

# **RECAPP Facility Evaluation Report**

## **Calgary School District #19**



### **Colonel Walker Community School**

B2587A

Calgary

| <b>Facility Details</b>    |                                 |
|----------------------------|---------------------------------|
| <b>Building Name:</b>      | Colonel Walker Community School |
| <b>Address:</b>            | 1921 - 9 Avenue S. E.           |
| <b>Location:</b>           | Calgary                         |
| <b>Building Id:</b>        | B2587A                          |
| <b>Gross Area (sq. m):</b> | 6,008.90                        |
| <b>Replacement Cost:</b>   | \$17,045,005                    |
| <b>Construction Year:</b>  | 1912                            |

| <b>Evaluation Details</b>  |                        |
|----------------------------|------------------------|
| <b>Evaluation Company:</b> | Golder Associates Ltd. |
| <b>Evaluation Date:</b>    | May 27 2009            |
| <b>Evaluator Name:</b>     | Peter Tattersall       |

|   |                    |
|---|--------------------|
| <b>Total Maintenance Events Next 5 years:</b> | <b>\$5,725,560</b> |
| <b>5 year Facility Condition Index (FCI):</b> | <b>33.59%</b>      |

**General Summary:**

The original Colonel Walker Community School building houses two grades K-6 elementary schools: the Colonel Walker Community School occupies the eastern part of the building complex and had 120 students registered in 2008-2009; and, the Piitoyas Family School occupies the original part of the building with 96 students in 2008-2009. For the purpose of this report, the front of the building is considered to be facing north. The original 3130 m2, 3 storey (plus penthouse) sandstone building was completed in 1912. A 1804 m2 one-storey addition was constructed to the east and south of the original building in 1952. A 986 m2 one-storey addition was constructed to the east of the original building in 1965. A 89 m2 one-storey addition was constructed between the original building and the 1965 addition in 1982. One relocatable classroom with independent heating and ventilation was added in about 2007. The total gross floor area of the combined school is about 6009 m2 and has a total design capacity of about 515 students.

**Structural Summary:**

The foundations consists of cast-in-place concrete with concrete slab on grade. The superstructure is a combination of load bearing masonry walls and wood framing supporting wood decking. Apparent movement was observed in the load-bearing concrete block walls near the roofline in the 1952 Addition. Further investigation and repairs as needed are recommended. The building structure is generally in acceptable overall condition.

**Envelope Summary:**

The exterior of the 1912 school consists of sandstone; the exterior of the 1952 addition consists of painted concrete block; and, the exterior of the 1965 and 1982 additions consist of brick veneer. In general the sandstone and the painted concrete blocks appeared to be in marginal condition. Repairs to the cladding is recommended within the evaluation period after a study has been conducted on the integrity of the structural block of the 1952 addition.

There are 13 identifiable roof sections which are protected by SBS modified bitumen, conventional asphalt and gravel Built-Up Roof (BUR) membranes and metal roofing. The SBS sections were last replaced in 1998 and 2007. The BUR sections were last replaced in 1966 and will require replacing within the 5-year tactical planning window. The metal roofs appear to be in acceptable condition.

Wood exterior doors were observed around the perimeter of the building. Damaged and deteriorated exterior doors were identified and replacements are recommended within the 5-year evaluation period.

The windows in the original 1912 building, and a majority of the windows in the 1952 addition are original wooden framed single glazed window units with operable hoppers that were showing signs of age and deterioration. Replacement and upgrades to more efficient windows is recommended. The windows on the west elevation of the 1952 addition were replaced in 1992 with aluminum framed sealed insulated glazing units with fixed and operable awning windows. The window openings at the basement level of the 1952 addition are filled with glass block. Evidence of air and water infiltration around the wood framed windows was identified in several locations.

The building envelope appeared to be in acceptable overall condition.

**Interior Summary:**

The interior finishes consist of the following components:

Flooring: 8" x 8" original vinyl tile in main corridors of the 1952 Addition. 12" x 12" vinyl tile in the 1952 Addition classrooms and throughout the 1982 Addition. Sheet vinyl throughout the 1912 classrooms, corridors and offices and the Library section of the 1965 Addition. Original Terrazzo in the 1912 main floor washrooms. Ceramic and quarry tile in the 1912 second floor washrooms and washrooms/shower rooms in the 1952 Addition. Original hardwood in the 1912 main floor lunch room and penthouse corridor and classrooms, and in the 1965 gymnasium and stage area.

Walls: Predominately painted plaster with wood wainscot or wood panels, and painted concrete block. Repair and refinishing of the natural woodwork and plaster walls throughout the school is recommended.

Ceilings: Painted plaster on lathe; and suspended concealed grid or T-bar acoustic tile systems.

Floor finishes include, painted concrete (service rooms), 9" x 9" VAT flooring ( main corridor 1952 addition), 12" x 12" vinyl tile in the 1952 addition and in the 1982 addition, sheet vinyl (classrooms and 1912 corridor ), hardwood flooring (gymnasium and top level of the 1912 building) , carpeting (library, offices), terrazzo tile (washrooms 1912 building), ceramic tile (showers 1952 addition) and quarry tile (main washrooms in the lower level of the 1952 addition). Carpet replacement, partial sheet vinyl and VCT tile flooring replacement, and repainting of the concrete floors is recommended.

Replacement of the flooring and ceiling systems throughout most of the 1912 main, second and third floors, the 1965 Library and the 1982 Addition was completed in 2005 due to water damage reportedly sustained from a frozen and broken plumbing line.

Interior double swing fire doors are not rated and held open by door stops or retaining hooks. Replacement with rated assemblies accessorized with automated door hold open devices is required.

The interior finishes are in acceptable overall condition.

#### **Mechanical Summary:**

Heating for the building is supplied two low pressure steam, natural gas-fired fire tube boilers, installed in 2006. Both are manufactured by RITE ENGINEERING & MANUFACTURING CORPORATION, rated at 3.5 MBH. Upgrades include the total mechanical heating system components, including the condensate tank, condensate pumps, Blowdown tank, Boiler Feed tank, Boiler Feed pumps, water treatment, water softener, venting and chimney. The steam is provided to perimeter radiators, unit ventilators, and heat exchangers

Domestic water is supplied to the building via the municipal supply system and the waste water is discharged to the municipal sewer system. Domestic hot water is provided by two John Wood Pro Series domestic hot water heaters. One tank was installed in 1998 and the other in 2001. The heaters are rated at 38,000 BTU/hr. and 150 L.

Ventilation for the original (1912) section of the school is provided by a central system consisting of a heating coil, supply air fan, filter section, and mixing room. The ventilation system is original to the section and requires replacement.

Ventilation for the 1952 and 1965 sections are provided by unit ventilators ("Univents"). All of the Univents are original and are in marginal to poor condition.

Fire protection is provided by a standpipe and hose system in combination with wall mounted fire extinguishers located throughout the building.

The mechanical systems are in acceptable overall condition.

#### **Electrical Summary:**

The electrical supply is fed underground from an outdoor pad mounted transformer to the main distribution switchboard manufactured by Federal Pioneer and rated at 800A, 120/208 V, 3 phase, 4 wires. The switchboard was installed in 1952 but upgraded from single phase to 3-phase in about 1970. The main distribution panel provides power to other sub-panels that serve the various sections of the building.

The lighting in the building consists mainly of fluorescent T-12 fixtures with eggcrate lenses. Upgrading to energy-saving T8 fixtures during next lifecycle replacement event is recommended.

The exterior lighting is provided by surface mounted HID wall-pack fixtures located around the perimeter of the building.

The fire alarm system is a Simplex 4002, 21-zone system consisting of pull stations, alarm bells, smoke detectors, and

heat detectors. This system was installed in 1993 and integrated with the Silent Knight intrusion detection and alarms.

The electrical system is in acceptable overall condition.

| 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\* - 1912 Section

Structural drawings were not available for review during the site visit. Foundations in the original 1912 building likely consists of cast in place reinforced concrete. Four exterior exposed reinforced concrete lateral braces were added at the rear (south) of the original building sometime following original construction but the year of construction was not confirmed at the time of writing this report.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1912             | 100                | FEB-10         |

#### **Event:** Repair Lateral Braces

##### **Concern:**

The exposed concrete lateral braces are spalling.

##### **Recommendation:**

Repair the concrete and provide flashing to prevent further deterioration from moisture ingress and cyclical freeze/thaw action.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-------------|-------------|-------------|-----------------|
| Repair      | 2010        | \$6,000     | Low             |

**Updated:** FEB-10

### A1010 Standard Foundations\* - 1952, 1965 and 1982 Additions

Likely reinforced cast in place concrete.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0                | 100                | FEB-10         |

### A1030 Slab on Grade\*

The main floor of the Original (1912) building is concrete slab on grade.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1912             | 100                | FEB-10         |

### A2020 Basement Walls (& Crawl Space)\*

Perimeter walls in the service tunnels in the 1952, 1965 and 1982 Sections, and the main floor of the Original (1912) building are cast in place reinforced concrete.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0                | 100                | FEB-10         |

**B1010.01 Floor Structural Frame (Building Frame)\* - 1912 Section**

The exterior walls of the 1912 building has load-bearing sandstone (also see B2010.01.03). Previous repairs to stabilize movement detected at upper floors at the rear (south) of the building were observed. It was reported that the repairs are satisfactory with no further evidence of movement in the facade detected or reported. No further action warranted at this time.

The original coal storage room at the rear of the 1912 building extends beyond the footprint of the building and has a structural reinforced concrete slab ceiling (refer to B1010.03 for further comments) supported on cast in place concrete foundations.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1912                    | 100                       | FEB-10                |



South facade. Arrow points to stabilizer anchors at penthouse floor.

**B1010.01 Floor Structural Frame (Building Frame)\* - All 1952, 1965 and 1982 Additions**

Suspended floors in all Addition sections consist of conventional stud (wood) framing.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 0                       | 100                       | FEB-10                |

**B1010.02 Structural Interior Walls Supporting Floors (or Roof)\* - 1912 Section**

Load-bearing wood frame interior walls support floors and the roof of the 1912 Section.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1912                    | 100                       | FEB-10                |

**B1010.02 Structural Interior Walls Supporting Floors (or Roof)\* - 1952, 1965 & 1982 Additions**

Load bearing concrete block throughout the 1952, 1965 and 1982 Additions.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 0                       | 100                       | FEB-10                |

**B1010.03 Floor Decks, Slabs, and Toppings\* - 1912 Incinerator Room**

The former incinerator room at the rear of the 1912 building extends beyond the footprint of the building and has a structural reinforced concrete slab ceiling. The room is currently used for storage and the incinerator and equipment has been removed from this facility.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 3 - Marginal         | 1912                    | 100                       | FEB-10                |

**Event: Repair Suspended Concrete Slab Ceiling**

**Concern:**

The soffit of the structural suspended concrete ceiling is spalled with exposed and corroded steel reinforcing, efflorescence and water staining. It is not known if a waterproofing membrane covers the slab and it is concealed with asphalt paving.

**Recommendation:**

Expose the concrete surface, repair the concrete slab and apply an appropriate waterproofing membrane prior to restoring the asphalt pavement.

|                    |                    |                    |                        |
|--------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b> | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Repair             | 2010               | \$12,500           | Low                    |

**Updated:** FEB-10

**B1010.03 Floor Decks, Slabs, and Toppings\* - All Sections**

Floor decks consist of wood plank sub-flooring.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1912                    | 100                       | FEB-10                |

**B1010.07 Exterior Stairs\* - 1912 Fire Escape**

There is a metal fire exit stair located on the northeast corner of the 1912 building.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1912                    | 40                        | FEB-10                |

**B1010.07 Exterior Stairs\* - 1912 Section**

The exterior stair at the main entrance to the 1912 building is comprised of cast-in-place concrete with sandstone side walls. The enclosed exterior stairs to the boiler room at the rear of the 1912 Section is comprised of cast in place concrete with concrete sidewalls.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1912                    | 40                        | FEB-10                |

**B1010.09 Floor Construction Fireproofing\***

Concealed.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1912             | 50                 | FEB-10         |

**B1010.10 Floor Construction Firestopping\***

Appropriate firestop caulking was observed at penetrations through suspended floors (i.,e heating hot water pipe penetrations).

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0                | 50                 | FEB-10         |

**B1020.01 Roof Structural Frame\***

Structural drawings were not available for review during the site visit. Building roof structures likely consist of wood framing.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0                | 100                | FEB-10         |

**B1020.06 Roof Construction Fireproofing\***

Concealed.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0                | 50                 | FEB-10         |



## S2 ENVELOPE

### B2010.01.02.01 Brick Masonry: Ext. Wall Skin\* - 1965 and 1982 Additions

The 1965 and the 1982 additions are clad with brick veneer.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0                | 75                 | FEB-10         |

### B2010.01.02.02 Concrete Block: Ext. Wall Skin\* - 1952 Addition

The 1952 Addition is clad primarily with painted concrete block. The exposed foundations have trowelled-on cement parging on reinforced concrete.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal  | 1952             | 75                 | FEB-10         |

#### Event: Repair Apparent Movement In Concreet Block Walls

**Concern:**

Step cracking in mortar joints was observed with some evidence of movement in the portions above windows near the roof line. Evidence of past repairs that remain intact was also observed.

**Recommendation:**

Repair movement within the concrete block wall system as determined by the outcome of the study. The cost estimate provided herein is a contingency allowance only and requires the results of the study to better define repair costs.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-------------|-------------|-------------|-----------------|
| Repair      | 2011        | \$250,000   | Low             |

**Updated:** FEB-10

#### Event: Study Movement in 1952 Addition Exterior Concrete Block Walls

**Concern:**

Step cracking in mortar joints and evidence of movement in the concrete block walls of the 1952 Addition were observed. Movement appears to be primarily in the upper wall sections near the roof line but also above lintels on some windows.

**Recommendation:**

Investigate movement issues in order to determine the most appropriate repair option.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-------------|-------------|-------------|-----------------|
| Study       | 2010        | \$3,500     | Low             |

**Updated:** FEB-10

**B2010.01.03 Stone Assemblies: Exterior Wall Skin\***

The Original 1912 building is clad with original sandstone.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal  | 1912             | 75                 | FEB-10         |

**Event: Repair sandstone on the 1912 building.**

**Concern:**

Spalling, eroded and weathered sandstone was observed around the four elevations of the 1912 building. Deficient mortar joints were also identified between the sandstone units.

**Recommendation:**

Repair/replace damaged sandstone units where necessary and repoint.

Repair cost estimate is based on costing provided in an earlier report from 2001 with allowances for inflation (3% per year).

**Consequences of Deferral:**

Water infiltration and further deterioration.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-------------|-------------|-------------|-----------------|
| Repair      | 2010        | \$356,200   | Low             |

**Updated:** FEB-10

**B2010.01.06.03 Metal Siding\*\***

Pre-finished corrugated metal siding is located above the 1992 windows on the west elevation of the 1952 addition.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1992             | 40                 | FEB-10         |

**Event: Replace Metal Siding**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2032        | \$1,200     | Unassigned      |

**Updated:** FEB-10

**B2010.01.06.04 Wood Siding\*\***

Painted wood siding clads the enclosure at the exterior boiler room stairs on at the rear (south) of the Original building.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal  | 1952             | 40                 | FEB-10         |

**Event: Replace wood siding.**

**Concern:**

Paint on the wood siding on the upper half of the stair enclosure is weathered and peeling. Deteriorated and damaged wood boards were identified.

**Recommendation:**

Replace damaged boards and re-paint siding.

| <u>Type</u>         | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|---------------------|-------------|-------------|-----------------|
| Failure Replacement | 2011        | \$3,500     | Low             |

**Updated:** FEB-10

**B2010.01.08 Cement Plaster (Stucco): Ext. Wall\***

The exposed foundation walls of the 1952 addition have been parged with cement and then been painted. The front (north) facade of the 1982 addition has painted cement plaster above and below the second floor windows at the Library.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1912             | 75                 | FEB-10         |

**B2010.01.09 Expansion Control: Exterior Wall Skin\***

Expansion joints between various building sections appear to have been caulked (see B2010.01.11)

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal  | 0                | 75                 | FEB-10         |

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

Joint sealant is located at the interface between the different cladding materials, including around doors and windows on all building sections.

The sealant generally appears to be old and likely date to the 1985 renovations and addition.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 3 - Marginal         | 1985                    | 20                        | FEB-10                |

**Event:** Replace exterior sealant.

**Concern:**

The exterior sealant was cracked and failing both adhesively and cohesively.

**Recommendation:**

Replace exterior sealant.

|                     |                    |                    |                        |
|---------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>  | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Failure Replacement | 2010               | \$145,200          | Low                    |

**Updated:** FEB-10

**B2010.01.11 Joint Sealers (caulking): Ext. Wall\*\* - 1992 Windows**

Windows in the 1952 Addition were reportedly replaced in 1992.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1992                    | 20                        | FEB-10                |

**Event:** Replace joint sealers around 1992 windows.

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$6,000            | Unassigned             |

**Updated:** FEB-10

**B2010.01.13 Paints (& Stains): Exterior Wall\*\***

Paint on cement plaster components (refer to B2010.01.08) was likely last performed when widows of the 1952 Addition were replaced in 1992.

Re-painting likely requires use of moveable scaffolding and has been included in the cost estimation.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1992                    | 15                        | FEB-10                |

**Event:** Painted Exterior Cement Plaster Components

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$12,500           | Unassigned             |

**Updated:** FEB-10

**B2010.01.13 Paints (& Stains): Exterior Wall\*\* - 1912 Section**

Wood siding on the enclosure above the rear (south) exterior stairs to the boiler room is painted. Ornamental soffits near the roofline on all elevations of the 1912 section are also painted. Year of last exterior painting is not known and presumed to be at the time of the 1982 Addition and renovations.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 3 - Marginal         | 1982                    | 15                        | FEB-10                |

**Event: Paint exterior stair enclosure.**

**Concern:**

Paint on the exterior stair enclosure at the rear of the 1912 Section is severely weather, peeling and deteriorated.

**Recommendation:**

Paint new wood siding when failure replacement of the siding is completed (see B2010.01.06.04).

Paint ornamental metal soffit following repairs (see B2010.09). Painting by use of bosun's chair is included in cost estimates.

|                     |                    |                    |                        |
|---------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>  | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Failure Replacement | 2010               | \$9,500            | Low                    |

**Updated:** FEB-10

**B2010.01.13 Paints (& Stains): Exterior Wall\*\* - 1952 Addition**

Cement block and wood window frames above exposed foundations on the 1952 Addition are painted.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 3 - Marginal         | 1952                    | 15                        | FEB-10                |

**Event: Paint 1952 Section Window Frames and Block Walls**

**Concern:**

Paint on the cement block portion above the exposed foundations of the 1952 Addition, including window frames and in-fill panels, is weathered and peeling.

**Recommendation:**

Paint wall sections and window frames / in-fill panels above the foundations of the 1952 Addition (approximately 300 m2).

|                     |                    |                    |                        |
|---------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>  | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Failure Replacement | 2010               | \$9,500            | Low                    |

**Updated:** FEB-10

**B2010.02.03 Masonry Units: Ext. Wall Const.\* - 1965 and 1982 Additions**

Exterior walls of the 1965 and 1982 Additions contain concealed concrete block back-up walls. No evidence of movement or distressed was observed on visible interior and exterior finishes.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 0                       | 100                       | FEB-10                |

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

Concealed.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 0                       | 100                       | FEB-10                |

**B2010.06 Exterior Louvers, Grilles, and Screens\***

Metal security screens have been installed on all at grade windows and some of the second floor windows on the south elevation of the 1912 building. Screens were also identified on the front doors to the 1912 building. Original painted and un-finished louvers and grills at combustion air intake and walls vents.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 0                       | 50                        | FEB-10                |

**B2010.09 Exterior Soffits\***

Painted ornamental metal soffits were observed around the 1912 building.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 3 - Marginal         | 1912                    | 50                        | FEB-10                |

**Event: Repair ornamental metal soffits.**

**Concern:**

Sections of damaged and deteriorated metal soffits were identified when inspecting the ornamental metal soffits. The paint finish protecting the metal work was peeling.

**Recommendation:**

Repair damaged ornamental metal work. Painting is not included herein but is included in B2010.01.13 - 1912 Section.

|                    |                    |                    |                        |
|--------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b> | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Repair             | 2010               | \$65,000           | Low                    |

**Updated:** FEB-10

**B2020.01.01.02 Aluminum Windows (Glass & Frame)\*\* - 1952 Section (West Elevation)**

Windows on the west elevation of the 1952 Addition are aluminum frame double glazed units with awning type operable sections inserted into the original wood frames.

Upper panels of the original 2 panel windows on the west elevation have been in-filled with prefinished corrugated metal siding (see B2010.01.06.03).

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1992                    | 40                        | FEB-10                |

**Event: Replace Aluminum Windows.**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2032               | \$13,500           | Unassigned             |

**Updated:** FEB-10

**B2020.01.01.05 Wood Windows (Glass & Frame)\*\* - 1912 Section**

Exterior windows in the 1912 section consist of original single-pane wood frame windows with wood frame storms at the exterior surface. Each window section contains 5 fixed (non-operable) sections with a hopper type operable unit at the top portion of each section.

Windows at grade level on the west elevation have been replaced with painted hardboard.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 3 - Marginal         | 1912                    | 40                        | FEB-10                |

**Event: Repair Storm Window Frames**

**Concern:**

Exterior exposed surfaces exhibit weathering with peeling paint, localized rot and weathered/cracked wood frames on storms.

**Recommendation:**

Repair damaged wood frames to prolong serviceability (approx. 70 pieces at \$250/window).

|                    |                    |                    |                        |
|--------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b> | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Repair             | 2010               | \$17,500           | Low                    |

**Updated:** FEB-10

**Event: Replace Wood Frame Windows and Storms**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$224,500          | Unassigned             |

**Updated:** FEB-10

**B2020.01.01.05 Wood Windows (Glass & Frame)\*\* - 1952 Addition (East Elevation)**

Wood frames single pane windows with exterior mounted wood framed storms and bug screens. The upper panel of the original 3 panel windows on the east elevation has been in-filled with painted exterior grade hardboard or plywood (see B2010.01.13 Paints & Stains): Ext. Wall - 1952 Addition).

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 3 - Marginal         | 1952                    | 35                        | FEB-10                |

**Event: Lifecycle Replacement**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2017               | \$25,000           | Unassigned             |

**Updated:** FEB-10

**B2020.01.01.05 Wood Windows (Glass & Frame)\*\* - 1982 Addition**

The window units of the 1982 Addition contain sealed insulated glazing units (IGUs) in wood frames.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1982                    | 35                        | FEB-10                |

**Event: Replace Wood Framed Double Glazed Windows**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2017               | \$25,000           | Unassigned             |

**Updated:** FEB-10

**B2020.04 Other Exterior Windows\* - Glass Block**

Exterior windows in the student washrooms and change/locker rooms in the 1912 Building and 1952 Addition are glass block.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1952                    | 0                         | FEB-10                |

**B2030.01.02 Steel-Framed Storefronts: Doors\*\* - 1982 Addition**

The main (north) entrance doors to the 1982 Addition are solid wood double doors in painted steel frames with single pane Georgian Wire security glass inserts and side lights.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1982                    | 30                        | FEB-10                |

**Event: Replace Steel Frame Storefront Entrance Doors**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$3,500            | Unassigned             |

**Updated:** FEB-10



**B2030.01.10 Wood Entrance Door\*\* - 1912 Section**

The main entrance of the north side, and "boys" entrance doors on the south side of the Original Building consist of double painted solid wood doors, with and without vision glass inserts, set in wood frames. Hardware includes toggle type exterior handsets and interior panic bars and hydraulic door closers. Vision panels have exterior painted metal screens for security.

Window panels above the entrance doors are non-operable single pane wood (see B2020.01.05 Wood Windows (glass & Frames): - 1952 Section).

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 3 - Marginal         | 1912                    | 30                        | FEB-10                |

**Event: Replace Wood Entrance Doors**

**Concern:**

Wood doors exhibit varying degrees of exposure damage with cracked and delaminating surfaces and cracked or damaged wood framing.

**Recommendation:**

Replace wood entrance doors on the 1912 Section.

|                     |                    |                    |                        |
|---------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>  | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Failure Replacement | 2012               | \$13,300           | Low                    |

**Updated:** FEB-10

**B2030.01.10 Wood Entrance Door\*\* - 1952 Addition**

Entrance doors in the 1952 Addition consist of solid wood double doors, without vision lazing, set in wood frames. includes toggle type exterior handsets and interior panic bars and hydraulic door closers.

Past windows above the 1952 entrance doors have been filled in by prefinished corrugated metal siding.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 3 - Marginal         | 1952                    | 30                        | FEB-10                |

**Event: Replace Wood Framed Entrance Doors**

**Concern:**

Wood doors exhibit varying degrees of exposure damage with cracked and delaminating surfaces and cracked or damaged wood framing.

**Recommendation:**

Replace wood framed entrance doors.

|                     |                    |                    |                        |
|---------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>  | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Failure Replacement | 2012               | \$22,200           | Low                    |

**Updated:** FEB-10

**B2030.02 Exterior Utility Doors\*\* - 1912 Section**

Exterior fire doors from the third floor are solid wood in wood frames. Doors have single pane Georgian Wire security vision glazing. Hardware includes interior panic bars and hydraulic door closers. The utility door from the boiler room exit enclosure on the south side has a single solid wood door in wood framing. Hardware includes exterior aluminum pull handle and interior panic bar and chain door closer.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1912                    | 40                        | FEB-10                |

**Event: Replace Exterior Utility Doors**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$12,500           | Unassigned             |

**Updated:** FEB-10

**B2030.02 Exterior Utility Doors\*\* - 1965 Section**

Fire exit doors from the 1965 Gymnasium are solid wood (without vision glazing) in wood framing. Hardware includes interior panic bar and hydraulic door closer.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1965                    | 40                        | FEB-10                |

**Event: Replace Exterior Utility Door**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$2,500            | Unassigned             |

**Updated:** FEB-10

**B3010.01 Deck Vapor Retarder and Insulation\***

Concealed.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 0                       | 25                        | FEB-10                |

**B3010.04.01 Built-up Bituminous Roofing (Asphalt & Gravel)\*\* - 1912 Section**

Conventional asphalt and gravel built-up bituminous roofing (BUR) on the upper most roof above the centre core and the third floor roof on the east wing of the Original Roof area identification and roof area (approximately 571 m2) are based on areas (m2) provided by CBE personnel.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 2 - Poor             | 1966                    | 25                        | FEB-10                |

**Event: Replace BUR on Roof Areas D and E**

**Concern:**

BUR roofing on roof areas D and E, as identified by CBE personnel, is aged and weathered with numerous blisters and exposed, deteriorated felts. Membrane flashing at perimeter parapets exhibit cracking and distress.

**Recommendation:**

Replace BUR roofing. Roofing areas (m2) are based on areas provided by CBE personnel.

|                     |                    |                    |                        |
|---------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>  | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Failure Replacement | 2010               | \$91,200           | Medium                 |

**Updated:** FEB-10

**B3010.04.04 Modified Bituminous Membrane Roofing (SBS)\*\* - 1912 Section**

The west wing roof of the 1912 Building (roof area F) contains a 2-ply modified bituminous membrane assembly with granular surfaced capsheet and flashing. Roof area (approximately 238 m2) is based on areas (m2) provided by CBE personnel

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 5 - Good             | 2007                    | 25                        | FEB-10                |

**Event: Replace SBS Roofing on Roof Area F**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2032               | \$49,100           | Unassigned             |

**Updated:** FEB-10

**B3010.04.04 Modified Bituminous Membrane Roofing (SBS)\*\* - 1952, 1965 and 1982 Additions**

Roofing on the 1952, 1965 and 1982 Additions were reportedly replaced in 1998 using 2-ply modified bituminous membrane systems with granular surfaced capsheet and flashing. Total roof area (approximately 1665 m2) is based on areas (m2) provided by CBE personnel.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1998                    | 25                        | FEB-10                |

**Event: Replace SBS Roofing on 1952, 1965 and 1982 Additions**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2023               | \$343,400          | Unassigned             |

**Updated:** FEB-10

**B3010.07 Sheet Metal Roofing\*\***

The boys entrance and exterior boiler room stairs enclosures on the south side of the 1912 building have sheet metal roofing. Based on the theoretical design life of 40 years for sheet metal roofing, and on the observed condition, these roofs likely date to the 1952 or 1965 additions. Total roof area (approximately 27 m2) is based on roof areas (m2) provided by CBE personnel.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1965                    | 40                        | FEB-10                |

**Event: Replace Sheet Metal Roofing**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$7,300            | Unassigned             |

**Updated:** FEB-10

**B3010.08.02 Metal Gutters and Downspouts\*\***

Prefinished gutters and downspouts were observed at roof section E. The downspouts direct roof water from roof section E to roof sections F & D. Painted metal gutters, roof section F & D, were also incorporated as part of the ornamental metal work at the 1912 building's soffit. The gutters drain via piping through the parapet wall to the roof drains on roof sections F & D.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 3 - Marginal         | 1912                    | 30                        | FEB-10                |

**Event:** Replace the gutters and downspouts.

**Concern:**

The gutters were filled with gravel and appeared to be damaged and bent with some corrosion and perforation.

**Recommendation:**

Replace the gutters in conjunction with the roof replacement.

**Consequences of Deferral:**

Uncontrolled water drainage.

|                     |                    |                    |                        |
|---------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>  | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Failure Replacement | 2010               | \$2,500            | Low                    |

**Updated:** FEB-10

**B3020.01 Skylights\*\***

There are nine domed, opaque plexiglas skylights over the library.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1982                    | 25                        | FEB-10                |

**Event:** Replace Skylights

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$12,400           | Unassigned             |

**Updated:** FEB-10

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

There is one metal roof hatch that provides access to the roof. The roof hatch is located in a custodial closet in the 1952 addition. The 1965 and 1982 roof areas can be accessed from this point by external ladders mounted at parapets.

Roof access to the 1912 roof areas is provide by utility doors from the third floor to roof areas D and F, and an external ladder from roof areas D to E.

Other openings include roof vents, soil vents and rooftop mechanical curbs.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1912                    | 25                        | FEB-10                |

### S3 INTERIOR

#### C1010.01.01 Cast-in-place Concrete: Partitions\*

Painted cast in place concrete partitions between some areas on the main floor of the Original Building.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1912             | 100                | FEB-10         |

#### C1010.01.03 Unit Masonry Assemblies: Partitions\*

Painted unit masonry partitions between some areas on the main floor of the Original Building.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1912             | 100                | FEB-10         |

#### C1010.01.07 Framed Partitions (Stud)\*

Predominantly painted plaster on metal lathe and stud frame interior partitions throughout all sections.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0                | 100                | FEB-10         |

#### C1010.05 Interior Windows\*

Glass block side lights at interior fire doors at stairways in the 1952 Addition.  
 Glass block at upper portions of interior partitions between hallway and classrooms in the 1952 Addition.  
 Interior single pane glazing in painted steel frames at the administration office in the 1982 Addition.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0                | 80                 | FEB-10         |

#### C1010.06 Interior Glazed Partitions and Storefronts\*

There is a metal framed glass partition wall between the office area and the main corridor in the 1982 Addition.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1982             | 80                 | FEB-10         |

**C1010.07 Interior Partition Firestopping\***

Fire retardant sealant and fire dampers, where visible.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal  | 0                | 50                 | FEB-10         |

**Event: Provide Firestopping Between 1912 and 1952 Sections**

**Concern:**

Fire stops are missing at mechanical piping / conduit passage in the 1952 lower level storage room from the 1912 Section.

**Recommendation:**

Provide appropriate ULC-approved fire stops and fire dampers.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-------------|-------------|-------------|-----------------|
| Repair      | 2010        | \$4,500     | Low             |

**Updated:** FEB-10

**C1020.01 Interior Swinging Doors (& Hardware)\***

Interior swinging doors are predominately original painted/varethaned panel wood doors or wood slab doors with original door hardware. Newer steel doors were installed in the first floor corridor.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal  | 1912             | 40                 | FEB-10         |

**Event: Repair interior swing doors and replace hardware**

**Concern:**

The paint and varethane finishes on the interior swing doors were deteriorated. The interior door hardware is aged, deteriorated and require increased maintenance.

**Recommendation:**

Refinish interior swing doors (96) and replace defective door hardware. Provide kick plates at base of interior, both sides, to prevent further damage. Cost estimate does not include BFA upgrades (see K4010.04 Barrie Free Interior Circulation).

**Consequences of Deferral:**

Diminished aesthetics and poor operation.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-------------|-------------|-------------|-----------------|
| Repair      | 2011        | \$55,400    | Low             |

**Updated:** FEB-10

**C1020.02 Interior Entrance Doors\***

Interior entrance doors are located at most of the main entrances doors and are typically similar in construction to the adjoining exterior door assembly.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 3 - Marginal         | 0                       | 0                         | FEB-10                |

**Event:** **Repair interior entrance doors.**

**Concern:**

The finish on the interior entrance doors are deteriorated.

**Recommendation:**

Refinish interior entrance doors and provide kick plates at base of doors, both sides, to prevent further damage.

**Consequences of Deferral:**

Diminished aesthetics and poor operation.

|                    |                    |                    |                        |
|--------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b> | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Repair             | 2011               | \$9,320            | Low                    |

**Updated:** FEB-10

**C1020.03 Interior Fire Doors\***

Metal skinned solid wood doors at the boiler room and fan room entries from the hallway in the 1912 Section. Solid wood with vision glass, Georgina Wire security glazing, at ends of hallways in the 1912 and 1952 Sections. These are double swing-type doors.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 2 - Poor             | 0                       | 50                        | FEB-10                |

**Event:** **Replace interior fire doors.**

**Concern:**

The interior single and double swinging fire doors are not rated assemblies and do not close properly. Interior double fire doors have signage to keep doors closed but doors are held open with door stops or retaining hooks.

**Recommendation:**

Replace all interior fire doors with rated assemblies as required. Provide automated and electrically supervised door hold open devices for double doors in hallways if doors are kept open. The supervised doors should be linked to the fire alarm control panel and close when the alarm is activated.

**Consequences of Deferral:**

Inadequate fire protection.

|                    |                    |                    |                        |
|--------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b> | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Code Repair        | 2010               | \$97,500           | Medium                 |

**Updated:** FEB-10



**C1020.04 Interior Sliding and Folding Doors\***

Wood bifold panel doors are provided for the Principal's office coat closet in the 1952 Addition.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1952             | 25                 | FEB-10         |

**C1030.01 Visual Display Boards\*\***

Whiteboards and pull-down projector screens are provided in classrooms. In the 1912 Section, original chalkboards have been converted/overlaid with whiteboards and/or tackboards with the original finished wood frames remaining in place. Tackboards are also provided in offices and hallways.

Whiteboards are of various ages depending on room, with an average age of about 5 years and replacement commencing in about 1999/2000. For lifecycle costing we have presumed an overall install year of 2004.

Cost estimate is based on 20 classrooms with an average cost per room of \$5500, plus allowance for corridor display boards.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 2004             | 20                 | FEB-10         |

**Event: Replace Visual Display Boards**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2024        | \$117,500   | Unassigned      |

**Updated:** FEB-10

**C1030.02 Fabricated Compartments(Toilets/Showers)\*\* - 1912 Section**

Prefinished metal washroom stalls are located in basement washrooms in the 1912 building. According to CBE personnel, these washrooms were renovated / remodeled during the 1982 renovations and addition.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1982             | 30                 | FEB-10         |

**Event: Replace Fabricated Compartments**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2013        | \$19,900    | Unassigned      |

**Updated:** FEB-10

**C1030.02 Fabricated Compartments(Toilets/Showers)\*\* - 1952 Addition**

Original painted metal washroom stall partitions are located in the student washrooms in the 1952 addition. Original painted metal shower partitions are provided in the girls shower room.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1952                    | 30                        | FEB-10                |

**Event: Replace Fabricated Compartments(Toilets/Showers)**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$33,700           | Unassigned             |

**Updated:** FEB-10

**C1030.08 Interior Identifying Devices\***

Signs (engraved wood, engraved plastic, laminated cardstock, etc.) are fastened above or on some of the doors in the corridors denoting the corresponding room number or room use.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 0                       | 20                        | FEB-10                |

**C1030.10 Lockers\*\* - Clothing Lockers**

2 banks containing a total of 44 half-height lockers or painted metal construction are provided in the girls shower room in the 1952 Addition. No lockers are provided for the boys shower room.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 3 - Marginal         | 1952                    | 30                        | FEB-10                |

**Event: Provide Clothes Lockers for Boys**

**Concern:**

Although student showers are not used at this facility, lockers in the girls shower room are used by students. There are no lockers for boys.

**Recommendation:**

Provide an equal number of lockers for boys.

|                    |                    |                    |                        |
|--------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b> | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Repair             | 2010               | \$17,200           | Low                    |

**Updated:** FEB-10

**Event: Replace Girls Clothes Lockers**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$17,200           | Unassigned             |

**Updated:** FEB-10

**C1030.10 Lockers\*\* - Tote/Shoe Lockers**

84 tote / shoe lockers are provided in the 1952 girls shower room. Lockers are original painted metal units.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal  | 1952             | 30                 | FEB-10         |

**Event: Provide Tote/Shoe Lockers for Boys**

**Concern:**

No tote / shoe lockers are provided for boys.

**Recommendation:**

Provide an equal number of tote lockers for boys as for girls.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-------------|-------------|-------------|-----------------|
| Repair      | 2010        | \$17,200    | Low             |

**Updated:** FEB-10

**Event: ReplaceTote/Shoe Lockers**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2013        | \$17,200    | Unassigned      |

**Updated:** FEB-10

**C1030.12 Storage Shelving\***

Original general storage painted wood shelving units and cabinets are located throughout the building.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1912             | 30                 | FEB-10         |

**C1030.14 Toilet, Bath, and Laundry Accessories\***

The washrooms are equipped with standard washroom accessories including paper towel and toilet paper dispensers, liquid soap dispensers and wall mounted mirrors.

Some toilet stalls in girls washrooms have added wall-mounted sanitary disposal bins.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0                | 20                 | FEB-10         |

**C2010 Stair Construction\***

The stairs consist of wood framed construction (1912 Section and 1982 Addition) and cast-in place concrete (1952 addition). The main interior stairs at either end of the 1912 corridors have metal stringers.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0                | 100                | FEB-10         |

**C2020.01 Tile Stair Finishes\***

Stairs at the south end of the 1952 corridor have 8" x 8" vinyl tiles and non-slip nosing (refer to F2020.01 Asbestos for further comments.)

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1952             | 60                 | FEB-10         |

**C2020.05 Resilient Stair Finishes\*\***

The stair treads are generally covered with rubber no-slip treads and the risers are finished with sheet vinyl (also refer to F2020.01 Asbestos).

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1982             | 20                 | FEB-10         |

**Event: Replace Resilient Stair Finishes**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2013        | \$15,000    | Unassigned      |

**Updated:** FEB-10

**C2020.08 Stair Railings and Balustrades\***

The main stairs railings in the 1912 building are base mounted painted or stained wood balusters with a wood handrail. Base mounted metal railings with rubber handgrip are located in the Library. Base mounted painted metal balustrade and handrail at the stairs to the 1912 sunken boiler room. Wood base mounted railings are located at the stairs leading to the top level of the 1912 building. Painted wall mounted handrails in the stairways in the remainder of the building.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1912             | 40                 | FEB-10         |

**C2020.10 Stair Painting\***

Painted concrete stairs lead from the 1912 main floor to the sunken boiler.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1982             | 0                  | FEB-10         |

**C2020.11 Other Stair Finishes\***

The stairs leading to the top level of the 1912 building have wood treads and risers.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal  | 1912             | 0                  | FEB-10         |

**Event: Repair Wood Stairs at Upper Level of 1912 Building**

**Concern:**

The wood treads of the stairs leading to the top level of the 1912 building were worn.

**Recommendation:**

Repair wood stairs by replacing wood treads.

**Consequences of Deferral:**

Potential trip hazard.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-------------|-------------|-------------|-----------------|
| Repair      | 2011        | \$6,500     | Medium          |

**Updated:** FEB-10

**C3010.01 Concrete Wall Finishes\***

Concrete wall in the boiler room and basement service rooms are painted.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal  | 1912             | 100                | FEB-10         |

**Event: Paint Boiler Room Walls**

**Concern:**

Painted on boiler room walls is peeling, likely due to humidity and heat. Repair cost estimate does not include provisions for lead abatement, if required (see F2020.09 Other Hazardous Materials).

**Recommendation:**

Remove loose paint then prime and paint boiler room walls.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-------------|-------------|-------------|-----------------|
| Repair      | 2011        | \$2,500     | Low             |

**Updated:** FEB-10

**C3010.02 Wall Paneling\*\* - 1912 Section**

Painted and stained wood wainscoting and chair rail are provided in the corridors and outside walls of stairs.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1912             | 30                 | FEB-10         |

**Event: Replace Wainscot and Chair Rail**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2013        | \$80,340    | Unassigned      |

**Updated:** FEB-10

**C3010.02 Wall Paneling\*\* - 1952 Addition**

Stained wood panels are installed on the lower half of the hallways in the 1952 Addition.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1952             | 30                 | FEB-10         |

**Event: Replace Wood Paneling**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2013        | \$27,000    | Unassigned      |

**Updated:** FEB-10

**C3010.02 Wall Paneling\*\* - 1965 Addition**

Natural wood plank wall paneling is located in the Gymnasium adjacent the stage area, and at the stage stair area from the common corridor.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1965             | 30                 | FEB-10         |

**Event: Replace Natural Wood Wall Paneling**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2013        | \$12,500    | Unassigned      |

**Updated:** FEB-10

**C3010.03 Plaster Wall Finishes\***

Partitions in the 1912 Section and the 1952, 1965 Additions are primarily painted plaster (excepting areas in hallways having wood panels).

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0                | 40                 | FEB-10         |

**C3010.06 Tile Wall Finishes\*\***

4" x 4" ceramic wall tile was identified in the unused shower rooms (staff and student) on the lower floor of the 1952 Addition.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1952                    | 40                        | FEB-10                |

**Event: Replace Tile Wall Finishes**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$39,800           | Unassigned             |

**Updated:** FEB-10

**C3010.09 Acoustical Wall Treatment\*\***

Painted sound baffling sheathing is installed on the upper portion of the Gymnasium walls and around the stage area (approximately 295 m2 in total).

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1965                    | 20                        | FEB-10                |

**Event: Replace Acoustical Wall Treatment**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$74,400           | Unassigned             |

**Updated:** FEB-10

**C3010.11 Interior Wall Painting\***

All interior walls (excepting stained or clear finished wood panels) are painted. Also see C3010.01 Concrete Wall Finishes.

Graphic art paint has also been added at the Piitoyas Family School office in the corridor in the 1912 Section.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1982                    | 10                        | FEB-10                |

**C3010.13 Wall Trim and Decoration\***

Stained and urethane wood wainscoting tongue and groove and wood sheathing was identified in the interior stairwells and corridors of the 1912 building and in the main corridor of the 1952 addition respectively (refer to C3010.02 Wall Paneling).

Doors at entries to classrooms and offices, etc., have painted wood trim. Windows in the 1912 Section and 1982 Addition have stained wood sills and trim at the interior.

Original chalk boards in the 1912 Classrooms have stained and urethane-finished wood trim.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 0                       | 10                        | FEB-10                |

**C3020.01.02 Paint Concrete Floor Finishes\***

Painted/sealed concrete floors are situated in the mechanical room and service rooms in the 1912 Section and 1952 and 1965 Additions.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 3 - Marginal         | 0                       | 10                        | FEB-10                |

**Event: Paint Concrete Floors**

**Concern:**

The painted concrete floor finishes were worn in high traffic areas.

**Recommendation:**

Paint as required.

**Consequences of Deferral:**

Diminished aesthetics and increased maintenance.

|                    |                    |                    |                        |
|--------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b> | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Repair             | 2011               | \$4,500            | Low                    |

**Updated:** FEB-10

**C3020.02 Tile Floor Finishes\*\* - 1952 Addition Showers**

1" X 1" ceramic tile flooring was noted in the shower areas in the basement level of the 1952 addition (approx. 36 m2 in total).

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1952                    | 50                        | FEB-10                |

**Event: Replace Ceramic Floor Tile**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$7,200            | Unassigned             |

**Updated:** FEB-10

**C3020.02 Tile Floor Finishes\*\* - 1952 Addition Student Changerooms and Washrooms**

Quarry tile was identified in the boys and girls washrooms in the 1952 building (about 290 m2 total).

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1952                    | 50                        | FEB-10                |

**Event: Replace Quarry Tile Flooring**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$93,200           | Unassigned             |

**Updated:** FEB-10



**C3020.03 Terrazzo Floor Finishes\***

Terrazzo flooring in the basement washrooms, 1912 building.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1912             | 75                 | FEB-10         |

**C3020.04 Wood Flooring\*\* - 1912 Section**

Wood strip flooring in the 1912 Building is located on the penthouse level and part of the northwest classroom on the main floor (approx. 310 m2 total)

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal  | 1912             | 30                 | FEB-10         |

**Event: Refinish Wood Flooring in 3rd Floor Classrooms**

**Concern:**

Original wood flooring in the top floor (penthouse) classrooms is worn and the finish is faded. Separation of some side laps was observed.

**Recommendation:**

Repair/replace hardwood flooring as needed and refinish.

**Consequences of Deferral:**

Potential trip hazard and diminished aesthetics.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-------------|-------------|-------------|-----------------|
| Repair      | 2009        | \$15,900    | Medium          |

**Updated:** FEB-10

**Event: Replace Wood Flooring**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2013        | \$92,600    | Unassigned      |

**Updated:** FEB-10

**C3020.04 Wood Flooring\*\* - 1965 Addition**

Original hardwood strip flooring in the Gymnasium and Stage of the 1965 Addition (approx. 468 m2 total).

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 3 - Marginal         | 1965                    | 30                        | FEB-10                |

**Event: Refinish Wood Flooring in Stage Area**

**Concern:**

Wood flooring in the Stage/Drama area is worn and side seams between some boards have opened.

**Recommendation:**

Replace damaged floor boards and refinish the Stage/Drama area.

|                    |                    |                    |                        |
|--------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b> | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Repair             | 2010               | \$5,200            | Low                    |

**Updated:** FEB-10

**Event: Replace Hardwood Flooring on Stage and Gymnasium Floors**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$139,400          | Unassigned             |

**Updated:** FEB-10

**C3020.07 Resilient Flooring\*\* - 1912 Section (1982 Renovations)**

Sheet vinyl dating to the 1982 renovations is located in some classrooms on the second and third floors of the 1912 Section (approx. 425 m2 total) (also refer to F2020.01 Asbestos)

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1982                    | 20                        | FEB-10                |

**Event: Replace Sheet Vinyl Flooring**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$42,200           | Unassigned             |

**Updated:** FEB-10

**C3020.07 Resilient Flooring\*\* - 1912 Section (2005 Renovations)**

Sheet vinyl in the Main, 2nd and 3rd floor corridors and some classrooms / offices of the 1912 Building were replaced in 2005 due to water damage from frozen plumbing pipes (approx. 1220 m2 total).

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 5 - Good             | 2005                    | 20                        | FEB-10                |

**Event: Replace Sheet Vinyl Flooring**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2025               | \$121,200          | Unassigned             |

**Updated:** FEB-10

**C3020.07 Resilient Flooring\*\* - 1952 Addition Classrooms**

The 1952 Addition has sheet vinyl flooring in the lower floor art room and lunch room, and main floor classrooms (approx. 660 m2 total) (also refer to F2020.01 Asbestos)

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1982                    | 20                        | FEB-10                |

**Event: Replace Sheet Vinyl Flooring**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$65,600           | Unassigned             |

**Updated:** FEB-10

**C3020.07 Resilient Flooring\*\* - 1952 Addition Corridors**

Original 8" x 8" vinyl tile flooring is provided in the corridors of the 1952 Addition (approx. 215 m2) (also refer to F2020.01 Asbestos).

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1952                    | 20                        | FEB-10                |

**Event: Replace Vinyl Tile Flooring**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$21,400           | Unassigned             |

**Updated:** FEB-10

**C3020.07 Resilient Flooring\*\* - 1982 Addition**

Sheet vinyl flooring in the Library in the 1965 Addition was replaced in 2005 (approx. 271 m2).

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 5 - Good             | 2005                    | 20                        | FEB-10                |

**Event: Replace Sheet Vinyl Flooring**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2025               | \$27,700           | Unassigned             |

**Updated:** FEB-10

**C3020.08 Carpet Flooring\*\***

Area carpets are provided in the offices, Library Resource Centre work room and some of the classrooms in the 1912 Section and in the Library Resource work room in the 1982 Addition (approx. 300 m2 total)

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 2005                    | 15                        | FEB-10                |

**Event: Replace Area Carpets**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2020               | \$22,900           | Unassigned             |

**Updated:** FEB-10

**C3030.01 Concrete Ceiling Finishes (Unpainted)\***

The below grade boiler and storage areas have concrete ceiling finishes (refer to B1010.03).

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1912                    | 100                       | FEB-10                |

**C3030.03 Plaster Ceiling Finishes\***

Plaster and lath ceilings are located throughout the building but have generally been covered by suspended T-Bar ceilings. Plaster ceilings are visible in various areas including the stair cases.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 0                       | 50                        | FEB-10                |

**C3030.04 Gypsum Board Ceiling Finishes (Unpainted)\***

Concealed above suspended acoustic tile ceilings in areas within the 1912 building that were water damaged and repaired in 2005.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 2005                    | 60                        | FEB-10                |

**C3030.06 Acoustic Ceiling Treatment (Susp.T-Bar)\*\* - 1912 Section**

A majority of the suspended T-bar acoustic tile ceilings in the 1912 Section were replaced during water damage repairs that occurred in 2005. What remains of the older acoustic tile ceilings in some classrooms was reportedly installed during the 1982 Addition and Renovations (approx. 425 m2 total).

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1982                    | 25                        | FEB-10                |

**Event: Replace Acoustic Tile Ceilings**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$22,600           | Unassigned             |

**Updated:** FEB-10

**C3030.06 Acoustic Ceiling Treatment (Susp.T-Bar)\*\* - 1952 Addition**

Concealed grid suspended acoustic tile in classrooms and corridors of the 1952 Addition (approx. 875 m2 total) (also see F2020.01 Asbestos)

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1952                    | 25                        | FEB-10                |

**Event: Replace Acoustic Tile Ceilings.**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$46,500           | Unassigned             |

**Updated:** FEB-10

**C3030.06 Acoustic Ceiling Treatment (Susp.T-Bar)\*\* - 1965 Addition**

Ceilings in the 1965 Addition, with the exception of the Library, have original concealed grid suspended acoustic tile treatment (approx. 590 m2 total) (also see F2020.01 Asbestos)

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1965                    | 25                        | FEB-10                |

**Event: Replace Acoustic Tile Ceilings**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$31,300           | Unassigned             |

**Updated:** FEB-10

**C3030.06 Acoustic Ceiling Treatment (Susp.T-Bar)\*\* - 2005 Renovations**

The majority of classroom, offices and corridors in the 1912 Section and the Library in the 1965 and 1982 Additions have suspended T-bar acoustic tile ceilings that was replaced due to water damage in 2005 (approx. 1762 m2 total) .

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 2005             | 25                 | FEB-10         |

**Event: Replace Acoustic Tile Ceilings**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2030        | \$93,500    | Unassigned      |

**Updated:** FEB-10

## S4 MECHANICAL

### D2010.05 Showers\*\*

Showers are located on the lower level of the building. There are two open shower rooms and two private shower stalls. Presently not used.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1912             | 30                 | FEB-10         |

#### Event: Replace Showers

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2013        | \$7,100     | Unassigned      |

**Updated:** FEB-10

### D2010.08 Drinking Fountains / Coolers\*\*

The drinking fountains are located in the corridors of the school and are made of vitreous china.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1968             | 35                 | FEB-10         |

#### Event: Replace Drinking Fountains

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2012        | \$11,100    | Unassigned      |

**Updated:** FEB-10

### D2010.09 Other Plumbing Fixtures\*

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1965             | 0                  | FEB-10         |

### D2010.10 Washroom Fixtures (WC, Lav, Urnl)\*\*1912

Water Closets, Lavatories and Urinals fixtures installed in 1912

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1912             | 35                 | FEB-10         |

#### Event: Replace Washroom Fixtures

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2013        | \$20,000    | Unassigned      |

**Updated:** FEB-10

**D2010.10 Washroom Fixtures (WC, Lav, Urnl)\*\*1965**

Water Closets and Lavatories fixtures installed in 1965

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1965                    | 35                        | FEB-10                |

**Event: Replace Washroom Fixtures**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$31,800           | Unassigned             |

**Updated:** FEB-10

**D2010.10 Washroom Fixtures (WC, Lav, Urnl)\*\*1982**

Water Closets and Lavatories fixtures installed in 1982

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1982                    | 35                        | FEB-10                |

**Event: Replace Washroom Fixtures**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2017               | \$44,600           | Unassigned             |

**Updated:** FEB-10

**D2020.01.01 Pipes and Tubes: Domestic Water\***

The domestic water piping is copper throughout the building and was reportedly replaced circa 1978.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1978                    | 40                        | FEB-10                |

**D2020.01.02 Valves: Domestic Water\*\* (1965)**

16 Service sinks, counter mounted steel enamel service sinks.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1965                    | 40                        | FEB-10                |

**Event: Replace Domestic Valves**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$5,900            | Unassigned             |

**Updated:** FEB-10



**D2020.01.02 Valves: Domestic Water\*\* (1982)**

Stainless Steel Service Sinks

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1982             | 40                 | FEB-10         |

**Event: Replace Domestic Valves**

**Concern:**

8 Stainless Steel Service sinks, 1982

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2022        | \$10,600    | Unassigned      |

**Updated:** FEB-10

**D2020.01.03 Piping Specialties (Backflow Preventors)\*\***

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1982             | 20                 | FEB-10         |

**Event: Replace Backflow Preventors**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2013        | \$10,800    | Unassigned      |

**Updated:** FEB-10

**D2020.02.02 Plumbing Pumps: Domestic Water\*\***

Hot water recirculation pumps are installed on the domestic hot water system.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1982             | 20                 | FEB-10         |

**Event: Replace Domestic Water Plumbing Pumps**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2013        | \$5,800     | Unassigned      |

**Updated:** FEB-10

**D2020.02.06 Domestic Water Heaters\*\* (1998)**

Domestic hot water is supplied by one John Wood Pro Series domestic hot water heater. One tank was installed in 1998. The heater is rated at 38,000 BTU/hr. and 150 L.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1998                    | 20                        | FEB-10                |

**Event: Replace Domestic Water Heater**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2018               | \$2,100            | Unassigned             |

**Updated:** FEB-10

**D2020.02.06 Domestic Water Heaters\*\*(2001)**

Domestic hot water is supplied by one John Wood Pro Series domestic hot water heater. One tank was installed in 2001. The heater is rated at 38,000 BTU/hr. and 150 L.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 2001                    | 20                        | FEB-10                |

**Event: Replace Domestic Water Heater**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2021               | \$2,100            | Unassigned             |

**Updated:** FEB-10

**D2020.03 Water Supply Insulation: Domestic\***

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 0                       | 40                        | FEB-10                |

**D2030.01 Waste and Vent Piping\***

The waste piping is connected to the municipal system. The vent piping is through the roof of the building.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 0                       | 50                        | FEB-10                |

**D2040.01 Rain Water Drainage Piping Systems\***

The rain water drainage piping system consists of surface roof drains connected to internal rainwater leaders that connect to the municipal storm sewer system. Downspouts and gutters are used on the 1912 section.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 0                       | 50                        | FEB-10                |

**D2040.02.04 Roof Drains\***

The roof drains are cast iron dome type drains.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 0                       | 40                        | FEB-10                |

**D3010.02 Gas Supply Systems\***

The natural gas supply enters the building through the mechanical room on the south side of the original (1912) section.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1965                    | 60                        | FEB-10                |

**D3020.01.01 Heating Boilers & Accessories: Steam\*\***

The boiler plant comprised of two Rite 3500 MBH input steam boilers.

|                      |                             |                             |                       |
|----------------------|-----------------------------|-----------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b>     | <b><u>Design Life</u></b>   | <b><u>Updated</u></b> |
| 5 - Good             | 2007                        | 35                          | FEB-10                |
|                      | <b><u>Capacity Size</u></b> | <b><u>Capacity Unit</u></b> |                       |
|                      | 1025                        | kWh                         |                       |

**Event: Replace Heating Boilers & Accessories**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2042               | \$560,000          | Unassigned             |

**Updated:** FEB-10

**D3020.01.03 Chimneys (&Comb. Air) : Steam Boilers\*\***

The boiler breeching has been replaced in 2007. The combustion air enters the boiler room through a gravity duct.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 5 - Good             | 2007                    | 35                        | FEB-10                |

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

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2042               | \$36,700           | Unassigned             |

**Updated:** FEB-10

**D3020.01.04 Water Treatment: Steam Boilers\***

The boiler water is treated using an automated chemical pot feeder system.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 5 - Good             | 2007                    | 35                        | FEB-10                |

**D3040.01.01 Air Handling Units: Air Distribution\*\* -1965 Addition**

Two air handling units serving the office area and gymnasium are located in the gymnasium storage room and in the upper mechanical room respectively. The units were installed in approximately 1982.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1982                    | 30                        | FEB-10                |

**Event: Replace Air Handling Units**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$271,800          | Unassigned             |

**Updated:** FEB-10

**D3040.01.01 Air Handling Units: Air Distribution\*\*- 1912 Section**

A central system serves the original (1912) section of the school and consists of a heating coil, supply air fan, filter section, and mixing room. The unit is original to the building.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 2 - Poor             | 1912                    | 30                        | FEB-10                |

**Event: Replace original (1912) air handling unit/system.**

**Concern:**

The air handling system used to ventilate the original (1912) section of the building provides poor ventilation and was observed to have corroded coils. The system is operating inefficiently and requires regular maintenance.

**Recommendation:**

Replace the original (1912) air handling unit/system.

|                     |                    |                    |                        |
|---------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>  | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Failure Replacement | 2010               | \$335,600          | Medium                 |

**Updated:** FEB-10

**D3040.01.03 Air Cleaning Devices:Air Distribution\***

Disposable air filters are installed on all air handling units, pre-filters replaced quarterly.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 2009                    | 30                        | FEB-10                |

**D3040.01.04 Ducts: Air Distribution\***

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal  | 1912             | 50                 | FEB-10         |

**Event:** Repair original (1912) ductwork associated with original air handling unit/system.

**Concern:**

The ductwork in the original (1912) section of the building should be cleaned and repaired with the replacement of the air handling units.

**Recommendation:**

Repair original (1912) ductwork.

| <u>Type</u> | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-------------|-------------|-------------|-----------------|
| Repair      | 2010        | \$15,000    | Low             |

**Updated:** FEB-10

**D3040.01.07 Air Outlets & Inlets:Air Distribution\***

The air outlets and inlets are of varying type and include supply air diffusers and supply and return air grilles.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0                | 30                 | FEB-10         |

**D3040.02 Steam Distribution Systems: Piping/Pumps\*\*- 2007 pumps**

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 5 - Good      | 2007             | 40                 | FEB-10         |

**Event:** Replace Steam Distribution Systems:Pumps

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2047        | \$671,500   | Unassigned      |

**Updated:** FEB-10

**D3040.02 Steam Distribution Systems: Piping/Pumps\*\*- Original Piping**

The steam and condensate piping are conventional black iron.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal  | 0                | 30                 | FEB-10         |

**Event: Replace heating piping and steam traps.**

**Concern:**

The heating piping and steam traps are corroded and should be replaced with the replacement of the boilers.

**Recommendation:**

Replace all heating piping.

| <u>Type</u>         | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|---------------------|-------------|-------------|-----------------|
| Failure Replacement | 2010        | \$80,200    | Medium          |

**Updated:** FEB-10

**D3040.03.01 Hot Water Distribution Systems\*\***

Hot water system utilized in the air handling unit in the upper mechanical room beside library

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1978             | 40                 | FEB-10         |

**Event: Replace Hot Water Distribution Systems**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2018        | \$558,900   | Unassigned      |

**Updated:** FEB-10

**D3040.04.01 Fans: Exhaust\*\***

There are exhaust fans for the washrooms, kitchen stove, and shop area.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal  | 1965             | 30                 | FEB-10         |

**Event: Replace all exhaust fans.**

**Concern:**

The exhaust fans do not provide adequate ventilation and require higher than normal maintenance.

**Recommendation:**

Replace all exhaust fans.

| <u>Type</u>         | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|---------------------|-------------|-------------|-----------------|
| Failure Replacement | 2010        | \$37,500    | Low             |

**Updated:** FEB-10

**D3040.04.03 Ducts: Exhaust\***

Exhaust duct system servicing the shop area, kitchen stove and washrooms.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1965             | 50                 | FEB-10         |

**D3040.04.05 Air Outlets and Inlets: Exhaust\***

Exhaust duct system servicing the shop area, kitchen stove and washrooms.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1965             | 30                 | FEB-10         |

**D3040.05 Heat Exchangers\*\***

Steam-hot water and steam-glycol heat exchangers are located in the upper mechanical room.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1965             | 30                 | FEB-10         |

**Event: Replace Heat Exchangers**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2013        | \$16,600    | Unassigned      |

**Updated:** FEB-10

**D3050.03 Humidifiers\*\***

No functioning humidification.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 2 - Poor      | 1912             | 25                 | FEB-10         |

**Event: Provide Humidifiers**

**Concern:**

To minimize health risks associated with low humidity.

**Recommendation:**

Install humidification system.

| <u>Type</u>  | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|--------------|-------------|-------------|-----------------|
| Code Upgrade | 2010        | \$38,700    | Low             |

**Updated:** FEB-10

**D3050.05.01 Conectors\*\***

Steam conectors are located at the entrances to the building and are controlled by line voltage switches.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1952             | 30                 | FEB-10         |

**Event: Replacement Conectors**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2013        | \$6,500     | Unassigned      |

**Updated:** FEB-10

**D3050.05.02 Fan Coil Units\*\***

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1912             | 30                 | FEB-10         |

**Event: Replace Fan Coil Units**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2013        | \$44,800    | Unassigned      |

**Updated:** FEB-10

**D3050.05.03 Finned Tube Radiation\*\*-1912**

Finned tube radiators are located in all classrooms areas throughout the building.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1912             | 40                 | FEB-10         |

**Event: Replace Finned Tube Radiation**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2013        | \$186,600   | Unassigned      |

**Updated:** FEB-10

**D3050.05.03 Finned Tube Radiation\*\*-1952**

Finned tube radiators are located in all common areas throughout the building.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1952             | 40                 | FEB-10         |

**Event: Replace Finned Tube Radiation**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2013        | \$6,500     | Unassigned      |

**Updated:** FEB-10



**D3050.05.07 Unit Ventilators\*\*-1952**

Unit ventilators are present in the 1952 additions and are used in conjunction with a central exhaust system for ventilation.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 2 - Poor             | 1952                    | 0                         | FEB-10                |

**Event:** Replace all classroom unit ventilators.

**Concern:**

The unit ventilators are constantly breaking down, are noisy, and operate inefficiently.

**Recommendation:**

Replace all classroom unit ventilators.

|                     |                    |                    |                        |
|---------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>  | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Failure Replacement | 2010               | \$186,600          | Medium                 |

**Updated:** FEB-10

**D3050.05.07 Unit Ventilators\*\*-1965**

Unit ventilators are present in the 1965 additions and are used in conjunction with a central exhaust system for ventilation.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1965                    | 30                        | FEB-10                |

**Event:** Replace Unit Ventilators

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$8,200            | Unassigned             |

**Updated:** FEB-10

**D3060.02.01 Electric and Electronic Controls\*\***

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1952                    | 30                        | FEB-10                |

**Event:** Replace Electric and Electronic Controls

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$9,700            | Unassigned             |

**Updated:** FEB-10

**D3060.02.02 Pneumatic Controls\*\***

The pneumatic controls are used throughout the building. The air compressor is a Quincy Climate Control model 0C00503S00071 powered by a GE 1 hp. motor. The air is dried by a DeVilbiss-Hankison air dryer. The air compressor and air dryer are approximately 10 years old.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1999                    | 40                        | FEB-10                |

**Event: Replace Pneumatic Controls**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2039               | \$46,100           | Unassigned             |

**Updated:** FEB-10

**D3090 Other Special HVAC Systems and Equipment\***

There is a dust collector manufactured by N.R. Murphy Ltd. located in the basement of the original building. It is not in service.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1912                    | 0                         | FEB-10                |

**D4020 Standpipes\***

A 2" standpipe system exists throughout the school. The standpipe is complete with hoses on every floor and is original to each section of the building.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 0                       | 60                        | FEB-10                |

**D4030.01 Fire Extinguisher, Cabinets and Accessories\***

Wall mounted fire extinguishers are located next to hoses on reels and throughout the school.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 0                       | 30                        | FEB-10                |

## S5 ELECTRICAL

### D5010.01 Main Electrical Transformers\*\*

An exterior pad mounted 300 kva transformer supplies power to the school. It is not the property of the school. The transformer is estimated to be installed circa 1970.

|                      |                             |                             |                       |
|----------------------|-----------------------------|-----------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b>     | <b><u>Design Life</u></b>   | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1970                        | 40                          | FEB-10                |
|                      | <b><u>Capacity Size</u></b> | <b><u>Capacity Unit</u></b> |                       |
|                      | 300                         | kVA                         |                       |

**Event: Replace Main Electrical Transformer**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$48,900           | Unassigned             |

**Updated:** FEB-10

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

The electrical service was upgraded circa 1970 and was converted from 1 phase power to 3 phase power. The main switchboard is manufactured by Federal Pioneer and is rated at 800 A, 120/208 V, 3 phase, 4 wires. The switchboard was installed in 1952.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1952                    | 40                        | FEB-10                |

**Event: Conduct an infrared scan of main switchboard.**

**Concern:**

Main switchboard is old and should be scanned in order to identify potential problems.

**Recommendation:**

Conduct an infrared scan of main switchboard.

|                    |                    |                    |                        |
|--------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b> | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Study              | 2009               | \$4,000            | Medium                 |

**Updated:** FEB-10

**Event: Replace Main Electrical Switchboards**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$51,000           | Unassigned             |

**Updated:** FEB-10

**D5010.05 Electrical Branch Circuit Panelboards (Secondary Distribution)\*\* - 1912 & 1965 Sections**

The 800 Amp switchboard distributes power to panelboards located throughout the school. The panelboards are generally original to each part of the building except for the original, 1912 building which was replaced in 1965, thus being about 44 years old.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 3 - Marginal         | 1965                    | 30                        | FEB-10                |

**Event: Replace and Expand Branch Circuit Panelboards**

**Concern:**

Panelboards in the 1912 Section and 1965 Addition are 44 years old and well beyond the Theoretical Design Life (TDL) of 30 years.

**Recommendation:**

Replace all panel boards in the 1912 and 1965 sections. Expansion is recommended as approximately half of the boards are at full capacity.

|                     |                    |                    |                        |
|---------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>  | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Failure Replacement | 2011               | \$65,100           | Medium                 |

**Updated:** FEB-10

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

The 800 Amp switchboard distributes power to panelboards located throughout the school. The panelboards in the 1952 Addition appear to be original, thus being 57 years old.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 3 - Marginal         | 1952                    | 30                        | FEB-10                |

**Event: Replace and Expand Branch Circuit Panelboards**

**Concern:**

Panelboards in the 1952 Addition are 57 years old and well beyond the TDL of 30 years.

**Recommendation:**

Replace all panel boards in the 1952 Addition. Expansion is recommended as approximately half of the boards are at full capacity.

|                     |                    |                    |                        |
|---------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>  | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Failure Replacement | 2011               | \$32,600           | Medium                 |

**Updated:** FEB-10

**D5010.05 Electrical Branch Circuit Panelboards (Secondary Distribution)\*\* - 1982 Addition**

The 800 Amp switchboard distributes power to panelboards located throughout the school. The panelboards in the 1982 Addition are original, thus being 27 years old.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1982                    | 30                        | FEB-10                |

**Event: Replace and Expand Branch Circuit Panelboards**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$10,900           | Unassigned             |

**Updated:** FEB-10

**D5010.07.02 Motor Starters and Accessories\*\***

Motor starters are manufactured by Taylor Electric and are located in the mechanical rooms of the building.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1952                    | 30                        | FEB-10                |

**Event: Replace Older Motor Starters and Accessories**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2014               | \$60,000           | Unassigned             |

**Updated:** FEB-10

**D5010.07.02 Motor Starters and Accessories\*\* - 2008 Boiler Starters**

Motor starters for the 2008 Boilers were replaced in 2008.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 5 - Good             | 2008                    | 30                        | FEB-10                |

**Event: Replace Boiler Pump Starters**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2038               | \$30,000           | Unassigned             |

**Updated:** FEB-10

**D5020.01 Electrical Branch Wiring\***

The electrical wiring in the building is standard wire in conduit (armoured cable). All wiring in the building is original to each part of the building with the exception of wiring in the 1912 section having been replaced in about 1965.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 3 - Marginal         | 1952                    | 50                        | FEB-10                |

**Event: Inspect Building Wiring.**

**Concern:**

The 1952 additions wiring is aged and has surpassed its theoretical useful life of 50 years. The wiring insulation becomes deteriorated with time and should be inspected regularly.

**Recommendation:**

Inspect building wiring.

|                    |                    |                    |                        |
|--------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b> | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Study              | 2010               | \$9,500            | Medium                 |

**Updated:** FEB-10

**Event: Replace building wiring**

**Concern:**

Wiring in the 1912 Section and 1952 and 1965 Additions is aged and has surpassed its theoretical useful life of 50 years. The wiring insulation becomes deteriorated with time and should be based on the study findings.

**Recommendation:**

Replace the building wiring based on the outcome of the study.

|                     |                    |                    |                        |
|---------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>  | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Failure Replacement | 2012               | \$809,300          | Low                    |

**Updated:** FEB-10

**D5020.02.01 Lighting Accessories (Lighting Controls)\***

Lighting in the school is controlled by line voltage switches.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1952                    | 30                        | FEB-10                |

**D5020.02.02.01 Interior Incandescent Fixtures\***

Incandescent fixtures are located in the mechanical rooms.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1960                    | 30                        | FEB-10                |

**D5020.02.02.02 Interior Florescent Fixtures\*\***

Fluorescent fixtures are used throughout the school and generally consists of pendant and surface mounted 4 ft. T-12 fixtures with eggcrate lenses.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1952                    | 30                        | FEB-10                |

**Event: Replace T12 Fixtures With T8 or T5.**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$777,000          | Unassigned             |

**Updated:** FEB-10

**D5020.02.02.02 Interior Fluorescent Fixtures\*\* - 2005 Repairs**

Interior fluorescent fixtures in the northeast corner classrooms on the main and second floor of the 1912 Section were replaced using T-8 fixtures due to flood damage in 2008 from a broken plumbing line.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 5 - Good             | 2005                    | 30                        | FEB-10                |

**Event: Replace T-8 Fluorescent Light Fixtures**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2035               | \$15,600           | Unassigned             |

**Updated:** FEB-10

**D5020.02.03.02 Emergency Lighting Battery Packs\*\***

Battery packs throughout the school appear to have been replaced on an on-going basis as needed. As such, an average installation year of 1982 has been used.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1982                    | 20                        | FEB-10                |

**Event: Replace Battery Packs**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$26,000           | Unassigned             |

**Updated:** FEB-10

**D5020.02.03.03 Exit Signs\***

Exit signage is of mixed age dependant on the year of addition. All appear to be incandescent currently.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0                | 30                 | FEB-10         |

**Event: Replace Incandescent Exit Lights with LED Fixtures**

**Concern:**

Exit lights are in use 24 hours per day 365 day a year.

**Recommendation:**

Purchase LED incandescent replacements fittings for all exit signs.

**Consequences of Deferral:**

Higher energy costs then necessary

| <u>Type</u>               | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|---------------------------|-------------|-------------|-----------------|
| Energy Efficiency Upgrade | 2010        | \$4,000     | Low             |

**Updated:** FEB-10

**D5020.03.01.03 Exterior Metal Halide Fixtures\***

6 metal halide light fixtures currently provide exterior lighting around the school perimeter.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1982             | 30                 | FEB-10         |

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

The exterior lighting is controlled by a timer in the original school building.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1912             | 30                 | FEB-10         |

**Event: Install Sensors**

**Concern:**

Lighting is currently controlled by a timer which is manually set by the building operator

**Recommendation:**

Install a lighting sensor to reduce operator maintenance and lighting periods.

| <u>Type</u>               | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|---------------------------|-------------|-------------|-----------------|
| Energy Efficiency Upgrade | 2010        | \$1,000     | Low             |

**Updated:** FEB-10



**D5030.01 Detection and Fire Alarm\*\***

The fire protection system is a Simplex 4002 21-zone system. Terminal devices include manual pull stations, alarm bells, smoke detectors, and heat detectors. The system was reportedly installed in 1993.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1993                    | 25                        | FEB-10                |

**Event: Replace Detection and Fire Alarm**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2018               | \$184,000          | Unassigned             |

**Updated:** FEB-10

**D5030.02.02 Intrusion Detection\*\***

The intrusion detection system consists of a Silent Knight burglary/fire control/communicator system located in the gymnasium storage room and motion sensors located throughout the building. The installation date was not confirmed but is presumed to be similar to the 1993 fire detection system.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1993                    | 25                        | FEB-10                |

**Event: Replace Intrusion Detections System**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2018               | \$184,000          | Unassigned             |

**Updated:** FEB-10

**D5030.04.01 Telephone Systems\***

Telephones are provided in all classrooms and are used for intercom, paging, and external calling. A Public address module is also attached.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1995                    | 25                        | FEB-10                |

**D5030.04.04 Data Systems\***

A single PC type server appears to provide backup for the school in a old office turned storage room on the top floor of the original school.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 5 - Good             | 2000                    | 0                         | FEB-10                |

**D5030.04.05 Local Area Network Systems\***

Both wired and wireless schools networks and the Supernet system were installed circa 2000 providing internet access.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 2000                    | 15                        | FEB-10                |

**D5030.05 Public Address and Music Systems\*\***

The public address is part of the meridian telephone system. A redundant Bogen model public address amplifier is also attached.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1995                    | 25                        | FEB-10                |

**Event: Replace Public Address and Music Systems**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2020               | \$30,000           | Unassigned             |

**Updated:** FEB-10

**D5090.01 Uninterruptible Power Supply Systems\*\***

Small UPS for the single server providing service for the school (lifecycle replacement in 2035 is estimated to be less than the \$1,000 threshold for this study and has not been included herein).

|                      |                             |                             |                       |
|----------------------|-----------------------------|-----------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b>     | <b><u>Design Life</u></b>   | <b><u>Updated</u></b> |
| 5 - Good             | 2005                        | 30                          | FEB-10                |
|                      | <b><u>Capacity Size</u></b> | <b><u>Capacity Unit</u></b> |                       |
|                      | 1                           | kVA                         |                       |

## S6 EQUIPMENT, FURNISHINGS AND SPECIAL CONSTRUCTION

### E1020.02 Library Equipment\*

Wooden fixed and moveable shelving; Librarian desk; Check-out desk; computers and printers, overhead projectors and stands; LCD flatscreen TVs, DVD/VHS players, etc.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0                | 25                 | FEB-10         |

### E1020.07 Laboratory Equipment\*

Laboratory countertops and stainless steel service sinks with gooseneck faucets in some classrooms in the 1912 Section. Age unknown and presumed to be installed during the 1982 expansion and renovations.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1982             | 25                 | FEB-10         |

### E1090.04 Residential Equipment\*

There are residential stoves, fridges and a freezer in the staff room.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0                | 10                 | FEB-10         |

### E1090.07 Athletic, Recreational, and Therapeutic Equipment\*

Moveable and fixed basketball hoops, digital scoreboard, climber, athletic pads, etc. In the Gymnasium in the 1965 Section.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0                | 15                 | FEB-10         |

### E2010.02 Fixed Casework\*\* - 1912 Section

Painted and clear finish fixed cabinets, chalkboard casing, etc. (approx. 281 m2/gfa).

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1982             | 35                 | FEB-10         |

#### Event: Replace Fixed Casework

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2017        | \$30,100    | Unassigned      |

**Updated:** FEB-10

**E2010.02 Fixed Casework\*\* - 1912 Section (2005 Renovations)**

Clear finished birch casework in classrooms (approx. 540 m2/gfa).

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 5 - Good             | 2005                    | 35                        | FEB-10                |

**Event: Replace Fixed Casework**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2040               | \$57,800           | Unassigned             |

**Updated:** FEB-10

**E2010.02 Fixed Casework\*\* - 1952 Addition**

Original painted wood counters, cabinetry and window casing in classrooms, art room and lunch room and lunch room kitchen (approx. 689 m2/gfa).

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1952                    | 35                        | FEB-10                |

**Event: Replace Fixed Casework**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$73,700           | Unassigned             |

**Updated:** FEB-10

**E2010.02 Fixed Casework\*\* - 1952 Addition Staff Room**

Clear finished birch counters and cabinets in the Staff Room in the 1952 Addition were replaced in 2005 due to water damage from frozen plumbing pipes (approx. 57 m2/gfa).

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 5 - Good             | 2005                    | 35                        | FEB-10                |

**Event: Replace Fixed Casework**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2040               | \$6,100            | Unassigned             |

**Updated:** FEB-10

**E2010.02 Fixed Casework\*\* - 1965 and 1982 Additions**

Clear finished birch counters and cabinets in the Library and Library Resource Centre work room in the 1965 and 1982 additions, respectively, were replaced in 2005 due to water damage from frozen plumbing pipes (approx. 270 m2/gfa).

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 5 - Good             | 2005                    | 35                        | FEB-10                |

**Event: Replace Fixed Casework**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2040               | \$28,900           | Unassigned             |

**Updated:** FEB-10

**E2010.03.01 Blinds\*\* - All Sections**

Venetian blinds in classrooms and office spaces are not original and presumed to date to the 1982 renovations and addition (approx. 350 m2 total).

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 3 - Marginal         | 1982                    | 30                        | FEB-10                |

**Event: Replace Venetian blinds.**

**Concern:**

Discoloured, stained and damaged Venetian blinds were observed in some of the classrooms (approx. 153 m2 total impacted).

**Recommendation:**

Replace damaged blinds where applicable.

**Consequences of Deferral:**

Lack of use and diminished aesthetics.

|                     |                    |                    |                        |
|---------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>  | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Failure Replacement | 2010               | \$19,900           | Low                    |

**Updated:** FEB-10

**E2010.03.06 Curtains and Drapes\*\***

Manually operated fabric curtains are provided on the stage (approx. 80 m2 total).

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1965                    | 30                        | FEB-10                |

**Event: Replace Stage Curtains**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$25,000           | Unassigned             |

**Updated:** FEB-10

**E2020.02.03 Furniture\***

Desks, chairs and lunchroom tables.

| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
|----------------------|-------------------------|---------------------------|-----------------------|
| 4 - Acceptable       | 0                       | 0                         | FEB-10                |

**F1010.02.04 Portable and Mobile Buildings\*\***

A single relocatable classroom exists to the north of the 1952 Addition. According to CBE personnel, the portable classrooms was added to the Colonel Walker School in about 2007 but was originally manufactured in about 1965.

**Building Envelope:** Exterior cladding consists of prefinished aluminum vertical siding above painted horizontal clapboard siding. The roof assembly consists of low sloping modified bituminous membrane (SBS) roofing. Windows consist of 2 rows or original aluminum single pane horizontally sliding windows with bugs screens and locking hardware. The entry door and fire exit door are painted solid wood in steel frames. A painted wood-framed ramp provides wheelchair accessibility to the portable classroom.

The building envelope of the portable classroom is in acceptable overall condition

**Interiors:** Flooring consists of original resilient sheet linoleum. Walls are painted wood paneling. The ceilings has painted timber framing and original concealed grid acoustic ceiling tiles.

Flooring has lifted along seams and tacked in place using nails and staples to prevent further curling. Failure replacement is required to prevent trip hazards. The remainder of the interior finishes are in acceptable overall condition.

**Mechanical:** Heating, ventilation and air conditioning in the relocatable classroom is conducted by a new (2002) Change Air model CAG 1200NA unit ventilator (output rated at 73,9000 BTUH. Controls consists of a programmable digital thermostat of the same age. There is no humidification provided and there is no plumbing to/from the relocatable classrooms. Wall-mounted ABC-type dry chemical fire extinguishers beside doorway.

**Electrical:** Power is fed from the main building into 60 Amp, 120/208 Volt, 3-phase, 4-wire 120/208 distribution panelboard in the portable classroom. each unit. Data, telephone, intercom and fire alarm systems are integrated with the main building systems. Fluorescent T-12 strip lighting, battery-pack emergency lights with halogen lamps and illuminated exit signs in each unit.

The electrical systems in the portable classroom are in acceptable overall condition.

In general, the portable building is in acceptable overall condition.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 4 - Acceptable       | 1964                    | 30                        | FEB-10                |

**Event: Replace Building Envelope**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$36,300           | Unassigned             |

**Updated:** FEB-10

**Event: Replace Electrical Systems**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$11,500           | Unassigned             |

**Updated:** FEB-10

**Event: Replace Interior Finishes (Excluding Flooring)**

|                       |                    |                    |                        |
|-----------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>    | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Lifecycle Replacement | 2013               | \$4,500            | Unassigned             |

**Updated:** FEB-10

**Event: Replace Mechanical Systems**

| <u>Type</u>           | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------|-------------|-------------|-----------------|
| Lifecycle Replacement | 2013        | \$5,200     | Unassigned      |

**Updated:** FEB-10

**Event: Replace Sheet Flooring**

**Concern:**

Resilient flooring has lifted at side seams and tacked in place using nails and staples. The flooring is old, soiled and marred with cuts and scratches observed.

**Recommendation:**

Replace sheet flooring (approx. 60 m2).

| <u>Type</u>         | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|---------------------|-------------|-------------|-----------------|
| Failure Replacement | 2010        | \$6,000     | Low             |

**Updated:** FEB-10

**F2020.01 Asbestos\***

An asbestos survey report dated July 2008 confirms asbestos is present in the following building materials: heating hot water distribution pipe insulation; mudding on pipe elbows and fittings; ceiling plaster; and, asbestos cement board (transite). Review of the report revealed vinyl tile and sheet vinyl flooring had not been sampled and are presumed to contain asbestos fibres (non-friable).

No damaged suspect or confirmed friable asbestos containing materials were identified under the current study.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0                | 0                  | FEB-10         |

**Event: Continue Asbestos management Program**

**Concern:**

Asbestos building materials are confirmed as being present in this school.

**Recommendation:**

Continue asbestos management plan with regular condition survey updates every 3 to 5 years, and as warranted.

| <u>Type</u>              | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|--------------------------|-------------|-------------|-----------------|
| Preventative Maintenance | 2012        | \$4,500     | Medium          |

**Updated:** FEB-10

**F2020.02 PCBs\***

Based on the age of the building, sources of potential PCBs include ballasts in fluorescent light fixtures.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0                | 0                  | FEB-10         |



**F2020.03 Mercury\***

Potentially in the fluorescent lamps throughout the school.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0                | 0                  | FEB-10         |

**F2020.04 Mould\***

No known or reported mould-impacted building materials were identified.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0                | 0                  | FEB-10         |

**F2020.09 Other Hazardous Materials\***

Old vinyl Venetian blinds and interior wall, ceiling and floor paint may contain lead. Suspect finishes were generally observed to be in acceptable overall condition and dust free.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 0                | 0                  | FEB-10         |

## S8 FUNCTIONAL ASSESSMENT

### K4010.01 Barrier Free Route: Parking to Entrance\*

Roadside barrier free parking is not provided along 9th Avenue SE. No designated barrier free parking spaces were identified on site. The main entrance to the 1982 Addition is at grade level and is therefore barrier free.

| <u>Rating</u>  | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|----------------|------------------|--------------------|----------------|
| 4 - Acceptable | 1982             | 0                  | FEB-10         |

### K4010.02 Barrier Free Entrances\*

No automated entry devices provided at this school. Furthermore, there are no barrier free at grade entrances to the Original School (1912 Section) housing the Piitoyas Family School.

| <u>Rating</u> | <u>Installed</u> | <u>Design Life</u> | <u>Updated</u> |
|---------------|------------------|--------------------|----------------|
| 3 - Marginal  | 0                | 0                  | FEB-10         |

#### Event: Provide automated entry at the main entrance.

**Concern:**

There are no automated entry devices for either the Colonel Walker School section (1952, 1965 and 1982 Additions) nor the Piitoyas Family School (original 1912 Building). Furthermore, although there is 1 at-grade entry to Colonel Walker School, there are no at-grade entrances to the Piitoyas Family School.

**Recommendation:**

Equip the main entrance to each independant school with automated door openers and provide a wheelchair lift or ramp for barrier-free access to the Piitoyas Family School.

**Consequences of Deferral:**

Non-compliance with current barrier free standards and inaccessibility for handicapped or wheelchair users.

| <u>Type</u>                 | <u>Year</u> | <u>Cost</u> | <u>Priority</u> |
|-----------------------------|-------------|-------------|-----------------|
| Barrier Free Access Upgrade | 2010        | \$14,500    | Low             |

**Updated:** FEB-10

**K4010.03 Barrier Free Interior Circulation\***

No elevating devices or lifts are present to access upper or lower levels of the building.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 3 - Marginal         | 0                       | 0                         | FEB-10                |

**Event: Add 3 Lifts and 2 BFA Elevators**

**Concern:**

The school is not equipped with wheelchair lifts or elevators, rendering certain portions of the school inaccessible to wheelchair users.

**Recommendation:**

Provide wheelchair lifts for the stage in the 1965 Addition; the interior stair between the 1952 and 1965 additions; and, the interior stairs between the 1912 Section and 1965 Addition. Provide an elevator with stops at all levels of the 1912 Section and a second elevator with stops on the lower and upper level of the 1952 Addition.

**Consequences of Deferral:**

Non-compliance with current barrier free standards and inaccessibility for handicapped or wheelchair users.

|                             |                    |                    |                        |
|-----------------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>          | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Barrier Free Access Upgrade | 2010               | \$445,000          | Medium                 |

**Updated:** FEB-10

**K4010.04 Barrier Free Washrooms\***

There are no barrier-free accessible washrooms provided in either of the independant schools.

|                      |                         |                           |                       |
|----------------------|-------------------------|---------------------------|-----------------------|
| <b><u>Rating</u></b> | <b><u>Installed</u></b> | <b><u>Design Life</u></b> | <b><u>Updated</u></b> |
| 3 - Marginal         | 0                       | 0                         | FEB-10                |

**Event: Add 2 Universal BFA Washrooms.**

**Concern:**

There are no barrier free accessible washrooms at this facility.

**Recommendation:**

Provide two single universal barrier free washrooms, one in each independent school (colonel Walker and Piitoyas).

**Consequences of Deferral:**

Non-compliance with current barrier free standards and inaccessibility for handicapped or wheelchair users.

|                             |                    |                    |                        |
|-----------------------------|--------------------|--------------------|------------------------|
| <b><u>Type</u></b>          | <b><u>Year</u></b> | <b><u>Cost</u></b> | <b><u>Priority</u></b> |
| Barrier Free Access Upgrade | 2010               | \$17,000           | Medium                 |

**Updated:** FEB-10