School: Chief Justice Milvain Date: March 14, 2000

| School Name | Chief Jus | stice Milv | ain Elementary | | School Code: | 9361 |
|--------------------------|----------------|------------------|----------------------------|--|---|-------------------------|
| Location: | 3428 - 42 | 2nd Stree | et N.E. | | Facility Code: | 1567 |
| Region: | South | | | | Superintendent: | Dr. Donna Michaels |
| Jurisdiction: | Calgary - | - District | 19 | | Contact Person: | Leanne Soligo |
| | 0 , | | | | Telephone: | (403) 214-1123 |
| Grades: | K - 6 | | | | School Capacity: | Total - 500 |
| Building Section | Year of Compl. | No. of Floors | Gross Bldg Area (Sq.M.) | Type of Construction (i.e., structure, roof, cladding) | Description of Mechanical Systems (incl. major upgrades) | Comments/Notes |
| Original Building | 1981 | 1 | 3054.77 | Concrete slab on grade, masonry walls, steel roof deck on steel structure. | Older school with combination central air and hot water heater systems in good condition. | |
| Additions/ Expansions | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | Evaluator's Name: | Harvey Bernbaum |
| | | | | | & Company: | Bernbaum Architect Ltd. |

| Upgrading/ Modernization (identify whether minor or major) | None | | | None | | None |
|--|------|---|--------------------------------|-----------------------------------|---|-------------------------------|
| Portable Struct. (identify whether attached/perman. or free-standing/ relocatable) | | | | | | |
| | 1981 | 1 | 786.24 | Attached relocatable. Wood frame. | Acceptable mechanical and electrical systems. | Metal cladding and wood base. |
| | | | 3841.01 Total Gross Area | | | |
| | | | | | | |
| List of Reports/ Supplementary Information | | | | None available. | | |
| | | | | 2. Assistance from: | | |
| | | | | Marco Mariani, Custodian | | |

| Evaluation Components | Summary Assessment | Estim. Cost | | | | | |
|--|--|-------------|--|--|--|--|--|
| 1 Site Conditions | Signage alteration; provision of disabled stall; provide front ramp for disabled. | | | | | | |
| 2 Building Exterior | Caulking windows, repaint and stain as immediate repairs. New doors and windows in longer term. Renovations to accommodate mechanical upgrades. Restain soffits. | | | | | | |
| 3 Building Interior | For carpet replacement and making barrier free accessible; repainting; white boards; millwork upgrades. | \$137,000 | | | | | |
| 4 Mechanical Systems | Older school with acceptable mechanical systems although some storage rooms have been turned into study/work areas for students, have no supply air or return air. Need back flow prevention on main service. A major mechanical upgrade is recommended. | \$775,986 | | | | | |
| 5 Electrical Systems | Older school with acceptable electrical systems. Exit lights should be connected to battery packs. Upgrading to new technology is recommended. | | | | | | |
| 6 Portable Buildings | Units have newer furnaces equipped with air conditioning and acceptable electrical systems, and only minor repairs are required. | \$10,300 | | | | | |
| 7 Space Adequacy: | | | | | | | |
| 7.1 Classrooms | Very deficient in number of rooms, but portables are not counted402.4 | 9 | | | | | |
| 7.2 Science Rooms/Labs | A little small. | 4 | | | | | |
| 7.3 Ancillary Areas | Computer area does not have its own room308.1 | 6 | | | | | |
| 7.4 Gymnasium | -20.1 | 6 | | | | | |
| 7.5 Library/Resource Areas | Actually includes computer room as part of this area. 94.0 | 3 | | | | | |
| 7.6 Administration/Staff Areas | -203.3 | 2 | | | | | |
| 7.7 CTS Areas | - | | | | | | |
| 7.8 Other Non-Instructional Areas (incl. gross-up) | -27.7 | 5 | | | | | |
| Overall School Conditions & Estim. Costs | <u> </u> | \$1,359,78 | | | | | |

| | Site Conditions | Rating | Comments/Concerns | Estim. Cost |
|-------|--|--------|--|-------------|
| 1.1 | General Site Conditions | | | |
| 1.1.1 | Overall site size. | 4 | Generous, rolling and interesting sloped site. | |
| | | | | |
| | | | | |
| | | | | |
| 1.1.2 | Outdoor athletic areas. | 4 | Play fields. | |
| | | | | |
| | | | | |
| 4.4.0 | | | - · · · | |
| | Outdoor playground areas, including condition of equipment and base. | 4 | Two creative play areas. | |
| | equipment and base. | | | |
| | | | | |
| 1.1.4 | Site landscaping. | 4 | Mature. | |
| | | | madio. | |
| | | | | |
| | | | | |
| 1.1.5 | Site accessories (i.e., perimeter and other fencing, | 4 | Perimeter chain link fence. | |
| | guard rails, bike stands, flag poles). | | | |
| | | | | |
| | | | | |
| 1.1.6 | Surface drainage conditions (i.e., drains away from building, signs of ponding). | 4 | No problems noted. | |
| | building, signs or portaing). | | | |
| | | | | |
| 117 | Evidence of sub-soil problems. | 4 | None apparent. | |
| 1 | Evidence of our problems. | - | тчого аррагопа. | |
| | | | | |
| | | | | |
| 1.1.8 | Safety and security concerns due to site conditions. | 4 | None apparent. | |
| | | | | |
| | | | | |
| | | | | |
| Other | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Section 1 | Site Conditions | Rating | Comments/Concerns | Estim. Cost |
|-----------|--|--------|---|-------------|
| 1.2 | Access/Drop-Off Areas/Roadways/Bus Lanes | | | |
| 1.2.1 | Vehicular and pedestrian access points (i.e., size, number, visibility, safety). | 4 | City lane and city streets used. Handicap drop off could be gained at N.E. corner if required. | |
| 1.2.2 | Surfacing of on-site road network (note whether asphalt or gravel). | 4 | Asphalt - adequate. | |
| 1.2.3 | Bus lanes/drop-off areas (note whether on-site or off-site). | n/a | City streets. | |
| 1.2.4 | Fire vehicle access. | n/a | City streets and lanes. | |
| 1.2.5 | Signage. | | Exterior sign on north face of building, difficult to see and read. Relocate, make bigger and repair sign location. | \$5,000 |
| Other | | | | |
| | | | | |

| Section 1 | Site Conditions | Rating | Comments/Concerns | Estim. Cost |
|-----------|--|--------|---|-------------|
| 1.3 | Parking Lots and Sidewalks | | | |
| 1.3.1 | Number of parking spaces for staff, students and visitors (including stalls for disabled persons). | 3 | Approximately 40 stalls - staff and visitors. Provide disabled persons stall c/w signage. | \$3,000 |
| 1.3.2 | Layout and safety of parking lots. | 4 | Fenced from play areas. Some dropping off occurs at lane beside parking, generating a little cross through traffic. There were no complaints. | |
| | Surfacing and drainage of parking lots (note whether asphalt or gravel). | 4 | Adequate - asphalt - drains to catch basin. | |
| 1.3.4 | Layout and safety of sidewalks. | 4 | Adequate. | |
| | Surfacing and drainage of sidewalks (note type of material). | 4 | Concrete - adequate. | |
| 1.3.6 | Curb cuts and ramps for barrier free access. | 3 | There is no access for disabled at the front entrance of the school, and an 18 riser stair to get from sidewalk to entry. Allowance should be made to create a broad ramp for the disabled to access the front entry. | \$30,000 |
| Other | | | | |
| | Overall Site Conditions & Estimated Costs | | | \$38,000 |

| Section 2 | Building Exterior | Rating | | Comments/Concerns | Estim. Cost |
|-----------|---|--------|---------|------------------------------|-------------|
| 2.1 | Overall Structure | | Bldg. | | |
| | L | | Section | <u>Description/Condition</u> | |
| 2.1.1 | Floor structure and beams (i.e., signs of bending, cracking, heaving, settlement, voids, rust, stains). | 4 | | No apparent problem. | |
| | cracking, neaving, settlement, voids, rust, stains). | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 2.1.2 | Wall structure and columns (i.e., signs of bending, | 4 | | No indication of problems. | |
| | cracking, settlement, voids, rust, stains). | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 0.4.0 | Donfortunation (i.e. sings of bonding and big world | | | | |
| 2.1.3 | Roof structure (i.e., signs of bending, cracking, voids, rust, stains). | 4 | | No indication of problems. | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 2.1.4 | Control/expansion joints. | 4 | | No indication of problems. | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Other | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Section 2 | Building Exterior | Rating | | Comments/Concerns | Estim. Cost |
|-----------|---|--------|--|--|-------------|
| | Roofing and Skylights Identify the availability of an up-to-date inspection report or roofing program. Note if roof sections are of different ages and/or in varying | | Bldg. Section or Roof Section | | |
| | Based on the inspection report (and to the extent possible, direct observation), assess and rate roof conditions and estimate costs for required improvements (i.e., covering materials, membrane, insulation, other components). | F.I. | SECTION | No roof report. Roof leaks in several spots. Scheduled for re-roof this Spring. Roof report should be completed if one does not exist. | |
| | Roof accessories (i.e., ladders, stairs, hatches, masts, exhaust hoods, chimneys, gutters, downspouts, splashpads). | F.I. | | No apparent problems, but roof could not be viewed nor condition of accessories verified. | |
| 2.2.3 | Control of ice and snow falling from roof. | n/a | | Flat roof. | |
| 2.2.4 | Skylights (i.e., signs of distress, leaks, ice build-up, condensation, deteriorated materials/seals). | 4 | | Clear story windows in library show no sign of any leakage. | |
| Other | | | | | |

| Section 2 | Building Exterior | Rating | | Comments/Concerns | Estim. Cost |
|-----------|--|--------|---------|---|-------------|
| 2.3 | Exterior Walls/Building Envelope | | Bldg. | | |
| 2.3.1 | Exterior wall finishes (i.e., signs of deterioration, cracks, brick spalling, effluorescence, water stains). | 2 | Section | <u>Description/Condition</u> Masonry okay; panels under windows need paint. | \$5,000 |
| 2.3.2 | Fascias, soffits, parapets (i.e., signs of looseness, stains, rust, peeling paint). | 3 | | Restain wooden soffits at entrance and projections. | \$3,500 |
| 2.3.3 | Building envelope (i.e., evidence of air infiltration/ exfiltration through the exterior wall or ice build up on wall, eaves, canopy). | 4 | | No damage evident. | |
| 2.3.4 | Interface of roof drainage and ground drainage systems. | 4 | | Internal roof drainage to municipal system. | |
| 2.3.5 | Inside faces of exterior walls (i.e., signs of cracks, water stains, dust spots). | 4 | | Exterior porcelain panels falling, possible interior damage concealed beneath millwork. | |
| Other | | 3 | | Allowance for renovations related to mechanical upgrade. | \$30,000 |
| | | | | | |

| Section 2 | Building Exterior | Rating | | Comments/Concerns | Estim. Cost |
|-----------|---|--------|---------|---|-------------|
| 2.4 | Exterior Doors and Windows | | Bldg. | 5 | |
| 2.4.1 | Doors (i.e., signs of deterioration, rusting metal, glass cracks, peeling paint, damaged seals, sealed unit failure). | 2 | Section | <u>Description/Condition</u> No apparent problems for most. Exterior door on south side to be sanded, filled and repainted. | \$400 |
| | ialiule). | 3 | | Doors are reaching the end of their life cycle. Doors should be replaced in the next 3 to 5 years. | \$10,000 |
| 2.4.2 | Door accessories (i.e., latches, hardware, screens, locks, alarms, holders, closers, security devices). | 3 | | No apparent problems at present. Accessories should be replaced when doors replaced. | \$8,000 |
| 2.4.3 | Exit door hardware (i.e., safety and/or code concerns). | 3 | | No apparent problems at present. Replacement and upgrading should be scheduled when doors replaced. | \$5,000 |
| 2.4.4 | Windows (i.e., signs of deterioration, rusting metal, glass cracks, peeling paint, damaged seals, sealed unit failure). | 2 | | Caulking around windows - dry and cracking - clean and recaulk. | \$9,000 |
| | | | | No apparent problems at present. Window replacement should be scheduled as they are at the end of their life cycle. | \$170,000 |
| 2.4.5 | Window accessories (i.e., latches, hardware, screens, locks, alarms, holders, closers, security devices). | 3 | | No apparent problems. As above, replace when windows are replaced. See 2.4.4 for costs. | |
| 2.4.6 | Building envelope (i.e., signs of heavy condensation on doors or windows). | 4 | | No apparent problems. | |
| Other | | | | | |
| | | | | | |
| | Overall Bldg Exterior Condition & Estim Costs | | | | \$240,900 |

| Section 3 | Building Interior - Overall Conditions | Rating | | Comments/Concerns | Estim. Cost |
|-----------|---|----------|---------|--|-------------|
| 3.1 | Interior Structure | | Bldg. | | |
| 244 | Interior wells and northings (i.e. signs of areals | | Section | Description/Condition | |
| | Interior walls and partitions (i.e., signs of cracks, spalling, paint peeling). | 4 | | No apparent problem - walls are painted concrete block with some interior partitions covered in cloth. | |
| | opannig, panit poomig). | | | covered in cioni. | |
| | | | | | |
| | | | | | |
| | | | | | |
| 3.1.2 | Floors (i.e., signs of cracks, heaving, settlement). | 4 | | No apparent problem. | |
| | | | | | |
| | | | | | |
| | | | | | |
| 0.1 | | | | | |
| Other | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 3.2 | Materials and Finishes | | Bldg. | | |
| | | | Section | <u>Description/Condition</u> | |
| 3.2.1 | Floor materials and finishes. | 3 | | Floors are basically ceramic tile at entries, in washrooms and science rooms, wood floors in gym and music, and vinyl tile in corridors and coat closets, with carpet in classrooms. | \$25,000 |
| | | | | Need new carpet in ECS rooms. Patches elsewhere should be redone with better | |
| | | | | materials that matches more closely to the main body of the carpet. | |
| | | | | | |
| | | | | | |
| 3.2.2 | Wall materials and finishes. | 3 | | Painted concrete block/gypsum board with vinyl cloth - no apparent problems. Allow for repainting 80% of the school in next 3 to 5 years. | \$55,000 |
| | | | | repairting 60 % of the School in flext 3 to 3 years. | |
| | | | | | |
| | | | | | |
| | | <u> </u> | | | |
| 3.2.3 | Ceiling materials and finishes. | 4 | | Mainly t-bar - no apparent problems. | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Section 3 | Building Interior - Overall Conditions | Rating | | Comments/Concerns | Estim. Cost |
|-----------|---|--------|---------|---|-------------|
| 3.2 | Materials and Finishes (cont'd) | | Bldg. | | |
| | | | Section | <u>Description/Condition</u> | |
| 3.2.4 | Interior doors and hardware. | 4 | | No apparent problems. | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 3.2.5 | Millwork | 3 | | No apparent problems, but some upgrading required. Allow for modifications to better suit | \$25,000 |
| | | | | current use. | Ψ20,000 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 3.2.6 | Fixed/wall mounted equipment (i.e., writing boards, | 3 | | Adequate, but should be upgraded to white boards. | \$10,000 |
| | tackboards, display boards, signs). | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 227 | Any other fixed/mounted specialty items (i.e., CTS | 4 | | Adequate. | |
| 3.2.1 | equipment, gymnasium equipment). | 4 | | Auequale. | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 3.2.8 | Washroom materials and finishes. | 4 | | Adequate. | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| O44 | Window blinds. | _ | | Need you blinds in music years (was store) | ФС 222 |
| Other | williaow billias. | 2 | | Need new blinds in music room (gym stage). | \$2,000 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Section 3 | Building Interior - Overall Conditions | Rating | | Comments/Concerns | Estim. Cost |
|-----------|--|--------|------------------|--|-------------|
| 3.3 | Health and Safety Concerns Intent is to identify renovations considered necessary to meet applicable codes, primarily due to safety concerns. Basis of evaluation should be an up-to- | | Bldg. Section | Description/Condition | |
| | date inspection report from the authority having jurisdiction together with direct observations as appropriate. Evaluator should note if in his opinion a comprehensive code evaluation is | | | | |
| 3.3.1 | Building construction type - combustible or non- combustible, sprinklered or non-sprinklered. | 4 | | Non-combustible construction. Not sprinklered. | |
| 3.3.2 | Fire separations (i.e., between buildings, wings, zones if non-sprinklered). | 4 | | Adequate. | |
| 3.3.3 | Fire resistance rating of materials (i.e., corridor walls and doors). | 4 | | Adequate/concrete block. | |
| 3.3.4 | Exiting distances and access to exits. | 4 | | Adequate. | |
| 3.3.5 | Barrier-free access. | 3 | | Barrier free stalls appear a little small and should be upgraded. School is only 1 level except the stage of gym. Stalls in washrooms should be made to barrier free standards. Ramp to gym stage. | \$20,000 |
| 3.3.6 | Availability of hazardous materials audit (i.e., evidence of safety concerns with respect to asbestos, PCB's, chemicals). | F.I. | | Only small floor area (off gym stage - was kiln room) has some asbestos in floor tile. No hazardous materials report was available, and a report should be commissioned if none exists. | |
| 3.3.7 | Other health and safety concerns (i.e., evidence of excessive noise conditions, air quality problems) | 4 | | Adequate. | |
| Other | | | | | |
| | Overall Bldg Interior Condition & Estim Costs | | | | \$137,000 |

| Section 4 | Mechanical Systems | Rating | | Comments/Concerns | Estim. Cost |
|-----------|--|--------|------------------|---|-------------|
| 4.1 | Mechanical Site Services | | | | |
| 4.1.1 | Site drainage systems (i.e., surface and underground systems, catch basins). | 4 | | Paved parking complete with catch basin internal roof drainage. | |
| 4.1.2 | Exterior plumbing systems (i.e., irrigation systems, hose bibs). | 4 | | No irrigation, hose bibs have back flow prevention. | |
| 4.1.3 | Outside storage tanks. | n/a | | | |
| Other | | n/a | | | |
| 4.2 | Fire Suppression Systems | | Bldg. Section | Description/Condition | |
| 4.2.1 | Fire hydrants and siamese connections. | 4 | Section | On street - no siamese connection. | |
| 4.2.2 | Fire suppression systems (i.e., pumps, sprinklers, piping, reservoirs, hoses, stand pipes, CO2 systems). | n/a | | | |
| 4.2.3 | Hand extinguishers, blankets and showers (i.e., in CTS areas). | 4 | | Inspected April 1999. | |
| 4.2.4 | Other special situations (e.g., flammable storage areas, science labs, CTS areas). | n/a | | | |
| Other | | n/a | | | |

| ater Supply and Plumbing Systems mestic water supply (i.e., pressure, volume, quality te whether municipal or well supply). ater treatment system(s). Imps and valves (including backflow prevention lives). | 4 4 | Bldg. Section | City of Calgary. City of Calgary. | |
|---|---|---|---|--|
| te whether municipal or well supply). ater treatment system(s). Imps and valves (including backflow prevention | 4 | Section | City of Calgary. City of Calgary. | |
| ımps and valves (including backflow prevention | | | | |
| | 3 | | | |
| | | | No back flow prevention on main service. | \$3,000 |
| ping and fittings. | 4 | | Copper piping. | |
| umbing fixtures (i.e., toilets, urinals, sinks) | 4 | | Adequate. | |
| omestic hot water system (i.e., heater, storage nks, failure alarms, pressure, volume, recirculation). | 4 | | AO Smith - 75 Gallon, 328,500 complete with recirculation pump. | |
| unitary and storm sewers, including sumps and pits ofte whether sewage system is municipal or septic). | 4 | | City of Calgary. | |
| | 4 | | Gas meter in mechanical room - not in its own room | |
| un orr nk | nbing fixtures (i.e., toilets, urinals, sinks) nestic hot water system (i.e., heater, storage s, failure alarms, pressure, volume, recirculation). | nbing fixtures (i.e., toilets, urinals, sinks) 4 nestic hot water system (i.e., heater, storage s, failure alarms, pressure, volume, recirculation). itary and storm sewers, including sumps and pits a whether sewage system is municipal or septic). | nestic hot water system (i.e., heater, storage s, failure alarms, pressure, volume, recirculation). | hestic hot water system (i.e., heater, storage s, failure alarms, pressure, volume, recirculation). Adequate. AO Smith - 75 Gallon, 328,500 complete with recirculation pump. AO Smith - 75 Gallon, 328,500 complete with recirculation pump. City of Calgary. |

| Section 4 | Mechanical Systems | Rating | | Comments/Concerns | Estim. Cost |
|-----------|---|--------|---------|--|-------------|
| 4.4 | Heating Systems | | Bldg. | | |
| 4.4.1 | Heating capacity and reliability (including backup capacity). | 3 | Section | <u>Description/Condition</u> Hot water heating - two allied #AAE-1800-M output 1440/1000 BTU/HR complete with two pumps, perimeter radiation and force flows. A major mechanical upgrade is recommended. | \$197,000 |
| 4.4.2 | Heating controls (including use of current energy management technology. | 3 | | Pneumatic with air dryer/conventional controls. No energy management. See 4.7.1. | |
| 4.4.3 | Fresh air for combustion and condition of the combustion chimney. | 4 | | Combustion and relief air. | |
| 4.4.4 | Treatment of water used in heating systems. | 4 | | Pot feeder and micron filter by Calgary Board of Education. | |
| 4.4.5 | Low water cutoff/pressure relief valves and failure alarms (i.e., hot water heating). | 4 | | Adequate. | |
| 4.4.6 | Heating air filtration systems and filters. | 4 | | Adequate. | |
| 4.4.7 | Heating humidification systems and components. | 4 | | Wet media spray type. Adequate. | |
| | | | | | |

| Section 4 | Mechanical Systems | Rating | | Comments/Concerns | Estim. Cost |
|-----------|---|--------|---------|--|-------------|
| 4.4 | Heating Systems (cont'd) | | Bldg. | | |
| 4.4.8 | Heating distribution systems (i.e., piping, ductwork) and associated components (i.e., diffusers, radiators). | 3 | Section | Description/Condition Do a major ventilation upgrade at the same time as 4.4.1. | \$237,160 |
| 4.4.9 | Heating piping, valve and/or duct insulation. | 4 | | Adequate. | |
| 4.4.10 | Heat exchangers. | n/a | | | |
| 4.4.11 | Heating mixing boxes, dampers and linkages. | 4 | | Adequate. | |
| 4.4.12 | Heating distribution/circulation in larger spaces (i.e., user comfort, temperature of outside wall surfaces). | 4 | | Appears uniform. | |
| 4.4.13 | Zone/unit heaters and controls. | 4 | | Thermostat/classroom. | |
| Other | | n/a | | | |
| | | | | | |

| Section 4 | Mechanical Systems | Rating | | Comments/Concerns | Estim. Cost |
|-----------|--|--------|-------|---|-------------|
| | Ventilation Systems | | Bldg. | | |
| 4.5.1 | Air handling units capacity and condition. | 3 | | Description/Condition Eng-Air - appears in good condition. Units are now 20 years old and reaching the end of their life cycle. New system should be scheduled in next 3 to 5 years. | \$219,000 |
| 4.5.2 | Outside air for the occupant load (if possible, reference CFM/occupant). | 4 | | Appears okay. | |
| 4.5.3 | Air distribution system (if possible, reference number of air changes/hour). | 4 | | Appears okay. | |
| 4.5.4 | Exhaust systems capacity and condition. | 4 | | Appears okay. | |
| 4.5.5 | Separation of out flow from air intakes. | 4 | | Appears okay. | |
| 4.5.6 | Special/dedicated ventilation and/or exhaust systems (i.e., kitchen, labs, CTS areas). | n/a | | | |
| Other | | n/a | | | |
| | | | | | |

| Section 4 | Mechanical Systems | Rating | | Comments/Concerns | Estim. Cost |
|-----------|--|--------|---------|--|-------------|
| | Ventilation Systems (cont'd) | | Bldg. | | |
| | | | Section | <u>Description/Condition</u> | |
| | Note: Only complete the following items if there are separate ventilation and heating systems. | | | | |
| 4.5.7 | Ventilation controls (including use of current energy management technology). | 3 | | Pneumatic only, part of previous system. See 4.7.1. | |
| 4.5.8 | Air filtration systems and filters. | 4 | | Part of previous. | |
| 4.5.9 | Humidification system and components. | 4 | | Adequate. | |
| 4.5.10 | Heat exchangers. | n/a | | | |
| | Ventilation distribution system and components (i.e., ductwork, diffusers, mixing boxes, dampers, linkages). | 4 | | Part of previous. | |
| Other | | 3 | | Some storage rooms used as study room no return air. | \$5,200 |
| | | | | | |

| Section 4 | Mechanical Systems | Rating | | Comments/Concerns | Estim. Cost |
|-----------|---|--------|---------|---|-------------|
| 4.6 | Cooling Systems | | Bldg. | | |
| 4.6.1 | Cooling system capacity and condition (i.e., chillers, cooling towers, condensers). | 4 | Section | <u>Description/Condition</u> Direct expansion appears okay, condensing unit appears okay. | |
| 4.6.2 | Cooling distribution system and components (i.e., ductwork, diffusers, mixing boxes, dampers, linkages) | 4 | | Adequate. | |
| 4.6.3 | Cooling system controls (including use of current energy management technology). | 4 | | Adequate. | |
| 4.6.4 | Special/dedicated cooling systems (i.e., labs, CTS areas). | n/a | | | |
| Other | | n/a | | | |
| 4.7 | Building Control Systems | | Bldg. | | |
| 4.7.1 | Building wide/system wide control systems and/or energy management systems. | 3 | Section | <u>Description/Condition</u> No building management system or energy management system. Add energy management system at same time as 4.4.1 and 4.5.1. | \$114,626 |
| | | | | | |
| | Overall Mech Systems Condition & Estim. Costs | | | | \$775,986 |

| Section 5 | Electrical Systems | Rating | | Comments/Concerns | Estim. Cost |
|-----------|--|--------|---------|---|-------------|
| | Site Services | | | | |
| 5.1.1 | Primary service capacity and reliability (i.e., access, location, components, installation, bus sizes - note whether overhead or underground). | 4 | | 1600A, 120/208V/3/4W underground. | |
| 5.1.2 | Site and building exterior lighting (i.e., safety concerns). | 4 | | HID - appears okay. | |
| 5.1.3 | Vehicle plug-ins (i.e., number, capacity, condition). | 4 | | 18 parking plugs - duplex receptacles. | |
| Other | | n/a | | | |
| 5.2 | Life Safety Systems | | Bldg. | | |
| 5.2.1 | Fire and smoke alarm systems (i.e., safety concerns, up-to-date technology, regularly tested). | 4 | Section | Description/Condition Simplex 2001 complete with battery back up. | |
| 5.2.2 | Emergency lighting systems (i.e., safety concerns, condition). | 4 | | Battery pack complete with remote heads. | |
| 5.2.3 | Exit lighting and signage (i.e., safety concerns, condition). | 3 | | Not connected to battery packs, wired to power panels only. | \$4,800 |
| Other | | n/a | | | |

| Section 5 | Electrical Systems | Rating | | Comments/Concerns | Estim. Cost |
|-----------|---|--------|---------|-------------------------|-------------|
| 5.3 | Power Supply and Distribution | | Bldg. | | |
| | | | Section | | |
| 5.3.1 | Power service surge protection. | 4 | | Surge alter power bars. | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 500 | Danala and wireways conseity and condition | 4 | | Assessables | |
| 5.3.2 | Panels and wireways capacity and condition. | 4 | | Appears okay. | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 5.3.3 | Emergency generator capacity and condition and/or | n/a | | | |
| | UPS (if applicable). | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 5.3.4 | General wiring devices and methods. | 4 | | Appears okay. | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 5.3.5 | Motor controls. | 4 | | Appears okay | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Other | | n/a | | | |
| Other | | II/a | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | Electrical Systems | Rating | | Comments/Concerns | Estim. Cost |
|-------|---|--------|---------|---|-------------|
| 5.4 | Lighting Systems | | Bldg. | | |
| 5.4.1 | Interior lighting systems and components (i.e., illumination levels, conditions, controls). | 3 | Section | <u>Description/Condition</u> Corridors 10-35FC, classrooms 30-75FC, offices 25-70FC, conference rooms 65-135FC, library 20-45FC (fluorescent), gym 15-40FC (HID). Upgrade lighting to T-8 technology and energy efficient ballasts. | \$152,800 |
| 5.4.2 | Replacement of ballasts (i.e., health and safety concerns). | 4 | | Replaced on failure. | |
| 5.4.3 | Implementation of energy efficiency measures and recommendations. | 3 | | T-12 technology throughout, library T-12 technology. See 5.4.1 for costs related to replacing with T-8 technology. | |
| Other | | n/a | | | |

| Section 5 | Electrical Systems | Rating | | Comments/Concerns | Estim. Cost |
|-----------|--|--------|---------|---|-------------|
| 5.5 | Network and Communication Systems | | Bldg. | | |
| 5.5.1 | Telephone system and components (i.e., capacity, reliability, condition). | 4 | Section | Description/Condition NT Meridian telephone/classroom. | |
| 5.5.2 | Other communication systems (i.e., public address, intercom, CCTV, satellite or cable TV). | 4 | | Intercom used as public address only, as telephones have intercom capability. | |
| | Network cabling (if available, should be category 5 or better). | 4 | | Category 5, fibre optics in transfers to Category 5. | |
| 5.5.4 | Network cabling installation (i.e., in conduit, secured to walls or tables). | 4 | | House wiring - appears okay. | |
| 5.5.5 | Wiring and telecommunication closets (i.e., size, security, ventilation/cooling, capacity for growth). | 4 | | In room off of main office. | |
| 5.5.6 | Provision for dedicated circuits for network equipment (i.e., hubs, switches, computers). | 4 | | Appears okay. | |
| Other | | n/a | | | |
| | | | | | |

| | Electrical Systems | Rating | Comments/Concerns | | |
|-------|--|--------|-------------------|---|-----------|
| 5.6 | Miscellaneous Systems | | Bldg. | | |
| F G 1 | Site and building surveillance system (if applicable). | n/a | Section | <u>Description/Condition</u> | |
| 5.0.1 | Site and building surveillance system (ii applicable). | n/a | | | |
| | | | | | |
| | | | | | |
| 5.6.2 | Intrusion alarms (if applicable). | 4 | | Panel at back door by Calgary Board of Education. | |
| | | | | | |
| | | | | | |
| 500 | | | | | |
| 5.6.3 | Master clock system (if applicable). | 4 | | Controls two clocks only. All other clocks are battery powered. | |
| | | | | | |
| | | | | | |
| Other | | n/a | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | Elevators/Disabled Lifts (If applicable) | | | | |
| 5.7.1 | Elevator/lift size, access and operating features (i.e., | n/a | | | |
| | sensing devices, buttons, phones, detectors). | | | | |
| | | | | | |
| 572 | Condition of elevators/lifts. | n/a | | | |
| | | 11/4 | | | |
| | | | | | |
| | | | | | |
| 5.7.3 | Lighting and ventilation of elevators/lifts. | n/a | | | |
| | | | | | |
| | | | | | |
| Other | | n/a | | | |
| 1 | | 11/4 | | | |
| | | | | | |
| | | | | | |
| | Overall Elect. Systems Condition & Estim Costs | | | | \$157,600 |

| ection 6 | Portable Buildings | | Comments/Concerns | Estim. Cost | | |
|---|--|---|---|-------------|--|--|
| Note: Separate sheets can be completed, if necessary, for portable buildings of different ag and/or conditions. | | | 8 portables. | | | |
| 6.1.1 | Foundation and structure (i.e., signs of bending, cracking, settlement, rust, voids, stains). | 4 | None apparent. | | | |
| 6.1.2 | Roof materials and components (i.e., signs of deterioration, leaks, ice build-up). | 4 | one apparent. | | | |
| 6.1.3 | Exterior wall finishes (i.e., signs of deterioration, cracks, water stains). | 4 | dequate. | | | |
| 6.1.4 | Doors and windows (i.e., signs of deterioration, rusting hardware, glass cracks, peeling paint, damaged seals). | 2 | Panels under windows to be sanded and repainted. Skirting to be required and repainted. | \$10,000 | | |
| 6.1.5 | Interior finishes (i.e., floors, walls, ceiling). | 3 | Rug torn where portable meets hallway - N.E. portable - get wider transition strip. | | | |
| 6.1.6 | Millwork (i.e., counters, shelving, vanities, cabinets). | 4 | Adequate. | | | |
| 6.1.7 | Fixed/wall mounted equipment (i.e., writing boards, tackboards, display boards, signs) | 4 | Adequate. | | | |
| 6.1.8 | Heating system. | 4 | Palmaire #PAG105 - 94,500 complete with combustion air, relief air and cooling coils. | | | |
| 6.1.9 | Ventilation system. | 4 | Part of previous. | | | |
| 6.1.10 | Electrical, communication and data network systems. | 4 | 60-75FC fluorescent panel appears okay. Spare capacity on panels. | | | |
| 6.1.11 | Health and safety concerns (i.e., fire and smoke alarms, fire protection systems, exiting, fire resistance rating of materials). | | No mechanical, electrical or architectural concerns. | | | |
| 6.1.12 | Barrier-free access. | 4 | No apparent problems. | | | |
| | Overall Portable Bldgs Condition & Estim Costs | | | \$10,300 | | |

| Section 7 | Space Adequacy - Capacity: 500 | This Facility | | | Equiv. New Facility | | | Surplus/ | |
|-----------|--|---------------|-------|------------|---------------------|------|------------|------------|--|
| | | No. | Size | Total Area | No. | Size | Total Area | Deficiency | Comments/Concerns |
| 7.1 | Classrooms | 9 | | 717.51 | 14 | 80 | 1,120 | -402.49 | Portables not included. |
| 7.2 | Science Rooms/Labs | 1 | 109.3 | 109.26 | 2 | 95 | 190 | -80.74 | |
| 7.3 | Ancillary Areas (i.e., Art, Computer Labs, Drama, Music) - Total | 1 | | 91.84 | 4 | | 400 | -308.16 | |
| | Music/Drama | | 91.84 | | | | | | In gym stage. |
| | Art | | | | | | | | No room for art room - classroom used. |
| | Computer | | | | | | | | In library - no separate room. |
| 7.4 | Gymnasium (incl. gym storage) - Total | 1 | | 452.84 | 1 | | 473 | -20.16 | |
| | Gym | | 407.9 | | | 430 | | | |
| | Storage | | 44.98 | | | 43 | | | |
| 7.5 | Library/Resource Areas - Total | 1 | | 314.03 | 1 | | 220 | 94.03 | Actually smaller, as computers take up space in this area. |
| | Library | | 294 | | | | | | |
| | Library Office | | 20 | | | | | | |
| 7.6 | Administration/Staff, Physical Education, Storage Areas | | | 223.68 | | | 427 | -203.32 | |
| 7.7 | CTS Areas - N/A | | | | | | | | |
| | 7.7.1 Business Education | | | | | | | | |
| | 7.7.2 Home Economics | | | | | | | | |
| | 7.7.3 Industrial Arts | | | | | | | | |
| | 7.7.4 Other CTS Programs | | | | | | | | |
| 7.8 | Other Non-Instructional Areas (i.e., circulation, wall area, crush space, wc | | | 1,125.25 | | | 1,153 | -27.75 | |
| | Overall Space Adequacy Assessment | 13 | | 3,054.77 | 22 | | 3,983 | 928.23 | |