

DESIGN OF A DOUBLE STOREY POLICE STATION WITH A HELICOPTER LANDING PAD ON THE ROOF

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ABSTRACT

The title of my project is Design of a Double Storey Police Station with a Helicopter Landing Pad on the Roof. The objective of the project is to design a double-storey police station providing a helicopter landing pad on the roof. Cover with both structural and architectural design.

Firstly, the architectural design has to be done; I have to design the dimensions of the helipad needed by the designed helicopter, BELL 412 EP, and hence, design the layout of the structures. The external and the internal appearance of the police station are also designed. The police station is complete with a big office area; lock-up, general information and fine payment desk, helicopter control room and some other rooms.

Secondly, the structural design of the police station is proceed. The police station is mainly a reinforced concrete structure and the design is based on BS Code 8110. The design of the helipad is based on the helipad design's guidelines (British Standard).

The design was started with roof, which is the helipad, slabs, staircase, beams, column and finally footings. The other special design in my project is lock-up design, since it has to be strength enough, a double side separation wall is provided.