*

Large evergreen and deciduous trees in front of north and south buildings, in interior courtyard of south building, and around drama/band building. Deciduous bushes in planting beds, adjacent to north and south building foundations. Large evergreen and deciduous trees, and deciduous bushes along chainlink fence between west, asphalt paved area and grassed playing field.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
5 - Good	0	0	DEC-04

	<u> </u>
G2050.07 Planting Ac	cessories*
	rea near drama/band building. Decorative concrete block planter at S.E. corner of site. Raised bri ap, in interior courtyard of south building.
Rating	Installed Design Life Updated
5 - Good	0 0 DEC-04
G3010.02 Site Domes	tic Water Distribution*
Three underground wa	ter services from the City of Medicine Hat
<u>Rating</u>	Installed Design Life Updated
4 - Acceptable	0 0 DEC-04
G3010.03 Site Fire Pro	otection Water Distribution*
Fire hydrants surround	site.
Rating	Installed Design Life Updated
5 - Good	0 0 DEC-04
G3020.01 Sanitary Se	wage Collection*
Underground service f	rom the City of Medicine Hat.
Rating	Installed Design Life Updated
4 - Acceptable	0 0 DEC-04
G3030.01 Storm Wate	r Collection*
Roof drains connect to	underground City of Medicine Hat storm water main.
Rating	Installed Design Life Updated
4 - Acceptable	0 0 DEC-04
G3030.02 Storm Wate	r Equipment*
Area drains and catch	basins located in hardscaped areas.
Rating	Installed Design Life Updated
5 - Good	0 0 DEC-04
G3060.01 Gas Distrib	ution*
Underground steel nat	ural gas service provided by the City of Medicine Hat.
Rating	Installed Design Life Updated
5 - Good	0 0 DEC-04
G4010.01 Electrical S	ubstations*
	listribution transformer and south pad mounted distribution transformer. Both transformers ha I 120/208V secondaries.
Rating	Installed Design Life Updated
5 - Good	0 0 DEC-04

5 - Good 0 0 DEC-04

G4010.02 Electrical Power Distribution Lines*

1993: Underground primary lines from high voltage overhead feed off school property. 13,800V underground lines from high voltage switchgear to two distribution transformers.

Rating Installed Design Life Updated

5 - Good 0 0 DEC-04

G4010.03 Electrical Power Distribution Equipment*

1993: Primary metered service with 13,800V switchgear supplying distribution transformers on site.

Rating	Installed	Design Life	<u>Updated</u>
5 - Good	0	0	DEC-04

G4010.04 Car Plugs-ins*

Pedestal and wall mounted, weatherproof receptacles for staff parking. Receptacles are controlled by a time clock and thermostat. Thermostat has three settings. When the outside temperature is low the receptacles are energized continuously, at intermediate temperatures, the receptacles cycle on/off, and above the set point, the receptacles are deactivated.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	0	DEC-04

G4020.01 Area Lighting*

HID, pole mounted parking lot lighting.

Rating	Installed	Design Life	Updated
4 - Acceptable	0	0	DEC-04

S8 FUNCTIONAL ASSESSMENT

K3020 Indoor Environment

Both gymnasiums have	painted brick and/or block walls,	with no acoustic treatment.
2011 9)		

Rating	Installed	Design Life	Updated
3 - Marginal	0	0	DEC-04

Event: Install wall acoustics in both gymnasiums.

Concern:

Both gymnasiums have painted brick and/or block walls, with no acoustic treatment. Gymnasiums are reported to be noisy.

Recommendation:

Install wall acoustics in both gymnasiums.

Туре	Year	<u>Cost</u>	<u>Priority</u>
Program Functional Upgrade	2007	\$54,000	Low

Updated: February 23 2005

K40 Current Code Issues

All buildings appear to have been built to codes at time of construction, and major modernizations have installed sprinklers and improved fire separations to meet current code. Sprinklers have to be installed in future major renovation areas.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	0	0	DEC-04

K4010.01 Barrier Free Route: Parking to Entrance

Level sidewalk with curbcut from City sidewalk to north entry. Ramp from City sidewalk to south entry. Access from staff and student parking lots to lower east entries of north and south buildings is level and asphalt paved.

Rating	Installed	Design Life	<u>Updated</u>
5 - Good	0	0	DEC-04

K4010.02 Barrier Free Entrances

2001/2003: Power operators installed to both north, main entry doors, and lower south entry door of 1953 building, and lower, N.E. entry door to 1962 building.

Rating	Installed	<u>Design Life</u>	<u>Updated</u>
3 - Marginal	0	0	DEC-04

Event: Install power operators to entry doors.

Concern:

Doors to main, south entry of 1962 building do not have power operators.

Recommendation:

Install power operators to one set of exterior and vestibule entry doors to 1962 building's south main entry, (total 2 doors).

<u>Type</u>	<u>Year</u>	<u>Cost</u>	Priority
Barrier Free Access Upgrade	2005	\$8,640	Low

Updated: February 23 2005

K4010.03 Barrier Free Interior Circulation

An elevator, two enclosed wheelchair lifts, and two, open, wheelchair platform lifts, in the north building, provide barrier free access to all areas in the north building, except to the lower floor art and CTS areas in the west wing of the north building. No barrier free access between the main and second floors of the south building, No barrier free access between main and lower floors of drama/band building.

Rating	Installed	Design Life	Updated
2 - Poor	0	0	DEC-04

Event: Install elevator and two enclosed wheelchair lifts.

Concern:

No barrier free access between main and second floors of the south building, or to the lower floor art and CTS areas in the west wing of the north building. No barrier free access between main and lower floors of drama/band building.

Recommendation:

Install an elevator in south building, an enclosed wheelchair lift, in the drama/band building, and another enclosed wheelchair lift in west wing of the north building, to provide access to the art and CTS areas.

Туре	<u>Year</u>	<u>Cost</u>	Priority
Barrier Free Access Upgrade	2006	\$216,000	Low

Updated: February 23 2005

K4010.04 Barrier Free Washrooms

Barrier free washrooms installed in the south building in 1993 and in the north building in 1993/2001. No barrier free washrooms in the drama/music building.

Rating	Installed	Design Life	<u>Updated</u>
3 - Marginal	0	0	DEC-04

Event: Provide barriier free washrooms in the drama/band building.

Concern:

No barrier free washrooms in the drama/band building.

Recommendation:

Renovate public washrooms in the drama portion of the drama/band building, to provide barrier free washrooms.

Туре	Year	<u>Cost</u>	Priority
Barrier Free Access Upgrade	2006	\$27,000	Low

Updated: February 23 2005