DESIGN A PEDESTRIAN BRIDGE

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ABSTRACT

My project is to design a pedestrian walkway bridge that will connect two buildings. The body of the bridge composed of four T-beams and two rectangular columns. The length of the bridge is 16m long whereas the width of the bridge is 2.8m long. Rectangular columns, which placed at the middle of the bridge, support the bridge. The rectangular columns are 6.3m tall. Below the bridge, it must have a clearance in two sides to give the vehicles cross along the road.

The concept of the bridge is designed as two simply supported beams. Small gap is at the middle to separate the two simply supported beams. Two rectangular columns support all the four T-beams.

A small gap is designed to separate two simply supported beams. This small gap is supply to the beams for thermal expansion. There will be pin connections for columns and roller connections for supporting wall.

The idea of my design is obtained from INTI constructions. After process the calculation, the construction of the bridge is completed. More details and analyze will be present in my actual report.