



**PROJECT:** MOSQUE EXTENSION  
**LOCATION:** ALDANA STREET, PRINCES TOWN  
**OWNER:** TRINIDAD MUSLIM LEAGUE (TML)  
**CLIENT:** MASJID-UL-AHAD  
**SECTOR:** INSTITUTIONAL/RELIGIOUS  
**PROJECT VALUE:** TT\$5m  
**PROJECT COMPLETION:** Dec 2009

**Project Description**

This project involved the detailed architectural, civil and structural engineering, design and construction drawings for a 400m<sup>2</sup> (4,300sf) religious building on 930m<sup>2</sup> of land. The land was occupied by an existing single-storey building, with the proposed extension being an additional floor above.

Rivelin Consultants Limited was appointed by the Client as the Design Consultant to carry out the full development and design of the building including the structural engineering and architectural detailing.

**Key project criteria**

- 400m<sup>2</sup> floor area over an existing single-storey early childhood and mosque facility
- Design of structural systems that allowed for expansion of the facility at a future date
- Maintain the existing footprint of the entire facility

**Our role**

- Develop a design and construction methodology to enable minimal disruption to the operation of the ground floor activities (Namaaz/•alāh, early childhood classes, meetings etc.)
- Preparation of the full civil, structural and infrastructure analysis, design and construction drawings for the Client
- Design and analysis carried out using ASCE07, BS5950 and BS8110 codes
- Provisions made for both seismic and hurricane loading
- Design of a single span truss to eliminate the upper floor area without intermediate columns
- Space layout in accordance with Islamic requirements (separate entrances for male/female, etc).
- Design of front minaret