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discussion as possible at earliest date.

The Canadian Society of Civil Engineers.

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PORT COLBORNE HARBOUR WORKS.

Description of Design, Methods and Plant.

By J. M. HOGAN, S. Can. Soc. C.E.

Read before the General Section, February, 1905.

Port Colborne, situated at the southern or Lake Erie end of the Welland Canal marks the limit of clear lake navigation, for from this point to Montreal the draft of vessels is controlled directly by the legal allowable draft of canals, which for the Welland Canal is 13' 6".

The Canadian Government has, since 1899, been engaged in extensive harbour improvements with a view to making Port Colborne a transshipping point of large dimension and a rival, if possible, to Buffalo. Should the Port Colborne scheme work out as intended, the navigation of the canal system would be largely augmented where at present, despite free tolls it is very small, especially considering the facilities offered and the excellent design of the canals.

Much of the grain which at present goes to Buffalo in the large lake carriers and thence to New York by rail or Erie Canal might be diverted to the St. Lawrence route were proper facilities provided at Port Colborne for transshipment, and it was to provide just such facilities that the works were undertaken.