

## EDMONTON PUBLIC SCHOOLS

May 22, 2007

TO: Board of Trustees

FROM: E. Schmidt, Superintendent of Schools

SUBJECT: 2007 Major Maintenance Plan

ORIGINATOR: R. MacNeil, Assistant to the Superintendent

### RESOURCE

STAFF: Mike Brown, Fred Buffi, Mike Ediger, John Nicoll, Sherri O'Keefe, Doug Savary, Larry Schwenneker, Cindy Skolski, Ron Spence, Sandra Stoddard

### INFORMATION

Major maintenance, life cycle replacement and minor retrofits to district facilities are accomplished through the district's Major Maintenance Plan (MMP) which is block funded by the government Infrastructure Maintenance & Renewal Fund (IMR).

The IMR funding levels for a six-year period are shown in the graph in Appendix I.

The 2007-2008 IMR allocation from Alberta Infrastructure is projected at \$14,000,000.

Projects that fall within the guidelines and are to be included in the Major Maintenance Plan are identified for consideration by receiving input from schools, facilities staff, facilities inspections and regulatory agencies. The need and requests for school improvement projects continue to exceed available funding. The plan, therefore, reflects the highest district need. The priorities and categories of projects have been developed with input from principals.

To ensure that all schools have the opportunity to provide input regarding their school's needs a procedure is included in the budget process. Information is provided to each school identifying scheduled/approved capital projects in that school. In addition, schools have been provided with information regarding the facility needs they previously identified. Schools have been requested to review their needs, add or delete projects, and prioritize the projects from the school's perspective on an annual basis.

Renewal of major building elements such as re-roofing are dealt with on a life-cycle replacement and condition assessment basis, thereby distributing the financial obligation over a number of years. This approach ensures that the district's physical assets are reasonably maintained given the available funding.

The 2007 Major Maintenance Plan has been reviewed to establish whether previously identified projects are consistent with current priorities. The resultant 2007 Major Maintenance Plan is attached (Appendix III). Projects are identified and listed in accordance with district categories and priorities. The categories in order of priority are: life, health and safety, building envelope, building systems and components, delivery of educational programming and site improvements. As well, an amount is included for emergent projects, for example, the replacement of failed hot water heaters and furnaces.

### **Highlights**

- The asbestos abatement projects within the 2007 MMP are a continuation of the asbestos management program.
- The 2007 MMP continues the partnership with the district's sustainable Energy Management Program for the lighting retrofit program for schools. The intent is to improve student learning environments and reduce energy costs. Fifty-five schools and five gymnasiums have been completed to date.
- In order to assist the district in the management of district assets, a five-year life-cycle replacement program is included with the MMP. This program provides information to the schools that will assist them in making decisions relative to maintenance expenditures and to allow the schools to undertake longer term planning for the management of the building (Appendix V). The actual projects may vary depending on government funding levels and changes in district priorities.
- Facilities Services partnered with the Planning Department to develop a planned and scheduled approach to upgrade district sites to accommodate barrier free access. The plan will insure a balance of barrier free sites within sectors of the district.
- Facilities Services has allocated funds to pursue interior modifications at various sites to improve security.
- Facilities Services has allocated funds to complete a computerized facilities management system feasibility study. The Planning Department and Information Technology Services are partners in this study.
- Alberta Infrastructure, in November 2006, advised the district of an increase in the 2006-2007 IMR allocation. This increase of 19.3 million dollars allowed the district to advance the MMP five (5) year plan and implement several new initiatives such as additional mechanical heating system replacements, lighting retrofits, energy management systems and site improvements.

Should any of the schools listed in the 2007 Major Maintenance Plan (MMP) be approved for modernization funding by Alberta Infrastructure, the MMP work scheduled for that school(s) will be reviewed. Wherever possible the work will be included within the applicable modernization.

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APPENDIX I - Infrastructure Maintenance & Renewal

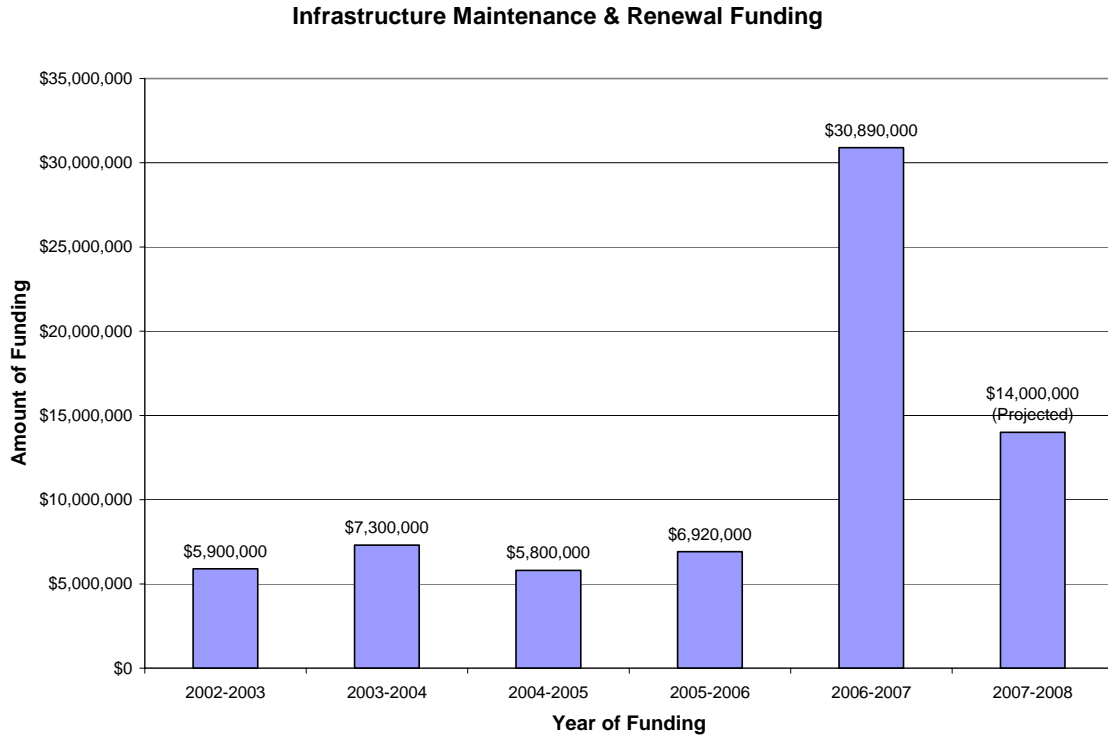
APPENDIX II - Stakeholders Flow Chart

APPENDIX III - Proposed 2007 Major Maintenance Plan

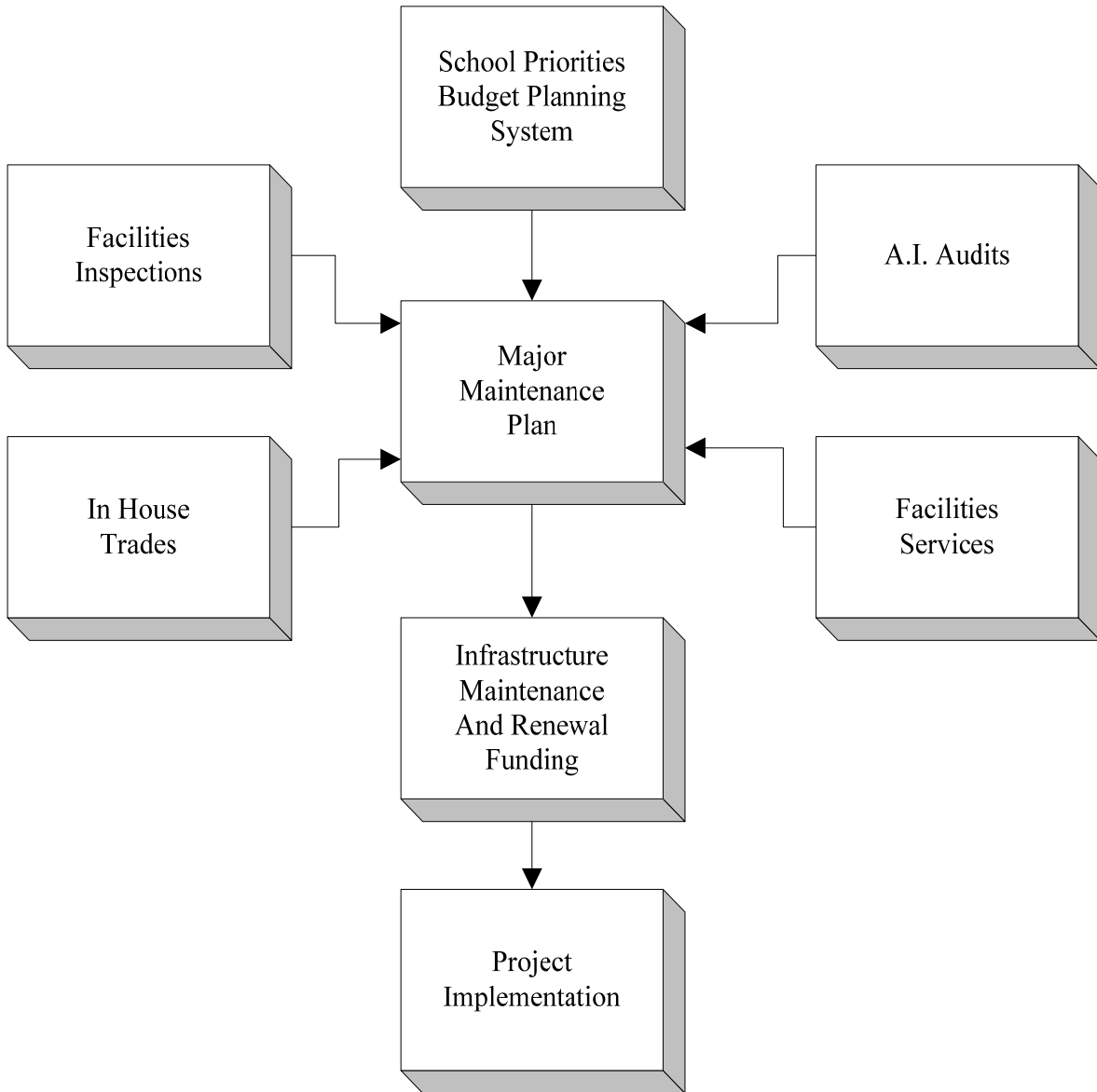
APPENDIX IV - 2006 Major Maintenance Plan

APPENDIX V - Proposed Five-Year Life-Cycle Replacement Program

**INFRASTRUCTURE MAINTENANCE AND RENEWAL**



### Stakeholders Flow Chart



## 2007 MAJOR MAINTENANCE PLAN

### Life, Health and Safety

#### Fire Code Upgrades

These are on-going projects to replace obsolete fire alarm systems and other safety provisions in schools such as smoke and heat detectors.

Dan Knott	Ritchie
Highlands	Spruce Avenue

#### Security

This is an on-going program to upgrade school security systems and security enhancements.

Bisset	Replace intrusion alarm system
Earl Buxton	Replace intrusion alarm system
Glenora	Replace intrusion alarm system
Inglewood	Upgrade security system
McNally	Replace intrusion alarm system
Parkview	Replace intrusion alarm system
Various	Upgrade security systems

#### Intercom System Replacements

This is an on-going program to upgrade intercom systems.

Bisset	Forest Heights	Velma E. Baker
Delwood	Lymburn	Westbrook

#### Asbestos Removals

These are on-going projects within the asbestos management program and are identified annually based on need. It is intended to continue the management program until all the asbestos in the district's buildings has been removed.

Allendale	Asbestos abatement
D.S. MacKenzie	Asbestos abatement
Donnan	Replace ceiling tiles

#### Washroom Upgrades

These are on-going projects based on need.

Afton	Upgrade washrooms
Bennett Centre	Upgrade washrooms
Edith Rogers	Upgrade washrooms
Governor	Upgrade washrooms
Montrose	Upgrade washrooms
Ottewell	Upgrade washrooms
Queen Elizabeth	Upgrade washrooms

Occupational Health & Safety

Facilities Services

Facilities Services

Confined Space Identification

Facilities Inspections

The estimated cost of life and health safety projects is \$1,748,000.

## **Building Envelope**

### **Re-Roofing**

These are on-going projects based on life-cycle replacement and condition assessment.

Aldergrove	Reroof areas 1, 2, 3, and 4
Calder	Reroof entire building
Dan Knott	Reroof area 2
Forest Heights	Reroof 1967 addition
Horse Hill	Reroof area 3
J.A. Fife	Reroof Phase I, area 1
Kensington	Reroof areas 1 and 3
L.Y. Cairns	Reroof Part 1, area 1
McKee	Reroof area 1
McKernan	Reroof 1973 addition
Mee Yah Noh	Reroof area 2
M.E. LaZerte	Reroof area 5
Montrose	Reroof entire building
Mount Royal	Reroof entire building
Various	Roof repairs

### **Building Exteriors**

Belmead	Upgrade weatherscreen
Garneau	Upgrade weatherscreen
Lee Ridge	Upgrade weatherscreen
M.E. LaZerte	Upgrade weatherscreen

### **Window Replacement**

These are on-going projects based on need.

Allendale	Replace windows – Phase II
Athlone	Replace windows – Phase II
Avonmore	Replace windows – Phase III
Eastglen	Replace windows – Phase III
Jasper Place	Replace windows – Phase I
Queen Elizabeth	Replace windows – Phase III
Ross Sheppard	Replace windows – Phase II
S. Bruce Smith	Install window treatments
Strathcona	Replace windows – Phase III

### **Door Replacement**

These are on-going projects based on need.

Afton	Replace exterior doors
Delton	Replace exterior doors
Horse Hill	Replace exterior doors
Londonderry	Replace exterior doors
McNally	Replace interior doors
Ottewell	Replace exterior doors – Phase II
York	Replace exterior doors

The estimated cost of building envelope projects is \$6,417,000.

## **Building Systems and Components**

### **Electrical Upgrades**

Eastglen	Replace main electrical service
Greenfield	Upgrade electrical panels
Ross Sheppard	Replace main electrical service

### **Mechanical System and Component Replacements**

This is an on-going program to replace mechanical systems and components. This will reduce energy and maintenance costs and provide a better level of temperature control to classrooms.

Bennett Centre	Replace galvanized water piping
Glendale	Replace galvanized water piping
Greenview	Replace thrust rods
J. Percy Page	Replace thrust rods
Julia Kiniski	Replace thrust rods
Old Scona	Replace mechanical heating system
Oliver	Replace sanitary sewer line
Rutherford	Replace galvanized water piping
Westglen	Replace galvanized water piping
Various	Replace boiler tubes

### **Mechanical System Upgrading**

This is an on-going program to replace plumbing, drainage and ventilation systems and to reduce energy consumption through the installation of Direct Digital Control (D.D.C.) systems.

Allendale	Replace D.D.C. energy management system
Bannerman	Replace D.D.C. energy management system
Fraser	Replace D.D.C. energy management system
Londonderry	Replace D.D.C. energy management system
M.E. LaZerte	Replace D.D.C. energy management system
Malcolm Tweddle	Replace D.D.C. energy management system
Malmo	Replace D.D.C. energy management system
Parkallen	Replace D.D.C. energy management system
Steinhauer	Replace D.D.C. energy management system
Strathcona	Replace D.D.C. energy management system
Various	Consulting services

### **Architectural Repairs**

This is an on-going program based on need.

Hazeldean	Install roof access ladders
John A. McDougall	Install roof access ladders
Oliver	Install roof access ladders
Westlawn	Mudjack floors



### Flooring

This is an on-going program to replace flooring.

Bisset	Replace flooring
D. S. MacKenzie	Replace flooring
Delwood	Replace flooring
Julia Kiniski	Replace flooring
Lendrum	Replace flooring
Lymburn	Replace flooring
Mayfield	Replace flooring
McNally	Replace flooring
Montrose	Replace flooring
Queen Elizabeth	Replace flooring
S. Bruce Smith	Replace flooring
Steele Heights	Replace flooring
Steinhauer	Replace flooring
Strathcona	Replace flooring
Westbrook	Replace flooring
Westmount Phase II	Replace flooring
Winterburn	Replace flooring
York	Replace flooring

The estimated cost of building systems and components projects is \$3,050,000.

### Delivery of Educational Programming

Meyokumin	Remove gymnasium dividing wall
Riverbend	Replace lockers in boys' and girls' change rooms

The estimated cost of educational programming is \$80,000.

### Wheelchair Accessibility and Special Needs Upgrading

These projects include the provision of elevators, wheelchair ramps and other specific needs.

Afton	Modifications to accommodate barrier free access
M. E. LaZerte	Modifications to accommodate barrier free access
Montrose	Modifications to accommodate barrier free access
Various	Modifications to accommodate barrier free access

The estimated cost of special needs upgrading is \$213,000.

### Site Improvements

These projects include the provision of, or the improvement to, site drainage, drop-off lanes, parking lots and paved play areas.

Allendale	Upgrade asphalt
Avonmore	Upgrade asphalt
Callingwood	Upgrade asphalt
Elmwood	Replace sidewalks
Richard Secord	Upgrade asphalt areas
Scott Robertson	Upgrade asphalt
Various	Upgrade asphalt areas

The estimated cost for site improvements is \$692,000.

## Proposed 2007 Major Maintenance Plan

School	Project
Afton	Upgrade washrooms
Afton	Replace exterior doors
Afton	Modifications to accommodate barrier free access
Aldergrove	Reroof areas 1, 2, 3 & 4
Allendale	Asbestos abatement
Allendale	Replace windows Phase II
Allendale	Replace energy management system
Allendale	Upgrade asphalt
Athlone	Replace windows Phase II
Avonmore	Replace windows Phase III
Bannerman	Replace energy management system
Belmead	Upgrade exterior weatherscreen
Bennett Centre	Upgrade washrooms
Bennett Centre	Replace galvanized water piping
Bisset	Replace security system
Bisset	Replace intercom system
Bisset	Replace flooring
Calder	Reroof area 1
Callingwood	Upgrade asphalt
D.S. MacKenzie	Asbestos abatement
D.S. MacKenzie	Replace flooring
Dan Knott	Fire code upgrading
Dan Knott	Reroof area 2
Delton	Replace exterior doors
Delwood	Replace intercom system
Delwood	Replace flooring
Donnan	Asbestos abatement
Earl Buxton	Replace security system
Eastglen	Replace windows Phase III
Eastglen	Replace main electrical service
Edith Rogers	Upgrade washrooms
Elmwood	Replace sidewalks
Facilities Services	Student drop-off
Facilities Services	Emergent needs
Facilities Services	Consulting Services – various
Facilities Services	Digitizing services
Forest Heights	Replace intercom system
Forest Heights	Reroof 1967 addition
Fraser	Replace energy management system

## Proposed 2007 Major Maintenance Plan (continued)

School	Project
Garneau	Upgrade exterior weatherscreen
Glendale	Replace galvanized water piping
Glenora	Replace security system
Greenfield	Upgrade electrical panels
Greenview	Replace thrust rods
Grovenor	Upgrade washrooms
Hazeldean	Install roof access ladder
Horse Hill	Reroof area 3
Horse Hill	Replace exterior doors
Inglewood	Replace security system
J.A. Fife	Reroof Phase I of area 1
J. Percy Page	Replace thrust rods
Jasper Place	Replace windows Phase III
John A. McDougall	Install roof access ladders
Julia Kiniski	Replace thrust rods
Julia Kiniski	Replace flooring
Kensington	Reroof areas 1 and 3
L.Y. Cairns	Reroof Phase I of area 1
Lee Ridge	Upgrade exterior weatherscreen
Lendrum	Replace flooring
Londonderry	Replace exterior doors
Londonderry	Replace energy management system
Lymburn	Replace flooring
Lymburn	Replace intercom system
M.E. LaZerte	Replace energy management system
M.E. LaZerte	Reroof Phase I of area 1 and 2
M.E. LaZerte	Upgrade exterior weatherscreen
M.E. LaZerte	Modifications to accommodate barrier free access
Malcolm Tweddle	Replace energy management system
Malmo	Replace energy management system
Mayfield	Replace flooring in two washrooms and storage room
McKee	Reroof area 1
McKernan	Reroof 1973 addition
McNally	Replace security system
McNally	Replace interior doors
McNally	Replace flooring – Phase III
Mee-Yah-Noh	Reroof area 2
Meyokumin	Remove gymnasium dividing wall
Montrose	Reroof original building
Montrose	Upgrade washrooms
Montrose	Replace carpet
Mount Royal	Reroof entire building

## Proposed 2007 Major Maintenance Plan (continued)

School	Project
Old Scona	Replace mechanical heating system
Oliver	Install roof access ladder
Oliver	Replace sanitary sewer line
Ottewell	Replace exterior doors Phase II
Ottewell	Upgrade washrooms
Parkallen	Replace energy management system
Parkview	Replace security system
Queen Elizabeth	Upgrade washrooms
Queen Elizabeth	Replace windows Phase III
Riverbend	Replace lockers
Ross Sheppard	Replace windows Phase II
Ross Sheppard	Replace main electrical services
S. Bruce Smith	Replace flooring
S. Bruce Smith	Install window treatments
Steele Heights	Replace flooring
Steinhauer	Replace energy management system
Steinhauer	Replace flooring
Strathcona	Replace windows Phase III
Strathcona	Replace energy management system
Strathcona	Replace flooring
Various	Replace flooring
Various	Modifications to accommodate barrier free access
Various	Security upgrades
Various	Upgrade asphalt and sidewalks
Various	Replace boiler tubes
Various	Facility inspections
Various	Confined space identification
Various	Roof repairs
Various	Replace furnaces
Velma E. Baker	Replace intercom system
Westbrook	Replace intercom system
Westbrook	Replace flooring
Westlawn	Mudjack floors
Westmount	Replace flooring Phase I
Winterburn	Replace flooring
York	Replace exterior doors
York	Replace flooring

## 2006 Major Maintenance Plan

Projects in “**bold**” were added to the plan with the increased allocation.

<u>School</u>	<u>Project Description</u>
<b>Academy at King Edward</b>	<b>Fire code upgrading</b>
Afton	Replace flooring
Aldergrove	Upgrade weatherscreen
Aldergrove	Install exhaust fan in Server room
<b>Aldergrove</b>	<b>Interior modifications</b>
<b>Aldergrove</b>	<b>Reroofing</b>
Allendale	Upgrade asphalt
<b>Allendale</b>	<b>Upgrade washrooms</b>
Athlone	Replace windows Phase I
Athlone	Upgrade washrooms
<b>Athlone</b>	<b>Modifications to accommodate barrier free access</b>
Avalon	Replace lockers and selective upgrade of existing lockers
Avalon	Replace sidewalks
Avalon	Replace flooring
Avonmore	Replace carpet in five classrooms
Avonmore	Electrical - replace main electrical service
Avonmore	Replace windows - Phase I
<b>Avonmore</b>	<b>Replace windows Phase II</b>
<b>Avonmore</b>	<b>Replace energy management system</b>
<b>Baturyn</b>	<b>Replace energy management system</b>
<b>Baturyn</b>	<b>Modifications to accommodate barrier free access</b>
Beacon Heights	Replace flooring
Belmead	Asbestos abatement - ceiling tiles
Belmead	Fire code upgrading
Belmead	Replace carpet
<b>Belmead</b>	<b>Replace energy management system</b>
Belmont	Replace energy management system
<b>Belvedere</b>	<b>Asbestos abatement</b>
Bennett Centre	Replace main electrical service
<b>Bennett Centre</b>	<b>Replace energy management system</b>
Braemar	Asbestos abatement as per HMMP report
<b>Braemar</b>	<b>Lighting retrofit</b>
<b>Braemar</b>	<b>Replace energy management system</b>
Brander Gardens	Replace flooring
Brander Gardens	Replace energy management system
Brander Gardens	Replace boot racks
<b>Brander Gardens</b>	<b>Replace exterior doors</b>
<b>Britannia</b>	<b>Replace energy management system</b>
Brookside	Replace energy management system

<u>School</u>	<u>Project Description</u>
<b>Caernarvon</b>	<b>Replace energy management system</b>
Calder	Reroofing
<b>Callingwood</b>	<b>Replace energy management system</b>
Capilano	Replace exterior light standard
<b>Centennial</b>	<b>Replace energy management system</b>
<b>Centennial</b>	<b>Upgrade lighting</b>
Crawford Plains	Site - install storm sewer
<b>Crawford Plains</b>	<b>Upgrade lighting</b>
Crestwood	Replace thrust rods
<b>Crestwood</b>	<b>Replace flooring</b>
D.S. MacKenzie	Replace corridor ceiling tiles
D. S. MacKenzie	Replace aluminum doors and frames
<b>D. S. MacKenzie</b>	<b>Replace energy management system</b>
Daly Grove	Replace security system
Daly Grove	Reroof sloped roof areas
<b>Daly Grove</b>	<b>Replace energy management system</b>
<b>Daly Grove</b>	<b>Upgrade lighting</b>
Dan Knott	Mould abatement and Pod wall reconstruction
Dan Knott	Replace security system
<b>Dan Knott</b>	<b>Reroofing</b>
<b>Dan Knott</b>	<b>Upgrade lighting</b>
Delton	Replace interior doors
Delton	Replace gymnasium composite flooring with hardwood
Delton	Asbestos abatement
<b>Delton</b>	<b>Replace energy management system</b>
<b>Delwood</b>	<b>Replace mechanical heating system</b>
<b>Delwood</b>	<b>Asbestos abatement</b>
Dickinsfield	Replace lockers in boys' locker room
Duggan	Replace aluminum doors and frames
Duggan	Replace flooring
<b>Duggan</b>	<b>Replace thrust rods</b>
Dunluce	Replace flooring
<b>Dunluce</b>	<b>Replace exterior doors</b>
<b>Dunluce</b>	<b>Replace energy management system</b>
<b>Eastglen</b>	<b>Replace windows - Phase I</b>
<b>Eastglen</b>	<b>Replace windows Phase II</b>
<b>Eastglen</b>	<b>Replace water piping</b>
Eastwood	Replace carpet and linoleum
Eastwood	Replace coping stones
Edith Rogers	Replace lockers
<b>Edith Rogers</b>	<b>Replace energy management system</b>
<b>Ekota</b>	<b>Replace energy management system</b>
Ellerslie Campus North	Connection to city water supply and sanitary sewer services
Ellerslie Campus South	Connection to city water supply and sanitary sewer services

<u>School</u>	<u>Project Description</u>
<b>Ellerslie Campus</b>	<b>Parking rail modifications and to accommodate student crosswalk</b>
<b>Ellerslie Campus</b>	<b>Replace energy management system</b>
<b>Ellerslie Campus</b>	<b>Site - Construct Student drop off</b>
Evansdale	Electrical upgrade
<b>Evansdale</b>	<b>Upgrade washrooms</b>
<b>Facilities Services</b>	<b>Consulting Services - Various</b>
<b>Facilities Services</b>	<b>Emergent needs</b>
Forest Heights	Replace thrust rods
<b>Forest Heights</b>	<b>Reroofing</b>
Fraser	Replace security system
<b>Fraser</b>	<b>Replace intercom system</b>
<b>Fraser</b>	<b>Upgrade lighting</b>
<b>Fraser</b>	<b>Modifications to accommodate barrier free access</b>
Garneau	Upgrade exterior weatherscreen
Garneau	Replace main entry exterior stairs / treads
<b>Garneau</b>	<b>Washroom upgrade</b>
<b>Garneau</b>	<b>Fire code upgrading</b>
<b>Garneau</b>	<b>Replace main electrical service</b>
Glendale	Regrading to improve site drainage
Glengarry	Replace energy management system
Glenora	Replace galvanized water piping
<b>Glenora</b>	<b>Replace energy management system</b>
<b>Grandview Heights</b>	<b>Replace mechanical heating system</b>
<b>Greenfield</b>	<b>Asbestos abatement</b>
<b>Greenview</b>	<b>Replace energy management system</b>
Hardisty	Replace security system - Install security keypad south east exit
Hardisty	Replace countertops in Science room 206
Hardisty	Replace carpet
<b>Hardisty</b>	<b>Asbestos abatement-administration area</b>
<b>Hardisty</b>	<b>Asbestos abatement - computer room</b>
<b>Hardisty</b>	<b>Replace energy management system</b>
<b>Harry Ainlay</b>	<b>Replace security system</b>
Hazeldean	Replace water main
High Park	Replace wooden ramp with concrete
Highlands	Replace lockers
Highlands	Upgrade washrooms
Highland	Replace security system
Highlands	Replace intercom system
Highlands	Fire code upgrading
Hillcrest	Replace flooring
<b>Hillcrest</b>	<b>Asbestos abatement</b>
<b>Hillcrest</b>	<b>Replace energy management system</b>
Holyrood	Replace carpet
<b>Homesteader</b>	<b>Replace carpet in music room</b>

**Homesteader  
School**

Horse Hill  
**Horse Hill**  
**Horse Hill**  
**Horse Hill**  
J. A. Fife  
**J. A. Fife**  
J. Percy Page  
J. Percy Page  
J. Percy Page  
**J. Percy Page**  
**J. Percy Page**  
Jasper Place  
**Jasper Place**  
**Jasper Place**  
John A. McDougall  
John Barnett  
**John Barnett**  
**John Barnett**  
John D. Bracco  
**John D. Bracco**  
**John D. Bracco**  
**Julia Kiniski**  
**Kameyosek**  
**Kameyosek**  
**Keheewin**  
**Keheewin**  
Kensington  
**Kensington**  
**Kensington**  
Kildare  
  
**Killarney**  
**Killarney**  
Kirkness  
**Kirkness**  
**L. Y. Cairns**  
LaPerle  
LaPerle  
LaPerle  
**L'Académie Vimy Ridge  
Academy**  
**L'Académie Vimy Ridge  
Academy**  
**Lago Lindo**  
**Lago Lindo**

**Replace energy management system  
Project Description**

Upgrade washrooms  
**Asbestos abatement**  
**Reroofing**  
**Replace energy management system**  
Replace intercom system  
**Reroofing**  
Replace flooring  
Regrade perimeter of entire building to correct site drainage  
Replace sidewalks  
**Replace energy management system**  
**Upgrade lighting**  
Window replacement Phase I  
**Reroofing**  
**Replace windows Phase II**  
Upgrade door hardware  
Replace intercom system  
**Replace energy management system**  
**Modifications to accommodate barrier free access**  
Replace flooring  
**Upgrade security system**  
**Replace energy management system**  
**Replace energy management system**  
**Reroofing**  
**Replace energy management system**  
**Replace energy management system**  
**Modifications to accommodate barrier free access**  
Site - Upgrade asphalt areas  
**Reroofing**  
**Replace energy management system**  
Asbestos abatement - ceiling tiles and pipe fittings as per  
HMMP report  
**Replace exterior doors**  
**Replace energy management system**  
Replace intercom system  
**Replace energy management system**  
**Reroofing**  
Replace flooring  
Replace intercom system  
Replace energy management system  
  
**Upgrade Home Economics countertops**  
  
**Carpet Replacement**  
**Replace intercom system**  
**Replace energy management system**



<u>School</u>	<u>Project Description</u>
<b>Lansdowne</b>	<b>Reroofing</b>
<b>Lansdowne</b>	<b>Replace energy management system</b>
Lee Ridge	Replace flooring
Lee Ridge	Reroof entire building.
Lendrum	Replace staffroom / classroom sinks and countertops
Lendrum	Upgrade asphalt
Lendrum	Replace carpet
Londonderry	Asbestos abatement - hot water storage tank
<b>Londonderry</b>	<b>Upgrade lighting</b>
<b>Lorelei</b>	<b>Replace energy management system</b>
<b>Lynnwood</b>	<b>Replace exterior doors</b>
<b>M.E. LaZerte</b>	<b>Reroofing</b>
<b>M.E. LaZerte</b>	<b>Replace mechanical heating system</b>
Major General Griesbach	Replace carpet
Major General Griesbach	Upgrade washrooms
<b>Major General Griesbach</b>	<b>Replace water piping</b>
Malcolm Tweddle	Replace flooring
<b>Malcolm Tweddle</b>	<b>Modifications to accommodate barrier free access</b>
Malmo	Site - resurface asphalt parking area
Malmo	Reroof areas 1 and 2 (Phase I)
Malmo	Replace security system
Mary Butterworth	Acoustic upgrade in open areas
<b>Mary Butterworth</b>	<b>Upgrade lighting</b>
McArthur	Reroof area 2
<b>McKee</b>	<b>Reroofing</b>
McKernan	Asbestos abatement
<b>McKernan</b>	<b>Reroofing</b>
<b>McKernan</b>	<b>Replace energy management system</b>
McLeod	Asbestos abatement
<b>McLeod</b>	<b>Replace energy management system</b>
McNally	Replace flooring - Phase I
<b>McNally</b>	<b>Replace flooring - Phase II</b>
Mee-Yah-Noh	Install exhaust fans in server room and custodial storage room
<b>Mee-Yah-Noh</b>	<b>Washroom modifications to accommodate special needs student</b>
<b>Mee-Yah-Noh</b>	<b>Replace intercom system</b>
<b>Mee-Yah-Noh</b>	<b>Reroofing</b>
Menisa	Replace sidewalks to accommodate barrier free access
<b>Meyokumin</b>	<b>Upgrade security system</b>
<b>Meyokumin</b>	<b>Replace energy management system</b>
<b>Meyokumin</b>	<b>Upgrade lighting</b>
<b>Meyonohk</b>	<b>Replace energy management system</b>
<b>Minchau</b>	<b>Upgrade Library lighting</b>
Montrose	Rectify water infiltration
Montrose	Reroof original building
<b>Mount Pleasant</b>	<b>Replace thrust rods</b>

<u>School</u>	<u>Project Description</u>
Mount Royal	Reroof entire building
<b>Old Scona</b>	<b>Replace mechanical heating system</b>
<b>Old Scona</b>	<b>Replace energy management system</b>
Ormsby	Replace intercom system
<b>Ormsby</b>	<b>Replace energy management system</b>
Ottewell	Barrier free access - replace main entrance sidewalk
<b>Ottewell</b>	<b>Replace mechanical heating system</b>
<b>Ottewell</b>	<b>Asbestos abatement - Boiler room</b>
<b>Ottewell</b>	<b>Replace exterior doors - Phase I</b>
<b>Overlanders</b>	<b>Upgrade security system</b>
<b>Overlanders</b>	<b>Replace energy management system</b>
<b>Overlanders</b>	<b>Modifications to accommodate barrier free access</b>
Parkallen	Replace carpet
Parkview	Replace fourteen deteriorated wood windows
Parkview	Requirements to accommodate barrier free access
<b>Parkview</b>	<b>Replace ceiling tiles in small gymnasium</b>
<b>Parkview</b>	<b>Upgrade security system</b>
<b>Parkview</b>	<b>Replace energy management system</b>
<b>Parkview</b>	<b>Upgrade lighting</b>
<b>Patricia Heights</b>	<b>Replace energy management system</b>
<b>Pollard Meadows</b>	<b>Replace energy management system</b>
<b>Pollard Meadows</b>	<b>Modifications to accommodate barrier free access</b>
<b>Prince Charles</b>	<b>Upgrade washrooms</b>
Prince Charles	Upgrade lighting
<b>Princeton</b>	<b>Replace energy management system</b>
Queen Alexandra	Replace security system
Queen Alexandra	Replace windows
<b>Queen Alexandra</b>	<b>Replace main electrical service</b>
Queen Elizabeth	Replace windows Phase I
<b>Queen Elizabeth</b>	<b>Carpet Replacement</b>
<b>Queen Elizabeth</b>	<b>Upgrade science labs</b>
<b>Queen Elizabeth</b>	<b>Replace windows Phase II</b>
Richard Secord	Install washroom doors
Richard Secord	Replace energy management system
<b>Richard Secord</b>	<b>Upgrade lighting</b>
<b>Rideau Park</b>	<b>Replace energy management system</b>
<b>Rideau Park</b>	<b>Replace thrust rods</b>
Rio Terrace	Mudjack gymnasium floor
<b>Rio Terrace</b>	<b>Replace energy management system</b>
Ritchie	Fire code upgrading
Riverbend	Site - install catch basin and upgrade landscaping
R.J. Scott/Lawton Campus	Site - Replace storm sewer
R. J. Scott/Lawton Campus	Replace energy management system
Ross Sheppard	Upgrade Science classrooms
<b>Ross Sheppard</b>	<b>Replace windows Phase I</b>

<u>School</u>	<u>Project Description</u>
Rosslyn	Modifications to accommodate barrier free access
Rosslyn	Upgrade security system
Rosslyn	Modifications to accommodate Career & Technology Studies
Rundle	Electrical upgrade
Rutherford	Improve site drainage
Rutherford	Fire code upgrading
Rutherford	Replace main electrical service
S. Bruce Smith	Replace stairwell door
S. Bruce Smith	Reroofing
S. Bruce Smith	Install window treatments
Sakaw	Replace energy management system
Satoo	Upgrade washrooms
Satoo	Replace energy management system
Scott Robertson	Upgrade lighting
Sherwood	Replace energy management system
Spruce Avenue	Replace water piping
Spruce Avenue	Fire code upgrading
Steele Heights	Computer room cooling
Steele Heights	Replace exterior doors
Steinhauer	Fire code upgrading
Strathcona	Reroof areas 3 and 4
Strathcona	Upgrade thermostats and control valves
Strathcona	Replace one overhead door and remove and frame in another overhead door
Strathcona	Replace windows
Strathcona	Asbestos abatement
Sweet Grass	Fire code upgrading
Sweet Grass	Replace intercom system
Sweet Grass	Replace energy management system
T. D. Baker	Replace flooring - Phase I
T. D. Baker	Replace energy management system
T. D. Baker	Replace flooring - Phase II
Thorncliffe	Fire code upgrading
Thorncliffe	Replace intercom system
Tipaskan	Reroof flat areas/partial slopes
Various	Facility Inspections
Various	Crawl space inspections
Various	Special needs upgrading
Various	Replace hot water heaters
Various	Replace furnaces
Various	Replace washroom urinals
Various	Various fire code upgrading - replace magnetic hold open devices

<u>School</u>	<u>Project Description</u>
Various	Modify / replace fixed ladders to comply with O.H. & S. requirements
Various	Security upgrades
Various	Upgrade sidewalks and asphalt areas at various sites
Various	Replace boiler tubes
Various	Fire code upgrading - replace fire dampers
Various	Install boiler inline filtration
Various	Boiler warranty work
Various	Roof repairs
Vernon Barford	Upgrade science rooms
Vernon Barford	Replace aluminum doors and frames
Vernon Barford	Reroof gymnasium and mechanical room
Virginia Park	Foundation repairs
Virginia Park	Replace energy management system
W. P. Wagner	Asbestos abatement and catwalk installation
W. P. Wagner	Reroof area 3 west
W. P. Wagner	Replace greenhouse corridor walls
Weinlos	Replace energy management system
Weinlos	Upgrade lighting
Weinlos	Replace thrust rods
Westbrook	Replace carpet in kindergarten and music rooms
Westglen	Replace boilers
Westglen	Fire code upgrading
Westglen	Replace galvanized water piping
Westglen	Refinish hardwood flooring
Westlawn	Replace exterior doors - Phase II
Westlawn	Asbestos abatement - hot water storage tank
Westlawn	Replace security system
Westlawn	Replace intercom system
Westlawn	Replace energy management system
Windsor Park	Replace main entrance sidewalk
Winterburn	Upgrade washrooms
Winterburn	Modifications to basketball standards
Winterburn	Upgrade gymnasium ceiling
Winterburn	Replace energy management system
York	Upgrade classroom sinks
York	Install partitions and doors
York	Replace carpet
York	Replace energy management system

**PROPOSED FIVE-YEAR LIFE-CYCLE REPLACEMENT PROGRAM**

The ability to undertake the projects listed is dependent on government funding and emergent issues. The five-year plan has been revised to reflect district needs identified by Facilities Services inspections and Alberta Infrastructure facility audits.

**Life, Health and Safety**
Fire Code Upgrades

This is an on-going program to upgrade the district's fire alarm systems and other safety provisions in schools such as smoke and heat detectors.

<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>
Highlands	Glenora	Allendale	Coronation	Grovenor
Ritchie	High Park	Athlone	Crestwood	Inglewood
Spruce Avenue	McCauley	Avonmore	Donnan	Lauderdale
	Mill Creek	Virginia Park	Forest Heights	

Security Upgrade

This is an on-going program to upgrade school security systems and security enhancements.

<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>
Bisset	J. Percy Page	Forest Heights	Beacon Heights	Baturyn
Earl Buxton	Mary Butterworth	George H. Luck	Grovenor	Kate Chegwin
Glenora	Prince Charles	Malcolm Tweddle	Michael A. Kostek	Queen Elizabeth
Inglewood	T.D. Baker	Rideau Park	Rundle	Westbrook
McNally	Waverley	Woodcroft	Velma E. Baker	Westglen
Parkview	W.P. Wagner			

Intercom System Replacements

This is an on-going program to upgrade school intercom systems and provide systems in schools that do not currently have one. The 2007 Major Maintenance Plan will be the first year of a three-year program to complete the installation of handsets in all district classrooms. With the completion of the 2009 MMP all district intercom systems will be microprocessor based complete with handsets in all classrooms.

2008	2009	2010	2011	2012
Bisset	Centennial	Belvedere	Coronation	Bennett Centre
Delwood	Crawford Plains	Laurier Heights	Daly Grove	John D. Bracco
L.Y. Cairns	Duggan	Major General	Mee-Yah-Noh	
Lymburn	Lago Lindo	Griesbach	Montrose	
Velma E. Baker	Lawton		Sakaw	
Westbrook	Rundle			

Asbestos Removal

These are on going projects within the asbestos management program and are identified annually based on the district's Hazardous Materials Management Program. It is intended to continue this program until all the asbestos in the district's buildings has been removed.

2008	2009	2010	2011	2012
D.S. MacKenzie Donnan	Forest Heights Grovenor	Gold Bar Lansdowne McKernan Virginia Park	None identified at this time	None identified at this time

Washroom Upgrades

This is an on-going program based on need and includes replacement of sinks and faucets or complete washroom upgrades.

2008	2009	2010	2011	2012
Afton	Ellerslie	Richard Secord	None identified	None identified
Grovenor	Montrose	Ross Sheppard	at this time	at this time
Rosslyn				

## Building Envelope

### Re-Roofing

This is an on-going program based on life-cycle replacement and condition assessment.

2008	2009	2010	2011	2012
Belgravia	Brander Gardens	Belmead	Delwood	Baturyn
Britannia	Callingwood	Delwood	Dovercourt	Greenview
D.S. MacKenzie	Glengarry	Kameyosek	Ekota	Keheewin
Garneau	J.A. Fife	Lawton	Hillview	LaPerle
Greenview	Lee Ridge	Londonderry	Londonderry	Menisa
Homesteader	M.E. LaZerte	Malmo	Major General	Meyonohk
LaPerle	Sherwood	McKee	Griesbach	Ormsby
L.Y. Cairns	Steinhauer	McKernan	Richard Secord	Sakaw
M.E. LaZerte	Westbrook	Scott Robertson	Riverdale	Westlawn
		Vernon Barford	W.P. Wagner	W.P. Wagner

### Window Replacement

This is an on-going program based on need.

2008	2009	2010	2011	2012
Jasper Place Ph IV	Jasper Place Ph V	Jasper Place Ph VI	Capilano	Forest Heights
Queen Elizabeth	Lendrum	Laurier Heights	Fulton Place	Old Scona
Ph IV	Ross Sheppard	Ross Sheppard	Ross Sheppard	Ross Sheppard
Ross Sheppard	Ph IV	Ph IV	Ph V	Ph VI
Ph III	Strathcona Ph III	Strathcona Ph IV	Strathcona Ph V	Strathcona Ph VI
Strathcona Ph II				

### Exterior Door Replacement

This is an on-going program based on need.

2008	2009	2010	2011	2012
Avalon	Harry Ainlay	Aldergrove	Duggan	Hardisty
Grace Martin		Gold Bar	Laurier Heights	Riverbend
Lauderdale			T.D. Baker	Thorncliffe

## **Building Systems and Components**

### **Mechanical System and Component Replacements**

This is an on-going program to replace or upgrade mechanical systems and components that cannot sustain comfort levels in the classroom.

<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>
Jasper Place	Strathcona Stratford	D.S. MacKenzie Londonderry	Killarney Virginia Park	Belgravia Windsor Park

### **Replacement of Mechanical Systems Controls**

This is an on-going program to replace failed or obsolete energy management systems.

<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>
Allendale	Donnan	Belvedere	Beacon Heights	Grace Martin
Bannerman	Duggan	Beverly Heights	Coronation	Newton
Fraser	Eastglen	Capilano	Harry Ainlay	Oliver
Londonderry	Eastwood	Fulton Place	L'Académie Vimy	Prince Charles
M.E. LaZerte	Forest Heights	Governor	Ridge Academy	Riverbend
Malcolm Tweddle	Gold Bar	Hillview	Lawton	Ross Sheppard
Malmo	Highlands	Meadowlark	McArthur	Rosslyn
Parkallen	Idylwyld	Michael A. Kostek	McNally	Rutherford
Steinhauer	Inglewood	Minchau	Montrose	Spruce Avenue
Strathcona	Lee Ridge	Northmount	Mount Royal	W.P. Wagner
	Ritchie	Queen Elizabeth	Norwood	
	Sifton		Sherbrooke	
	Velma E. Baker		Thorncliffe	
	Waverley			
	Westbrook			

### **Electrical Systems Upgrades**

<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>
Strathcona	Lansdowne Lendrum	Braemar	None identified at this time	None identified at this time

### **Replacement of Water Piping**

<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>
Major General Griesbach	Beacon Heights	None identified at this time	None identified at this time	None identified at this time



### Weatherscreen Upgrades

2008	2009	2010	2011	2012
Menisa	Brookside	Kameyosek	Keheewin	Ormsby
Sifton	Hillview	Satoo	Minchau	
Weinlos	Sherwood	Steinhauer	Pollard Meadows	

### Architectural Repairs

This is an on-going program based on need. The projects listed will re-secure the coping stones.

2008	2009	2010	2011	2012
None identified at this time	None identified at this time	None identified At this time	None identified at this time	None identified at this time

### Flooring

This is an on-going program to replace flooring that is no longer maintainable.

2008	2009	2010	2011	2012
Allendale	Kate Chegwin	Britannia	Avalon	Avonmore
Dickinsfield	L.Y. Cairns Ph II	Glengary	Jasper Place	Eastglen
Ellerslie North	Malmo	Harry Ainlay	Lansdowne	Jasper Place Ph II
Garneau	McKernan	Homesteader	Lauderdale	L'Académie Vimy
Horse Hill	McNally Ph IV	J.A. Fife	McDougall	Ridge Academy
L.Y. Cairns Ph I	Montrose	Lawton	Portable	Major General
Mary Butterworth	Portable	Old Scona	Classrooms	Griesbach
McNally Ph III	Classrooms	Portable	Queen Elizabeth	Montrose
Portable	Ross Sheppard	Classrooms	S. Bruce Smith	Parkview
Classrooms	Ph III	L'Académie Vimy	Strathcona	Strathcona Ph II
Ross Sheppard	Rundle	Ridge Academy		Waverley
Ph II	Scott Robertson			
Sifton	Woodcroft Ph II			
Westmount Ph II				

### Wheelchair Accessibility and Special Needs Upgrading

These projects typically include the provision of elevators, wheelchair ramps and other specific needs. It is intended to focus on the needs of specific district sites in this and future years until all district sites have been upgraded.

### **Site Improvements**

These projects typically include the provision of, or the improvement to, site drainage, drop-off lanes, parking lots and paved play areas. The City of Edmonton cost shares the provision of student drop-off lanes with Edmonton Public Schools and Edmonton Catholic Schools on an alternate year format.

<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>
Unidentified cost shared drop-off lane with the City of Edmonton	Unidentified cost shared drop-off lane with the City of Edmonton	Unidentified cost shared drop-off lane with the City of Edmonton	Unidentified cost shared drop-off lane with the City of Edmonton	Unidentified cost shared drop-off lane with the City of Edmonton

### **Emergent Needs**

In addition to the project categories listed above, emergent replacement of mechanical components such as furnace heat exchangers, hot water tanks and water lines are dealt with on an emergent basis.

The annual budgeted cost for emergent projects is approximately \$1,200,000.

### **Additional Projects**

If the projects noted above can be completed for less than the estimated costs, the remaining funds will be directed to the replacement of floor coverings.