RECAPP Facility Evaluation Report

Calgary School District #19



Rosscarrock Elementary School B2765A Calgary

Calgary - Rosscarrock Elementary School (B2765A)

Facility Details

Building Name: Rosscarrock Elementary Sch

Address: 1406 - 40 Street S. W.

Location: Calgary

Building Id: B2765A

Gross Area (sq. m): 3,330.10

Replacement Cost: \$9,346,000

Construction Year: 1960

Evaluation Details

Evaluation Company: ARUP DATTA ARCHITECT LTD.

Evaluation Date: October 17 2011

Evaluator Name: Paul Mowat

Total Maintenance Events Next 5 years: \$2,657,712 5 year Facility Condition Index (FCI): 28.44%

General Summary:

The Rosscarrock Elementary School is a split level concrete, masonry block and wood-framed structure with a partial basement, originally constructed in 1960. The original building has a total floor area of approximately 2,148 square metres.

A concrete and masonry block, two-storey addition was constructed in 1965 on the east side of the original building, which has a total floor area of approximately 1,182 square metres. Minor renovations to the building have performed. The total gross floor area is 3330 m².

The school is primarily used for educational purposes; however the southeast wing of the building is used by the Chinook Learning Centre.

Structural Summary:

Structural drawings were not available for review during the assessment, however the building's foundations likely consist of a poured concrete assembly with concrete foundation walls and strip footings. The structure consists of wood-framed and reinforced, poured concrete floors with wood-framed and load-bearing concrete/masonry block walls. The suspended second level in the 1965 addition of the building appears to have wood beams supported by wood columns and load-bearing masonry block walls. The suspended main floor slab above the basement level is wood-framed construction and reinforced concrete (above the tunnels).

The roof structural frame for the majority of the building is likely comprised of wood decking supported by wood beams and load-bearing masonry block walls.

No major work associated with the building structure was identified during the assessment.

Overall, the building's structural elements are in acceptable condition.

Envelope Summary:

Exterior cladding consists of a combination of clay brick, stucco and wood siding. All flat and sloped roof sections of the building consist of a modified bitumen membrane assembly. Main entrance doors are solid wood set in wood frames. Windows are fixed and operable with double-glazed (not sealed) units set in wood frames.

Major work recommended includes replacement of deficient sealant in construction joints. All other items identified can be handled under lifecycle replacement.

Overall, the building's envelope and exterior components are in acceptable condition.

Interior Summary:

Classrooms and corridors typically have resilient tile and sheet flooring. Carpeting is provided in the library principal and vice principal office and the Chinook Learning Centre offices, while the main boiler room has a painted/sealed concrete floor. Wood flooring is provided in the main gymnasium. The majority of the interior walls consist of painted gypsum board or painted masonry block. Acoustic ceiling tiles are provided throughout the building.

Major work recommended includes repainting of the concrete floor of the boiler room, as well as barrier-free upgrades throughout the building. All other items identified can be handled as a lifecycle replacement.

Overall, the building's interior finishes are in acceptable condition.

Mechanical Summary:

Rosscarrock Elementary School was originally constructed in 1960, with an addition in 1965. The majority of the

domestic water, sanitary, and storm water drainage piping is original to the construction of the building. There are backflow prevention devices installed on the boiler feed water, fire suppression, hot water heating and domestic water lines. The building has two domestic hot water heaters.

The building has a Liberty steam boiler. Steam is distributed to the original building for heating. The 1965 addition of the school is heated using a steam to water heat exchanger and hot water distribution system.

Bathrooms and kitchen areas throughout the building are equipped with independently operated roof-mounted exhaust fans. There is no air conditioning in the building. The boiler controls are pneumatic.

The building has a standpipe system complete with fire hoses for life safety.

The following are recommended actions for the next five years:

- Replace Drinking fountains
- Replace steam boiler with two hot water boilers
- Replace steam distribution system with a hot water distribution system
- Replace domestic hot water heater
- Install Steam humidifier
- Install BMCS to overlay onto pneumatic system.

With the above exceptions the building is in acceptable condition.

Electrical Summary:

Main distribution service is 400 Amp fused at 300 Amp. Sub panels located as required. Fire alarm system, emergency lighting and exit signage are 2009 install. Intrusion detection is functional. Communication equipment are operational.

Recommend the following:

- 1- Replace main distribution system.
- 2- Replace main panels.
- 3- Replace lighting system with T8 technology.
- 4- Install strobes in wash rooms.

Overall, the electrical systems in the building are in marginal 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*

Structural drawings were not available for review during the assessment. The building foundations presumably consist of cast-in-place concrete foundation walls and strip footings with conventional steel reinforcement.

<u>Rating</u>	<u>Installed</u>	Design Life	<u>Updated</u>
4 - Acceptable	1960	0	MAR-07

A1030 Slab on Grade*

The main floor of the Rosscarrock Elementary School is comprised of a cast-in-place concrete slab-on-grade which is presumed to have conventional steel reinforcement.

Rating	<u>Installed</u>	Design Life	Updated
4 - Acceptable	1960	0	MAR-07

A2020 Basement Walls (& Crawl Space)*

A partial basement includes the main boiler room and tunnels that run beneath the building. The basement walls are comprised of cast-in-place concrete.

Rating	<u>Installed</u>	Design Life	<u>Updated</u>
4 - Acceptable	1960	0	MAR-07

B1010.01 Floor Structural Frame (Building Frame)*

The structural frame of the original school building consists of wood and load-bearing masonry block walls. The 1965 addition has load-bearing masonry block or cast-in-place concrete walls which support roof and suspended floor structures.

<u>Rating</u>	Installed	Design Life	<u>Updated</u>
4 - Acceptable	1960	0	MAR-07

B1010.02 Structural Interior Walls Supporting Floors (or Roof)*

Interior walls throughout the building are comprised of wood partitions or load-bearing masonry block.

<u>Rating</u>	<u>Installed</u>	Design Life	<u>Updated</u>
4 - Acceptable	1960	0	MAR-07

B1010.03 Floor Decks, Slabs, and Toppings*

The suspended floor areas above the basement and heating system tunnels have a combination of both reinforced concrete slabs and wood frame floor construction.

Rating	Installed	Design Life	<u>Updated</u>
4 - Acceptable	1960	0	MAR-07

B1010.07 Exterior Stairs*

Exterior stairs located at the main entrance and gymnasium exit are reinforced concrete.

RatingInstalledDesign LifeUpdated3 - Marginal19600MAR-12

Event: Install handrails to gym exit stair BOE 4 Im

Concern:

Handrails missing from gymnasium exit stairs

Recommendation:
Install metal handrails
Consequences of Deferral:
Potential life safety issue

TypeYearCostPriorityCode Upgrade2012\$2,000Medium

Updated: MAR-12

B1010.09 Floor Construction Fireproofing*

Gypsum board to underside of second floor structure.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

B1010.10 Floor Construction Firestopping*

Voids and gaps around mechanical and electrical through-slab conduit penetrations are sealed with a fire rated sealant.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

B1020.01 Roof Structural Frame*

The roof structural frame for the original and 1965 addition to the building is reported to be wood decking supported by wood beams and load bearing interior and exterior walls.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

B1020.04 Canopies*

An exterior canopy located at the west entrance of the building is comprised of wood decking and wood joists. The canopy is supported by the load-bearing masonry block walls where it abuts the school structure.

B1020.06 Roof Construction Fireproofing*

Gypsum board to underside of structure.

Rating	<u>Installed</u>	Design Life	<u>Updated</u>
4 - Acceptable	1960	0	MAR-12

S2 ENVELOPE

B2010.01.02.01 Brick Masonry: Ext. Wall Skin*

Clay brick veneer is provided on all sides of the building, making up approximately 40 per cent of the cladding.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-07

B2010.01.06.04 Wood Siding**

Wood siding is generally provided on the lower portions of all sides of the building.

RatingInstalledDesign LifeUpdated2 - Poor196040MAR-12

Event: Replace wood siding with metal siding BOE 600

<u>m2</u>

Concern:

The majority of the wood siding was exhibiting peeling of the painted surface, and general weather related deterioration.

Recommendation:

Replace the wood siding around the perimeter of the building with metal siding

Consequences of Deferral:

Further deterioration of the substrate, which could impact the integrity of the building envelope; loss of aesthetic appeal.

TypeYearCostPriorityFailure Replacement2013\$198,000Medium

Updated: MAR-12

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

The majority of the building exterior is clad with a cementitious stucco finish.

RatingInstalledDesign LifeUpdated3 - Marginal19600MAR-12

Event: Repair Gaps in Stucco BOE 20 m2

Concern:

Localized gaps between stucco and flashing and other cladding materials were observed.

Recommendation:

Repair gaps in the building envelope.

Consequences of Deferral:

Reduced integrity of the building envelope, leading to possible moisture ingress.

 Type
 Year
 Cost
 Priority

 Repair
 2012
 \$7,000
 Low

Updated: MAR-12

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

Caulking (approximately 1,500 I. M.) is provided in control joints and between cladding and interfaces between cladding and doors/windows. The caulking is estimated to be at least 20 years old.

RatingInstalledDesign LifeUpdated3 - Marginal198520MAR-12

Event: Replace Exterior Caulking BOE 1500 Im

Concern:

Exterior caulking is failing around windows, doors and

cladding

Recommendation:

Replace exterior caulkign

Consequences of Deferral:

Continued deterioration and potential of moisture penetration

and damage to building envelope

TypeYearCostPriorityFailure Replacement2013\$35,000Medium

Updated: MAR-12

B2010.01.13 Paints (& Stains): Ext. Wall**

Wood siding, infill plywood to windows, soffits and doors are painted. Wood siding and plywood infill to windows is in poor condition. Refer to B2020.01.01.05 for window panel replacement and B2010.01.06.04 for replacement of wood siding.

RatingInstalledDesign LifeUpdated4 - Acceptable196015MAR-12

Event: Paint exterior soffits, lower wall, and doors BOE

276 m2

TypeYearCostPriorityLifecycle Replacement2015\$9,000Unassigned

Updated: MAR-12

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

Lower portion of building exterior walls are cast-in-place concrete.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

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

Exterior back-up walls are generally comprised of load-bearing masonry block walls.

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

The school wall assemblies are presumably equipped with a vapor retarder and insulation. It is unlikely that an air barrier would have been provided for a school of this vintage. The type and extent of materials used in the wall cavities is unknown.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

B2010.06 Exterior Louvers, Grilles, and Screens*

Exterior metal louvers on the west facade of the 1965 addition, wire mesh to some exterior windows for impact protection, wire mesh screen to the entrance canopy to deter climbing.

Rating Installed Design Life Updated 4 - Acceptable 1965 0 MAR-12

B2010.09 Exterior Soffits*

The soffits around the roof perimeters consist of painted, cementitious stucco finish to match the exterior walls.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-07

B2020.01.01.05 Wood Windows (Glass & Frame)**

The majority of the exterior windows on the school perimeter are comprised of fixed and operable, single-glazed units set in painted wood frames and portions of the windows have plywood infill panels.

RatingInstalledDesign LifeUpdated2 - Poor196035MAR-12

Event: Replace the exterior windows including frames BOE 180 m2 plus assumed lead paint removal

Concern:

Window frames and infill panels rotted, delaminated and paint peeled and faded

Recommendation:

Replace windows and panels with sealed glazing and insulated panels in aluminum frames

Consequences of Deferral:

Continued deterioration of window systems

TypeYearCostPriorityFailure Replacement2013\$396,000Medium

B2030.01.10 Wood Entrance Door**

Exterior doors are painted wood set in wood frames with glazed sidelight and transoms.

RatingInstalledDesign LifeUpdated4 - Acceptable196030MAR-12

Event: Replace Exterior Wood Doors, frames and glazing

BOE 6 doors, 48 m²

TypeYearCostPriorityLifecycle Replacement2015\$72,600Unassigned

Updated: MAR-12

B2030.02 Exterior Utility Doors** - 1960 Section

Wood door and frame exit door from gymnasium.

RatingInstalledDesign LifeUpdated4 - Acceptable196040MAR-12

Event: Replace Utility Door BOE 1 door

TypeYearCostPriorityLifecycle Replacement2015\$2,500Unassigned

Updated: MAR-12

B3010.01 Deck Vapour Retarder and Insulation*

The building's flat roof assemblies are presumably equipped with a deck vapor retarder and insulation with roof membrane replacement.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

B3010.04.04 Modified Bituminous Membrane Roofing (SBS)** - 2008

All roof sections of the original building replaced with a SBS membrane assembly.

RatingInstalledDesign LifeUpdated5 - Good200825MAR-12

Event: Replace SBS roofing membrane BOE 2450 m2

TypeYearCostPriorityLifecycle Replacement2033\$416,500Unassigned

Updated: MAR-12

B3010.04.04 Modified Bituminous Membrane Roofing (SBS)** - 1991

Roof of the 1965 addition re-roofed with SBS.

RatingInstalledDesign LifeUpdated4 - Acceptable199125MAR-12

Event: Replace SBS Roofing BOE 755 m2

TypeYearCostPriorityLifecycle Replacement2016\$129,000Unassigned

Updated: MAR-12

B3010.08.02 Metal Gutters and Downspouts**

Metal gutter to the entrance canopy.

RatingInstalledDesign LifeUpdated4 - Acceptable196030MAR-12

Event: Replace gutter and RWL BOE 50 Im

TypeYearCostPriorityLifecycle Replacement2015\$2,000Unassigned

Updated: MAR-12

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

Roof hatch and painted metal ladders.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

S3 INTERIOR

C1010.01 Interior Fixed Partitions*

Interior fixed partitions in the building are comprised of load-bearing masonry block walls and gypsum board on metalstud partitions.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-07

C1010.02 Interior Demountable Partitions*

Demountable panel partitions divide several classrooms located on the main floor.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-07

C1010.03 Interior Operable Folding Panel Partitions**

Folding panel partition in arts room.

RatingInstalledDesign LifeUpdated4 - Acceptable196030MAR-12

Event: Replace Interior Operable Folding Panel Partition

BOE 35 m2

TypeYearCostPriorityLifecycle Replacement2015\$38,500Unassigned

Updated: MAR-12

C1010.05 Interior Windows*

Interior window in administration area and in one room in the Chinook Learning area.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

C1010.06 Interior Glazed Partitions and Storefronts*

Glazed transoms and sidelight to interior vestibule doors.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

C1010.07 Interior Partition Firestopping*

Interior partitions that are fire walls or fire separations are generally constructed with masonry block. Penetrations smoke tight.

C1020.01 Interior Swinging Doors (& Hardware)*

Interior doors on classrooms and other areas within the original 1960 building and the 1965 addition (approximately 70) generally consist of solid core wood doors set in painted wood frames.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

C1020.03 Interior Fire Doors*

Interior fire doors consist of the original painted wood doors set in painted wood frames.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-07

C1030.01 Visual Display Boards**

A combination of blackboards and whiteboards are generally provided in each classroom. Fixed blackboards are assumed to be original to the construction of the school.

RatingInstalledDesign LifeUpdated4 - Acceptable196020MAR-12

Event: Replace visual display boards BOE 20 black, 15

white and 66 tackboards

TypeYearCostPriorityLifecycle Replacement2015\$62,000Unassigned

Updated: MAR-12

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

Pre-finished metal toilet partitions are provided in each student washroom in the building.

RatingInstalledDesign LifeUpdated4 - Acceptable196030MAR-12

Event: Replace Washroom Partitions BOE 18 stalls

TypeYearCostPriorityLifecycle Replacement2015\$21,600Unassigned

Updated: MAR-12

C1030.08 Interior Identifying Devices*

Metal room numbers are mounted on the doors of the classrooms.

C1030.12 Storage Shelving*

Metal shelving in some classrooms.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

C1030.14 Toilet, Bath, and Laundry Accessories*

Typical to washrooms, wall mounted soap dispensers, wall mounted paper towel dispensers, individual mirrors, roll toilet paper dispensers, garbage cans.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

C2010 Stair Construction* - Concrete

Staircases leading to the lower level of the building are constructed of cast-in-place concrete.

RatingInstalledDesign LifeUpdated4 - Acceptable19650MAR-12

C2010 Stair Construction* - wood

Staircases in the gymnasium are wood.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

C2020.05 Resilient Stair Finishes**

Staircases leading to the lower level of the school are finished with rubber treads and sheet vinyl risers.

RatingInstalledDesign LifeUpdated4 - Acceptable198020MAR-12

Event: Replace the Resilient Stair finishes BOE 20 m2

TypeYearCostPriorityLifecycle Replacement2015\$2,000Unassigned

Updated: MAR-12

C2020.08 Stair Railings and Balustrades*

Stair handrails are typically comprised of base-mounted, painted metal.

C2030 Interior Ramps*

A wood-framed ramp provides access between the floor levels in the 1965 addition of the building. The ramp is finished with a sheet vinyl type floor. The ramp railing is a base mounted, painted metal railing.

RatingInstalledDesign LifeUpdated4 - Acceptable1965100MAR-12

C3010.06 Tile Wall Finishes**

Ceramic wall tile at the urinals.

Rating Installed Design Life Updated 4 - Acceptable 1960 40 MAR-12

Event: Replace wall tiles at urinals BOE 2 m2

TypeYearCostPriorityLifecycle Replacement2015\$2,000Unassigned

Updated: MAR-12

C3010.09 Acoustical Wall Treatment**

Acoustical wall panels in the gymnasium.

RatingInstalledDesign LifeUpdated4 - Acceptable196020MAR-12

Event: Replace Acoustical Wall panels BOE 30 m2

TypeYearCostPriorityLifecycle Replacement2015\$7,000Unassigned

Updated: MAR-12

C3010.11 Interior Wall Painting*

Masonry block and gypsum board walls (approximately 7,300 sq.m.) throughout the school have a painted finish. Painted gypsum board walls are generally provided in the main administration areas, as well as in a number of classrooms.

RatingInstalledDesign LifeUpdated4 - Acceptable20000MAR-12

C3010.12 Wall Coverings*

The original south corridor of the building has polished wood fibreboard wainscotting, approximately 75 sq.m. In area.

C3020.01.02 Painted Concrete Floor Finishes*

Painted concrete floors are provided in the main mechanical room.

RatingInstalledDesign LifeUpdated3 - Marginal19900MAR-12

Event: Replace Mechanical Room Floor Paint BOE 17 m2

Concern:

Painted concrete floors in the boiler room were observed have peeling and deteriorated finishes.

Recommendation:

Repaint concrete floors in the boiler room as necessary.

Consequences of Deferral: Loss of aesthetic appeal.

TypeYearCostPriorityFailure Replacement2013\$2,000Low

Updated: MAR-12

C3020.02 Tile Floor Finishes** - Mosaic

Mosaic tile in washrooms.

RatingInstalledDesign LifeUpdated4 - Acceptable196050MAR-12

Event: Replace mosaic tile BOE 4 m2

TypeYearCostPriorityLifecycle Replacement2015\$2,000Unassigned

Updated: MAR-12

C3020.02 Tile Floor Finishes** - Quarry tile

Quarry tile flooring is provided in washrooms and the entrance vestibules.

RatingInstalledDesign LifeUpdated4 - Acceptable196050MAR-12

Event: Replace Tile Flooring BOE 86 m2

TypeYearCostPriorityLifecycle Replacement2015\$22,000Unassigned

C3020.03 Terrazzo Floor Finishes*

Terrazzo flooring is generally provided in the science room and adjacent corridor.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-07

C3020.04 Wood Flooring** - Gymnasium

Hardwood flooring is provided in the main gymnasium which is approximately 262 sq.m. In area.

RatingInstalledDesign LifeUpdated4 - Acceptable196030MAR-12

Event: Replace the Gymnasium Hardwood Flooring BOE

<u> 262</u>

TypeYearCostPriorityLifecycle Replacement2015\$66,000Unassigned

Updated: MAR-12

C3020.04 Wood Flooring** - Stage

The stage, which adjacent to the Gymnasium is finished with approximately 57 sq.m. Of hardwood flooring.

RatingInstalledDesign LifeUpdated3 - Marginal196030MAR-12

Event: Refinish the Stage's Hardwood Flooring 57 m2

Concern:

The exposed hardwood surfaces were observed to be heavily scuffed and scratched. No lifting or separation of the hardwood flooring was noted during the assessment.

Recommendation:

Refinish the exposed hardwood on the edge of the gymnasium stage.

Consequences of Deferral:

Loss of aesthetic appeal and ongoing deterioration from continued use.

TypeYearCostPriorityRepair2013\$9,000Low

Updated: MAR-12

Event: Replace Stage Flooring BOE 57 m2

TypeYearCostPriorityLifecycle Replacement2015\$15,000Unassigned

C3020.07 Resilient Flooring** - 1960

Corridors, music room, staff washrooms in the original portion of the building, are generally finished with 9 x 9 vinyl tile flooring. Refer to K4030.01 Asbestos*

RatingInstalledDesign LifeUpdated4 - Acceptable196020MAR-12

Event: Replace 9 X 9 Floor Tile BOE 560 m2 allow for haz

mat removal

TypeYearCostPriorityLifecycle Replacement2015\$56,000Unassigned

Updated: MAR-12

C3020.07 Resilient Flooring** - 1980

Approximately 400 sq. M. of sheet vinyl flooring is provided in the main administration area and corridors of the 1965 addition.

RatingInstalledDesign LifeUpdated4 - Acceptable198020MAR-12

Event: Replace the Sheet Vinyl Flooring BOE 400 m2

TypeYearCostPriorityLifecycle Replacement2015\$35,000Unassigned

Updated: MAR-12

C3020.07 Resilient Flooring** - 1990

Classrooms and the 1965 addition corridors, are generally finished with 12 x 12 vinyl floor tiles.

RatingInstalledDesign LifeUpdated4 - Acceptable199020MAR-12

Event: Replace 12 X 12 Vinyl Floor Tile BOE 395 m2

TypeYearCostPriorityLifecycle Replacement2015\$22,000Unassigned

C3020.07 Resilient Flooring** - 2007

Resilient sheet flooring in some classroom in 1965 addition and one in original building.

RatingInstalledDesign LifeUpdated4 - Acceptable200720MAR-12

Event: Replace sheet flooring BOE 525 m2

TypeYearCostPriorityLifecycle Replacement2027\$46,200Unassigned

Updated: MAR-12

C3020.08 Carpet Flooring**

Carpet flooring is provided in the library, rooms 1038 and 1039, and in the Chinook College offices. Carpet in Chinook College offices is worn.

RatingInstalledDesign LifeUpdated4 - Acceptable200015MAR-12

Event: Replace Carpet Flooring BOE 695 m2

TypeYearCostPriorityLifecycle Replacement2015\$69,500Unassigned

Updated: MAR-12

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

Acoustic tile in corridor and stair in 1965 addition and one room in the Chinook College area.

RatingInstalledDesign LifeUpdated4 - Acceptable200625MAR-12

Event: Replace Acoustic Ceiling tile BOE 370 m2

TypeYearCostPriorityLifecycle Replacement2031\$17,000Unassigned

Updated: MAR-12

C3030.07 Interior Ceiling Painting*

Painted gypsum board ceilings are provided in the student washrooms and storage.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

C3030.09 Other Ceiling Finishes* - Acoustic ceiling tiles

The majority of the classrooms, corridors and administration areas have a acoustic ceiling tiles.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

C3030.09 Other Ceiling Finishes* - Textured ceilings

Textured ceilings are provided in the Girls Shelter and science room.

<u>Rating</u>	<u>Installed</u>	Design Life	<u>Updated</u>
4 - Acceptable	1960	0	MAR-12

S4 MECHANICAL

D2010.04 Sinks** - 1960

There are 10 enameled steel sinks and 4 janitor sinks located throughout the building..

Installed Design Life Updated Rating 4 - Acceptable MAR-12 1960 30

Event: Replace sinks BOE (14)

> **Priority Type** <u>Year</u> Cost Lifecycle Replacement 2015 \$13,800 Unassigned

Updated: MAR-12

D2010.04 Sinks** - 1990

There are 9 stainless steel sinks located throughout the facility.

Rating Installed Design Life Updated 4 - Acceptable MAR-12 1990 30

Event: Replace Sinks (9)

> Cost **Priority Type** Year Lifecycle Replacement 2020 Unassigned \$13,500

D2010.08 Drinking Fountains/Coolers**

There are 9 non-refrigerated vitreous china drinking fountains throughout the building.

RatingInstalledDesign LifeUpdated3 - Marginal196035MAR-12

Event: Replace drinking fountains BOE (2)

Concern:

Two drinking fountains are not in use.

Recommendation:

Replace two drinking fountains. **Consequences of Deferral:**Further inconvenience for users.

TypeYearCostPriorityFailure Replacement2012\$3,293Medium

Updated: MAR-12

Event: Replace drinking fountains BOE (9)

TypeYearCostPriorityLifecycle Replacement2015\$14,500Unassigned

Updated: MAR-12

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

There are vitreous china water closets, lavatories and urinals located throughout the facility.

RatingInstalledDesign LifeUpdated4 - Acceptable196035MAR-12

Event: Replace washroom fixtures BOE (19) WC, (17) Lav,

(9) Urnl

TypeYearCostPriorityLifecycle Replacement2015\$73,200Unassigned

Updated: MAR-12

D2020.01.01 Pipes and Tubes: Domestic Water*

Domestic piping is copper throughout the building, and original to construction or added as required.

D2020.01.02 Valves: Domestic Water**

Hot and Cold isolation valves located throughout the facility.

RatingInstalledDesign LifeUpdated4 - Acceptable196040MAR-12

Event: Replace Valves BOE (15)

TypeYearCostPriorityLifecycle Replacement2015\$18,900Unassigned

Updated: MAR-12

D2020.01.03 Piping Specialties (Backflow Preventers)** - 1996

Backflow prevention devices are installed on main water and boiler feed.

RatingInstalledDesign LifeUpdated4 - Acceptable199620MAR-12

Event: Replace Backflow Preventors BOE (3)

TypeYearCostPriorityLifecycle Replacement2016\$10,100Unassigned

Updated: MAR-12

D2020.01.03 Piping Specialties (Backflow Preventers)** - 2002

Backflow prevention devices are installed on fire suppression and hot water heating lines.

RatingInstalledDesign LifeUpdated4 - Acceptable200220MAR-12

Event: Replace backflow preventers BOE (2)

TypeYearCostPriorityLifecycle Replacement2022\$6,700Unassigned

Updated: MAR-12

D2020.02.02 Plumbing Pumps: Domestic Water**

Recirculation pump on hot water system.

RatingInstalledDesign LifeUpdated4 - Acceptable200720MAR-12

Event: Replace Pumps BOE (1)

TypeYearCostPriorityLifecycle Replacement2027\$1,300Unassigned

Updated: MAR-12

D2020.02.06 Domestic Water Heaters** - 1991

Domestic hot water is provided by natural gas fired water heater. The Giant has a 40 gallon capacity with an input of 36,000 Btuh.

RatingInstalledDesign LifeUpdated3 - Marginal199120MAR-12

Event: Replace Domestic Water heater (1)

Concern:

Unit is overdue for replacement and highly likely to leak.

Recommendation:

Replace hot water heater.

TypeYearCostPriorityFailure Replacement2012\$2,000Low

Updated: MAR-12

D2020.02.06 Domestic Water Heaters** - 2008

Domestic hot water is provided by 2 natural gas fired water heaters. The John Wood has a capacity of 151L with an input of 36,000 Btuh.

RatingInstalledDesign LifeUpdated4 - Acceptable200820MAR-12

Event: Replace Domestic Water Heaters BOE (1)

TypeYearCostPriorityLifecycle Replacement2028\$2,000Unassigned

Updated: MAR-12

D2020.03 Water Supply Insulation: Domestic*

Insulation on hot and cold water.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

D2030.01 Waste and Vent Piping*

Waste and vent piping is cast iron and original to construction.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

D2030.02.04 Floor Drains*

Brass floor drains located in washrooms and other service areas.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

D2040.01 Rain Water Drainage Piping Systems*

Rain water piping is reportedly cast iron and original to construction.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-07

D2040.02.04 Roof Drains*

The roof incorporates roof drains which are each fitted with gravel/debris strainers.

RatingInstalledDesign LifeUpdated4 - Acceptable20060MAR-12

D3010.02 Gas Supply Systems*

Natural gas is supplied to the north side of the building to feed the boiler, and hot water heaters.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-07

D3020.01.01 Heating Boilers & Accessories: Steam**

Primary heating for the building is provided by a Liberty steam boiler with an approximate rated heating capacity of 3,500 MBH.

RatingInstalledDesign LifeUpdated3 - Marginal196035MAR-12

Event: Replace boiler BOE (2)

Concern:

Boiler has far exceeded life expectancy and failure will be very costly.

Recommendation:

Replace with two hot water boilers and convert all system to hot water.

TypeYearCostPriorityFailure Replacement2012\$99,600Medium

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

The boilers have an original brick chimney.

RatingInstalledDesign LifeUpdated3 - Marginal196035MAR-12

Event: Install new vent BOE (12m)

Concern:

Venting will need to conform to new boilers.

Recommendation: Install new venting.

TypeYearCostPriorityFailure Replacement2012\$8,600Medium

Updated: MAR-12

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

Pot feeders to add chemicals to system.

RatingInstalledDesign LifeUpdated4 - Acceptable19650MAR-12

D3040.01.01 Air Handling Units: Air Distribution**

The air handling system is compartmental and includes swamp coolers, supply and return fans, heating coils, a mixing chamber and make-up air.

RatingInstalledDesign LifeUpdated4 - Acceptable196030MAR-12

Event: Replace air handling system BOE (1)

TypeYearCostPriorityLifecycle Replacement2015\$97,900Unassigned

Updated: MAR-12

D3040.01.03 Air Cleaning Devices: Air Distribution*

Filters located in air handler.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

D3040.01.04 Ducts: Air Distribution*

Air is distributed through ceiling-mounted sheet metal supply ducts and in floor ductwork.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

D3040.01.07 Air Outlets & Inlets: Air Distribution*

Ceiling or wall mounted grilles and floor mounted grilles.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

D3040.02 Steam Distribution Systems: Piping/Pumps**

Steam is distributed through steel piping to terminal devices (radiators, unit ventilators and unit heaters to heat the original sections of the building.

RatingInstalledDesign LifeUpdated3 - Marginal196040MAR-12

Event: Replace steam distribution system BOE (2148m2)

Concern:

If boiler is replaced with hot water boiler, steam distribution will need to be removed.

Recommendation:

Replace steam components with hot water.

TypeYearCostPriorityFailure Replacement2012\$199,800Medium

Updated: MAR-12

D3040.03.01 Hot Water Distribution Systems**

Hot water from the boilers is distributed through steel piping to convectors, fan coils and unit heaters throughout the addition of the building.

RatingInstalledDesign LifeUpdated4 - Acceptable196540MAR-12

Event: Replace hot water distribution system BOE

(1182m2)

TypeYearCostPriorityLifecycle Replacement2015\$110,000Unassigned

D3040.04.01 Fans: Exhaust**

General building exhaust (including washroom and kitchen areas) is provided by a variety of roof mounted exhaust fans.

RatingInstalledDesign LifeUpdated4 - Acceptable196030MAR-12

Event: Replace exhaust fans BOE (3)

TypeYearCostPriorityLifecycle Replacement2015\$36,000Unassigned

Updated: MAR-12

D3040.04.03 Ducts: Exhaust*

Ductwork to washrooms and other service areas.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

D3040.04.05 Air Outlets and Inlets: Exhaust*

Grilles located in washrooms and other service areas.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

D3040.05 Heat Exchangers**

A shell and tube heat exchanger is located in the boiler room to convert heat from steam to hot water for the 1965 addition of the building. This unit could not be removed if system is converted to hot water.

RatingInstalledDesign LifeUpdated4 - Acceptable196530MAR-12

Event: Replace heat exchanger BOE (1)

TypeYearCostPriorityLifecycle Replacement2015\$15,900Unassigned

D3050.03 Humidifiers**

Swamp coolers are the only means of humidification.

RatingInstalledDesign LifeUpdated3 - Marginal196025MAR-12

Event: Install Steam Humidifiers BOE (1)

Concern:

Swamp coolers are not effective at humidifying.

Recommendation: Install steam humidifiers.

TypeYearCostPriorityFailure Replacement2012\$12,500Low

Updated: MAR-12

D3050.05.01 Convectors**

Primary heating for classrooms (addition), and offices is provided by wall mounted convection heaters connected to the hot water distribution system.

RatingInstalledDesign LifeUpdated4 - Acceptable196540MAR-12

Event: Replace convectors BOE (1,182m2)

TypeYearCostPriorityLifecycle Replacement2015\$55,100Unassigned

Updated: MAR-12

D3050.05.02 Fan Coil Units**

Fan coil units connected to the heat distribution system provide heating to building entrances (original).

RatingInstalledDesign LifeUpdated4 - Acceptable196030MAR-12

Event: Replace fan coil units BOE (1)

TypeYearCostPriorityLifecycle Replacement2015\$5,800Unassigned

Updated: MAR-12

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D3050.05.03 Finned Tube Radiation**

Fin tube radiation is located in entrances and portions of the 1965 installation.

RatingInstalledDesign LifeUpdated4 - Acceptable196540MAR-12

Event: Replace Finned Tube Radiation BOE (500m2)

TypeYearCostPriorityLifecycle Replacement2015\$23,300Unassigned

Updated: MAR-12

D3050.05.07 Unit Ventilators**

Primary heating for classrooms (original building), and the gymnasium is provided by wall mounted unit ventilators connected to the steam system.

RatingInstalledDesign LifeUpdated4 - Acceptable196030MAR-12

Event: Replace unit ventilators BOE (14)

TypeYearCostPriorityLifecycle Replacement2015\$138,200Unassigned

Updated: MAR-12

D3060.02.01 Electric and Electronic Controls**

To operate unit ventilators and other similar equipment.

RatingInstalledDesign LifeUpdated4 - Acceptable196030MAR-12

Event: Replace Electric and Electronic Controls BOE

(3,300m2/gfa)

TypeYearCostPriorityLifecycle Replacement2015\$5,600Unassigned

D3060.02.02 Pneumatic Controls**

Building controls are pneumatic and control air is supplied by a Quincy compressor.

RatingInstalledDesign LifeUpdated4 - Acceptable196040MAR-12

Event: Install BMCS BOE (3,300m2/gfa)

Concern:

Facility has no provision for energy management or

monitoring.

Recommendation:

Install BMCS.

TypeYearCostPriorityEnergy Efficiency Upgrade2012\$83,600Low

Updated: MAR-12

Event: Replace pneumatic controls system BOE

(3,300m2/gfa)

TypeYearCostPriorityLifecycle Replacement2015\$19,400Unassigned

Updated: MAR-12

D4020 Standpipes*

Standpipes are blackened steel and are original to the construction of the building.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

D4030.01 Fire Extinguisher, Cabinets and Accessories*

Fire extinguishers and hoses are housed in cabinets in some locations, and are exposed in other locations throughout the building.

RatingInstalledDesign LifeUpdated4 - Acceptable19650MAR-12

S5 ELECTRICAL

D5010.01.02 Main Electrical Transformers (Utility Owned)*

Pad mounted transformer located on south side of school. Owned by ENMAX.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

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

400 Amp FPE MDP fused at 300 Amp 120 / 208 volt three phase. MDP is 100% full.

RatingInstalledDesign LifeUpdated3 - Marginal196040MAR-12

Event: Replace 400 Amp mai switch gear

Concern:

Equipment have exceeded it theoretical life. Spare parts not available.

Recommendation:

Replace 400 Amp three phase MDP and main breaker.

Consequences of Deferral:

Possible loss of power due to equipment failure.

TypeYearCostPriorityFailure Replacement2012\$26,344Medium

Updated: MAR-12

D5010.05 Electrical Branch Circuit Panelboards (Secondary Distribution)** - 1960

Six FPE sub panels located throughout the school.

RatingInstalledDesign LifeUpdated3 - Marginal196030MAR-12

Event: Replace six panels and related breakers.

Concern:

Equipment have exceeded its theoretical life. Spare parts not available.

Recommendation:

Replace six panels and related breakers.

Consequences of Deferral:

Possible loss of power due to equipment failure.

TypeYearCostPriorityFailure Replacement2012\$18,000Medium

D5010.05 Electrical Branch Circuit Panelboards (Secondary Distribution)** - 1997

Four Cutler Hammer and Square D located as required. 80% full.

RatingInstalledDesign LifeUpdated4 - Acceptable199730MAR-12

Event: Replace four panels and related breakers.

TypeYearCostPriorityLifecycle Replacement2027\$12,000Unassigned

Updated: MAR-12

D5010.07.02 Motor Starters and Accessories**

Five Allen Bradley and Siemens starters located as required.

RatingInstalledDesign LifeUpdated4 - Acceptable199730MAR-12

Event: Replace five motor sterters.

TypeYearCostPriorityLifecycle Replacement2027\$2,500Unassigned

Updated: MAR-12

D5020.01 Electrical Branch Wiring*

Wiring in EMT conduit. AC90 flex cabling used for final connection to motors and light fixtures.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

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

Line voltage switching.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

D5020.02.02.02 Interior Fluorescent Fixtures**

T12 light fixtures of different styles located throughout the school.

RatingInstalledDesign LifeUpdated3 - Marginal198530MAR-12

Event: Replace T12 light fixtures with T8 technology in

3330 m2/ gfa

Concern:

Obsolete equipment. High maintenance and operating costs.

Recommendation:

Replace T12 light fixtures with T8 units throughout the school

Consequences of Deferral:

High operating and maintenance costs.

TypeYearCostPriorityFailure Replacement2012\$182,220Medium

Updated: MAR-12

D5020.02.03.02 Emergency Lighting Battery Packs**

Lumacell and Emergi-lite battery packs and remote heads.

RatingInstalledDesign LifeUpdated5 - Good200920MAR-12

Event: Replace emergency lighting for 3330 m2/gfa.

TypeYearCostPriorityLifecycle Replacement2029\$19,759Unassigned

Updated: MAR-12

D5020.02.03.03 Exit Signs*

LED exit signs located as required.

RatingInstalledDesign LifeUpdated5 - Good20090MAR-12

D5020.03.01.04 Exterior H.P. Sodium Fixtures*

Wall packs located around perimeter of school.

RatingInstalledDesign LifeUpdated4 - Acceptable19850MAR-12

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

Photo cell and time clock controlled.

RatingInstalledDesign LifeUpdated4 - Acceptable19850MAR-12

D5030.01 Detection and Fire Alarm**

Notifier 320C 14 zone fire alarm control panel. Horn strobes are installed. Detection and initiation devices located as required.

Rating Installed Design Life Updated 5 - Good 2009 25 MAR-12

Event: Install six strobes in wash rooms

Concern:

Wash rooms do not have signal notification.

Recommendation:

Install six strobes in wash rooms. Consequences of Deferral:

Possible loss of signal notification in case of fire alarm.

TypeYearCostPriorityCode Upgrade2012\$3,000Medium

Updated: MAR-12

Event: Replace fire alarm system for 3330 m2/gfa

TypeYearCostPriorityLifecycle Replacement2034\$96,570Unassigned

Updated: MAR-12

D5030.02.02 Intrusion Detection**

The building is equipped with a Silent Knight remotely supervised security system, which is connected to motion detectors throughout the corridors.

RatingInstalledDesign LifeUpdated4 - Acceptable199825MAR-12

Event: Replace intrusion detection system in 3330 m2/gfa

TypeYearCostPriorityLifecycle Replacement2023\$33,448Unassigned

Updated: MAR-12

D5030.03 Clock and Program Systems*

The building is equipped with a Simplex master clock system.

RatingInstalledDesign LifeUpdated4 - Acceptable19980MAR-12

D5030.04.01 Telephone Systems*

Nortel Network telephone system. Handsets in classrooms. Interlocked to public address system.

RatingInstalledDesign LifeUpdated4 - Acceptable19950MAR-12

D5030.04.05 Local Area Network Systems*

WIF and Supernet in school. Cat 5 cabling. 3 Amp hubs and 3 Cisco and Nortel switches.

RatingInstalledDesign LifeUpdated4 - Acceptable20020MAR-12

D5030.05 Public Address and Music Systems**

Bogen amplifier with 50 channels, radio, tape and CD players. Interlocked to telephone system.

RatingInstalledDesign LifeUpdated4 - Acceptable198020MAR-12

Event: Replace PA System for 3330 m2/gfa

TypeYearCostPriorityLifecycle Replacement2015\$10,855Unassigned

Updated: MAR-12

S6 EQUIPMENT, FURNISHINGS AND SPECIAL CONSTRUCTION

E1090.04 Residential Equipment*

Residential type equipment in use in the building includes small fridges as well as stoves and dishwashers in the teachers lounge.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-07

E1090.07 Athletic, Recreational, and Therapeutic Equipment*

A wall mounted climbing apparatus is located on the north side of the gymnasium.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-07

E2010.02 Fixed Casework**

Fixed wooden casework with laminated finishes are typically provided in each classroom in the school. Staff room cabinets, storage room shelving, wood dado to corridors.

RatingInstalledDesign LifeUpdated4 - Acceptable196035MAR-12

Event: Replace Casework BOE 3000 m2/gfa

TypeYearCostPriorityLifecycle Replacement2015\$264,000Unassigned

Updated: MAR-12

E2010.03.01 Blinds**

Frame-mounted operable blinds are provided in front of windows, typically in each classroom and office area.

RatingInstalledDesign LifeUpdated4 - Acceptable196030MAR-12

Event: Replace Blinds BOE 90 m2

TypeYearCostPriorityLifecycle Replacement2015\$9,200Unassigned

E2010.03.06 Curtains and Drapes** - stage curtains

Manually-operated, curtains and drapes are provided on the gymnasium stage.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

Event: Replace Stage Curtains BOE 90 m2

TypeYearCostPriorityLifecycle Replacement2015\$40,000Unassigned

Updated: MAR-12

E2020.02.03 Furniture*

Moveable desks, chairs and tables are typically provided in each classroom, including the main office.

Rating	<u>Installed</u>	Design Life	<u>Updated</u>
4 - Acceptable	1960	0	MAR-12

S8 SPECIAL ASSESSMENT

K4010.01 Barrier Free Route: Parking to Entrance*

No handicapped parking stalls or signage is provided in front of the school or in the paved parking area north of the building.

RatingInstalledDesign LifeUpdated2 - Poor19600MAR-12

Event: Provide Handicapped Parking BOE i BF stall and

<u>signage</u>

Concern:

Only standard parking stalls are provided along the northeast corner of the property for staff usage. No curb cut-outs are provided along municipal sidewalks.

Recommendation:

Provide one barrier-free parking stalls complete with signage in the area closest to the northwest entrance of the school.

Consequences of Deferral:

Non-compliance with current barrier-free standards and poor accessibility for handicapped persons.

<u>Type</u>	<u>Year</u>	Cost	Priority
Barrier Free Access Upgrade	2012	\$2,000	Low

Updated: MAR-12

K4010.02 Barrier Free Entrances*

Wheelchair accessibility into the building is provided by a wood-framed ramp at the west entrance.

Rating	<u>Installed</u>	Design Life	Updated
3 - Marginal	1960	0	MAR-12

Event: Install automatic door operators and ramp

handrails BOE 2 doors, handrail 8 lm

Concern:

All entrances to the school are manually-operated and provide poor accessibility for handicapped users. The ramp at the main entrance of the school has no handrails

Recommendation:

Install automated door-opener at the west main entrance and corresponding vestibule entrance. Install handrails to the existing ramp at the main entrance of the school.

Consequences of Deferral:

Non-compliance with current barrier-free standards and poor accessibility for handicapped persons.

TypeYearCostPriorityBarrier Free Access Upgrade2012\$29,000Low

Updated: MAR-12

K4010.03 Barrier Free Interior Circulation*

A ramp in the 1965 addition corridor provides wheelchair accessibility to the upper level of the building.

RatingInstalledDesign LifeUpdated3 - Marginal19600MAR-12

Event: Provide Interior Lifts (2 lifts)

Concern:

Access to the lower level of the school, or the gymnasium stage is not provided for wheelchair users or handicapped persons.

Recommendation:

Install barrier-free lifts on a staircase accessing the lower floor, and an additional lift to access the gymnasium stage.

Consequences of Deferral:

Non-compliance with current barrier-free standards and poor accessibility for handicapped persons.

TypeYearCostPriorityBarrier Free Access Upgrade2012\$36,000High

Updated: MAR-12

K4010.04 Barrier Free Washrooms*

None of the washrooms in the building are equipped to accommodate barrier-free usage.

Rating 2 - Poor 1960 Design Life Updated MAR-12

Event: Modify Two Washrooms for Barrier Free Usage

Concern:

Washrooms distributed throughout the building are not equipped with barrier-free stalls or accessories.

Recommendation:

Provide a uni-sex barrier-free washroom on each floor of the school, complete with appropriate signage, fixtures and accessories.

Consequences of Deferral:

Non-compliance with current barrier-free requirements and poor accessibility for handicapped persons.

TypeYearCostPriorityBarrier Free Access Upgrade2012\$30,000Medium

K4030.01 Asbestos*

Suspected asbestos-containing materials identified within the building include drywall joint compound, mechanical pipe insulation and pipe elbows, vinyl floor tiles and the acoustic ceiling tiles. Refer to C3020.07 Resilient Flooring** - 1960

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

K4030.02 PCBs*

Suspected PCB-containing equipment identified within the building include fluorescent light ballasts and other electrical/transformer equipment. Nothing observed or reported.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

K4030.04 Mould*

None observed or reported.

RatingInstalledDesign LifeUpdated4 - Acceptable19600MAR-12

K4030.07 Ozone Depleting Substances (CFC's, HCFC's, Halon)*

None observed or reported.

K5010.01 Site Documentation*

Prime Consultant; ARUP DATTA ARCHITECT LTD.

Year of Evaluation: 2011

Site description::

The school is located at the northwest corner of the property. The site features include a graveled parking lot to the northeast of the building and a grassed play field to the east and south of the building. There are concrete sidewalks to each building entrance. The landscaped areas are provided adjacent to the north and west sides of the building. Drainage on landscaped areas is provided by land infiltration and/or overland flow.

Storm water drains to the city from the parking lot and roof drains. Facility is connected to the city water and sewer system. All utilities enter the facility through underground lines The gas enters the facility at the north side meter room.

Power is underground fed from pad mounted transformer owned by the utility. Car receptacles are rail mounted. HPS light standards located over parking and play ground.

Rating				
4 -	Acceptable			

<u>Installed</u>	Design Life	Updated
2011	0	MAR-12

Rosscarrock School, 40 Street Southwest, Calgary, Alberta - Google Maps



Google site view

K5010.02 Building Documentation*

Prime Consultant; ARUP DATTA ARCHITECT LTD.

Year of Evaluation: 2011

Building area evaluated: 3330.1 m2

Building /building sections not evaluated: all areas reviewed

Anomalies regarding evaluation environment, drawings or areas evaluated: - a portion of the southeast wing of the building is used by the Chinook Learning Centre. At time of review the space was not being used.

The Rosscarrock Elementary School is a split level concrete, masonry block and wood-framed structure with a partial basement, originally constructed in 1960 (floor area 2,148.4 m2)

A concrete and masonry block, two-storey addition was constructed in 1965 on the east side of the original building (floor area 1,181.7 m2). Minor renovations to the building have been done.

Rating	<u>Installed</u>	Design Life	<u>Updated</u>
4 - Acceptable	2011	0	MAR-12



School front (north)