



PERSPECTIVE VIEW OF CANADA CYCLE AND MOTOR COMPANY'S PLANT, WESTON, ONT.

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New Cycle and Motor Works, Weston, Ontario

THE plan and arrangement of the new plant of the Canada Cycle & Motor Company at Weston, Ontario, was determined mainly by the extent of the site which allowed sufficient ground area to permit of the erection of an almost entirely one-story building. As a result, the various working departments are organized so that the factory operations are conducted altogether on the ground floor level. The only part of the building rising above this height is a two-story section across the front, in which the general offices and storeroom are located. This part of the building is two hundred and eighty feet long by fifty feet deep, while the factory portion occupies the remaining space of two hundred and eight feet by one hundred and fifty-eight feet.

The continuous unbroken area thus available obtains both efficiency and economy in the process of manufacture; all operations, from the receiving of the raw material to the finishing stage, being carried out in a systematically arranged order, and without the necessity of raising or lowering any part of the work from one floor to another.

The general office section is built of fire resisting materials, with concrete foundation piers and reinforced concrete columns for the first floor. These columns are fourteen inches square, and placed at sixteen-foot intervals. Concrete is also employed in the girders, fourteen by thirty inches, which support the ten-inch hollow tile and concrete joist floor of the second story. The enclosing walls are of brick and the roof is flat, consisting of wood sheeting

on steel wall-bearing girders, and covered with prepared roofing. The floors are finished with cement or linoleum.

Two entrances at the front give access to the building, one being used by the male help of the factory and the other by the office staff and female employees. The general offices and storeroom are on the second floor, while modern locker rooms, an emergency hospital, and lunch and rest-rooms for the women staff are provided on the ground floor level.

One interesting feature of the entire building is the fenestration, whereby almost the entire wall area is taken up by a system of outside windows. As a result an abundance of light is obtained from all sides, and this is further supplemented by specially designed roof monitors which admit of an additional inflow of direct natural light immediately over the factory proper.

The factory section of the building is of steel frame construction, supported by concrete piers with spread footings carried down to a minimum depth of three feet six inches, and with the bearing strength varied to suit the loading requirements. The outside columns are supported on continuous foundation walls of concrete with spread footings, on which the outside brick walls are built up. The columns are placed at sixteen-foot intervals in one direction and forty-foot intervals in the other, with steel roof trusses spanning the long bays. The brick exterior walls are nine inches thick between the columns and thirteen inches at the columns, the