

Cedar Bridge Academy



PROJECT

Cedar Bridge Academy
Devonshire, Bermuda

CLIENT

Ministry of Education

DATES

2006 - 2007

Conditions Assessment

DESCRIPTION

Cedar Bridge Academy is a 250,000 square foot facility that has deteriorated rapidly since its construction in 1996. Major causes of concern were identified within the mechanical system, exterior envelope, and the building operations.

CHALLENGE

Due to serious concerns regarding mold, rising damp, and improper ventilation, the Ministry of Education required professional structural engineering and architectural services related to the Cedar Bridge Academy. The goal of the study was to identify physical conditions present in the building and recommend near and long term interventions that would improve indoor environmental issues and the building envelope.

SERVICES

Phase I - Existing Conditions Assessment

Conducted on-site investigations to identify and document existing conditions of the building envelope.

Inspected exterior wall construction and fenestration.

Identified immediate intervention measures to reduce indoor environmental problems.

Prepared a comprehensive report identifying issues and recommendations to improve moisture infiltration.

Phase II - Intervention Assessment & Recommendations

Continued in-depth analysis of building envelope and environmental issues.

Identified main issue with the mechanical system as it provides little filtration and no desiccation of incoming fresh air. Proposed several alternative solutions to improve air quality.

Identified flaws with roofing and wall systems. Proposed options to improve performance.

Prepared report of observations, analysis, recommendations, and cost estimates.