RECAPP Facility Evaluation Report



McNally Composite High School
B3215A
Edmonton

Edmonton - McNally Composite High School (B3215A)

Facility Details

Building Name: McNally Composite High Sci

Address: 8440 - 105 Avenue

Location: Edmonton

Building Id: B3215A Gross Area (sq. m): 0.00

Replacement Cost: \$20,933,552

Construction Year: 0

Evaluation Details

Evaluation Company: Alberta Infrastructure

Evaluation Date: December 1 2004

Evaluator Name: John Grassick

Total Maintenance Events Next 5 years: \$986,796 5 year Facility Condition Index (FCI): 4.71%

General Summary:

General Summary

Structural Summary:

McNally High School is a pre-cast concrete structure supported on footings. The structure of the school is generally in good condition, with an overall rating of 4.

There are some problems with cracking in various concrete block partition walls that are supported on the lower level slab on grade and cracking ceramic tile floor finish in the Boys change room. This distress is more cosmetic in nature and is associated with movement of the supporting slab resulting from changes in moisture content of the clay sub-grade.

There is one zone where footing settlement appears to be occuring. The south stairshaft at the junction of the original east wing and the Academic Addition requires underpinning.

Envelope Summary:

Building exterior is in good condition overall, however the exterior door and hardware are in need of replacement/upgrading.

Interior Summary:

Building interior finishes are in fair condition, most being original to the time of construction. Corridor ceilings, Gymnasium acoustics and washroom upgrades require improvements within the near future.

Mechanical Summary:

Generally, the mechanical systems have not been upgraded since installed in 1963 and 1967. However, the systems are still operating and appear to be serviceable.

Further evaluations of the hot water boilers, the air handling units and the chiller system are recommended. The need to upgrade, replace or remove these systems may result from evaluation.

It's recommended that new glycol systems, new steam humidification systems and a new DDC building management system be installed.

Existing janitor sinks, circular wash fountains and several radiation cabinets are in need of replacement.

Electrical Summary:

Building systems are original and in good working condition. Upgrade lighting system to T8 and exit lights to LED style.

	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*

Cast-in-place concrete footings. Strip footings are used below walls and pad footings are used below columns and pilasters.

RatingInstalledDesign LifeUpdated3 - Marginal0100DEC-04

Event: Underpin Southcental Stairshaft.

Concern:

There is foundation settlement occurring at the south central stairshaft that is part of the original building, at the junction with the 1967 Academic addition. Foundation settlement is occurring and further movement is probable.

Recommendation:

Underpin Southcental Stairshaft and complete associated repairs to finishes.

TypeYearCostPriorityFailure Replacement2006\$162,000Medium

Updated: March 4 2005



A1030 Slab on Grade*

A five inch thick concrete slab reinforced with wire mesh is used throughout the building with the exception of the east protion of the 1967 Vocational Addition. In this section the system consists of a structural slab and beam system over a crawl space.

The slab on grade bears on a compacted granular subgrade.

RatingInstalledDesign LifeUpdated4 - Acceptable0100DEC-04

A2020 Basement Walls*

The only area with a basement is the small mechanical room.

RatingInstalledDesign LifeUpdated4 - Acceptable0100DEC-04

B1010.01 Floor Structural Frame*(Building Frame)

The building structural framing consists of precast concrete. Double tees comprise the floor structure, and loads are supported by precast columns or walls.

RatingInstalledDesign LifeUpdated4 - Acceptable0100DEC-04

B1010.02 Structural Interior Walls Supporting Floors*

1962 and 1967 section. There is a considerable portion of the east part of the building that is two story. Supporting walls are concrete block. Minor cracking and shifting noted throughout the facility

RatingInstalledDesign LifeUpdated4 - Acceptable0100DEC-04

B1010.03 Floor Decks, Slabs, and Toppings*

Double tee floors are topped with 2-1/2 inches of concrete topping. Cast-in-place concrete is used for the stair construction. Any cracking is generally cosmetic in nature and is associated with shrinkage, creep due to prestressing and other minor structural movements

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

B1010.07 Exterior Stairs*

Exterior stairs are cast-in-place concrete construction.

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

B1020.01 Roof Structural Frame*

The structural framing for the roof consists of either single or double precast concrete tees. There is no evidence of significant movement or distress.

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

B1020.04 Canopies*

The canopy construction at the main entry to the original 1963 construction is comprised of precast concrete double tees, precast beams and columns.

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

B1020.06 Roof Construction Fireproofing*

Rating	Installed	Design Life	<u>Updated</u>
N/A	0	100	DEC-04

S2 ENVELOPE

B2010.01.02.02 Concrete Block: Ext. Wall Skin*

South-facing wall of 1967 north extension.

RatingInstalledDesign LifeUpdated5 - Good075DEC-04

B2010.01.09 Expansion Control: Exterior Wall Skin*

Expansion control is accommodated by caulking between precast concrete panels and expansion joists between 1963 and 1967 portions of the building

RatingInstalledDesign LifeUpdated5 - Good00DEC-04

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

There are caulk joints between all the precast panels as well as around all the windows

RatingInstalledDesign LifeUpdated3 - Marginal00DEC-04

Event: Replace all failed caulk joints

Concern:

Failed caulk joints between the precast panels and around windows provide a means for water and air entry in to the building.

Recommendation:

Remove and recaulk any failed or aging caulking between the precast wall panels and betwen the precast panels and windows.

TypeYearCostPriorityPreventative Maintenance2008\$21,600Low

Updated: March 4 2005

B2010.02.02 Precast Concrete: Ext. Wall Const.*

Deep profile precast concrete infill wall panels throughout the school

RatingInstalledDesign LifeUpdated5 - Good0100DEC-04

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

The exterior walls consist of 34mm of rigid insulation and plaster. The building is poorly air sealed compared to current standards. While there is an increased cost in the energy consumption of the building due to the air leakage and insulation, the materials themselves are very durable and therefore there are no health and safety concerns with the exterior wall construction.

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

B2010.06 Exterior Louvers, Grilles, and Screens*

1967 - Louvers to mechanical room

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

B2020.01.01.02 Aluminum Windows*

Windows are a black aluminum interior glazed frame with butyl seals both interior and exterior.

Rating Installed Design Life Updated 4 - Acceptable 0 35 DEC-04

Event: Replace broken window South elevation, boys

washroom

Concern:

There is a broken window on the South elevation in the boys bathroom

Recommendation:

Replace the sealed unit

TypeYearCostPriorityRepair2005\$1,080Medium

Updated: March 4 2005

Event: Replace the window systems with more efficient

windows

Concern:

The curent window systems cannot be air sealed properly and are very inefficient compared to current glazing standards. These systems often have problems with drafts and over heating of interior spaces.

Recommendation:

Replace the current window systems with a new window system, with energy efficient glazing, properly tied into the precast wall system. This can reduce the energy consumption of the building as well as making the interior spaces more comfortable.

TypeYearCostPriorityEnergy Efficiency Upgrade2008\$302,400Low

Updated: March 4 2005

B2030.01.01 Aluminum-Framed Storefronts*

Confined to two-storey high stairwells in east 1967 addition.

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

B2030.01.10 Wood Entrance Door*

Wood entry doors in hollow metal frames at all entries.

RatingInstalledDesign LifeUpdated3 - Marginal030DEC-04

Event: Replace 15 wooden entry doors in 1963 section of building

Concern:

Exterior wood doors are in marginal shape and doors do not seal correctly. Hardware has failed in some cases. Different hardware has been used based on year of install some not appraopriate for barrier free access.

Recommendation:

Replace the 15 entrance doors and hardware.

TypeYearCostPriorityRepair2006\$19,440Low

Updated: March 4 2005

B2030.03 Large Exterior Special Doors*

Single 3.7 x 3.7 meter insulated overhead door into autoshop.

RatingInstalledDesign LifeUpdated3 - Marginal030DEC-04

Event: Door is in good condition, however door lift rails have been damaged and door does not seal to

floor. Lower door seal is also damaged

Concern:

Air infiltration in winter.

Recommendation:

Adjust door rails to allow proper clossure and replace bottom seal

TypeYearCostPriorityRepair2005\$2,160Low

Updated: March 4 2005

B2030.05 Other Exterior Doors*

Hollow metal exit doors near main gym and autoshop.

RatingInstalledDesign LifeUpdated5 - Good00DEC-04

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

Approximately half of the roof area is original BUR.

RatingInstalledDesign LifeUpdated3 - Marginal025DEC-04

Event: Replace the BUR roof areas

Concern:

Due to snow cover at the time of the inspection, overall roof condition could not be accurately determined. Ponding was noted on much of the roof and the reduced snow cover likely indicates higher levels of heat loss compared to the newer SBS portion.

Recommendation:

Given the 40 year age of the roof replacement is likely need within the next 5 years

TypeYearCostPriorityLifecycle Replacement2010\$453,600Low

Updated: March 4 2005

B3010.04.04 Modified Bituminous Membrane Roofing (SBS)*

Half of the building has been re-roofed with an SBS roof membrane over 1963 and main gym

RatingInstalledDesign LifeUpdated5 - Good025DEC-04

Event: Investigate the wrinkling of the membrane near the East connection between the 1963 and 1967

portion.

Concern:

Some displacement of membrane was observed near the East connection between he 1963 and 1967 portions of the building. It appears as though this may be related to the structural deflections that are taking place.

Recommendation:

Examine the deficiency and determine if it is due to structural movement. If so, monitor the area until the structure is stabilized then repair of the membrane will likely be recommended.

TypeYearCostPriorityStudy2005\$5,400Low

Updated: March 4 2005

B3010.09 Roof Specialties and Accessories*

Gum boxes were used for mechanical penetration details

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

Event: Top up gum boxes

Concern:

Low gum boxes trap water and over time will allow the wayter to penetrate into the interior of the building.

Recommendation:

Ensure that all gums boxes on the roof are full.

TypeYearCostPriorityPreventative Maintenance2005\$540Low

Updated: March 4 2005

B3010.11 Roof Covering Other*

The East 1967 addition was designed with no membrane or metal flashing over the precast parapets.

Preventative maintenance program program clear roof of dirt and debris and fill gum boxes recommended.

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

B3020.01 Skylights*

Two acrylic skylights are installed in the second story roof on the North West corner of the building.

RatingInstalledDesign LifeUpdated3 - Marginal020DEC-04

Event: Monitor skylights for leakage

Concern:

The acrylic appears to be in reasonable condition, no fogging was noted. No leakage was noted at the time of inspection, however, water stains indicated previous problems.

Recommendation:

If leakage reoccurs then replacement with clerestory windows should be considered.

TypeYearCostPriorityStudy2008\$1,080Low

Updated: March 4 2005

S3 INTERIOR

C1010.01 Interior Fixed Partitions*

Interior fixed partions are concrete block that show minor cracking due to differential settlement.

RatingInstalledDesign LifeUpdated4 - Acceptable050DEC-04

C1010.03 Interior Operable Folding Panel Partitions*

2003 - Folding partion in west gym redone. Some damage to the finishing arround the bulkhead but this does not appear to hinder the operation of the panels

RatingInstalledDesign LifeUpdated4 - Acceptable030DEC-04

C1010.04 Interior Balustrades and Screens, Interior Railings*

All interior railings are metal.

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

C1010.05 Interior Windows*

Interior windows exist between the 1963 and 1967 additions

RatingInstalledDesign LifeUpdated5 - Good040DEC-04

C1020.02 Interior Entrance Doors*

Interior doors are solid core paint or urethane finished birch veneer with wire glass panels.

RatingInstalledDesign LifeUpdated3 - Marginal050DEC-04

Event: Replace 80 of 310 doors per school supplied report

Concern:

Normal wear has damage approximately 30 % the doors.

Haardware is also worn out on a number of the doors

Recommendation:

Replace doors and hardware

TypeYearCostPriorityLifecycle Replacement2006\$82,080Low

Updated: March 4 2005

C1020.03 Interior Fire Doors*

Hollow metal frames with wood doors containing wire mess reinforced glazed panels. Wire glass panels surrounding doors. Minor cracking of wire embedded glass panels for store fronts next to stairwell in Stair 5 and due to foundation settling.

RatingInstalledDesign LifeUpdated3 - Marginal050DEC-04

Event: Check and repair binding doors caused by uneven settlement. Replace broken door closing

hardware.

Concern:

Fire separations and egress may be compromised.

Recommendation:

Repair or replace doors and hardware

TypeYearCostPriorityRepair2005\$6,480Medium

Updated: March 4 2005

C1020.04 Interior Sliding and Folding Doors*

1963 section- used to split room 236 into two classrooms.

RatingInstalledDesign LifeUpdated4 - Acceptable040DEC-04

C1030.01 Visual Display Boards*

2002 - Chalk and white board, primarily whiteboards have been replaced

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

C1030.02 Fabricated Compartments(Toilets/Showers)-1963*

Metal toilet stalls in all washrooms

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

Event: Repair damage locker room toilet partitons - 1963

<u>section</u>

Concern:

Damaged and showing rust

Recommendation:

Repair or replace damage toilet partition

TypeYearCostPriorityRepair2005\$7,776Low

Updated: March 4 2005



C1030.02 Fabricated Compartments(Toilets/Showers)-1967*

Metal toilet stalls in all washrooms

RatingInstalledDesign LifeUpdated3 - Marginal020DEC-04

Event: Repair damage locker room toilet partions- 1967

section

Concern:

Showing damage

TypeYearCostPriorityRepair2006\$5,184Low

Updated: March 4 2005

C1030.06 Handrails*

Handrails are metal pipe construction

RatingInstalledDesign LifeUpdated5 - Good050DEC-04

C1030.08 Interior Identifying Devices*

Interior signage and maps marking marking exits, fire alarms/ extinguisher and hose locations.

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

Event: Repair fire safety signage

Concern:

Several fire exits signs were not lit and in some cases did not point to the exit. Fire hose cabinets were painted over and not re-signed.

Recommendation:

Repair and update signage throughout school

TypeYearCostPriorityRepair2005\$1,080Medium

Updated: March 4 2005



C1030.10 Lockers*

Student and staff lockers installed in shower rooms and corridor in 1963 and 1967

Rating
N/A

Installed
Design Life
0

DEC-04

Event: Replace 1967 lockers in poor condition - 192 ft

Concern:

Wear and damage to ockers

Recommendation:

Replace badly damage lockers

TypeYearCostPriorityLifecycle Replacement2007\$41,472Low

Updated: March 4 2005

Event: Replace lockers in boys and girls locker rooms

Concern:

Worn and damaged lockers in boys and girls dressing rooms and in corridor

Recommendation:

Replace approximately 407 lineal feet

TypeYearCostPriorityLifecycle Replacement2006\$93,960Low

Updated: March 4 2005

C1030.12 Storage Shelving*

Storage shelving is the original plywood construction or wood composite construction repalced in 1996.

RatingInstalledDesign LifeUpdated5 - Good00DEC-04

C1030.14 Toilet, Bath, and Laundry Accessories*

All fittings are surface mounted institution grade

RatingInstalledDesign LifeUpdated5 - Good020DEC-04

C2010 Stair Construction*

All stairs are precast concrete.

RatingInstalledDesign LifeUpdated5 - Good0100DEC-04

C2020.01 Tile Stair Finishes*

Staircase to fitness centre in 1967 section

RatingInstalledDesign LifeUpdated5 - Good030DEC-04

C2020.05 Resilient Stair Finishes*

Precast stairs finish with resilient stair tread with integral carborundum strip

RatingInstalledDesign LifeUpdated2 - Poor020DEC-04

Event: Replace worn stair treads on all exterior stairwells

Concern:

Non-slip nosing worn or missing and resilent material lifting

Recommendation:

Replace noising strips on 12 stair cases

TypeYearCostPriorityFailure Replacement2006\$64,800Medium

Updated: March 4 2005



C2020.08 Stair Railings and Balustrades*

Steel railing and balustrades throughout.

RatingInstalledDesign LifeUpdated5 - Good050DEC-04

C3010.01 Concrete Wall Finishes*

Exposed precast panels carry through to interior(all sections)

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

C3010.03 Plaster Wall Finishes*

Above lockers in some areas

RatingInstalledDesign LifeUpdated4 - Acceptable040DEC-04

C3010.04 Gypsum Board Wall Finishes*

Gysum board over some lockers and in some class rooms.

RatingInstalledDesign LifeUpdated4 - Acceptable040DEC-04

C3010.06 Tile Wall Finishes*

Mosaic tile in all washrooms

RatingInstalledDesign LifeUpdated5 - Good050DEC-04

C3010.09 Acoustical Wall Treatment*

Fabric and wood accoustic panels in band room and drama room.

RatingInstalledDesign LifeUpdated4 - Acceptable020DEC-04

C3010.11 Interior Wall Painting*

Painted concrete block, plaster and gypsum board. Graffiti in a number of areas.

RatingInstalledDesign LifeUpdated4 - Acceptable05DEC-04

C3010.14 Other Wall Finishes*

Wood wall panels near admin area and around display cases. Clear urethnae finish.

RatingInstalledDesign LifeUpdated5 - Good00DEC-04

C3020.02 Tile Floor Finishes*

Various resilent tile finishes throughout the building.

RatingInstalledDesign LifeUpdated5 - Good030DEC-04

Event: Replace 1967 - resilient tile 2100 m2 approx

Concern:

Normal wear

Recommendation:

Replace floors in 8 classrooms, janitorial area, storage areas and corridors where badly worn and damaged-

TypeYearCostPriorityLifecycle Replacement2008\$78,300Low

Updated: March 4 2005

Event: Resilent flooring - 1963 section -3200 m2

Concern:

Normal wear. There is some cracking of floors due to settling at doorway.

Recommendation:

Replace resilient floor in 10 classrooms and some corridors where badly worn after the building foundation has been stabilized.

TypeYearCostPriorityLifecycle Replacement2007\$125,280Low

Updated: March 4 2005

C3020.03 Terrazzo Floor Finishes*

Terrazo tile in washrooms.

RatingInstalledDesign LifeUpdated5 - Good070DEC-04

C3020.04 Wood Flooring*

Wood floor in gym. Repaired and refinished in 2003

RatingInstalledDesign LifeUpdated5 - Good025DEC-04

C3020.08 Carpet Flooring*

Carpet has been upgraded throughout the school in 2003 and is in good conditon. Some snagging has cased damage to the carpets in the band rooms. This is an operational maintnenace issue

RatingInstalledDesign LifeUpdated5 - Good010DEC-04

C3020.11 Floor Painting

Lines on floor in main and small gymnasium

C3030.01 Concrete Ceiling Finishes*

Painted T and double T ceiling throughout majority of school

RatingInstalledDesign LifeUpdated4 - Acceptable0100DEC-04

C3030.04 Gypsum Board Ceiling Finishes*

Hallway in some areas have plaster board ceiling

RatingInstalledDesign LifeUpdated4 - Acceptable050DEC-04

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

A small number of rooms have suspended acoustic tile ceilings.

RatingInstalledDesign LifeUpdated4 - Acceptable025DEC-04

C3030.07 Interior Ceiling Painting*

Paintng of underside of prefab concrete T and double T ceilings.

RatingInstalledDesign LifeUpdated4 - Acceptable010DEC-04

D1010.01.02 Hydraulic Passenger Elevators*

Single person elevator on north face of courtyard.

RatingInstalledDesign LifeUpdated4 - Acceptable030DEC-04

S4 MECHANICAL

D2010.01 Water Closets*

Flush valve type installed in student washrooms. Primarily flush tank type installed in staff washrooms. Majority of the fixtures and trim appear to be from the original 1963/67 construction.

RatingInstalledDesign LifeUpdated4 - Acceptable030DEC-04

D2010.02 Urinals*

Floor-mounted flush tank urinals. The flushing cycle is controlled by an accupancy sensor and timer controlled solenoid valve. The majority of the fixtures and trim appear to be from the original 1963/67 construction.

RatingInstalledDesign LifeUpdated4 - Acceptable030DEC-04

D2010.03 Lavatories*

There are a combination of porcelain and stainless steel lavatories located in the various washrooms throughout the school. The majority of the fixtures and trim appear to be from the original 1963/67 construction.

RatingInstalledDesign LifeUpdated4 - Acceptable030DEC-04

D2010.04 Janitor Sinks*

Enameled steel janitor sinks and trim appear to be from the original 1963/67 construction.

RatingInstalledDesign LifeUpdated3 - Marginal030DEC-04

Event: Replace janitor sinks.

Concern:

Janitor sinks are chipped, stained, corroded, etc. Trim is generally in poor condition.

Recommendation:

Replace all 5 sinks and trim.

TypeYearCostPriorityLifecycle Replacement2005\$10,800Low

Updated: March 1 2005

D2010.04 Sinks*

A variety of stainless steel sinks are located throughout the school in science areas, vocational areas, office areas, etc.

RatingInstalledDesign LifeUpdated4 - Acceptable030DEC-04

D2010.05 Showers*

Shower rooms are provided in the Boys and Girls change rooms.

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

D2010.08 Drinking Fountains / Coolers*

Porcelain or stainless steel non-refrigerated drinking fountains are located throughout the school.

RatingInstalledDesign LifeUpdated4 - Acceptable030DEC-04

D2010.09 Other Plumbing Fixtures*

Circular wash fountains are located in the Boys and Girls change rooms.

RatingInstalledDesign LifeUpdated3 - Marginal00DEC-04

Event: Replace circular wash fountains.

Concern:

Wash fountains are in poor condition.

Recommendation:

Replace the wash fountains.

TypeYearCostPriorityLifecycle Replacement2005\$15,120Low

Updated: March 1 2005

D2020.01.01 Pipes and Tubes: Domestic Water*

RatingInstalledDesign LifeUpdated4 - Acceptable040DEC-04

D2020.01.02 Valves: Domestic Water

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

D2020.01.03 Piping Specialties (Backflow Preventors)*

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

D2020.02.02 Plumbing Pumps: Domestic Water*

Domestic hot water circulating pumps.

RatingInstalledDesign LifeUpdated4 - Acceptable020DEC-04

D2020.02.06 Domestic Water Heaters*

One State natural gas domestic water heater and two Raypak domestic water boilers (1998) are installed in the 1963 mechanical room. An A.O. Smith natural gas domestic water heater is installed in Mechanical Room 1-01.

RatingInstalledDesign LifeUpdated5 - Good020DEC-04

D2020.03 Water Supply Insulation*: Domestic

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

D2030.01 Waste and Vent Piping*

RatingInstalledDesign LifeUpdated4 - Acceptable050DEC-04

D2030.02 Waste Piping Specialties*

RatingInstalledDesign LifeUpdated4 - Acceptable050DEC-04

D2040.01 Rain Water Drainage Piping Systems*

RatingInstalledDesign LifeUpdated4 - Acceptable050DEC-04

D2040.02 Rain Water Drainage Specialties*

Several weeping tile sumps are located within the school.

RatingInstalledDesign LifeUpdated4 - Acceptable025DEC-04

D2040.02.04 Roof Drains*

RatingInstalledDesign LifeUpdated4 - Acceptable040DEC-04

D3010.02 Gas Supply Systems*

RatingInstalledDesign LifeUpdated4 - Acceptable050DEC-04

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

Four sectional cast iron hot water boilers with an input of 4.4 mmbtuh each. Two installed in 1963 and two installed in 1967.

Rating Installed Design Life Updated 4 - Acceptable 0 30 DEC-04

Event: Boiler's inspection.

Concern:

Boilers have been in service for approximately 40 years. Externally the boilers appear to be in satisfactory condition. Condition of internals, burners, controls, etc. is not known. Efficiency of these boilers is low compared to newer boilers.

Recommendation:

Retain a mechanical engineering consultant to review the condition of the boilers and complete a life cycle evaluation of keeping these boilers vs. replacing with new, higher efficiency boilers. Suggest the consultant have a qualified heating contractor fully inspect the boilers, provide a written report of their condition and, determine a reasonable inspection schedule for the future.

TypeYearCostPriorityPreventative Maintenance2005\$16,200Low

Updated: March 1 2005

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

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

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

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

D3020.05 Auxiliary Equipment: Heat Generation*

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

D3030.06.01 Refrigeration Compressors*

A total of 150 Tons of cooling is installed for all areas served from the 1963 induction air system.

RatingInstalledDesign LifeUpdated4 - Acceptable025DEC-04

Event: Inspect refrigeration system.

Concern:

Cooling system was installed in 1963. It's not clear if the unit is still operational.

Recommendation:

Hire a qualified refrigeration contractor to inspect and report on the condition of the compressors and, the associated cooling coil and evaporative condenser. This may lead to additional work being required to repair or remove this system.

TypeYearCostPriorityPreventative Maintenance2005\$7,560Low

Updated: March 1 2005

D3030.06.02 Refrigerant Condensing Units*

Evaporative condenser serving AHU-1's cooling system.

RatingInstalledDesign LifeUpdated4 - Acceptable025DEC-04

D3040.01.01 Air Handling Units: Air Distribution*

There are 5 constant volume air systems. One for each of the two gymnasiums and three induction air systems for the rest of the school. All air systems are from the original 1963/67 construction.

RatingInstalledDesign LifeUpdated4 - Acceptable030DEC-04

Event: Inspect air handling units.

Concern:

Air handling units are all approximately 40 years old and appear to require some cleaning and refurbishment.

Recommendation:

Hire a qualified mechanical contractor to internally inspect the five air handling units to determine and report on if they should be cleaned or, require some repairs/refurbishment.

TypeYearCostPriorityPreventative Maintenance2005\$10,800Low

Updated: March 1 2005

D3040.01.02 Fans: Air Distribution*

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

D3040.01.03 Air Cleaning Devices:Air Distribution*

Air handling units include single stage flat air filter sections.

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

D3040.01.04 Ducts: Air Distribution*

RatingInstalledDesign LifeUpdated4 - Acceptable050DEC-04

D3040.01.05 Duct Accessories: Air Distribution*

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

D3040.01.07 Air Outlets & Inlets:Air Distribution*

RatingInstalledDesign LifeUpdated4 - Acceptable050DEC-04

D3040.03.01 Hot Water Distribution Systems*

RatingInstalledDesign LifeUpdated4 - Acceptable040DEC-04

D3040.04.01 Fans*: Exhaust

Exhaust fans serving washrooms, janitor rooms, industrial arts area, etc.

RatingInstalledDesign LifeUpdated4 - Acceptable030DEC-04

D3040.04.03 Ducts*: Exhaust

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

D3040.04.04 Ducts Accessories*: Exhaust

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

D3040.04.05 Air Outlets and Inlets*: Exhaust

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

D3050.01.02 Packaged Rooftop Air Conditioning Units (& Heating Units)*

Rooftop natural gas make-up air unit for the shops area.

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

D3050.02 Air Coils*

Heating coils are hot water coils.

RatingInstalledDesign LifeUpdated3 - Marginal030DEC-04

Event: Glycol systems and coils.

Concern:

The existing heating coils in the air systems are hot water coils sized for an entering air temperature of 4C. To prevent the coils from freezing at temperatures below approximately -15C outside air volumes are likely being reduced below what is required to meet current standards.

Recommendation:

Install new glycol systems and heating coils for the five air handling units.

TypeYearCostPriorityCode Upgrade2005\$129,600Low

Updated: March 1 2005

D3050.03 Humidifiers*

Humidification is not provided.

RatingInstalledDesign LifeUpdated2 - Poor025DEC-04

Event: Install Humidification

Concern:

Humidification is not provided. Indoor humidity level will reach uncomfortable and unhealthy levels during the winter

Recommendation:

Install steam humidification

TypeYearCostPriorityIndoor Air Quality Upgrade2005\$135,000Medium

Updated: March 1 2005

D3050.05.02 Fan Coil Units*

Hot water force flow entrance heaters.

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

D3050.05.03 Finned Tube Radiation*

Hot water perimeter heating installed primarily in washrooms, corridors, janitor rooms, etc.

RatingInstalledDesign LifeUpdated3 - Marginal00DEC-04

Event: Replace radiation cabinets.

Concern:

Radiation cabinets are in poor condition in several locations.

Recommendation:

Replace the existing cabinets.

TypeYearCostPriorityRepair2005\$16,200Low

Updated: March 1 2005

D3050.05.04 Induction Units*

Installed throughout for heating and ventilation.

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

D3050.05.06 Unit Heaters*

Primarily hot water unit heaters.

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

D3060.02.03 Pneumatic and Electric Controls*

Pneumatic and electric controls installed throughout appear to be from the original 1963/67 construction.

RatingInstalledDesign LifeUpdated3 - Marginal040DEC-04

Event: Install new DDC building management system.

Concern:

Existing controls are beyond their service life, are obsolete, require increasing repairs/maintenance and, can only perform basic control functions.

Recommendation:

Install a new DDC building mangement system for all central systems.

TypeYearCostPriorityLifecycle Replacement2005\$189,000Low

Updated: March 1 2005

D4020 Standpipes*

RatingInstalledDesign LifeUpdated4 - Acceptable050DEC-04

D4030.01 Fire Extinguisher, Cabinets and Accessories*

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

S5 ELECTRICAL

D5010.01 Main Electrical Transformers*

City owned transformers in enclosed vault

RatingInstalledDesign LifeUpdated4 - Acceptable040DEC-04

D5010.03 Main Electrical Switchboards (Main Distribution)*

Main Panel FPE - 3000 amp, 120/208 vol,t 3 phase, 4 wire, 100KA Interrupting capacity c/w 2000/3000 amp Main BReaker and breakers for Main PDC 1200/1600, Panel ID1 1200/1600, Panel ID2 800/1000. Electrical room is crowded with storage. Clear area shold be maintained around main panel

RatingInstalledDesign LifeUpdated4 - Acceptable040DEC-04

D5010.03.05 Switchboards, Panelboards and Control Centers

Panle ID1 1000 amp, 120.208volt, 3 phase, 4 wire, FPE LDP c/w 11 brealkers dna 4 spaces

RatingInstalledDesign LifeUpdated5 - Good00DEC-04

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

Typical panels are Square D QBL 442, double tub 42 circuit, 120/208 volt, 3 phase, 4wire c/w bolt on breakers and some spaces. Some panels have low voltage swtiching sections c/w low voltage relays.

RatingInstalledDesign LifeUpdated5 - Good025DEC-04

D5010.07 Motor Control Centers (Motor Control)*

MCC in main mechanical room - Square D QMB, 120/208 volt, 3 phase ,4 wire, in two stacks c/w 1 size 2, 5 size 1 adn 6 size 0 starters. One starter is damaged and needs repair.

MCC in secondary mechanical room - Canadian Controls Ltd 600 amp, 120/208 volt, 3 phase, 4 wire, 3 stacks c/w 14 Size 1, 1 size 1 1/2

RatingInstalledDesign LifeUpdated3 - Marginal00DEC-04

Event: Repair Damaged Starter

Concern:

Starter has minor damage

Recommendation: Repair damage

TypeYearCostPriorityRepair2005\$324Medium

Updated: March 2 2005

D5010.07.02 Motor Starters and Accessories*

Grouped motor control for air handling system. Older GE Combination Starters. Some pilot lights and HOA's need replacement. Spare parts are available from central maintenance.

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

D5020.01 Electrical Branch Wiring*

Wiring is mostly original except for new wiring to new computer rooms

RatingInstalledDesign LifeUpdated5 - Good050DEC-04

D5020.02.01 Lighting Accessories (Lighting Controls)*

Some panels have low voltage control sections. Most lighting control in classrooms and corridors is low voltage control. Exterior lighting control is via photocell and timer.

RatingInstalledDesign LifeUpdated5 - Good030DEC-04

D5020.02.02.01 Interior Incandescent Fixtures*

Some incandescent luminaries at entrances. Should be replaced with luminaries using compact fluorescent sources. Some theatrical lighting in drama room.

RatingInstalledDesign LifeUpdated3 - Marginal030DEC-04

Event: Replace incandescent luminaries at entrances

Concern:

Incandescent luminaries at entrances are either de-lamped or in poor condition.

Recommendation:

Replace with compact fluorescent luminaires

TypeYearCostPriorityLifecycle Replacement2006\$2,160Low

Updated: March 2 2005

D5020.02.02.02 Interior Florescent Fixtures*

Corridor luminaries in some areas have dropped opal lenses that have been retrofitted with angle brackets to retain lens. Main gym lit with T8 HO 2 lamp strips with wire guard, Secondary gym lit with 4 lamp T12 strips with wire guard, Washrooms lit with 2 lap T12 wraparounds, Mechanical rooms lit with 2 lamp T12 strips and wraparounds, North side classrooms lit with 6 transverse rows of 2 lamp wraparounds, Shops lit with twin turret industrial strips, Computer rooms lit with newer 4 lamp T8 parabolic. Dropped opal diffusers, and a some wraparound lenses are yellowed. Some luminaries missing diffusers. Some areas are over lit. The entire school needs a lighting upgrade to modern T8 technology. If a lighting upgrade is done many areas will need new ceiling tiles as well.

RatingInstalledDesign LifeUpdated3 - Marginal030DEC-04

Event: Lighting Upgrade

Concern:

Lighting system is old and in poor repair. Many luminaries are performing poorly due to yellowed or damage diffusers. Most lamps use old T12 technology and are not energy efficient. Some classrooms are over lit

Recommendation:

Upgrde existing fluorescent lighting to T8 lamps and ballasts and replace obsolete luminares. Reduce lighting to IES recommendations in some areas.

TypeYearCostPriorityEnergy Efficiency Upgrade2006\$64,800Low

Updated: March 2 2005

D5020.02.03 Emergency Lighting*

Distributed battery packs with "cubes". Some in poor condition but most OK

RatingInstalledDesign LifeUpdated4 - Acceptable030DEC-04

Event: Repair emergency lights

Concern:

Some emergency lights are in poor condition

Recommendation:

Replace defective luminres during major lightin upgrade

TypeYearCostPriorityRepair2006\$5,400Unassigned

Updated: March 2 2005

D5020.02.03.03 Exit Signs

Exit signs are thin profile style that have been retrofitted with LED kits.

RatingInstalledDesign LifeUpdated3 - Marginal00DEC-04

Event: Upgrade Exit Signs

Concern:

Existing exit signs are old thin series with retrofit LED kits Sign brightnes is marginal.

Recommendation:

Replace with LED exit signs

TypeYearCostPriorityEnergy Efficiency Upgrade2005\$2,160Unassigned

Updated: March 2 2005

D5020.03.01.01 Exterior Incandescent Fixtures*

Some exterior luminaries use R type lamps. Dropped opal luminaries at main entry need cleaning.

RatingInstalledDesign LifeUpdated3 - Marginal030DEC-04

Event: Upgrade exterior lighting

Concern:

Some lumianres at entrrances use R lamps and some use diffusers that do not keep dirt and bugs out

Recommendation:

Replace exterior lighting at entrances with energy effficeint luminaires

TypeYearCostPriorityEnergy Efficiency Upgrade2006\$5,400Unassigned

Updated: March 2 2005

D5020.03.01.04 Exterior H.P. Sodium Fixtures*

Exterior security lighting via parapet mounted floodlights. Parking Lot lighting is semi cutoff HPS on 25 ft poles owned and maintained by City

RatingInstalledDesign LifeUpdated5 - Good030DEC-04

D5020.03.01.05 Other Exterior Fixturess*

Some miscellaneous wall brackets and pot lights

RatingInstalledDesign LifeUpdated4 - Acceptable030DEC-04

D5020.03.02 Lighting Accessories (Lighting Controls)*

Time clock and photocell control

RatingInstalledDesign LifeUpdated4 - Acceptable025DEC-04

D5030.01 Detection and Alarm Fire Alarm*

2003 - New Notifier fire alarm c/w horns and strobes

RatingInstalledDesign LifeUpdated6 - Excellent025DEC-04

D5030.02.01 Door Answering*

Doorbell is part of securtiy system

RatingInstalledDesign LifeUpdated4 - Acceptable025DEC-04

D5030.02.02 Intrusion Detection*

Cantronics main panel, motion sensors in corridors and some classrooms, door contacts on most exterior doors.

RatingInstalledDesign LifeUpdated4 - Acceptable025DEC-04

D5030.02.04 Video Surveillance*

Head end uses dedicated Digital Sprite Lite micros with video track monitor, cameras in hallways and entrances, color monitor in main office on switcher.

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

D5030.03 Clock and Program Systems*

Simplex 6100 Control Clock, wall clocks are Edwards 120 volt. Advance correction not working properly

RatingInstalledDesign LifeUpdated4 - Acceptable025DEC-04

D5030.04.01 Telephone Systems*

Meridian NS system, 12 lines 96 locals, console in main office, 5 modems for data lines, fed by APC ups.

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

D5030.04.02 Paging Systems*

Rauland MCB 200 A program module, MPX1100A mixer, switch plate, casteete deck, mike in main office area, speaker boxes in corridors are all damaged but serviceable

RatingInstalledDesign LifeUpdated3 - Marginal025DEC-04

Edmonton - McNally Composite High School (B3215A)

D5030.04.04 Data Systems*

Mix of cat 5 and 5 e wiring, some to classrooms and office, most in dedicated computer rooms with central server room.

RatingInstalledDesign LifeUpdated5 - Good00DEC-04

D5030.04.05 Local Area Network Systems*

Central Server room with 5 patch panels, 3 Hewlett Packard LAN switches, 4 servers and SuperNet service

RatingInstalledDesign LifeUpdated5 - Good00DEC-04

D5030.06 Television Systems*

Triple Crown amp ID4200 with coax distribution to classrooms

RatingInstalledDesign LifeUpdated5 - Good00DEC-04

D5090.02 Packaged Engine Generator Systems (Emergency Power System)*

Kohler 10 KW, 12.5KVA 120/208 volt air coppled generator set in main machanical room, Zenith 20 amp transfer switch, battery and charger feeds two FPE panels for emergency circuits

Rating Installed Design Life Updated
5 - Good 0 35 DEC-04

S6 EQUIPMENT, FURNISHINGS AND SPECIAL CONSTRUCTION

E1020.02 Library Equipment*

Standard library configuration with a mixture of original and updated shelving. Study carrels and tables located throughout

E1020.03 Theater and Stage Equipment*

Theatre room is setup with stage and lighting equipment

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

E1090.07 Athletic, Recreational, and Therapeutic Equipment*

Badminton, volleyball and basket ball equipment for two gymnasiums

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

E2010.02.05 Educational Facility Casework*

(1995) Urethane finished birch or some original painted casework.

RatingInstalledDesign LifeUpdated5 - Good00DEC-04

E2010.02.08 Laboratory Casework*

(1995) Urethane finished birch with lab sinks and acid resistant plastic top.

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

E2010.02.09 Library Casework*

(1995) Urethane finished birch or some original painted casework.

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

E2010.02.99 Other Casework*

(1995) Urethane finished birch shelving in storage areas and band room.

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

E2010.03.01 Blinds*

Horizontal Venetian blinds on south facing exterior rooms.

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

E2010.03.06 Curtains and Drapes*

Curtains in the band room and drama room

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

Edmonton - McNally Composite High School (B3215A)

F2020.01 Asbestos*

Because of the age of the school, it is expected that asbestos is present but in an encapsulated or encased form.

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

F2020.02 PCBs*

Much of the existing lighting is T12 technology with magnetic balasts. This technology should be replaced as part of the normal program identified in the section D5020.

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

F2020.03 Mercury*

Present in thermostats and flourescent fixture. Dispose of as part of the maintenance and repair program.

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

F2020.04 Mould*

None detected

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

Edmonton - Mcnally Composite High School (S3215)

Facility Details

Building Name: Mcnally Composite High Sch

Address:

Location: Edmonton

Building Id: \$3215
Gross Area (sq. m): 0.00
Replacement Cost: \$0
Construction Year: 0

Evaluation Details

Evaluation Company:

Evaluation Date: Evaluator Name:

Total Maintenance Events Next 5 years: \$61,560 5 year Facility Condition Index (FCI): 0%

General Summary:

Site is in fair condition overall. Side walks and paving will require repair or replacement in the near future.

Structural Summary:

Envelope Summary:

Interior Summary:

Mechanical Summary:

Electrical Summary:

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

Report run on: February 13, 2006 4:30 PM

S7 SITE

G2010.02.02 Flexible Pavement Roadway (Asphalt)*

Asphalt roadway to receiving and staff parking (750 sq. M)

Rating Installed Design Life Updated

3 - Marginal 0 0

Event: Asphalt roadway to recieving and staff parking (750

sq.M)

Concern:

Asphalt roadway to recieving and staff parking (750 sq.M) has deteriorated from heavy trafic and use.

Recommendation:

Resurface with a 50 mm lift of new asphalt.

TypeYearCostPriorityFailure Replacement2006\$8,640Low

Updated: March 3 2005

G2010.05 Roadway Curbs and Gutters*Asphalt

Asphalt roadway and north side of staff parking has asphalt curbs.

Rating Installed Design Life Updated

3 - Marginal 0 0

Event: Asphalt roadway has asphalt curbs on each side

up to and including the north side of the staff

parking (800 M)

Concern:

Curbs have deteriorated and do not direct storm water properly

Recommendation:

Provide new curbs for roadway and north side of staff parking.

(800 M)

TypeYearCostPriorityFailure Replacement2006\$2,160Low

Updated: March 3 2005

G2010.05 Roadway Curbs and Gutters*Concrete

Curbs are part of sidewalks at the front of the school and at the south side of the staff parking area. Repairs and replacement have been identified in G2030.04.

Rating Installed Design Life Updated

3 - Marginal 0 30

G2010.06 Roadway Appurtenances*

3 Meter wide Concrete approach to roadway.

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

4 - Acceptable 0 0

G2020.02.02 Flexible Paving Parking Lots(Asphalt)*

Replace 1900 sq. M with a 50 mm lift of asphalt.

Rating Installed Design Life Updated

3 - Marginal 0 0

Event: Asphalt parking area has asphalt curbs on north

and sidewalk curb on the south edges. (Area 1900

<u>sq. M</u>)

Concern:

Asphalt pavement has deteriorated showing cracks and holes through out the parking area.

through out the parking area

Recommendation:

Resurface with a 50 mm lift of new asphalt.

<u>Type</u> <u>Year</u> <u>Cost</u> <u>Priority</u>

Failure Replacement 2006 \$21,600 Low

Updated: March 3 2005

G2020.06.02 Parking Bumpers*

Some precast concrete bumpers along the north parking area.

Rating Installed Design Life Updated

5 - Good 0 0

G2020.06.03 Parking Lot Signs*

There are no signs visible around the site or near the parking area.

Rating Installed Design Life Updated

2 - Poor 0 0

Event: Staff parking signage has been removed from their

posts in three locations.

Concern:

Designated parking areas and fire lane signage has been

removed.

Recommendation:

Provide new signage as required.

Type Year Cost Priority

Program Functional Upgrade 2005 \$1,080 Lov

Updated: March 3 2005

G2020.06.04 Pavement Markings*

No markings were visible.

Rating Installed Design Life Updated

2 - Poor 0

Event: No pavement markings were visible.

Concern:

No pavement markings were visible to indicate were parking areas are.

Recommendation:

Provide new markings in parking areas.

TypeYearCostPriorityProgram Functional Upgrade2006\$1,080Low

Updated: March 3 2005

G2030.04 Rigid Pedestrian Pavement (Concrete)* Sidewalks

Concrete sidewalk areas at front of school are 5 Meters wide and are part of the curb system. The remainder around school are 1.5 m wide.

Rating Installed Design Life Updated

3 - Marginal 0 0

Event: Concrete side walk areas at front of school are 5
Meters wide and are part of the curb system. The

remainder around schoolare 1.5 m wide.

Concern:

Sidewalks are cracked and are spaling at the edges and also very uneven at expantion joints in several locations.

Recommendation:

Cut curb edge along the street side at front of school and replace with new curb. Mud jack or remove and replace uneven slabs or those that are extremly deteriorated around the school.

TypeYearCostPriorityRepair2005\$21,600Medium

Updated: March 3 2005

Report run on: February 13, 2006 4:30 PM

G2030.04 Rigid Pedestrian Pavement (Concrete)*Landings

Concrete landings at fire exits.

Rating Installed Design Life Updated

3 - Marginal 0 30

Event: Concrete landings at fire exits are deteriorating

and uneven.

Concern:

Landings cracked and un even and create problems with door

operation.

Recommendation:

Replace landings (100 sq. M)

TypeYearCostPriorityFailure Replacement2005\$5,400Medium

Updated: March 3 2005

G2040.02 Fences and Gates*

Chain linc fence around school yard. Iron pipe rail fence on both sides of driveway to parking area.

Rating Installed Design Life Updated

4 - Acceptable 0 0

G2040.03 Athletic and Recreational Surfaces*

Base ball diamond, football and soccer fields are grass turf.

Rating Installed Design Life Updated

4 - Acceptable 0 0

G2040.06 Exterior Signs*

Free standing sign at front with school with name at top and information area at the bottom.

Rating Installed Design Life Updated

4 - Acceptable 0 0

G2040.08 Flagpoles*

Two flag poles on the roof.

Rating Installed Design Life Updated

5 - Good 0 0

G2040.11 Retaining Walls*

Small retaning wall at stair to courtyard area.

Rating Installed Design Life Updated

4 - Acceptable 0 0

G2050.01 Irrigation Systems*

Hose bibs located approximatly every 60 meters around the school.

Rating Installed Design Life Updated

4 - Acceptable 0 0

G2050.04 Lawns and Grasses*

Rating Installed Design Life Updated

5 - Good 0 0

G2050.05 Trees, Plants and Ground Covers*

Mature trees aroun the site.

Rating Installed Design Life Updated

4 - Acceptable 0 0

Event: Mature trees around the site.

Concern:

Trees in the parking area need to be trimed back.

Recommendation:

Trim trees that are leaning over the drive way in the parking areas.

TypeYearCostPriorityPreventative Maintenance2005\$2,160Low

Updated: March 3 2005

G3010.02 Site Domestic Water Distribution*

Domestic water is provided from the City's distribution system and metered within the school. No problems with this system were reported.

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

4 - Acceptable 0 (

G3010.03 Site Fire Protection Water Distribution*

Water for fire protection is supplied through a combined domestic and fire water service line connected into the City's water distribution system. The water service line serves the site's fire hydrants and the school's fire hose cabinets. No problems or concerns were reported.

Rating Installed Design Life Updated

4 - Acceptable 0 0

G3020.01 Sanitary Sewage Collection*

There are two sanitary building drains (150mm and 100mm) that connect into the City's sanitary collection system south of the school. No problems were reported.

Rating Installed Design Life Updated

4 - Acceptable 0 0

Edmonton - Mcnally Composite High School (S3215)

G3030.01 Storm Water Collection*

Storm water is piped from the school through two building drains (300mm and 250mm) tying into a site collection system that includes several catch basins and man-holes that are piped to the City's storm water system. No problems were reported with this system.

Rating Installed Design Life Updated

4 - Acceptable 0 0

G3060.01 Gas Distribution*

Natural gas is supplied from ATCO Gas' distribution system and metered/pressure regulated within the school's meter room. No problems or concerns with this system were reported.

Rating Installed Design Life Updated

4 - Acceptable 0 0

G4010.02 Electrical Power Distribution Lines*

Underground Epcor electrical servicew to Epcor transformers in vault on NE side of central wing.

Rating Installed Design Life Updated

4 - Acceptable 0 0

G4010.04 Car Plugs-ins*

Staff only parking receptacles in various locations (recepticals for 60 stalls)

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

5 - Good 0 0

G4020.01 Area Lighting*

Parking lot lighting is owned by the City and maintained by EPCOR

Rating Installed Design Life Updated

4 - Acceptable 0 0

Report run on: February 13, 2006 4:30 PM

S8 FUNCTIONAL ASSESSMENT

K40 Current Code Issues

Hallways used as fire exists are also used for storage of lawnmowers and boxes.

RatingInstalledDesign LifeUpdated3 - Marginal00DEC-04

K4010.01 Barrier Free Route: Parking to Entrance

Main doorway is wheelchair accessible

RatingInstalledDesign LifeUpdated4 - Acceptable00DEC-04

K4010.02 Barrier Free Entrances

No power assisted entry ways in school

RatingInstalledDesign LifeUpdated3 - Marginal00DEC-04

Event: Add Power assiste entry to from door

Concern:

Wheelchair Access to building is impeded by lack of power door openers

Recommendation:

Install one set of power openers and hardware as part of replacing the front doors. Ensure appropriate opening is available.

TypeYearCostPriorityBarrier Free Access Upgrade 2006\$3,240Medium

Updated: March 4 2005

K4010.03 Barrier Free Interior Circulation

Barrier free circulatio is in place with the excepttion of the small gym.

RatingInstalledDesign LifeUpdated3 - Marginal00DEC-04

Event: Wheelchair Ramp to Small Gym

Concern:

Access to small gyn is impeded for wheelchair

Recommendation: Install ramp with railing

Type Year Cost Priority
Barrier Free Access Upgrade 2006 \$1,080 Low

Updated: March 4 2005

K4010.04 Barrier Free Washrooms

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