

RECAPP Facility Evaluation Report

Chinook's Edge School Division No. 73



Fox Run Middle School

B4713A
Sylvan Lake

Facility Details

Building Name: Fox Run Middle School
Address: 2 Falcon Ridge Drive
Location: Sylvan Lake

Building Id: B4713A
Gross Area (sq. m): 6,555.76
Replacement Cost: \$21,231,000
Construction Year: 1999

Evaluation Details

Evaluation Company: Bacz Engineering Ltd.
Evaluation Date: October 19 2012
Evaluator Name: Eric Lumley

Total Maintenance Events Next 5 years: **\$296,500**
5 year Facility Condition Index (FCI): **1.40%**

General Summary:

The Fox Run School is a shared campus building with Mother Teresa School and has some shared space. It is masonry construction constructed in 2000. It is a two storey building with a gross area of 6555 sq.m.,

Structural Summary:

This building has a structural steel framed on concrete foundation walls on concrete strip footings ,concrete slab on grade, concrete topping on steel deck second floor, and a steel deck roof.

Envelope Summary:

This building has a split face block veneer to approximately 2400 high above grade used in combination with EIFS and metal cladding. Windows are double glazed in anodized aluminum frames. The roof is a single ply loose laid EPDM membrane.

Interior Summary:

The interior walls are primarily painted gypsum board, with accent strips of metal cladding in the main lobby areas. The floor finish is resilient sheet vinyl. The steel stair treads are rubber finished complete with non-slip inserts. Most corridor walls are 200 mm concrete block, painted. Fire rated hollow metal doors and pressed steel frames are installed on Janitorial, storage, and service rooms, in addition to stairwells. Classroom doors are SCWD in pressed steel frames.

Mechanical Summary:

Heating and air conditioning system for the entire school consists of heat pumps system fed from the central boiler plant and complete with an outdoor dry cooler. Main boiler plant is located in common mechanical room that is located in the Chinook's Edge school section.

Heat pumps provide zone heating and cooling control to all areas.

Fresh air to the school is provide by designated hydronic air handling units serving Red Deer Catholic School, Chinook's Edge School, Common Areas, Kitchen and Industrial Arts.

Domestic hot water is generated by two tank type, gas fired commercial water heaters located in the boiler room.

Domestic hot water and tempered water recirculation system in place.

Conventional plumbing fixtures throughout the school.

Industrial Arts, Woodworking and Kitchen areas served by designated ventilation / exhaust systems.

All building controls are direct digital type complete with remote access.

Fire suppression system consists of sprinkler system and hand held fire extinguishers. Sprinkler tree complete with excess pressure pump located in boiler room.

Humidification system is currently disconnected and not required by maintenance personnel.

Overall mechanical system components are in good condition.

Electrical Summary:

The building has underground power service, and is fed from an outdoor pad mounted transformer to an 1600A, 347/600V 3 phase main electrical distribution panel which is located inside Fox Run Building. The MDP feeds both schools. The main breaker for the school is EP-600A that feeds a CDP in room 280 to distribute power through out the building. Fiber optic is located inside Fox Run Building and feeds both schools. Analog telephone service is available and is fed from Mother Teresa. Telephone service for Fox Run is through VOIP. The cable TV service is fed from Mother Teresa. T8 fluorescent lights are installed throughout the school and T5 fluorescent lights were changed from metal halide inside gym. The fire alarm consists of an addressable Edwards EST2 main FACP located in main entrance of Fox Run, and two annunciators with one annunciator serving the Mother Teresa. The overall rating for electrical system is good.

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***

The concrete foundation walls on strip footings.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

A1030 Slab on Grade*

Concrete slab on grade throughout.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

B1010.01 Floor Structural Frame (Building Frame)*

Concrete topping on steel deck on steel columns and beams.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

B1010.03 Floor Decks, Slabs, and Toppings*

Second floor concrete topping on metal deck.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

B1010.09 Floor Construction Fireproofing*

It is assumed that fireproofing was done in accordance with the building code at the time of construction.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

B1010.10 Floor Construction Firestopping*

Firestopping is acceptable throughout.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | FEB-09 |

B1020.01 Roof Structural Frame*

Steel deck on OWSJ on steel beams and columns.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

B1020.04 Canopies*

Steel framed structures at main entrance and community entrance.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

S2 ENVELOPE**B2010.01.02.02 Concrete Block: Ext. Wall Skin***

Concrete block exterior veneer. Some localized staining of the concrete block at the gym due to overflow from the roof scuppers.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal | 2000 | 0 | JAN-13 |

Event: Clean concrete block where stained.B.O.E. 85 sq.m.

Concern:

Staining and discolouration of the split faced block at the gym due to overflow from the roof scuppers.

Recommendation:

Clean the block by scrubbing with soap and water.

Consequences of Deferral:

Continual overflow on to the block may cause premature deterioration and is unsightly.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-------------|-------------|-------------|-----------------|
| Repair | 2014 | \$5,000 | Low |

Updated: JAN-13

B2010.01.05 Exterior Insulation and Finish Systems (EIFS)*

Acrylic stucco is on all building facades and is used in conjunction with split faced concrete block and metal siding.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

B2010.01.06.03 Metal Siding**

Corrugated metal siding used horizontally in conjunction with prefinished metal siding.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 40 | JAN-13 |

Event: Replace Metal Siding. B.O.E. 100 sq.m.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2040 | \$14,200 | Unassigned |

Updated: JAN-13

B2010.01.11 Joint Sealers (caulking): Ext. Wall**

Caulking at all changes in materials and around doors and windows.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 20 | JAN-13 |

Event: Replace Joint Sealers. B.O.E. 387 m

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020 | \$13,000 | Unassigned |

Updated: JAN-13

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

Tyvek building wrap is installed on the exterior side of the sheathing. It is assumed there is batt insulation between the steel stud exterior walls with polyethylene interior vapour retarder.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

B2010.06 Exterior Louvers, Grilles, and Screens*

Prefinished metal louvres are on the east facade.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

B2010.09 Exterior Soffits*

Prefinished metal soffits on projecting roof overhangs.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

B2020.01.01.02 Aluminum Windows (Glass & Frame)**

Anodized aluminum frames with double glazing throughout the building.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 40 | JAN-13 |

Event: Replace aluminum windows. B.O.E. 137 sq.m.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2040 | \$172,000 | Unassigned |

Updated: JAN-13

B2020.02 Storefronts: Windows- Aluminum Framed**

Aluminum curtain walling at entrances.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 40 | JAN-13 |

Event: Replace aluminum curtain walling. B.O.E. 135 sq.m.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2040 | \$169,000 | Unassigned |

Updated: JAN-13**B2030.02 Exterior Utility Doors****

Insulated hollow metal exterior doors.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 40 | JAN-13 |

Event: Replace Exterior Utility Doors. B.O.E. 4 doors

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2040 | \$3,600 | Unassigned |

Updated: JAN-13**B2030.03 Large Exterior Special Doors (Overhead)***

Two prefinished insulated metal panel overhead doors., each approximately 3m high x 3mwide.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

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

Loose laid single ply membrane.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 25 | JAN-13 |

Event: Replace Membrane Roofing. B.O.E. 3910 sq.m.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2025 | \$837,300 | Unassigned |

Updated: JAN-13

B3020.02 Other Roofing Openings (Hatch, Vent, etc)*

Access to the roof is through the hatch from the Mechanical room.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | FEB-09 |

S3 INTERIOR**C1010.01 Interior Fixed Partitions***

Concrete block partitions to corridors.
Partition walls between classrooms are steel stud with gypsum board both sides.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

C1010.03 Interior Operable Folding Panel Partitions**

Folding operable wall in ancillary classroom.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 30 | JAN-13 |

Event: Replace folding panel partitions. BOE: 18 sq.m.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2030 | \$22,000 | Unassigned |

Updated: JAN-13

C1010.04 Interior Balustrades and Screens, Interior Railings*

Painted metal railings and balustrades to mezzanines.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

C1010.05 Interior Windows*

Interior windows are single glazed in painted, pressed steel frames.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

C1010.06 Interior Glazed Partitions and Storefronts*

Interior storefronts at the office and administration areas are single glazed in pressed steel and aluminum frames.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | FEB-09 |

C1020.01 Interior Swinging Doors (& Hardware)*

Wood veneer solid core wood doors to classroom and offices.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

C1020.03 Interior Fire Doors*

Fire rated metal doors and frames to storage rooms and mechanical areas.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

C1030.01 Visual Display Boards**

Whiteboard and tackboard to classrooms.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 20 | JAN-13 |

Event: Replace whiteboard and tackboard. B.O.E. 75 units

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020 | \$54,700 | Unassigned |

Updated: JAN-13

C1030.02 Fabricated Compartments (Toilets/Showers)**

Prefinished metal toilet partitions to washrooms.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 30 | JAN-13 |

Event: Replace toilet partitions. B.O.E. 14 cubicles.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2030 | \$29,000 | Unassigned |

Updated: JAN-13

C1030.08 Interior Identifying Devices*

Interior doors are labeled with a room number, teachers name, or room function.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | FEB-09 |

C1030.10 Lockers**

Prefinished full height lockers in corridors.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 30 | JAN-13 |

Event: Replace Lockers. B.O.E. 385 lockers

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2030 | \$209,000 | Unassigned |

Updated: JAN-13

C1030.14 Toilet, Bath, and Laundry Accessories*

All washrooms are equipped with mirros, soap dispensers and toilet roll holders.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

C2010 Stair Construction*

Steel pan stairs with concrete fill, steel stringers.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

C2020.05 Resilient Stair Finishes**

Rubber studded treads and landings, with non-slip nosings.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 20 | JAN-13 |

Event: Replace Resilient Stair Treads. B.O.E. 108 treads

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020 | \$15,000 | Unassigned |

Updated: JAN-13

C2020.08 Stair Railings and Balustrades*

Painted metal guardrails and balusters.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

C3010.11 Interior Wall Painting*

Paint finish concrete block and gypsum board walls throughout.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

C3020.01.02 Painted Concrete Floor Finishes*

Mechanical room concrete floor is painted.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

C3020.04 Wood Flooring**

Cushioned maple sports flooring to gym.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 30 | JAN-13 |

Event: Replace Gymnasium Wood Flooring. B.O.E. 460 sq.m.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2030 | \$181,000 | Unassigned |

Updated: JAN-13

C3020.07 Resilient Flooring**

Resilient sheet flooring in corridors and classrooms.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 20 | JAN-13 |

Event: Replace Resilient Flooring. B.O.E. 5450 sq.m.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020 | \$502,000 | Unassigned |

Updated: JAN-13

C3020.08 Carpet Flooring**

Glued down carpet is installed in the administration offices and the library.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 15 | JAN-13 |

Event: Replace Carpet Flooring. B.O.E. 645 sq.m.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2016 | \$48,500 | Unassigned |

Updated: JAN-13

C3030.02 Ceiling Paneling (Wood)*

Curved acoustic panels suspended from ceiling in music room.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

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

Lay-in acoustic tile is installed in corridors, classrooms, and the administration offices.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 25 | JAN-13 |

Event: Replace Acoustic Ceiling Tiles. B.O.E. 2556 sq.m.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2025 | \$128,000 | Unassigned |

Updated: JAN-13

C3030.07 Interior Ceiling Painting*

Painted gypsum board ceilings to utility areas, washrooms and change rooms. Painted steel deck form ceiling of atrium.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

D1010.02 Lifts**

The hydraulic Handicap Wheelchair Lift. Sized for one handicap person and one attendant.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 25 | JAN-13 |

Event: Replace handicapped wheelchair lift.B.O.E. one

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2025 | \$26,700 | Unassigned |

Updated: JAN-13

S4 MECHANICAL**D2010.04 Sinks****

Stainless steel single and double compartment sinks located throughout the school.
Sinks serving science labs complete with bottle traps.
Semi circular washfountain located in the Industrial Arts area.
Floor mounted, molded stone mop sinks with vacuum breakers located in Janitor Rooms.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 30 | JAN-13 |

Event: Replace 21 Sinks.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2030 | \$30,000 | Unassigned |

Updated: JAN-13**D2010.05 Showers****

Gang showers with push button faucets serving change rooms. Fiberglass shower with mixing valve serving teacher's change room.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 30 | JAN-13 |

Event: Replace 18 Showers.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2030 | \$36,000 | Unassigned |

Updated: JAN-13**D2010.08 Drinking Fountains/Coolers****

Wall mounted, stainless steel non refrigerated drinking fountains.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 35 | JAN-13 |

Event: Replace 8 Drinking Fountains.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2035 | \$19,000 | Unassigned |

Updated: JAN-13

D2010.10 Washroom Fixtures (WC, Lav, Urnl)**

UR - wall mounted, vitreous china, flush valve operation.

WC - floor mounted, vitreous china, elongated bowl, open front seat, less cover, flush valve.

LV - Bradley 3-station wash fountain complete with infrared faucets.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 35 | JAN-13 |

Event: Replace 44 Washroom Fixtures (WC, Lav, Urnl)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2035 | \$66,000 | Unassigned |

Updated: JAN-13

D2020.01.01 Pipes and Tubes: Domestic Water*

Copper type L piping distribution to plumbing fixtures.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D2020.01.02 Valves: Domestic Water**

Gate, ball and check valves within the domestic water distribution system.

Central mixing valve serving showers located in the boiler room.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 40 | JAN-13 |

Event: Replace 220 Valves: Domestic Water

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2040 | \$45,000 | Unassigned |

Updated: JAN-13

D2020.01.03 Piping Specialties (Backflow Preventers)**

Double check valve assembly 100mm potable water system.

Approved double check valve assembly serving sprinkler system.

Check valves serving domestic hot water system.

Vacuum breakers serving mop sinks and hose bibbs.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 20 | JAN-13 |

Event: Replace Piping Specialties (Backflow Preventors)(1).

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020 | \$35,000 | Unassigned |

Updated: JAN-13

D2020.02.02 Plumbing Pumps: Domestic Water**

In-line domestic hot water recirculation pumps, Armstrong S25.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 20 | JAN-13 |

Event: Replace 2 Plumbing Pumps: Domestic Water.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020 | \$4,500 | Unassigned |

Updated: JAN-13

D2020.02.06 Domestic Water Heaters - 2006**

Natural gas fired, tank type domestic water heater. A..Smith model BTRC500A, 131 kW heating capacity, 285 l storage volume.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2006 | 20 | JAN-13 |

Event: Replace Domestic Water Heater.(1)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2026 | \$7,000 | Unassigned |

Updated: JAN-13

D2020.02.06 Domestic Water Heaters - 2009**

Natural gas fired, tank type domestic water heater. A..Smith model BTRC500A, 131 kW heating capacity, 285 l storage volume.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2009 | 20 | JAN-13 |

Event: Replace Domestic Water Heater.(1)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2029 | \$7,000 | Unassigned |

Updated: JAN-13

D2020.03 Water Supply Insulation: Domestic*

Domestic water lines are insulated with standard fiberglass jacketed materials.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D2030.01 Waste and Vent Piping*

PVC and copper.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D2030.03 Waste Piping Equipment*

Grease trap serving kitchen sinks.
Bottle traps serving science lab sinks.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D2040.01 Rain Water Drainage Piping Systems*

PVC. Rain water collection via roof drains and storm water piping to storm main.
Sump pump complete with Hydromatic spd50h submersible pump serving weeping tile system.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D2040.02.04 Roof Drains*

Cast iron domes, controlled flow and open flow roof drains.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D3010.02 Gas Supply Systems*

Gas distribution piping to boilers and domestic water heaters. Steel schedule 40. Pressure regulators in mechanical room.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D3020.01.01 Heating Boilers & Accessories: Steam**

Weil McLain LGB-6 boiler serving humidification system, 481 LBS/hr of steam. System complete with brine tank, water softener, backflow preventers, chemical treatment and steam piping distribution to three air handling units. Disconnected.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 35 | JAN-13 |

Event: Replace Humidification Boiler and Accessories.(1)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2035 | \$75,000 | Unassigned |

Updated: JAN-13

D3020.02.01 Heating Boilers and Accessories: H.W.**

Heating plant consists of two Weil McLain LGB-22 dual gas boilers. Both boiler have 800 kW heating capacity and provide 60% hot water heating capacity each. Units supply hot water to glycol heat pump loop, unit heaters and air handling units.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 35 | JAN-13 |

Event: Replace Boiler Plant.(1)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2035 | \$185,000 | Unassigned |

Updated: JAN-13

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

900mm diameter common class B chimney serving boilers up through the roof.
1400X1000 combustion air duct complete with designated fan coil unit and wall louver.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 35 | JAN-13 |

Event: Replace Chimneys & Comb. Air.(1)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2035 | \$45,000 | Unassigned |

Updated: JAN-13

D3020.02.03 Water Treatment: H. W. Boiler*

Chemical pot feeders serving hot water and glycol system.
Side stream filter.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D3030.05 Cooling Towers**

Dry cooler serving heat pump loop. Cancoil model DFC-204, 1012.1 kW cooling capacity.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 25 | JAN-13 |

Event: Replace Dry Cooler.(1)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2025 | \$135,000 | Unassigned |

Updated: JAN-13

D3030.07 Heat Pumps**

Horizontal and vertical cabinet heat pumps serving all areas.
Heat pumps are manufactured by Climate Master, HL and VL series. Capacities vary from 125 lps to 1888 lps.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 15 | JAN-13 |

Event: Replace 54 Heat Pumps.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2016 | \$243,000 | Unassigned |

Updated: JAN-13

D3040.01.01 Air Handling Units: Air Distribution**

Packaged indoor air handling units serving classrooms, common areas and Industrial Arts. Both units are complete with glycol heating coils, supply fan section, filter section and humidification (not used anymore).

MAU-1: Engineered Air LM-10, 416 kW heating capacity, 5900 lps supply air volume serving classrooms and Gymnasiums.

MAU-2: Engineered Air LM-16, 217 kW heating capacity, 3068 lps supply air volume serving common area.

Kitchen area is served by designated natural gas direct fired make-up air unit MAU-3 interlock with kitchen exhaust fans.

MAU-3: Engineered Air HE40, 117 kW heating capacity, 1699 lps supply air volume.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 30 | JAN-13 |

Event: Replace 3 Air Handling Units.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2030 | \$545,000 | Unassigned |

Updated: JAN-13

D3040.01.03 Air Cleaning Devices: Air Distribution*

Replaceable media filters serving air handling units and heat pumps.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D3040.01.04 Ducts: Air Distribution*

Air distribution system via ceiling space.

Galvanized steel, single duct, low velocity, constant volume system.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D3040.01.07 Air Outlets & Inlets: Air Distribution*

Square supply air diffusers, duct mounted supply air grilles complete with volume dampers, egg crate return air grilles, heavy duty Gymnasium grilles.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D3040.03.01 Hot Water Distribution Systems**

Steel and copper piping distribution system, with high and low temperature arrangements serving heat pump loop and heating loop. Glycol solution throughout.

Hot water is circulated via two base mounted single suction pumps: Armstrong 4030, 42 lps @ 150 kPa to perimeter heating units and injects heating water/glycol to heat pump loop.

Two base mounted single suction pumps: Armstrong 4030, 57 lps @ 300 kPa circulate hot water/glycol through heat pump loop.

Reverse return pipe arrangement.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 40 | JAN-13 |

Event: Replace Hot Water Distribution System. BOE: 6555 sq.m. GFA.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2040 | \$660,000 | Unassigned |

Updated: JAN-13

D3040.03.02 Chilled Water Distribution Systems**

200mm diameter cooling glycol loop serving dry cooler complete with in-line pump, diverting valve, by=pass valve, temperature and pressure sensors.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 40 | JAN-13 |

Event: Replace Cooling Piping Loop and Accessories.(200mm)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2040 | \$235,000 | Unassigned |

Updated: JAN-13

D3040.04.01 Fans: Exhaust**

Various types exhaust fans serving designated portions of the building.
 Roof mounted dome exhaust fans, ceiling mounted cabinet fans, self contained fume cabinet in Science Room, kitchen range hood fans in Home Economics.
 An outdoor Murphy dust collector.
 Common exhaust fans were grouped to serve the following areas:Paint Booth, Welding exhaust, Spot Welder Exhaust System, Dust collection, Kitchen Range, Washrooms, Change Roms, Wood shop and common exhaust system. Exhaust fans capacities vary from 94 lps to 2450 lps.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 30 | JAN-13 |

Event: Replace 17 Exhaust Fans

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2030 | \$43,000 | Unassigned |

Updated: JAN-13

D3040.04.03 Ducts: Exhaust*

Galvanized steel low velocity ductwork to common exhaust fans.
 Black steel medium velocity ductwork serving kitchen hood.
 Stainless steel exhaust ductwork serving fume hood exhaust fans.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D3040.04.05 Air Outlets and Inlets: Exhaust*

Egg crate.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D3050.03 Humidifiers**

Dri Steem maxi bank humidifers serving make up air units. 204 lbs/hr and 105 lbs/hr steam capacity.
 Humidifiers are disconnected and not required by maintenance personnel.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 25 | JAN-13 |

Event: Replace 2 Humidifiers

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2025 | \$20,000 | Unassigned |

Updated: JAN-13

D3050.05.02 Fan Coil Units**

Engineered Air CUH-9 hydronic force flow heaters serving vestibules.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 30 | JAN-13 |

Event: Replace 3 Force Flow Heaters

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2030 | \$14,000 | Unassigned |

Updated: JAN-13

D3060.02.05 Building Systems Controls (BMCS, EMCS)**

Delta direct digital control system in place complete with remote access.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 20 | JAN-13 |

Event: Replace BMS. BOE: 6555 sq.m. GFA.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020 | \$135,000 | Unassigned |

Updated: JAN-13

D4010 Sprinklers: Fire Protection*

Sprinkler system in place as per NFPA 13.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D4030.01 Fire Extinguisher, Cabinets and Accessories*

Hand held ABC fire extinguishers provided throughout.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

S5 ELECTRICAL**D5010.02 Secondary Electrical Transformers (Interior)****

One 225KVA 600V to 120/208V/3phase dry type transformer is installed in room 280.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 40 | JAN-13 |

Event: Replace Secondary Electrical Transformers (Interior) (one 600V/120/208V transformer)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2040 | \$14,504 | Unassigned |

Updated: JAN-13

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

The main electrical distribution is an 1600A, 347/600V 3 phase Federal Pioneer system, with a breaker section and CT, and a distribution section which has available breaker spaces. There are three breakers installed inside MDP, one 3P-600A is for Fox Run Building, one 3P-600A is for Common Area, and one 3P-400A is for Mother Teresa. All of these three buildings are metered separately.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 40 | JAN-13 |

Event: Replace one Main Electrical Switchboard (Main Distribution)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2040 | \$61,084 | Unassigned |

Updated: JAN-13

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

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 30 | JAN-13 |

Event: Replace 14 Electrical Branch Circuit Panelboards (12 panels plus 2 CDP)**Concern:**

14 Electrical Branch Circuit Panelboards (12 panels plus 2 CDP)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2030 | \$66,192 | Unassigned |

Updated: JAN-13

D5010.07.02 Motor Starters and Accessories**

There is a Square D Model 6 motor control centre with two sections located in the main mechanical room. This MCC supplies a variety of air handling units, circulation pumps and compressors.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 30 | JAN-13 |

Event: Replace Motor Starters and Accessories (2 section MCC)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2030 | \$12,977 | Unassigned |

Updated: JAN-13

D5020.01 Electrical Branch Wiring*

Branch circuit wiring for power and lighting systems is done with EMT and flexible metal conduit.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D5020.02.01 Lighting Accessories: Interior (Lighting Controls)*

Low voltage control are installed for the entire school through the Douglas low voltage lighting control panel at various locations.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D5020.02.02 Interior Fluorescent Fixtures**

T8 fluorescent lights were installed throughout the school in 1999 and T5 fluorescent lights were changed from metal halide inside gym in 2012

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 30 | JAN-13 |

Event: Replace Interior Florescent Fixtures (1024 fixtures)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2030 | \$402,432 | Unassigned |

Updated: JAN-13

D5020.02.03.02 Emergency Lighting Battery Packs**

Battery packs and exit/emergency battery pack combo are installed throughout the buildings.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 20 | JAN-13 |

Event: Replace Emergency Lighting Battery Packs (50 EM battery packs)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020 | \$57,850 | Unassigned |

Updated: JAN-13

D5020.02.03.03 Exit Signs*

Exit signs with LED lamps are located throughout the school.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D5020.03.01.03 Exterior Metal Halide Fixtures*

This school has wall packs installed at the exterior wall, and pole mounted lights at the front parking lot.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D5020.03.02 Lighting Accessories: Exterior (Lighting Controls)*

The exterior lighting is controlled by a photocell.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D5030.01 Detection and Fire Alarm**

The fire alarm consists of an addressable Edwards EST2 main FACP located in main entrance of Fox Run, and two annunciators with one annunciator serving the Mother Teresa. The signaling devices consist of combination of bells and strobe lights.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 25 | JAN-13 |

Event: Replace Detection and Fire Alarm (\$32/square meter)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2025 | \$209,760 | Unassigned |

Updated: JAN-13

D5030.02.02 Intrusion Detection**

The intrusion system consists of door contacts and motion sensors located throughout the school.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 25 | JAN-13 |

Event: Replace Intrusion Detection (\$20/saquare meter)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2025 | \$131,100 | Unassigned |

Updated: JAN-13

D5030.02.03 Security Access**

The security access system consists of card reader located at the exterior doors of the school.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 25 | JAN-13 |

Event: Replace Security Access (\$6110/each)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2025 | \$6,110 | Unassigned |

Updated: JAN-13

D5030.03 Clock and Program Systems*

The clocks are battery operated.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D5030.04.01 Telephone Systems*

Analog telephone service is available and is fed from Mother Teresa. Telephone service for Fox Run is through VOIP.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D5030.04.04 Data Systems*

The school has the Alberta Supernet through fiber optic cables.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D5030.04.05 Local Area Network Systems*

The school has three server rooms and WIFI throughout the school.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D5030.05 Public Address and Music Systems**

The public address system is integrated with the telephone system and with brand name Rauland Telecenter.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 20 | JAN-13 |

Event: Replace Public Address and Music Systems (\$10/square meter)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2020 | \$65,550 | Unassigned |

Updated: JAN-13

D5030.06 Television Systems*

Television service is available and is fed from Mother Teresa.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 0 | JAN-13 |

D5090.01 Uninterruptible Power Supply Systems**

There are three APC1000 UPS battery back up for the Data System.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good | 2000 | 30 | JAN-13 |

Event: Replace three Uninterruptible Power Supply Systems (\$1200/each)

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2030 | \$3,600 | Unassigned |

Updated: JAN-13

S6 EQUIPMENT, FURNISHINGS AND SPECIAL CONSTRUCTION**E2010.02 Fixed Casework****

Upper and lower fixed cabinets are located in classrooms and administration offices.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 35 | JAN-13 |

Event: Replace millwork. B.O.E. 205m

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2035 | \$178,000 | Unassigned |

Updated: JAN-13

E2010.03.01 Blinds**

All windows have horizontal metal Venetian blinds.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 30 | JAN-13 |

Event: Replace Blinds. B.O.E. 137 sq.m.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2030 | \$16,000 | Unassigned |

Updated: JAN-13

E2010.05 Fixed Multiple Seating**

Bleacher seating in music room and gym.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 35 | JAN-13 |

**Event: Replace bleacher seating in music room and gym.
B.O.E. 470 seats**

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2035 | \$153,000 | Unassigned |

Updated: JAN-13

S8 SPECIAL ASSESSMENT**K4010.01 Barrier Free Route: Parking to Entrance***

Barrier free access from parking to entrance.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

K4010.02 Barrier Free Entrances*

Power assist door operator at main entrance.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

K4010.03 Barrier Free Interior Circulation*

Barrier free circulation at one level and a handicapped lift serves the upper floor.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

K4010.04 Barrier Free Washrooms*

Barrier free washrooms are provided.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

K4030.01 Asbestos*

No asbestos noted or reported.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

K4030.04 Mould*

No mould noted or reported.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

K4030.09 Other Hazardous Materials*

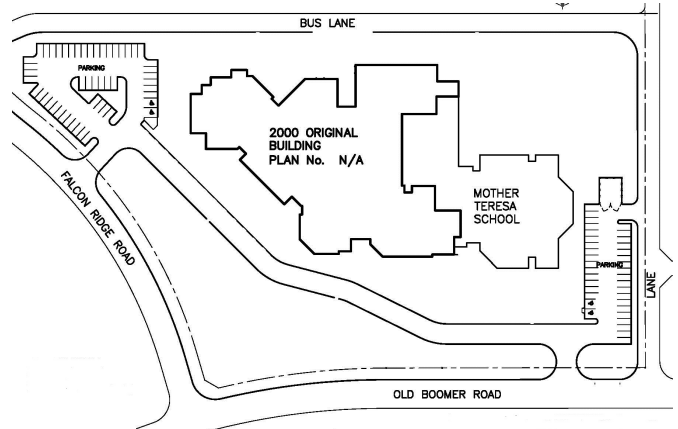
No hazardous materials noted or reported.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2000 | 0 | JAN-13 |

K5010.01 Site Documentation*

Prime Consultant: Bacz Engineering Ltd.
 Year of Evaluation: 2012
 Building Area Evaluated: 6555 m2

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2012 | 0 | JAN-13 |

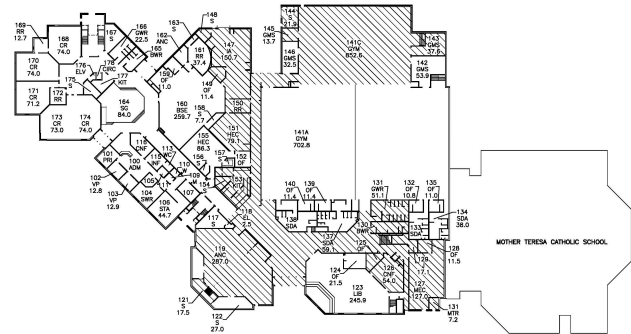


Site Plan

K5010.02 Building Documentation*

The School is a shared campus building with Mother Teresa School. It is two storey masonry construction built in 2000.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2012 | 0 | JAN-13 |



Main Floor Plan