

# **RECAPP Facility Evaluation Report**

## **Capital Health**



**Royal Alexandra Hospital Diagnostic Treatment Centre**

B1029B  
Edmonton

<b>Facility Details</b>	
<b>Building Name:</b>	Royal Alexandra Hospital Di
<b>Address:</b>	10240 Kingsway Avenue
<b>Location:</b>	Edmonton
<b>Building Id:</b>	B1029B
<b>Gross Area (sq. m):</b>	40,108.00
<b>Replacement Cost:</b>	\$322,869,400
<b>Construction Year:</b>	0

<b>Evaluation Details</b>	
<b>Evaluation Company:</b>	R. Saunder Architects
<b>Evaluation Date:</b>	January 31 2011
<b>Evaluator Name:</b>	Raghbir Jagdev

<b>Total Maintenance Events Next 5 years:</b>	<b>\$2,762,570</b>
<b>5 year Facility Condition Index (FCI):</b>	<b>0.86%</b>

**General Summary:**

The Building was constructed in 1994. The building structure is in concrete with interstitial floors and curtain wall system. The building structure, envelope and interior finishes are in good condition. The building is new and very well maintained .

**Structural Summary:**

There are concrete piles grade beams, slab on grade, concrete columns and beams. Steel columns, beams, OWSJ, steel decking in penthouse. There are two large skylights over Atrium and main corridors, also four small ones over Conference room. The structural system is in good condition

**Envelope Summary:**

Basement, sub - basement and tunnel walls are poured in place concrete and painted. Brick masonry exterior wall, aluminum windows, insulation vapour barrier, and drywall. Membrane inverted roofing throughout. Building envelope through out is in good condition.

**Interior Summary:**

Interior partitions are steel stud, plaster walls and drywalls. There are aluminum frame / pressed steel frame and glass interior windows throughout the building. Walls are painted. There are ceramic tiles in washrooms, showers, and painted above. Also, wall papers in some areas. There are painted drywall and acoustic t-bar ceiling. Floors are ceramic tile, sheet vinyl, carpet and suspended computer flooring. Interior elements are all in good condition and well maintained

**Mechanical Summary:**

Ventilation is provided by variety of air handling units located in Mechanical Rooms and Penthouses. Air distribution system is via medium and low velocity single and dual ductwork to vav boxes, grilles and diffusers. Air conditioning is provided via chilled water distributed from central chiller plant and designated circulation pumps. Low pressure steam distribution from pressure reducing stations to heat exchangers located in mechanical rooms. Plate steam to glycol heat exchangers are provided within a building to serve heating and domestic water systems. Secondary circulation pumps are provided inside mechanical room to distribute hot water and glycol. Hot water distribution to perimeter radiation, radiant panels, re-heat coils, unit heaters and force flow heaters. Hot water is circulated via base mounted pumps. Steam grid humidification systems provided in air handling units. Domestic hot water is generated by three horizontal water heaters complete with steam heating coils and circulation pumps. Copper piping distribution to plumbing fixtures complete with domestic hot water recirculation systems. Pneumatic controls and direct digital control system provided. Fire protection system for the facility consists of wet sprinkler system, pre-action systems serving electrical rooms and held fire extinguishers. Sanitary service to City mains. Storm service to City mains. Domestic water lines leak in some locations and will require repair in near future.

Majority the main mechanical equipment components are original and well maintained.  
Overall mechanical system is in acceptable condition.

**Electrical Summary:**

The facility was originally built in 1994 and there has been no major upgrading since then, but there was some renovations for some units. The main electrical service fed from the RAH power plant room. There are two feeders to basement, and there are two feeders to penthouse to the building to backup each other for any power failure, and also emergency power feeding. The feeders come to three 13.8-347/6000V 2000 KVA transformers; the emergency transformer is 4.16-347/600V 1333 KVA for the emergency power system. The step down dry type transformers are installed in the basement and penthouse levels 377/600V, and 120/208V panels are installed throughout entire facility for all the power distribution. Every second floor of this building is an interstitial floor. All electrical panels, transformers are located in these floors.

The fluorescent fixtures are 90% T-12 with electromagnetic ballast, and 10% T-8 lamp fluorescent with electronic ballasts.

All fire alarm, intrusion, telephone and Public address systems meet current facility requirements. The nurse call systems were installed in each unit. The fire alarm system is scheduled to be replaced in the near future.

There are no emergency battery pack systems for emergency lighting. It is provided through emergency power with selected fluorescent light fixtures.

The overall rating for the facility shall be "Good"

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

**S1 STRUCTURAL****A1010 Standard Foundations\***

Concrete grade beam and piles

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**A1030 Slab on Grade\***

Slab on grade at sub basement level and tunnels

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

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

Concrete basement, sub - basement and tunnel walls

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

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

Concrete columns and beams

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

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

Interior concrete walls around elevator in sub-basement level.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**B1010.03 Floor Decks, Slabs, and Toppings\***

Concrete floor decks

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**B1010.05 Mezzanine Construction\***

Interstitial floors - Concrete

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**B1010.07 Exterior Stairs\***

Concrete stair on West side connected with Active Treatment Centre

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**B1010.09 Floor Construction Fireproofing\***

Concrete construction provides fire proofing

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

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

All mechanical and electrical penetrations through concrete floors are fire caulked

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**B1020.01 Roof Structural Frame\***

Concrete columns and beams for the main building.  
The mechanical penthouse roof steel deck on open web steel joists  
Steel columns and beams

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**B1020.03 Roof Decks, Slabs, and Sheathing\***

Concrete deck for main building  
The mechanical penthouse roof has steel deck on open web steel joists

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**B1020.04 Canopies\***

There is a canopy at the West side entrance of the Atrium

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**B1020.06 Roof Construction Fireproofing\***

Concrete provides fireproofing.  
Mechanical penthouse roof is non combustible material and has no fire proofing

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**S2 ENVELOPE****B2010.01.02.01 Brick Masonry: Ext. Wall Skin\***

Brick exterior wall skin on South, West, North and East walls

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**B2010.01.09 Expansion Control: Ext. Wall\***

No expansion control outside. No cracks in exterior brick.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**B2010.01.11 Joint Sealers (caulking): Ext. Wall\*\***Caulking on Curtain wall frame and wall junction  
Caulking on door frame and wall junction

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	20	FEB-12

**Event: Replace caulking ( 3123 M )**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2015	\$88,942	Unassigned

**Updated:** FEB-12**B2010.01.13 Paints (& Stains): Ext. Wall\*\***

Metal railing, brick shelf angle

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	15	FEB-12

**Event: Lifecycle Replacement (796 SM )**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2012	\$15,000	Unassigned

**Updated:** FEB-12**B2010.02.01 Cast-in-place Concrete: Ext. Wall Const\***

Basement and sub basement levels are cast in place concrete.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

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

Some brick masonry on exterior outside walls.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**B2010.02.04 Load-Bearing-Metal Studs: Ext. Wall\***

Mechanical penthouse has wind load bearing steel studs

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

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

Basement and tunnel wall paint acts as vapor barrier. Walls above grade have rigid insulation and vapor barrier with concrete block backing and brick veneer.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**B2010.05 Parapets\***

Parapets are constructed of concrete block with brick masonry.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

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

Exterior metal louvers at mechanical penthouse

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**B2010.09 Exterior Soffits\***

Soffit at canopy on West entrance of Atrium

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

**B2010.10 Other Exterior Walls\***

Prefinished metal siding with cement board dado on mechanical penthouse.  
Dynamic buffer zone installed on Southwest and North walls

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



**B2020.03 Glazed Curtain Wall\*\***

Curtain wall windows and frame

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	40	FEB-12

**Event: Replace Curtain Wall ( 9736 SM )**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2034	\$13,453,107	Unassigned

**Updated:** FEB-12

**B2030.01.06 Automatic Entrance Doors\*\***

On west side vestibule has two sets of automatic double swinging doors.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	30	FEB-12

**Event: Replace Automatic Doors (2 sets of doors)**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2024	\$42,105	Unassigned

**Updated:** FEB-12

**B2030.02 Exterior Utility Doors\*\***

In basement, there are four double and two single utility doors.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	40	FEB-12

**Event: Replace Exterior Utility Doors (4 double and two single doors)**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2034	\$42,109	Unassigned

**Updated:** FEB-12

**B2030.03 Large Exterior Special Doors (Overhead)\***

There is one overhead door on east side of the building.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12



**B3010.01 Deck Vapour Retarder and Insulation\***

Rigid insulation and vapour retarder are provided.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**B3010.04.08 Membrane Roofing (Inverted/Protected)\*\***

Membrane inverted roofing throughout.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	30	FEB-12

**Event: Replace Membrane Roofing (Inverted/Protected) (4527m2)**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2024	\$965,450	Unassigned

**Updated:** FEB-12

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

There are two large aluminum framed skylights over Atrium.  
Also, 4 small size adjacent to Atrium.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	25	FEB-12

**Event: Replace Skylights (1830 m2)**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2019	\$4,835,300	Unassigned

**Updated:** FEB-12

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

There are mechanical roof openings.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**S3 INTERIOR****C1010.01 Interior Fixed Partitions\***

There are steel stud and drywall partitions.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**C1010.04 Interior Balustrades and Screens, Interior Railings\***

At Atrium area mezzanine floor, balustrade & railing is stainless steel and tempered glazed-screen.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**C1010.05 Interior Windows\***

Interior windows are aluminum frame / pressed steel frame and glass.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**C1010.06 Interior Glazed Partitions and Storefronts\***

In main floor, Diagnostics Administration area, Conference Room has steel glazed partitions and storefronts.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

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

Floor and ceiling firestopping to drywall steel stud partitions.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**C1010.08 Other Partitions\***

Corridor and waiting room is glass block wall at 70" high.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**C1020.01 Interior Swinging Doors (& Hardware)\***

Interior doors are wood doors with plastic laminate finish both sides with steel frames.  
Hardware in good condition.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**C1020.03 Interior Fire Doors\***

Corridor doors are fire rated.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**C1020.04 Interior Sliding and Folding Doors\***

At 5th floor, Central Lab in room #5067-2 has accordion door.  
 At main floor, between Classroom #1006 and 1006-1, there is folding door.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**C1020.07 Other Interior Doors\***

ICU and CCU rooms have large aluminum automatic sliding doors.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

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

At Level 1, 2, 3, there are 30 whiteboards / tackboards and 10 smartboards for each level.  
 At Sub-basement, 20 whiteboards / tackboards.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	20	FEB-12

**Event: Replace Visual Display Boards (110 whiteboards/tackboards)**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2015	\$72,028	Unassigned

**Updated:** FEB-12

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

At level 5, 3 washroom stalls  
 At level 3, 7 washroom stalls, 1 shower stall  
 At level 1, 7 washroom stalls  
 At basement foodcourt area, 9 washroom stalls

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	30	FEB-12

**Event: Replace Fabricated Compartments (Toilets/Showers) (27 units)**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2024	\$38,600	Unassigned

**Updated:** FEB-12

**C1030.05 Wall and Corner Guards\***

Corridors are stainless steel corners at 7'-0" high.  
 Sub-basement central service is stainless steel corners.  
 Decontaminated area is stainless steel corners at 7'-0" high.  
 At Level 5, NICU room has pvc corner guards at 7' high.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	0	FEB-12

**C1030.05 Wall and Corner Guards\* - Tunnels**

Bumper guards in tunnels adjacent to DTC need replacement

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
3 - Marginal	1994	0	FEB-12

**Event: Replace Bumper Guards ( 1600 M )**

**Concern:**

Bumper guards in Tunnels are damaged

**Recommendation:**

Replace bumper guards with pvc guards

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Failure Replacement	2012	\$48,000	Low

**Updated:** FEB-12

**C1030.06 Handrails\***

There is pvc handrail bumpers in corridors.  
 Also, wood handrails on corridors at Level 3 and Level 2 Atrium.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	0	FEB-12

**C1030.08 Interior Identifying Devices\***

There is signage throughout the building.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	0	FEB-12

**C1030.10 Lockers\*\***

Basement, Sub-basement, Level 1, Level 3, Level 5 have lockers in change rooms.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	30	FEB-12

**Event: Replace Lockers (370 units)**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2024	\$243,000	Unassigned

**Updated:** FEB-12

**C1030.12 Storage Shelving\***

There are storage shelving; metal moveable, also, wood built-in.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	0	FEB-12

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

There are washroom and housekeeping room accessories, also, stainless steel barrier free grab bars.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	0	FEB-12

**C2010 Stair Construction\***

Stair construction is concrete.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	0	FEB-12

**C2020.01 Tile Stair Finishes\***

In Atrium, main stairs treads are ceramic tile finish.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	0	FEB-12

**C2020.05 Resilient Stair Finishes\*\***

Exit stairs are sheet vinyl finish.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	20	FEB-12

**Event: Replace Resilient Stair Finishes ( 145 m2)**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2015	\$11,500	Unassigned

**Updated:** FEB-12

**C2020.08 Stair Railings and Balustrades\***

In Atrium, main stair railings & balustrade is stainless steel finish.  
Exit stairs have stainless steel handrails.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**C3010.01 Concrete Wall Finishes (Unpainted)\***

Electrical room #7 is concrete floor unpainted.  
In Atrium, round columns, some walls and main stair beams are sand-blasted finish.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

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

In Atrium, part of the walls are wood veneer paneling.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	30	FEB-12

**Event: Replace Wall Paneling (85 m2)**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2024	\$8,355	Unassigned

**Updated:** FEB-12

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

Patient rooms showers are ceramic tile wall finish at 4' high.  
 Washrooms are ceramic tile wall finish.  
 At basement, food court area walls are full height ceramic tile finish.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	40	FEB-12

**Event: Replace Tile Wall Finishes ( 1200m2)**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2034	\$375,600	Unassigned

**Updated:** FEB-12

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

Gypsum board and concrete block walls are painted throughout the building.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	0	FEB-12

**C3010.12 Wall Coverings\***

At main floor administration office walls are wall paper finish.  
 ICU and CCU units are wall paper.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	0	FEB-12

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

Brick veneer and sand-blasted concrete wall finishes in various areas of the building.  
 Aquarell and kydex finish are used throughout the building at 3'- 5' high.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	0	FEB-12

**C3020.01.01 Epoxy Concrete Floor Finishes\***

Mechanical room #6001-1 is epoxy painted floor.  
 Sub-basement room # S016-9 is epoxy finish.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	0	FEB-12

**C3020.01.02 Painted Concrete Floor Finishes\***

Mechanical and electrical and other service rooms are concrete floor painted.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	0	FEB-12



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

At Level 2 on-call suites, lounge and corridors, also, Atrium are ceramic tile finish.  
 At Level 1, Atrium, elevator lobby and east side main corridor are ceramic tile finish.  
 At basement, food court seating area, elevator lobby and all CRU & storage areas are ceramic tile finish.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	50	FEB-12

**Event: Replace Tile Floor Finishes (5050 m2)**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2044	\$1,124,130	Unassigned

**Updated:** FEB-12

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

At Level 5, most of the spaces, except Simulation rooms and washrooms & showers, are resilient floor finish.  
 At Level 3, most of the spaces, except washrooms & showers, are resilient floor finish.  
 At Level 1, most of the spaces, except washrooms & showers, special procedure viewing rooms, Control rooms, are resilient floor finish.  
 Sub-basement Level, most of the spaces, except service rooms, are resilient floor finish.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	20	FEB-12

**Event: Flooring Replacement - Phase 1 (7000m2)**

**Concern:**

Worn out flooring is unsightly, unhealthy and poses a trip/fall hazard. New flooring is easier to maintain.

**Recommendation:**

Replace flooring in areas where required with new.

**Consequences of Deferral:**

Slip, trip hazard, infection control

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Failure Replacement	2012	\$562,600	Low

**Updated:** FEB-12

**Event: Replace Resilient Flooring -Phase 2 ( 7000 m2)**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2015	\$580,000	Unassigned

**Updated:** FEB-12

**C3020.08 Carpet Flooring\*\***

Carpet flooring locations:

At Level 1, special procedure viewing rooms

At Level 2, on-call suites-rooms

At Level 5, Simulation room area

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
3 - Marginal	1994	15	FEB-12

**Event: Replace Carpet Flooring (1000 m2)**

**Concern:**

Carpet in some areas showing signs of wear

**Recommendation:**

Replace carpet

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Failure Replacement	2012	\$64,500	Low

**Updated:** FEB-12

**C3020.09 Access Flooring\*\***

At main floor, Cardiac Service-computer & control rooms and Scanner control rooms are suspended accessible floor with plastic finish.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	25	FEB-12

**Event: Replace Access Flooring (115 m2)**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2019	\$65,100	Unassigned

**Updated:** FEB-12

**C3030.01 Concrete Ceiling Finishes (Unpainted)\***

Sand-blasted concrete ceilings in various locations.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**C3030.04 Gypsum Board Ceiling Finishes (Unpainted)\***

Drywall ceiling is painted throughout the building.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

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

Acoustic T-bar ceiling throughout the building, except, interstitial levels, drywall and exposed ceiling areas, service rooms.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	25	FEB-12

**Event: Replace Acoustic Ceiling Treatment (Susp. T-Bar) (14500 m2)**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2019	\$690,000	Unassigned

**Updated:** FEB-12

**C3030.07 Interior Ceiling Painting\***

Drywall ceiling is painted throughout the building.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	0	FEB-12

**D1010.01.02 Hydraulic Passenger Elevators\*\***

There are three passenger elevators in atrium lobby and four in DTC area.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	30	FEB-12

**Event: Refurbish Elevators (7 elevators)**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2024	\$642,094	Unassigned

**Updated:** FEB-12

**D1010.01.04 Hydraulic Freight Elevators\*\***

There are two freight elevators on west side of the building.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	30	FEB-12

**Event: Refurbish Elevators (2 elevators)**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2024	\$183,455	Unassigned

**Updated:** FEB-12

**S4 MECHANICAL****D2010.04 Sinks\*\***

600X600 mop sinks, molded stone, floor mounted , SS strainer.  
 Single and double compartment stainless steel sinks complete with chrome plated swing spout, aerator, indexed lever handles.  
 Stainless steel commercial sinks serving Kitchen.  
 Wall hung vitreous china sinks with wall mounted faucet.  
 Single and double compartment scrub station with foot controls.  
 Stainless steel countertop sinks with marine ledge.  
 Stainless steel countertop sinks complete with eye wash station serving Labs.  
 Shampoo sink - terrazzo complete with hanger and hose holder.  
 Stainless steel counter top sinks complete with gooseneck faucets in patients suites.  
 Bed pan service sink in soil utility rooms.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	30	FEB-12

**Event: Replace 286 Sinks**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2024	\$9,100,000	Unassigned

**Updated:** FEB-12**D2010.05 Showers\*\***

Handicap shower stalls, acrylic tub with chrome grab bars. Thermostatic mixing valve, pressure balanced.  
 Ceramic tile surface and fiberglass cabin showers with mixing valve.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	30	FEB-12

**Event: Replace 26 Showers**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2024	\$104,000	Unassigned

**Updated:** FEB-12**D2010.06 Bathtubs\*\***

Fiberglass bathtubs, holders, mixing valves and removable shower heads.  
 Arjo assisted bath tub Bowl complete with automatic disinfections system, locking door, thermoscopic mixing valve.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	30	FEB-12

**Event: Replace 18 Bathtubs**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2024	\$140,000	Unassigned

**Updated:** FEB-12

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

Stainless steel refrigerated wall hung drinking fountains with automatic stream regulator.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	35	FEB-12

**Event: Replace 36 Drinking Fountains/Coolers**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2029	\$216,000	Unassigned

**Updated:** FEB-12

**D2010.10 Washroom Fixtures (WC, Lav, Urnl)\*\***

WC - Wall mounted, vitreous china, open front seat, flush valve. Swing type stainless steel water closets serving some patient suites.

LV - Stainless steel and vitreous china countertop lavatories c/w two handle faucets. Wall hung barrier free, vitreous china lavatories with gooseneck faucets.

UR - wall mounted, vitreous china with flush valve.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	35	FEB-12

**Event: Replace 486 Washroom Fixtures (WC, Lav, Urnl)**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2029	\$1,425,000	Unassigned

**Updated:** FEB-12

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

Copper piping distribution throughout.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

**D2020.01.02 Valves: Domestic Water\*\***

Plumbing fixtures complete with isolation valves.

Main branches isolated.

Ball and globe valves.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	40	FEB-12

**Event: Replace 1300 Valves: Domestic Water**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2034	\$330,000	Unassigned

**Updated:** FEB-12

**D2020.01.03 Piping Specialties (Backflow Preventers)\*\***

Reduced pressure backflow preventors serving incoming domestic water line and fire lines.  
 Backflow prevention installed on heating water.  
 Double check valve arrangement serving chilled water system.  
 Vacuum breakers serving mop sinks and NFHB.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	20	FEB-12

**Event: Replace Piping Specialties (Backflow Preventors)**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2015	\$350,000	Unassigned

**Updated:** FEB-12

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

Domestic water recirculation and pressure booster pumps.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	20	FEB-12

**Event: Replace Plumbing Pumps: Domestic Water**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2015	\$35,000	Unassigned

**Updated:** FEB-12

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

Packaged water softening equipment complete with resin tanks with automatic drain valves.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	20	FEB-12

**Event: Replace Domestic Water Conditioning Equipment**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2015	\$35,000	Unassigned

**Updated:** FEB-12

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

Domestic hot water heating system consist of three horizontal hot water tanks complete with steam heating coils. Two tanks serving 65 deg.C and 40 deg.C systems and one tanks serving soft domestic hot water system.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	20	FEB-12

**Event: Replace 3 Domestic Water Heaters and accessories.**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2015	\$300,000	Unassigned

**Updated:** FEB-12

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

Water piping insulated throughout.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	0	FEB-12

**D2030.01 Waste and Vent Piping\***

Cast iron, copper, plastic and glass. Sanitary stacks piped vertically down to the basement.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	0	FEB-12

**D2030.02.04 Floor Drains\***

Floor drains located throughout in service rooms and wet process areas.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	0	FEB-12

**D2030.03 Waste Piping Equipment\***

Grease traps serving Kitchen sinks.  
Sump pits complete with duplex pumps and controllers serving weeping tile system.  
Hair plaster and sediment interceptors.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	0	FEB-12

**D2040.01 Rain Water Drainage Piping Systems\***

Cast iron and PVC.  
Rain water collection via roof drains to storm mains.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	0	FEB-12



**D2040.02.04 Roof Drains\***

Large dome, sump roof drains with flashing flange and integral gravel stop.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	0	FEB-12

**D2090.10 Nitrous Oxide Gas Systems\*\***

Nitrogen and nitrous oxide are supplied via high pressure cylinders to specialized areas of the hospital. Unit consists of banks of high pressure cylinders, pressure relief valve, high pressure header valves and cylinder connection coils.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	30	FEB-12

**Event: Replace Nitrous Oxide Gas Systems. BOE: 40,108 sq.m. GFA**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2024	\$850,000	Unassigned

**Updated:** FEB-12

**D2090.11 Oxygen Gas Systems\*\***

Oxygen supplied from a bulk liquid oxygen tank in Emergency Building. Piping distribution to all levels of the hospital terminating at patient rooms outlets.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	30	FEB-12

**Event: Replace Oxygen Gas Systems. BOE: 40,108 sq.m. GFA**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2024	\$850,000	Unassigned

**Updated:** FEB-12

**D2090.13 Vacuum Systems (Medical and Lab)\*\***

Vacuum drawn from central vacuum pump located in Emergency Building. Pumps are equipped with guards, automatic water valves, strainer and regulating valves, vacuum gauge, water-air outlet separator, receiver and isolation valves. Piping distribution to all levels of the hospital terminating at patient outlets.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	30	FEB-12

**Event: Replace Vacuum Systems (Medical). BOE: 40,108 sq.m. GFA**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2024	\$850,000	Unassigned

**Updated:** FEB-12

**D2090.14 Acid Waste Systems\*\***

Acid neutralization system serving Laboratories and OR complete with tanks, glass piping distribution, pH monitoring and alarms.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	30	FEB-12

**Event: Replace acid neutralization system.**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2024	\$285,000	Unassigned

**Updated:** FEB-12

**D2090.16 Medical Air System\***

Medical air provided from central compressor located in Emergency Centre. System consists of packaged compressor with low water pressure alarm sensor, fresh air intake filters, aftercooler, refrigerated air dryers, line pressure regulator and main shut-off valve. Piping distribution to all levels of the hospital terminating at DISS outlets.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

**D3040.01.01 Air Handling Units: Air Distribution\*\***

There are total of 12 central air handling units serving DTC building.

AHU-1: Indoor, draw-through, constant volume air handling unit serving stairwell pressurization system, located in basement mechanical room. Supply air= 5663 lps.

AHU-2: Indoor, draw-through, constant volume air handling unit serving stairs and atrium pressurization system, located in the ATC building penthouse. Supply air= 3300 lps.

AHU-3,4,5,6,7,8,9,10: Indoor, single supply air duct, variable volume air handling unit complete with summer pre-filter, heat recovery coil, pre-heat coil, winter pre-filter, final filter, heating coils, cooling coil, steam grid humidifier ( for 103 kPa steam) and motorized dampers. Supply air= 24545 lps. Unit located in penthouse mechanical room.

AHU-11: Indoor, constant volume air handling unit serving DTC vestibule located in the Basement below Atrium. S/A 472 lps.

AHU-10: Indoor, constant volume air handling unit serving DTC penthouse electrical room. S/A 1700 lps.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	30	FEB-12

**Event: Replace 12 Air Handling Units**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2024	\$7,500,000	Unassigned

**Updated:** FEB-12

**D3040.01.02 Fans: Air Distribution (Remote from AHU)\***

There are 11 S/A booster fans and 11 E/A fans complete with variable speed drives serving operating rooms ventilation system.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

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

Media filters serving air handling units.  
HEPA filters serving operating rooms and Lab areas.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

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

Low and medium velocity ductwork distribution throughout the building. Single and dual ducts systems. Majority of ductwork concealed in ceiling space.  
Operating rooms ventilation system complete with designated booster fans complete with VFDs, attenuators and zone air monitoring systems.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

**D3040.01.06 Air Terminal Units: Air Distribution (VAV/CV Box)\*\***

EH Price SDV series single duct and dual duct units complete with actuators, serving all areas. Units are located within Interstitial areas and ceiling spaces.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	30	FEB-12

**Event: Replace 750 Air Terminal Units: Air Distribution (VAV/CV Box)**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2024	\$3,500,000	Unassigned

**Updated:** FEB-12

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

Various type of supply air grilles and diffusers located throughout. Round and square diffusers, linear and louver face grilles. Grilles have been modify along with numerous renovations. Flush face radial flow and laminar flow specialty diffusers in operating rooms and lab areas complete with hepa filters.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

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

Steam piping distribution from central heating plant located in Glenrose Hospital. Steam pressure reducing stations are provided to lower pressure from 870 kPa to 103 kPa, pressure sensors mounted on low pressure header modulate steam control valves.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	40	FEB-12

**Event: Replace Steam Distribution Systems: Piping/Pumps. BOE: 40,108 sq.m. GFA.**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2034	\$800,000	Unassigned

**Updated:** FEB-12

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

Steel and copper piping distribution from heat exchangers to heating loops. Base mounted circulation pumps are provided to serve hot water and glycol systems. Designated circulation pumps serving air handling units heating coils.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	40	FEB-12

**Event: Replace Hot Water Distribution Systems. BOE: 40,108 sq.m. GFA.**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2034	\$4,000,000	Unassigned

**Updated:** FEB-12

**D3040.03.02 Chilled Water Distribution Systems\*\***

250mm diameter CWS and CWR lines from central chiller plant located in Materials Management Building. Chilled water loop to cooling coils serving air handling units. Primary and secondary chilled water distribution and condenser water pump arrangement. Copper and steel pipes.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	40	FEB-12

**Event: Replace Chilled Water Distribution System. BOE: 40,108 sq.m. GFA**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2034	\$1,800,000	Unassigned

**Updated:** FEB-12

**D3040.03.03 Condenser Water Distribution Systems Pumps\***

Packaged condensate receiver complete with two pumps.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	0	FEB-12

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

Variety of exhaust fans provided on roof and in penthouse mechanical room serving general exhaust system, O.R. Booster exhaust, labs exhaust systems ( cytology, blood bank, hematology etc.), smoke exhaust system, storage exhaust and washrooms exhaust.

Zone exhaust fans complete with variable speed drives are provided for the Operating Rooms exhaust system. Designated exhaust fans serving laboratory fume hoods, isotopes exhaust hoods and biological safety cabinets. Designated exhaust fans serving kitchen hoods in Food Court area.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	30	FEB-12

**Event: Replace 70 Exhaust Fans**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2024	\$700,000	Unassigned

**Updated:** FEB-12

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

Galvanized steel exhaust ducts up to SMACNA standards.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	0	FEB-12

**Event: HVAC Noise Attenuation**

**Concern:**  
Noise levels within the Neonatal Intensive Care Unit are outside of design parameters.

**Recommendation:**  
Deploy proven engineered sound attenuation to reduce noise.

**Consequences of Deferral:**  
Quality of patient care

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Program Functional Upgrade	2011	\$200,000	High

**Updated:** APR-11

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

Metal exhaust grilles of various types and sizes are located throughout the ceiling areas of the facility.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	0	FEB-12

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

Steam to hot water and steam to glycol mix complete with designated circulation pumps.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	30	FEB-12

**Event: Replace 8 Heat Exchangers**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2024	\$140,000	Unassigned

**Updated:** FEB-12

**D3050.01.04 Unit Air Conditioners\*\***

Packaged unitary air conditioners complete with water cooled condensers serving electrical rooms, mechanical rooms and computer rooms. Units have airflow capacities of 1230 lps (typ. Of 3), 1699 lps and 4250 lps.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	30	FEB-12

**Event: Replace 5 Air Conditioning Units**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2024	\$400,000	Unassigned

**Updated:** FEB-12

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

Steam grid humidifiers serving air handling units and operating rooms ventilation systems.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	25	FEB-12

**Event: Replace 36 Humidifiers**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2019	\$525,000	Unassigned

**Updated:** FEB-12

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

Vertical, horizontal and ceiling force flow heaters serving vestibules, complete with hot water heating coils.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	30	FEB-12

**Event: Replace 24 FF Heaters**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2024	\$120,000	Unassigned

**Updated:** FEB-12

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

Perimeter wall fin radiation complete with various type enclosure cabinets.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	40	FEB-12

**Event: Replace Finned Tube Radiation. BOE: 9000 sq.m.**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2034	\$450,000	Unassigned

**Updated:** FEB-12

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

Cabinet horizontal and vertical discharge, propeller, hot water unit heaters serving Mechanical Rooms and Maintenance areas.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	30	FEB-12

**Event: Replace 26 Unit Heaters**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2024	\$140,000	Unassigned

**Updated:** FEB-12



**D3050.05.08 Radiant Heating (Ceiling & Floor)\*\* - Radiant Panels**

Radiant ceiling panels, 610mm width aluminum linear type, mounted in the T-bar, or GWB ceiling along the perimeter wall.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	35	FEB-12

**Event: Replace 350 Clg. Radiant Panels.**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2029	\$350,000	Unassigned

**Updated:** FEB-12

**D3050.05.08 Radiant Heating (Ceiling & Floor)\*\* - Snow Melt**

Snow melt system serving main entrance and ramps.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	35	FEB-12

**Event: Replace Radiant Heating (Floor). BOE: 800 sq.m.**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2029	\$175,000	Unassigned

**Updated:** FEB-12

**D3050.06 Energy Recovery Units\***

Heat recovery coils energy system installed in the E/A and O/A ductwork serving air handling units, complete with three circulation pumps and expansion tank.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	0	FEB-12

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

Duplex air compressors complete with refrigerated dryers.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	40	FEB-12

**Event: Replace Pneumatic Controls. BOE: 40,108 sq.m.**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2034	\$350,000	Unassigned

**Updated:** FEB-12

**D3060.02.05 Building Systems Controls (BMCS, EMCS)\*\***

Digital programmable BMCS - Siemens Apogee.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	2000	20	FEB-12

**Event:** Replace Building Systems Controls - BMS. BOE: 40108 sq/m/ GFA.

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2019	\$1,450,000	Unassigned

**Updated:** FEB-12

**D4010 Sprinklers: Fire Protection\***

Hospital building is sprinkled as per NFPA13. Automatic sprinkler system consists of wet pipes. Automatic wet pipe sprinkler alarm valve.

Fire department connection provided. Fire line to two sprinkler trees located in Mechanical Rooms.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

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

Fire extinguishers provided throughout:- carbon dioxide, multi-purpose dry chemical. All units complete with up-to-date certification tags.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

**D4090.04 Dry Chemical Fire Extinguishing Systems (Kitchen Hood)\*\***

Dry chemical fire suppression system provided for each of the kitchen area range hoods.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	40	FEB-12

**Event:** Replace 4 Dry Chemical Fire Extinguishing Systems (Kitchen Hood)

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2034	\$145,000	Unassigned

**Updated:** FEB-12

**D4090.07 Fire Pumps & Water Storage Tanks\***

Fire water pressure pump and excess pressure pump serving DTC and ATC buildings.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

**S5 ELECTRICAL****D5010.01.01 Main Electrical Transformers (Facility Owned)\*\***

There are two in the basement level, two in the penthouse level 13.8-347/600V 2000 KVA transformers for this building primary side.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	40	FEB-12

**Event: Replace 4 Main Electrical Transformers (Facility Owned)**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2034	\$1,000,000	Unassigned

**Updated:** FEB-12

**D5010.02 Secondary Electrical Transformers (Interior)\*\***

There are 36 transformers. Transformer sizes varies on the load. The voltage mainly 347/600-120/208 V, 75KVA, 112.5KVA, 150KVA ,225KVA, 300KVA.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	40	FEB-12

**Event: Replace 36 Secondary Electrical Transformers (Interior)**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2034	\$875,000	Unassigned

**Updated:** FEB-12

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

There are four main distribution 347/600V, 3000A, 3-Phase 4-Wire located at sub basement level electrical room, and penthouse room.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	40	FEB-12

**Event: Replace 4 Main Electrical Switchboards (Main Distribution)**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2034	\$2,000,000	Unassigned

**Updated:** FEB-12

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

All Electrical panels were installed in interstitial spaces. Panels are fairly new and have enough spaces for future improvement. There are 35 CDP panels, and 150 120/208 voltage panels.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	30	FEB-12

**Event: Replace 185 Electrical Branch Circuit Panelboards (Secondary Distribution)**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2024	\$2,250,000	Unassigned

**Updated:** FEB-12

**D5010.07.01 Switchboards, Panelboards, and (Motor) Control Centers\*\***

The MCC's were installed in the facility in few different locations; All together there are 50 sections.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	30	FEB-12

**Event: Replace 50 Switchboards, Panelboards, and (Motor) Control Centers**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2024	\$375,000	Unassigned

**Updated:** FEB-12

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

The load switches and disconnect switches are installed for some mechanical small loads.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	30	FEB-12

**Event: Replace 500 Motor Starters and Accessories**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2024	\$500,000	Unassigned

**Updated:** FEB-12

**D5010.07.03 Variable Frequency Drives\*\***

10 units of mixed (siemens, ABB, mitsubishi) VFD were installed for air handling units.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	30	FEB-12

**Event: Replace 10 Variable Frequency Drives**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2024	\$450,000	Unassigned

**Updated:** FEB-12

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

Most of wiring are installed inside conduit with original building construction. BX is used from junction boxes to light fixtures. Cable trays were used in interstitial area.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
6 - Excellent	1994	0	FEB-12

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

The most of light fixtures are locally controlled, and corridor lights controlled by nurse stations.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	0	FEB-12

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

The incandescent pot lights were installed in the lounge areas, some waiting areas. Some of the light bulbs retrofit to compact fluorescent lamp.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	0	FEB-12

**D5020.02.02.02 Interior Fluorescent Fixtures\*\***

The light fixtures were originally T-12 completed with magnetic ballast. Some of them were retrofit with energy efficient T-8 fluorescent tubes completed with electronic ballast as replaced within maintenance budget.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	30	FEB-12

**Event: Replace 18000 Interior Fluorescent Fixtures**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2024	\$3,600,000	Unassigned

**Updated:** FEB-12

**D5020.02.02.03 Interior Metal Halide Fixtures\***

Wall pack and pole mounted metal halide fixtures are installed in food court.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**D5020.02.02.04 Interior H.P. Sodium Fixtures\***

Ceiling mounted HPS fixtures were installed in the food court area.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

**D5020.02.03.01 Emergency Lighting Built-in\***

The Hospital Campus has a power plan completed with generator. DTC building were fed from power generator for emergency power needs and lighting system. Some of the florescent lights are assigned as emergency lights with good coverage.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

**D5020.02.03.03 Exit Signs\***

Exit signs located at required location and exits. Fixtures are originally incandescent type, some of them were retro fitted to energy efficient LED type lamps within maintenance budget as required.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

**D5020.02.11 Operating Room Lighting\***

Halogen and quarts type lights were installed for the operating room lighting total 10.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**D5020.03.01.03 Exterior Metal Halide Fixtures\***

Wall pack outdoor lights provide sufficient coverage for partially of the site.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**D5020.03.01.04 Exterior H.P. Sodium Fixtures\***

Wall pack outdoor lights provide sufficient coverage for partially of the site.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

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

All outdoor lights are control by photo-cell.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

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

The Cerberus Pyrotronics panel was installed for fire alarm system. Entire system is hard wired system Class A loop. There are transponder panel on each interstitial space. This panel is old, it is hard to find spare part. There is new Siemens fire finder Fire alarm panel installation in progress. There are annunciator panel by each unit nurse stations. There are complain to not be able to find spare part.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	25	FEB-12

**Event: Replace Detection and Fire Alarm (40,000 m2)**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2019	\$1,100,000	Unassigned

**Updated:** FEB-12

**D5030.02.01 Door Answering\***

There is stand alone Aiphones intercom access at some unit entrance after hours. Some of this Intercom panel completed with camera for high secure service.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

**D5030.02.03 Security Access\*\***

HID swipe card access system were installed through entire facility, and it is integrated with LENEL security monitor panel. The signal goes to main RAH security office in the basement floor.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	2000	25	FEB-12

**Event: Replace Security Access (40,000 m2)**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2025	\$300,000	Unassigned

**Updated:** FEB-12

**D5030.02.04 Video Surveillance\*\***

There are security cameras at required locations, The signals transfers to security office.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	2000	25	FEB-12

**Event: Replace Video Surveillance (40,000 m2)**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2025	\$320,000	Unassigned

**Updated:** FEB-12

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

Simplex hard wired clock systems were installed through out entire building. There are new wireless Primex system in progress to install.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	0	FEB-12

**D5030.04.01 Telephone Systems\***

The Nortel Meridian switch board and telephone machines were installed for phone system.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	0	FEB-12

**D5030.04.03 Call Systems\* - Nurse Call System**

Total 10 Dukane, and Rauland Responder mixed Nurse call system are installed at nurse stations for each unit and provide communications between patients and nurses from the patient rooms to nurse desks.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
4 - Acceptable	1994	25	FEB-12

**D5030.04.03 Call Systems\*\***

The TOA EXES systems are used for Call system. The call stations are located in all units for paging.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	25	FEB-12

**Event: Replace Call Systems (40,000 m2)**

<b><u>Type</u></b>	<b><u>Year</u></b>	<b><u>Cost</u></b>	<b><u>Priority</u></b>
Lifecycle Replacement	2019	\$200,000	Unassigned

**Updated:** FEB-12



**D5030.04.04 Data Systems\***

Data outlets are installed through offices; and Cat 5 cables are installed either conduit or free air.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**D5030.04.05 Local Area Network Systems\***

One server, and patch panels are installed on each floor the facility..

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

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

Bogen DPA 160 PA system is installed for entire RAH. All buildings are connected together.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	20	FEB-12

**Event: Replace Public Address and Music Systems (40,000 m2)**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2015	\$600,000	Unassigned

**Updated:** FEB-12

**D5030.06 Television Systems\***

The TV outlets are available in all patient stations as per pay view. Serviced provided by a utility company.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**D5030.07 Other Communications and Security Systems\***

The Supernet is available for data system connected to Provincial health data system.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

**D5090.01 Uninterruptible Power Supply Systems\*\***

40 KVA Liebert Un interruptible Power Supply Systems.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	30	FEB-12

**Event: Replace Uninterruptible Power Supply System**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2024	\$500,000	Unassigned

**Updated:** FEB-12

**D5090.06 Lightning Protection Systems\***

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

**S6 EQUIPMENT, FURNISHINGS AND SPECIAL CONSTRUCTION****E1020.02 Library Equipment\***

In main floor there is medical library room # 1046-5.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	0	FEB-12

**E1020.07 Laboratory Equipment\***

In 5th floor, located on northeast end of the building, Core Laboratory is fully equipped.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	0	FEB-12

**E1020.08 Medical Equipment\***

Throughout the building, various units are provided with medical equipment.

At Level 5, POD units, Isolation room, Bio-medical equipment room, Pharmacy.

At Level 3, ICU, CCU rooms, Theatre units-has special light fixture for operations, Sterile core.

At Level 1, Radiography, Fluoroscopy, Tomo, Vascular Procedures, Cardiac, Ultrasound rooms, Nuclear Medicine rooms have sufficient equipment.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	0	FEB-12

**E1090.03 Food Service Equipment\***

In basement, at Atrium area various CRU 's provide their own food to serve.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	0	FEB-12

**E1090.04 Residential Equipment\***

In Staff Lounge rooms, fridge, microwave, table and chairs provided.

Also, in Atrium seating area has seating arrangement with furniture.

<b><u>Rating</u></b>	<b><u>Installed</u></b>	<b><u>Design Life</u></b>	<b><u>Updated</u></b>
5 - Good	1994	0	FEB-12

**E2010.02 Fixed Casework\*\***

There is casework throughout the building.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	35	FEB-12

**Event: Replace Fixed Casework (435m2)**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2029	\$388,311	Unassigned

**Updated:** FEB-12

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

Exterior and interior windows have horizontal blinds.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	30	FEB-12

**Event: Replace Blinds (400 m2)**

<u>Type</u>	<u>Year</u>	<u>Cost</u>	<u>Priority</u>
Lifecycle Replacement	2024	\$46,000	Unassigned

**Updated:** FEB-12

**E2010.06 Fixed Interior Landscaping\***

Upper Atrium- level 2 has fixed interior landscaping with brick wall at 18" high.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**S8 SPECIAL ASSESSMENT****K4010.01 Barrier Free Route: Parking to Entrance\***

Barrier free route -parking to entrance is provided through the ATC main entrance.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**K4010.02 Barrier Free Entrances\***

Main entrance has two sets of double automatic swinging doors.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

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

All main corridor widths, door sizes are meeting the barrier free circulation requirements.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**K4010.04 Barrier Free Washrooms\***

There are barrier free washrooms throughout the building.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	1994	0	FEB-12

**K4030.01 Asbestos\***

No asbestos was identified or reported during the site visit.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

**K4030.04 Mould\***

No mould was identified or reported during the site visit.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

**K4030.06 Radioactive Compounds\***

No radioactive compounds in the building observed during site visit.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

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

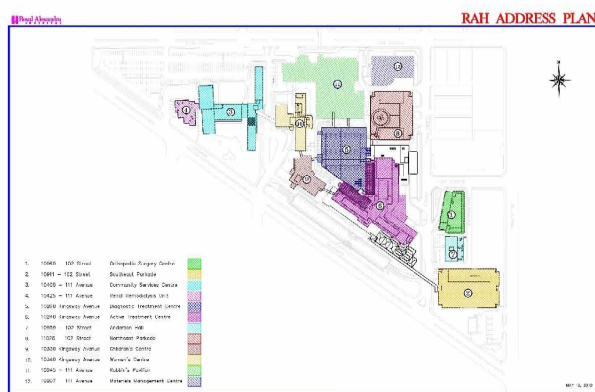
No ozone depleting substances was identified or reported during the site visit.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
4 - Acceptable	1994	0	FEB-12

**K5010.01 Site Documentation\***

Site visited by R Saunder Architect team on January 31, 2011.

<u>Rating</u>	<u>Installed</u>	<u>Design Life</u>	<u>Updated</u>
5 - Good	0	0	FEB-12



Site Plan.

**K5010.02 Building Documentation\***

Site visited by R Saunder Architect team on January 31, 2011.

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