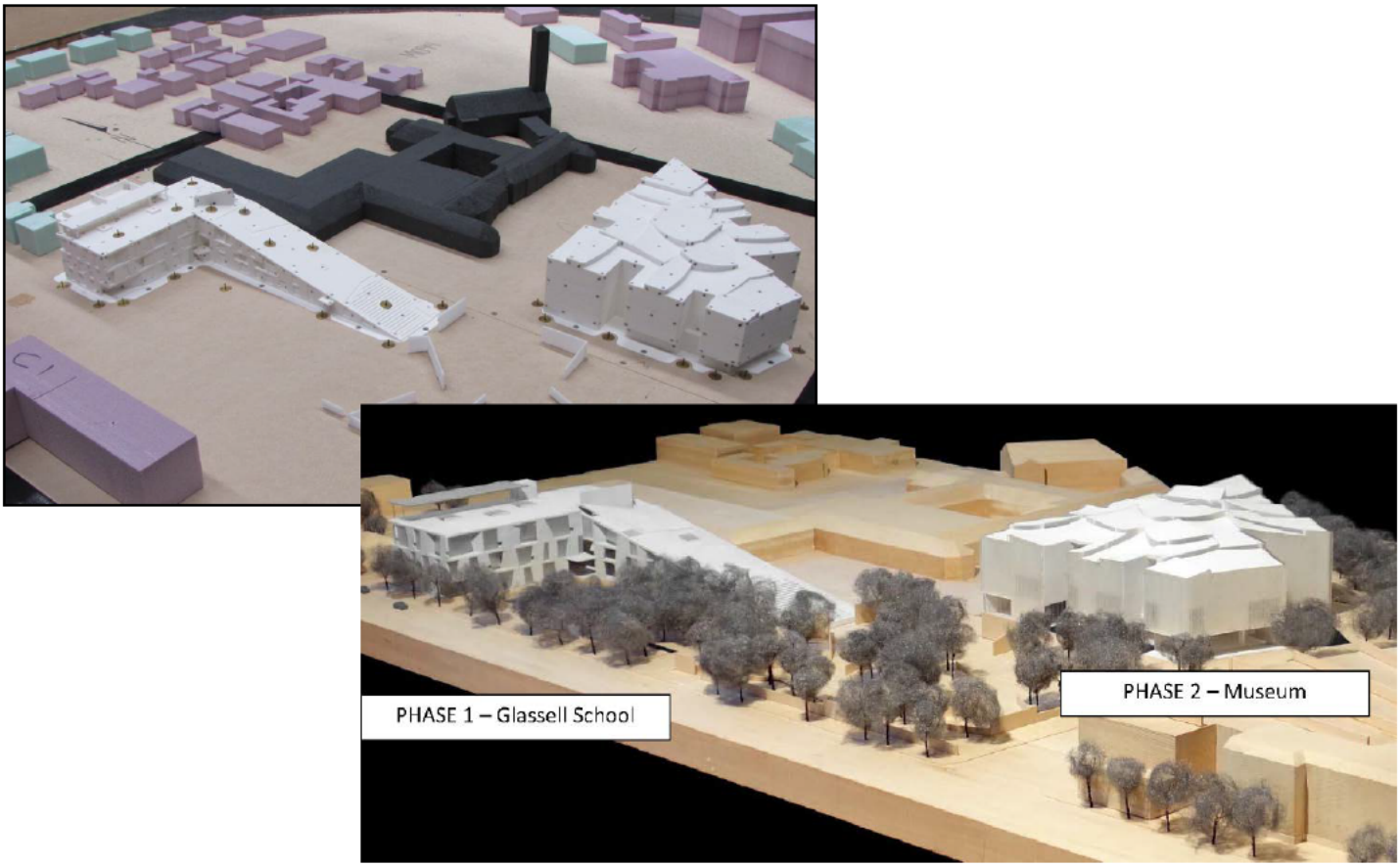
# Museum of Fine Art, Houston, Texas

## Wind Engineering Study




| Client | Structural Engineer | Architect |
|---|---|---|
| Steven Holl Architects | Guy Nordenson and Associates | Steven Holl Architects |
| **Height** | **Year Tested** | **Model Scale** |
| 60 ft | 2015 | 1:300 |

### The Project

Located in Houston, Texas, the project is an expansion of the Museum of Fine Arts, and consists of a new Museum building adjacent to the existing museum and a new "L" shaped Glassell building to replace the existing Glassell School.

### The Wind Tunnel Studies

The wind engineering studies for the Museum of Fine Art included a study of the wind-induced structural loads and responses, local cladding pressure loads, and pedestrian level wind environment.

The study of overall structural loads and cladding pressures were carried out using a pressure model containing 500 pressure measurement locations distributed over the two structures.

The study of pedestrian level wind speeds included 37 measurement probes distributed around the project site.

**The Boundary Layer Wind Tunnel Laboratory**

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