

Sir John A Macdonald Collegiate Institute, Toronto, Ontario



LOCATION : 2300 Pharmacy Avenue, Toronto, Ontario

OWNER : Toronto District School Board TDSB.

TEAM MEMBERS : **Mechanical Consultant**
Mr. Imran Majeed
Advanced Buildings Solutions Inc.

Electrical Consultants
Suri & Associates Ltd.



MECHANICAL ENGINEERING SERVICES:

Mr. Majeed was engaged to provide following services:

- Mechanical - Roof top unit Assessment
- Site review
- Concept Studies & Design Development
- Preparation of Construction Documents
- Estimating Construction Cost
- Cost Control & Value Analysis throughout the Design Process
- General Administration & Design Coordination throughout the work

PROJECT DESCRIPTION:

The project includes upgrade existing roof top units, exhaust fans, ductwork, piping, electrical upgrades in support of mechanical upgrades and services.

Existing System:

The building has minimal rooftop equipment detailed as follows:

1. There are number of exhaust fans on the low roof. They all appears in fair to good condition.
2. The condensing unit of Keeprite make and 5 ton capacity is old and showing rust.
3. Hvac unit of Carrier make is of 7.5 ton capacity. The unit was manufactured in 1976. the unit has electric heating.

Recommendations:

Based on our findings only replacement of the 5 ton condensing unit and 7.5 ton hvac unit is recommended due to age of equipment and signs of rust & inadequacy stated of the condensing unit.

