# **RECAPP Facility Evaluation Report**

**Calgary School District #19** 



Ogden Elementary School
B2733A
Calgary

# Calgary - Ogden Elementary School (B2733A)

# **Facility Details**

**Building Name:** Ogden Elementary School

Address: 1919 - 76 Avenue S. E.

Location: Calgary

Building ld: B2733A Gross Area (sq. m): 0.00

Replacement Cost: \$8,381,346

Construction Year: 0

# **Evaluation Details**

**Evaluation Company:** Marshall Tittemore Architect

Evaluation Date: November 4 2005
Evaluator Name: Mr. Tom Tittemore

Total Maintenance Events Next 5 years: \$915,920 5 year Facility Condition Index (FCI): 10.93%

# **General Summary:**

Ogden Elementary School is a 4,744 m2 one storey K-6 school located in the Ogden community of southeast Calgary. The original school was constructed in 1960 with a subsequent addition undertaken in 1972 (1,922 m2). A basement mechanical room is located in the 1960 section. The school was officially closed after the 2004/2005 school year.

#### **Structural Summary:**

The school's structural system is comprised of: cast in place concrete foundations and slab on grade; concrete masonry load bearing interior walls, exterior walls and firewalls; cast in place and concrete masonry walls to the basement mechanical room; concrete structural floor over the basement mechanical room and access tunnels; some wood framed door areas; glulam beams supporting T&G wood roof decking, OWSJ supporting metal roof decking.

Apart from evidence of structural failure along the masonry joints of the exterior masonry walls in the school's morth west corner, the school's structural system is in good condition.

#### **Envelope Summary:**

Building exterior components are compirsed of stucco, wood siding, brick and painted concrete block. Sections of the painted concrete block exhibit structural failure along the masonry joints and require refinishing (see above).

Exterior wood doors are painted in painted wood and metal frames. Some of the exterior doors and frames require repainting / refinishing.

All double glazed windows are in either PVC type or aluminum frames.

Repainting is also required to the school's exterior concrete masonry firewalls, some exterior doors, the plywood gym window infills, concrete foundation and grilles. Brick veneer is found on all three building phases.

The 1960 section of the school's roof was recently replaced with a new SBS insulated roofing system. The 1972 section has a built up roof. Plexiglas skylights are found in the main corridor of the 1960 section.

The school's building envelope is in good condition.

#### **Interior Summary:**

The school's interior is comprised of: sheet flooring and VAT to corridors and classrooms; carpeted areas in the library and administration; quarry tile flooring to the entry vestibules and washrooms; painted gypsum board walls and ceilings; painted concrete and concrete masonry; wood flooring to the gymnasium and stage; glue on acoustic ceiling tiles; suspended acoustic tile ceilings; painted wood and metal doors in wood and metal frames.

The classroom acoustic tile ceilings and metal casework require replacement in conjunction with the ventilation system replacement recommended in the mechanical section.

The school's interior is in good condition.

#### **Mechanical Summary:**

The 1960 original school is equiped with hot water heating and unit ventilators with general exhaust systems for ventilation and a pneumatic control system. These systems generally are in poor condition. The 1972 addition is in an acceptable condition with the exception of the heating which is supplied by the existing 1960 hot water boiler.

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#### **Electrical Summary:**

The main distribution is 400A combination main breaker / CDP panelboard. The lighting is T-12 lamps and magnetic ballasts and should be upgraded to T-8 technology for improved operating and maintenance costs. The fire alarm system is a unsupervised 3 wire system and needs to be upgraded to a fully supervised system. The basic wiring for the phone and network system is in place, but would require all the head end equipment should the facility be put back into service. The school has been abandoned and is not in use at the time of this review. Generally this facility is in marginal condition.

Rating Guide		
<b>Condition Rating</b>	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\*

(1960/1972) Cast in place concrete strip-footing foundations.

 Rating
 Installed
 Design Life
 Updated

 5 - Good
 0
 100
 NOV-05

# A1030 Slab on Grade\*

(1960/1972) Cast in place concrete floor slab.

RatingInstalledDesign LifeUpdated5 - Good0100NOV-05

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

(1960) Cast in place concrete and concrete masonry walls in basement mechanical room and access tunnels.

RatingInstalledDesign LifeUpdated5 - Good0100NOV-05

#### B1010.01 Floor Structural Frame\*(Building Frame)

(1960) Cast in place concrete floors to main floor corridors abive basement service tunnels.

RatingInstalledDesign LifeUpdated5 - Good0100NOV-05

#### B1010.02 Structural Interior Walls Supporting Floors\*

(1960) Cast in place concrete basement walls supporting cast in place concrete floors above service tunnels.

 Rating
 Installed
 Design Life
 Updated

 5 - Good
 0
 100
 NOV-05

# B1010.09 Floor Construction Fireproofing\*

(1960) Fire rated concrete floors above basement service tunnels.

RatingInstalledDesign LifeUpdated6 - Excellent0100NOV-05

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

(1960) Foam and batt types.

RatingInstalledDesign LifeUpdated5 - Good0100NOV-05

#### **B1010.11 Other Floor Construction\***

(1960) Wood framed floors to gymnasium stage and staff workroom and some classrooms.

Rating Installed Design Life Updated
5 - Good 0 100 NOV-05

# B1020.01 Roof Structural Frame\* (1960 Wing)

(1960 wing) Glulam beams supported on concrete masonry walls, supporting wood decking.

 Rating
 Installed
 Design Life
 Updated

 5 - Good
 0
 100
 NOV-05

# B1020.01 Roof Structural Frame\* (1972 Wing)

(1972 wing) OWSJ supporting metal deck; supported on concrete masonry walls.

RatingInstalledDesign LifeUpdated5 - Good0100NOV-05

# B1020.04 Canopies\*

(1960, 1972) Painted steel columns supporting T&G wood decking/roofs.

RatingInstalledDesign LifeUpdated4 - Acceptable0100NOV-05

# B1020.06 Roof Construction Fireproofing\*

(1960, 1972) Fire rated roof assemblies; non-sprinklered building.

Rating	<u>Installed</u>	Design Life	<u>Updated</u>
4 - Acceptable	0	100	NOV-05

# S2 ENVELOPE

# B2010.01.02.01 Brick Masonry: Ext. Wall Skin\*

(1960, 1972) Brick veneer to portions of building exterior.

RatingInstalledDesign LifeUpdated4 - Acceptable075NOV-05

# B2010.01.06.04 Wood Siding\*\*

(1960) Wood siding sections on west and south faces.

RatingInstalledDesign LifeUpdated4 - Acceptable040NOV-05

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

(1960) Stucco finishes to west and south faces.

RatingInstalledDesign LifeUpdated4 - Acceptable075NOV-05

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

(1960, 1972) Polyeurethane joint sealers at exterior material transition locations.

RatingInstalledDesign LifeUpdated4 - Acceptable015NOV-05

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

(1960, 1972) Exterior concrete block firewalls, exit doors, concrete base.

 Rating
 Installed
 Design Life
 Updated

 2 - Poor
 0
 15
 NOV-05

# Event: Painted finish to exterior concrete block firewalls, grilles, concrete foundation base, some wood exit doors.

#### Concern:

Painted finishes to these exterior building components are peeling and require refinishing.

# Recommendation:

Repaint these components.

TypeYearCostPriorityFailure Replacement2006\$64,200Medium

Updated: February 15 2006



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

(1960) Concrete block firewalls and exterior veneer.

RatingInstalledDesign LifeUpdated2 - Poor0100NOV-05

#### **Event:** Concrete masonry veneer, 1960 Wing

#### Concern:

Deterioration of mortar joints in the concrete block veneer in the north west corner of the 1960 wing is evidence of some structural failure.

#### Recommendation:

Undertake remedial action to the concrete block veneer. A structural analysis is recommended beforehand.

TypeYearCostPriorityRepair2006\$85,600Medium

Updated: February 15 2006



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

(1960, 1972) Wood framed exterior walls.

RatingInstalledDesign LifeUpdated4 - Acceptable0100NOV-05

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

(1960, 1972) Exact composition and condition of exterior walls unknown.

RatingInstalledDesign LifeUpdated4 - Acceptable020NOV-05

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

(1960, 1972) Painted metal grilles.

RatingInstalledDesign LifeUpdated4 - Acceptable020NOV-05

#### B2010.09 Exterior Soffits\*

(1960, 1972) Painted plywood soffits.

RatingInstalledDesign LifeUpdated4 - Acceptable020NOV-05

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

(1972) Double glazed units

 Rating
 Installed
 Design Life
 Updated

 4 - Acceptable
 0
 35
 NOV-05

# B2020.01.01.06 Vinyl, Fibreglass &Plastic Windows\*\*

(1960) Double glazed units

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

#### B2030.01.10 Wood Entrance Door\*\*

(1960, 1972) Wood main entry vestibule doors in painted wood and metal frames.

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

# B2030.05 Other Exterior Doors\*\*

(1960, 1972) Wood exit doors in painted metal and wood frames.

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

# B3010.01 Deck Vapor Retarder and Insulation\*

(1960) New rigid insulation as part of recent roofing replacement.

RatingInstalledDesign LifeUpdated6 - Excellent050NOV-05

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

(1972)

RatingInstalledDesign LifeUpdated4 - Acceptable025NOV-05

# B3010.04.04 Modified Bituminous Membrane Roofing (SBS)\*\*

(1960) Recent SBS roofing replacement (2002).

RatingInstalledDesign LifeUpdated6 - Excellent025NOV-05

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

(1960) Plexiglass skylights in corridor.

RatingInstalledDesign LifeUpdated4 - Acceptable020NOV-05

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

(1960) Metal access ladder and roof hatch.

RatingInstalledDesign LifeUpdated4 - Acceptable00NOV-05

# S3 INTERIOR

# C1010.01 Interior Fixed Partitions\*

(1960, 1972) Concrete masonry partitions.

RatingInstalledDesign LifeUpdated5 - Good050NOV-05

# C1010.02 Interior Demountable Partitions\*

(1972) Library area and entire 1972 wing.

RatingInstalledDesign LifeUpdated5 - Good030NOV-05

#### C1010.05 Interior Windows\*

(1960) GWG glazing to corridor transoms.

RatingInstalledDesign LifeUpdated4 - Acceptable040NOV-05

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

(1960, 1972) Foam and batt type.

RatingInstalledDesign LifeUpdated4 - Acceptable050NOV-05

#### C1020.01 Interior Swinging Doors\*\*

(1960, 1972) Painted/stained wood doors in painted wood/metal frames.

RatingInstalledDesign LifeUpdated4 - Acceptable050NOV-05

# C1020.03 Interior Fire Doors\*

(1960, 1972) Fire rated wood and metal doors in metal frames.

RatingInstalledDesign LifeUpdated4 - Acceptable050NOV-05

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

(1960, 1972) Chalkboards, whiteboards, tackboards.

RatingInstalledDesign LifeUpdated4 - Acceptable010NOV-05

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

(1960, 1972) Prefinished metal toilet partitions.

RatingInstalledDesign LifeUpdated4 - Acceptable020NOV-05

# C1030.08 Interior Identifying Devices\*

(1960, 1972) Interior signage.

 Rating
 Installed
 Design Life
 Updated

 4 - Acceptable
 0
 10
 NOV-05

#### C1030.12 Storage Shelving\*

(1960, 1972) Metal and painted wood storage shelving.

RatingInstalledDesign LifeUpdated4 - Acceptable020NOV-05

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

(1960, 1972) Mirrors and toilet paper, napkin and paper towel dispensers.

RatingInstalledDesign LifeUpdated4 - Acceptable020NOV-05

#### C2010 Stair Construction\*

(1960) Metal grate stairs to basement mechanical room; wood stairs to storage areas.

RatingInstalledDesign LifeUpdated4 - Acceptable0100NOV-05

# C2020.08 Stair Railings and Balustrades\*

(1960) Painted metal and wood railings.

RatingInstalledDesign LifeUpdated4 - Acceptable050NOV-05

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

(1960) Painted/wood stairs.

RatingInstalledDesign LifeUpdated4 - Acceptable00NOV-05

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

(1960, 1972) Painted concrete walls on main floor and portions of basement mechanical room.

RatingInstalledDesign LifeUpdated4 - Acceptable0100NOV-05

#### C3010.02 Wall Paneling\*\*

(1960) Sections of painted/stained plywood panelling in gym.

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

# C3010.04 Gypsum Board Wall Finishes\*

(1960, 1972)

RatingInstalledDesign LifeUpdated4 - Acceptable040NOV-05

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

(1960, 1972) Ceramic tile to some washrooms.

RatingInstalledDesign LifeUpdated4 - Acceptable050NOV-05

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

(1960, 1972)

RatingInstalledDesign LifeUpdated4 - Acceptable05NOV-05

#### C3010.14 Other Wall Finishes\*\*

(1960) Spratex wall finishes to sections of gym.

RatingInstalledDesign LifeUpdated4 - Acceptable00NOV-05

#### C3020.01 Concrete Floor Finishes (Paint)\*

(1960) Painted concrete floor to basement mechanical room.

RatingInstalledDesign LifeUpdated4 - Acceptable075NOV-05

#### C3020.02 Tile Floor Finishes\*\*

(1960, 1972) Quarry tile to vestibules and washrooms.

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

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

(1960) Terrazzo flooring in corridor to student washrooms.

RatingInstalledDesign LifeUpdated4 - Acceptable070NOV-05

#### C3020.04 Wood Flooring\*\*

(1960) Stage and gymnasium.

RatingInstalledDesign LifeUpdated4 - Acceptable025NOV-05

#### C3020.07 Resilient Flooring\*\*

(1960) Sheet flooring and VCT to some classrooms/corridors.

RatingInstalledDesign LifeUpdated4 - Acceptable020NOV-05

# C3020.08 Carpet Flooring\*\*

(1960, 1972) Library, administration, some classrooms.

RatingInstalledDesign LifeUpdated4 - Acceptable010NOV-05

#### C3030.01 Concrete Ceiling Finishes\*

(1960) Painted concrete ceiling in basement mechanical room.

RatingInstalledDesign LifeUpdated4 - Acceptable0100NOV-05

# C3030.04 Gypsum Board Ceiling Finishes\*

(1960, 1972)

RatingInstalledDesign LifeUpdated4 - Acceptable050NOV-05

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

(1960, 1972) New acoustic tile ceilings in classrooms to be installed in conjunction with unit ventilator upgrades described in Section D3050.05.07.

RatingInstalledDesign LifeUpdated4 - Acceptable025NOV-05

# C3030.07 Interior Ceiling Painting\*\*

(1960, 1972) Painted gypsum board ceilings.

RatingInstalledDesign LifeUpdated4 - Acceptable010NOV-05

# C3030.09 Other Ceiling Finishes\*

(1960) Glue on acoustic ceiling tiles to classrooms.

RatingInstalledDesign LifeUpdated4 - Acceptable010NOV-05

# **S4 MECHANICAL**

#### D2010.01 Water Closets\*\*

1998 new floor mounted vitreous china flush valve type water closets.

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

#### D2010.02 Urinals\*\*

Original recessed vitreous china tank type urinals.

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

#### D2010.03 Lavatories\*\*

1998 new wall hung vitreous china lavatories.

 Rating
 Installed
 Design Life
 Updated

 5 - Good
 0
 30
 NOV-05

#### D2010.04 Sinks\*\*

Original enamelled steel counter top sinks(classroom sinks general purpose).

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

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

1998 new vitreous china drinking fountains.

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

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

All domestic water piping is copper pipe.

RatingInstalledDesign LifeUpdated4 - Acceptable040NOV-05

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

Incoming water service and boiler makeup water line are equiped with backflow preventors.

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

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

Original domestic hot water recirculation pump.

RatingInstalledDesign LifeUpdated4 - Acceptable020NOV-05

# D2020.02.04 Domestic Water Conditioning Equipment\*\*

Original water softener for the humidification steam boiler.

RatingInstalledDesign LifeUpdated4 - Acceptable020NOV-05

#### D2020.02.06 Domestic Water Heaters\*\*

1998 36MBH,40GAL residential water heater.

RatingInstalledDesign LifeUpdated4 - Acceptable020NOV-05

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

All domestic water piping is insulated with fiberglass pipe insulation.

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

# D2030.01 Waste and Vent Piping\*

Original bell and spigot cast iron waste and vent piping.

RatingInstalledDesign LifeUpdated4 - Acceptable050NOV-05

# D2040.01 Rain Water Drainage Piping Systems\*

Original bell and spigot cast iron rain water piping.

RatingInstalledDesign LifeUpdated4 - Acceptable050NOV-05

#### D2040.02.04 Roof Drains\*\*

All roof drain are original cast iron and steel roof drains.

RatingInstalledDesign LifeUpdated4 - Acceptable040NOV-05

# D3010.02 Gas Supply Systems\*

Natural gas piping is original scheduled steel pipe.

RatingInstalledDesign LifeUpdated4 - Acceptable050NOV-05

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

Original Liberty hot water heating boiler.

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

Event: Replacement of heating boiler, mechanical room piping and valves.

#### Concern:

Existing boiler is energy inefficient and cannot provide heating back up. It is also past its life cycle.

#### Recommendation:

Replace the single boiler with multiple boilers, and mechanical room hot water piping and valves.

TypeYearCostPriorityLifecycle Replacement2009\$240,750Unassigned

Updated: February 15 2006

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

Original chimmney and combustion air intake.

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

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

Manual water treatment system.

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

#### D3040.01.01 Air Handling Units: Air Distribution\*\*1972 Addition.

Original Trane T50U cabinet fan with glycol coil, filter section and steam grid humidifier.

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

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

Low efficiecy fiberglass filters are provided in the air handling unit and in the unit ventilators.

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

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

All supply and return ductwork is galvanized sheet metal.

Rating	<b>Installed</b>	Design Life	<u>Updated</u>
4 - Acceptable	0	50	NOV-05

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

All air inlets and outlets are steel diffuseers or grilles.

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

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

Hot water distribution system is original scheduled steel pipe and with five distribution zones all each with a Grunfos Series 80-80 UMC inline pump.

RatingInstalledDesign LifeUpdated4 - Acceptable040NOV-05

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

General exhaust fans which provide exhaust for washrooms, classrooms and storage areas. A seperate exhaust fan exhaust the gymnasium.

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

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

All exhaust ductwork is galvanized sheet metal.

RatingInstalledDesign LifeUpdated4 - Acceptable00NOV-05

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

All exhaust inlets and outlets are original steel diffuseers or grilles.

RatingInstalledDesign LifeUpdated4 - Acceptable00NOV-05

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

Water to glycol heat exchanger for the 1972 airhandling unit coil.

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

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

Original for the 1972 addition a Wiel Mclain steam boiler for a humidification grid located in the airhandling unit for the 1972 addition.

RatingInstalledDesign LifeUpdated4 - Acceptable025NOV-05

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

Original located in entrance vestibules.

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

#### D3050.05.03 Finned Tube Radiation\*\*

Copper / aluminum finn tube radiation for perimeter heating throughout the building.

RatingInstalledDesign LifeUpdated4 - Acceptable040NOV-05

#### D3050.05.06 Unit Heaters\*\*

Original hot water unit heater in the mechanical room.

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

#### D3050.05.07 Unit Ventilators\*\*

Original hot water unit ventilators in the original 1960 school.

 Rating
 Installed
 Design Life
 Updated

 2 - Poor
 0
 30
 NOV-05

# **Event:** Replacement of unit ventilators.

#### Concern:

Unit ventilators are obsolete(repaire parts are not available)

#### Recommendation:

Replace the units with a new central ventilation unit and perimeter hot water heating

TypeYearCostPriorityFailure Replacement2007\$449,400High

Updated: February 15 2006

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

All heating and ventilation equipment control as well as temperature controls are pneumatic.

RatingInstalledDesign LifeUpdated4 - Acceptable040NOV-05

#### **Event: Control system replacement.**

#### Concern:

Control system is past its life cycle and energy inefficient.

#### Recommendation:

Replace existing control system with a new DDC control system.

TypeYearCostPriorityLifecycle Replacement2010\$69,550Medium

Updated: February 15 2006

#### D4020 Standpipes\*

Original 40mm hose and reel standpipe system.

RatingInstalledDesign LifeUpdated4 - Acceptable050NOV-05

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

Fire extiguishers are located throughout the school.

Rating	<u>Installed</u>	Design Life	<u>Updated</u>
4 - Acceptable	0	30	NOV-05

#### S5 ELECTRICAL

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

FPE 400A, 120/208V, 3 Phase main breaker combination CDP service entrance panelboard.

RatingInstalledDesign LifeUpdated4 - Acceptable040NOV-05

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

FPE Panelboards through out, most near capacity.

RatingInstalledDesign LifeUpdated4 - Acceptable025NOV-05

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

Loose motor starters are old G.E. contactors with remote push button controls. Newer starters are Allen Bradley, Klockner Moller and Square "D".

RatingInstalledDesign LifeUpdated4 - Acceptable00NOV-05

#### **Event:** Replace the G.E. loose motor starters.

#### Concern:

The old original G.E. motor starters are at the end of their life cycle.

#### Recommendation:

Replace the G.E. starters with new.

TypeYearCostPriorityLifecycle Replacement2010\$3,210Low

Updated: January 18 2006

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

Original branch circuit wiring and devices through out. Most devices are in good working condition.

RatingInstalledDesign LifeUpdated4 - Acceptable050NOV-05

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

Incandescent fixtures in small storage rooms and closets.

RatingInstalledDesign LifeUpdated4 - Acceptable030NOV-05

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

Surface mounted 1X4 fixtures in the corridors, Suspended row mounted egg crate type fixtures in the calssrooms, row mounted 1X4 fixtures in the gym. All fixtures are t-12 lamps with electronic ballasts.

RatingInstalledDesign LifeUpdated3 - Marginal030NOV-05

**Event:** Replace T-12 type light fixtures with T-8 lamps and electronic ballasts.

#### Concern:

All the existing florescent fixtures are T-12 lamp and magnetic ballast fixtures, generally producing poor light levels.

#### Recommendation:

Replace the T-12 fixtures with T-8 lamps and electric ballasts for improved light level and reduced operating and maintenance costs.

TypeYearCostPriorityProgram Functional Upgrade2009\$139,100Low

Updated: January 18 2006

# D5020.02.03 Emergency Lighting\*

Emergency battery packs and remote heads.

RatingInstalledDesign LifeUpdated3 - Marginal00NOV-05

Event: Replace the emergency battery packs and add addition remote heads, connect DC power source to the exit lights.

#### Concern:

Additional remote heads need to be added in the corridors, washrooms, library and the large open areas on the South side of the school. The battery packs are nearing the end of their lifecycle and would require upgrading to accommodate the additional remote heads.

#### Recommendation:

Install new and addition battery packs and remote heads.

TypeYearCostPriorityCode Upgrade2008\$4,280Low

Updated: January 18 2006

#### D5020.02.03.03 Exit Signs

Original incandescent type exit lights through out most of the school.

RatingInstalledDesign LifeUpdated3 - Marginal00NOV-05

#### **Event: Replace the original exit lights**

#### Concern:

The exit lights are incandescent type, offering poor illumination of the egress routes and require high maintenance.

#### Recommendation:

Replace the original exit lights with LED type exit lights for improved visibility and decreased operating and maintenance costs. Connect to the exist emergency battery packs.

TypeYearCostPriorityProgram Functional Upgrade2008\$11,770Low

Updated: January 18 2006

# D5020.03.01.03 Exterior Metal Halide Fixtures\*

HID lighting are a combination of wall packs and under eave fixtures.

RatingInstalledDesign LifeUpdated2 - Poor00NOV-05

#### Event: Replace damaged exterior light fixtures.

#### Concern:

Many of the exterior fixture are damaged, broken lenses and lamps.

#### Recommendation:

Replace the exterior light fixtures with vandal resistant type fixtures.

TypeYearCostPriorityFailure Replacement2006\$3,210Low

Updated: January 18 2006

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

The fire alarm system is a 120V, 3 wire system with no supervision capabilities.

Rating 2 - Poor 0 25 Updated NOV-05

#### **Event:** Install a fully supervised fire alarm system

#### Concern:

The existing 120V, 3 wire fire alarm system is a unsupervised system. There is no way of knowing if there are any deficiencies on the system.

#### Recommendation:

Install a fully supervised fire alarm system complete with bell/strobe signalling devices. Connect to the monitoring agent.

TypeYearCostPriorityCode Upgrade2007\$48,150High

Updated: January 18 2006

# D5030.02.02 Intrusion Detection\*\*

Silent Knight security system with motion sensors in the corridors, office area and in the computer lab.

RatingInstalledDesign LifeUpdated4 - Acceptable025NOV-05

# D5030.03 Clock and Program Systems\*\*

Simplex master clock system in the main office area.

RatingInstalledDesign LifeUpdated4 - Acceptable025NOV-05

#### D5030.04.01 Telephone Systems\*\*

Wiring and outlet to each classroom and staff areas. The phone switch and hand sets have been removed

RatingInstalledDesign LifeUpdated4 - Acceptable025NOV-05

#### D5030.04.04 Data Systems\*\*

Cat 5 cabling to the administration areas. No data outlets in the class room. Wall mounted data rack located in the library. All the network hubs and patch panels have been removed.

RatingInstalledDesign LifeUpdated4 - Acceptable025NOV-05

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

Bogen P.A. system.

RatingInstalledDesign LifeUpdated4 - Acceptable020NOV-05

# **S6 EQUIPMENT, FURNISHINGS AND SPECIAL CONSTRUCTION**

#### E1020.03 Theater and Stage Equipment\*

(1960) Stage curtains.

RatingInstalledDesign LifeUpdated4 - Acceptable025NOV-05

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

(1960) Gym climbers, basketball backstops.

RatingInstalledDesign LifeUpdated5 - Good015NOV-05

# E2010.02.05 Educational Facility Casework\*

(1960, 1972) Painted plywood, plastic laminate millwork in administration and some classrooms.

RatingInstalledDesign LifeUpdated4 - Acceptable035NOV-05

#### E2010.02.09 Library Casework\*

(1972) Birch veneer and plastic laminate units.

RatingInstalledDesign LifeUpdated5 - Good035NOV-05

#### E2010.02.99 Other Casework\*

(1960, 1972) Metal shelving with original unit ventilators; new casework is required in all classrooms to coordinate with the recommended ventilations system upgrades described in D3050.05.07.

RatingInstalledDesign LifeUpdated4 - Acceptable00NOV-05

#### E2010.03.01 Blinds\*\*

(1960, 1972) Roller blinds in staff room; venetian blinds in classrooms.

RatingInstalledDesign LifeUpdated5 - Good035NOV-05

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

(1960) Divider accordian in gymnasium.

RatingInstalledDesign LifeUpdated4 - Acceptable035NOV-05

#### E2020 Moveable Furnishings\*

(1960, 1972) Classroom and administration furnishings.

Rating Installed Design Life Updated 5 - Good 0 NOV-05

# **S8 FUNCTIONAL ASSESSMENT**

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

Access to the school is only via steps.

RatingInstalledDesign LifeUpdated3 - Marginal00NOV-05

**Event: Provide barrier free access to entrance** 

Concern:

No barrier free access to entrance.

**Recommendation:** 

Provide barrier free ramp to main entrance.

Type Year Cost Priority
Barrier Free Access Upgrade 2006 \$16,050 Medium

Updated: February 15 2006

#### K4010.02 Barrier Free Entrances

The main entrance is not provided with barrier free door hardware.

RatingInstalledDesign LifeUpdated3 - Marginal00NOV-05

**Event:** Provide barrier free main entrance.

Concern:

The school has no barrier free entrance.

**Recommendation:** 

Provide barrier free door operators to main entrance.

TypeYearCostPriorityBarrier Free Access Upgrade 2006\$3,210Medium

Updated: February 15 2006

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

Rating Installed Design Life Updated 5 - Good 0 NOV-05

#### K4010.04 Barrier Free Washrooms

RatingInstalledDesign LifeUpdated6 - Excellent00NOV-05

# **RECAPP Facility Evaluation Report**

**Ogden Elementary School** 

S2733 Calgary

# Calgary - Ogden Elementary School (S2733)

# **Facility Details**

Building Name: Ogden Elementary School

Address:

**Location:** Calgary

Building Id: \$2733
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: \$2,675 5 year Facility Condition Index (FCI): 0%

# **General Summary:**

The school site is relatively flat and all site-related components - lawns, parking lots, playground equipment, sidewalks - are in good to acceptable condition.

# **Structural Summary:**

# **Envelope Summary:**

#### **Interior Summary:**

# **Mechanical Summary:**

#### **Electrical Summary:**

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

#### S7 SITE

G2020.02.02 Flexible Paving Parking Lots(Asphalt)\*\*

Rating Installed Design Life Updated

4 - Acceptable 0 0

G2020.05 Parking Lot Curbs and Gutters\*

Cast in place concrete

Rating Installed Design Life Updated

4 - Acceptable 0 0

G2020.06.03 Parking Lot Signs\*

Rating Installed Design Life Updated

4 - Acceptable 0 0

G2020.06.04 Pavement Markings\*

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

4 - Acceptable 0 0

G2030.02.02 Asphalt Pedestrain Pavement\*\*

Student playground area.

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

4 - Acceptable 0 0

G2030.04 Rigid Pedestrian Pavement (Concrete)\*\*

Concrete sidewalks at streetside and to main / secondary entries

Rating Installed Design Life Updated

4 - Acceptable 0 0

G2030.06 Exterior Steps and Ramps\*

Concrete steps on the south side of the school will require replacement in the near future.

Rating Installed Design Life Updated

4 - Acceptable 0 0

G2040.02 Fences and Gates\*\*

Frost fencing to parking lot and playgrounds

Rating Installed Design Life Updated

4 - Acceptable 0 0

G2040.03 Athletic and Recreational Surfaces\*\*

Grassed play areas.

Rating Installed Design Life Updated

4 - Acceptable 0 0

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G2040.06 Exterior Signs\*

Building face sign.

Rating Installed Design Life Updated

4 - Acceptable 0 0

G2040.08 Flagpoles\*

Wood type

Rating Installed Design Life Updated

4 - Acceptable 0 0

G2050.04 Lawns and Grasses\*

Rating Installed Design Life Updated

4 - Acceptable 0 0

G2050.05 Trees, Plants and Ground Covers\*

Various shrubs, deciduous and coniferous trees at front of school

Rating Installed Design Life Updated

4 - Acceptable 0 0

G3010.02 Site Domestic Water Distribution\*

Original 50mm water service with new bcakflow preventor installed (1998).

Rating Installed Design Life Updated

4 - Acceptable 0 0

G3020.01 Sanitary Sewage Collection\*

Sanitary main is connected to City sanitary service.

Rating Installed Design Life Updated

4 - Acceptable 0 0

G3030.01 Storm Water Collection\*

Storm water from the building and parking lot are connected to the City storm service.

Rating Installed Design Life Updated

4 - Acceptable 0

G3060.01 Gas Distribution\*

Natural gas service is connected to utility main.

Rating Installed Design Life Updated

4 - Acceptable 0 0

G4010.02 Electrical Power Distribution Lines\*

Underground utility line from the pad mounted utility transformer.

Rating Installed Design Life Updated

4 - Acceptable 0 0

# G4010.04 Car Plugs-ins\*

Car plugs are surface mounted conduit onto a wood railing that separated the parking area.

Rating Installed Design Life Updated

3 - Marginal 0 0

# **Event:** Add control for the parking lot car plug-ins.

#### Concern:

There is no time clock and/or temperature control for the car plugs. The wood railing supporting the surface mounted conduit is in disrepair.

#### Recommendation:

Add a time clock and temperature sensor to control the car plug-ins. Replace the wood structure supporting the car plugs and conduit with steel railing.

TypeYearCostPriorityFailure Replacement2009\$2,675High

Updated: February 22 2006