

# Logan International Airport: A Proposal for Terminal A (1)

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## INTRODUCTION

The Logan International Airport in Boston, (MA) consists of four terminals—A, B, C, and D. This project deals with the proposal for the replacement of Terminal A. The design brief for the project included a new terminal building consisting of ticketing and baggage claim spaces, a concourse serving 16 gates, concessions, holdrooms and spaces for mechanical and electrical rooms.

Response to the brief "Celebration of the Concourse," a spatial strategy concentrating on the concourse rather than the terminal. The new terminal is anchored to the site by the existing pedestrian and vehicular fabric. The building is sited at the entrance of the complex, acting as a gateway. The functional hierarchy and spatial adjacencies were determined from the precedent research. As one moves through the terminal, the play between structural members and light establishes a visual link between spaces, and guides a person through the building. These spaces were attempted as floating spaces enclosed within a skin (enclosure system) contracting and expanding respective to the program enclosed. The concourse is dynamic in form and warps around the site, connected with concessions. The concessions were conceptualized as bubbles of spaces enclosed within a glazed dome to form an urban node, consisting of restaurants, coffee shops etc and providing a view of the airfield.

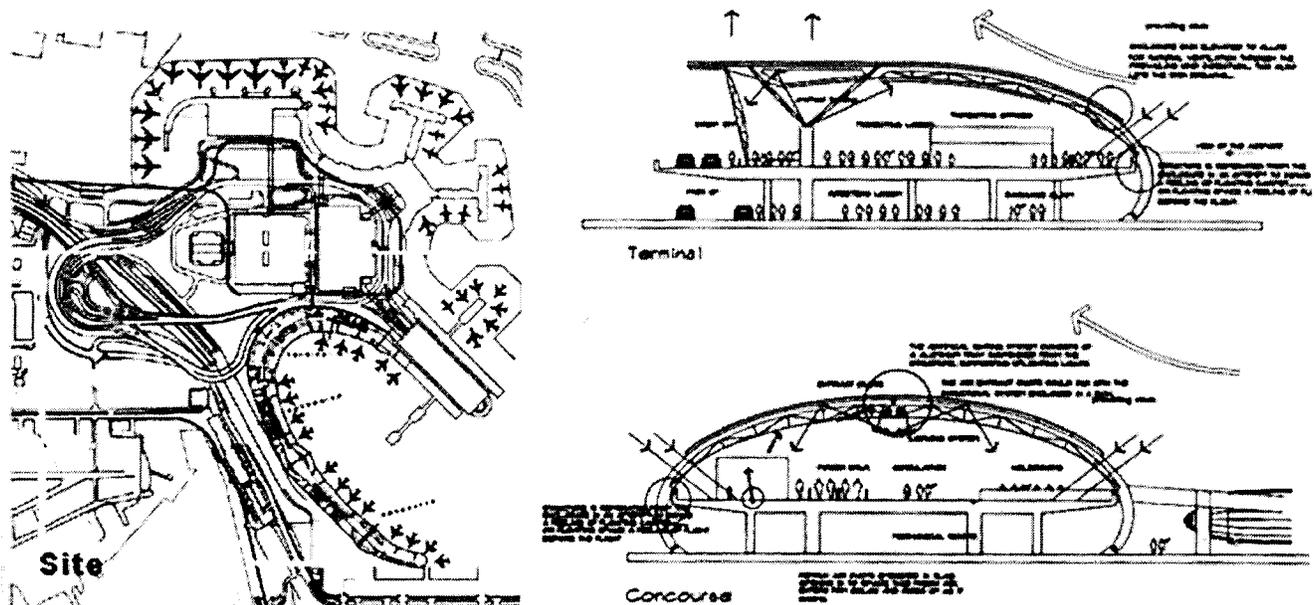


Fig. 1. Site and Sections

The structural system is designed to keep the floor spaces free from structural members. In the terminal the structural frame is a steel beam, hinged at one end and supported by truss on the other end. In the concourse the structural frame is a 3-hinged arch, hinged at two ends and pinned at the other end.

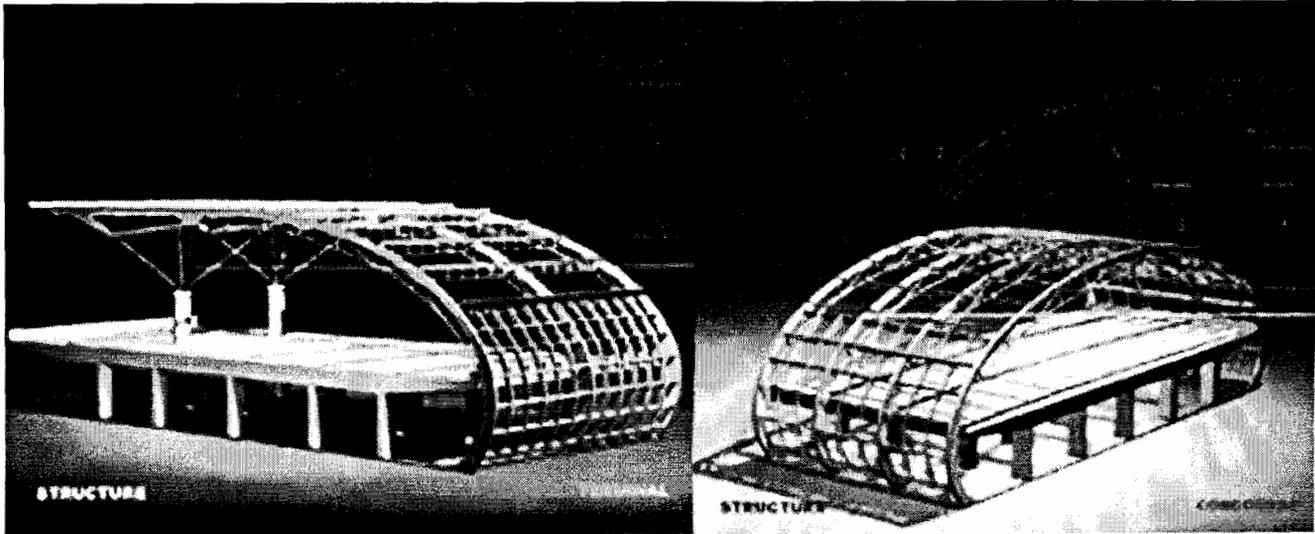


Fig.2. Structural Comparison between Terminal and Concourse.

The enclosure system consists of a double glazing system with louvers in between them. The enclosure allows wind to pass through, cooling the interior through Stack Effect. It comprises of various layers supporting active and passive climate control systems.

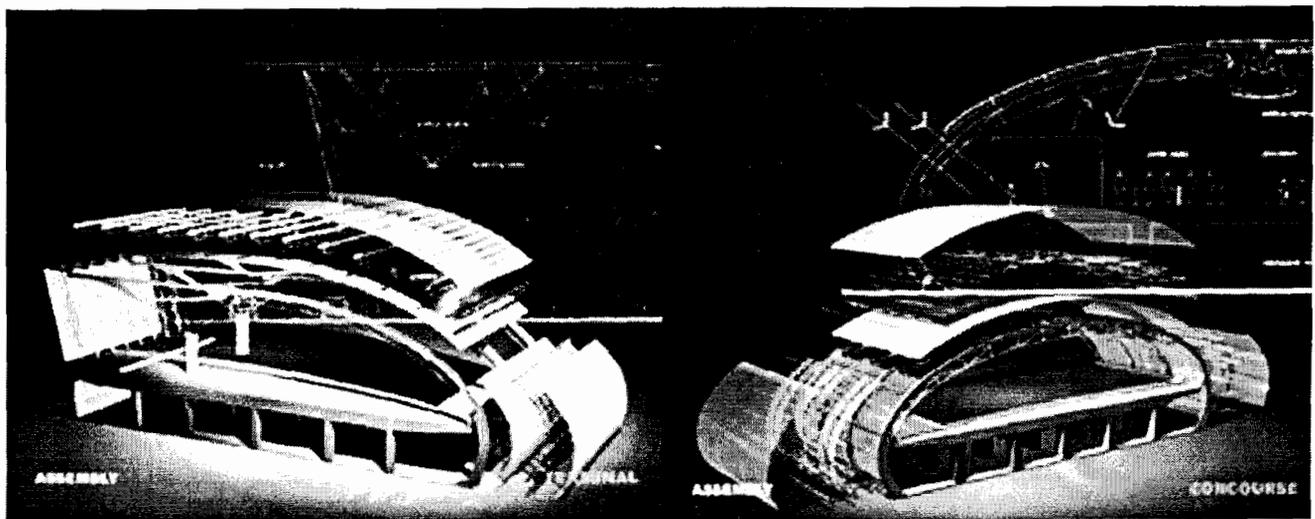


Fig.3. Enclosure System.