

THE NEW WORKS OF THE TORONTO ELECTRIC LIGHT COMPANY.

We are enabled in this issue to furnish our readers with some views of the new buildings of the Toronto Electric Light Company. It will be remembered that on the 21st of January last year, a destructive fire occurred, causing a loss of the arc lighting station of the company. Some effective work was done in providing temporarily for the illumination of the streets until permanent quarters could be provided for a new plant. The location of the works is one of the best that could possibly be chosen for a central distributing station. It is upon the water

inches thick was laid over the entire surface. Upon this the dynamos and engine foundations were built of hard brick and cement. They were raised high enough to permit of good head-room below, and the floor was formed of brick arches, resting upon these foundations and upon I beams and iron pillars in the intermediate spaces. In the tunnels thus formed the driving shafts are placed. The dynamos are driven by belts passing through apertures in the arches to the floor above. There are in this building two compound condensing engines of 350 h.p. each, and two pairs of high-pressure condensing engines of 450 h.p. The shafting is all 6 inches in diameter, and runs on self-oiling bearings, being driven from the engines



THE SCOTT STREET POWER HOUSE AND DOCK OF THE TORONTO ELECTRIC LIGHT COMPANY, LIMITED.

front of the city and at the foot of its principal thoroughfare and business centre. Unlimited water is available for condensing purposes and facilities for the unloading and storing of coal, both from cars and vessel, are of the best. In re-building it was determined to eliminate altogether the risk of loss and interruption by fire, and the new buildings are therefore constructed exclusively of iron, brick and stone. There is absolutely no wood used in their construction. The arc light station, No. 1, of which two views are shown, was completed about the first of September last, and is 165 feet in length by 68 feet wide. The foundation rests upon piles which were driven to the solid rock, and upon these a bed of concrete two feet nine

by triple leather belts 38 in. wide. A twenty-ton traveling crane is constructed to cover the entire floor space. This has been of the greatest value in placing the machinery in position, and when repairs are required, will be able to handle the heaviest piece of machinery at a minimum of both time and expense.

The arc light switchboard, which extends across one end of the building, is somewhat unique in both its methods and construction. It is built of pressed brick, with terra cotta facings. The terminals of the circuits are mounted on glazed tiles let into the face of the work. Ampere meters for each circuit are also mounted on other glazed tiles, and are large