

Parkview HVAC Upgrade Project Review

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Built in 1970

- Design capacity of 340 students
- HVAC upgrades in 1995-2000
- Original system was made up of roof top propane heating units around 25 years old. Mechanically failing and very inefficient.
- A section(4 classrooms) of the building that was added in the 1980's was heated by an existing boiler system.



New system

A CENTRAL HIGH EFFICIENCY BOILER PLANT WITH DISTRIBUTION PIPING TO INDIVIDUAL UNITS FOR EACH CLASSROOM. CLASSROOM VENTILATORS HAVE FRESH AIR, FILTRATION, AND CO2 SENSORS. HEAT RECOVERY UNITS TO SCAVENGE HEAT FROM BUILDING EXHAUST AND RELIEF AIR HELP TO SAVE ENERGY. UPGRADED HEATING CONTROLS SYSTEM ALLOWS BETTER CONTROL AND SCHEDULING FOR ALL HEATING AND COOLING NEEDS.



Design and cost estimates completed in 2021 =
\$1,750.000

APRIL 2022

Tender posted for 3 weeks on BCBid in March

1 respondent to tender: \$ 2,361,000.

After discussions with the Ministry of Education Capital Branch representative the project was broken into 2 phases and the approved budget used for the 1st phase.

COMPLETED SEPTEMBER 2022

Phase 1 = the heating plant and all equipment needed to add the hydronic system to the building = \$1,553,673

Remaining funds used to preorder all the classroom unit ventilators needed for the building.

Phase 2 Approved budget = \$1,050,000

APRIL 2023

Phase 2 = installing the piping, ductwork, and classroom unit ventilators throughout the building. This included removing all the components of the old system.

Tender results = \$1,470,000- agreed contract = \$1,008,965.70-significant changes to scope and SD83 taking over parts of the project

SEPTEMBER 2023

To meet the budget significant adjustments to the scope of work had to be initiated. SD took on the responsibility of all Asbestos abatement, structural work, interior finishes, millwork, and electrical work. Additional funds from the AFG supported the project to allow it to continue.

SD83 trades staff used this opportunity to add classroom LED lights to the project and renovate the bathroom at the front hallway into a gender-neutral washroom

Music room



Typical Classroom



Recently completed HVAC projects

- 2021 - ERS, final phase of Geothermal system
- 2021 - SAS Sullivan, boilers and domestic hot water system replaced
- 2022 - Parkview HVAC Phase #1
- 2023 - Parkview HVAC Phase #2
- 2023 - Highland Park, roof top heat pumps replaced