shipping point of large dimensions, and a possible rival of Buffalo, N.Y. The works compared to the shape of channels. comprise new docks, excavation of channels, and two large breakwaters to the east and west of the port. These breakwaters, of which one, 5,000 ft. long, is totally finished, while the other, 2,400 ft. long, is half completed pleted, are under the supervision of the De-partment of Public Works. The remainder of the Deder of the works are being carried out by the Department of Railways and Canals.

This latter work may be divided into two sections, outer harbor and inner or canal basin. basin. Outer narpor and mile construc-tion of two docks, 200 by 700 ft., and the deepening of an area to 22 ft. to allow approach of the corriers. The reach by the largest lake carriers. The sacavation is entirely of solid rock, over of 300,000 cubic yards in all, averaging a cut of 3 to 4 ft. From lighthouse to canal basin entrance, a depth of 18 ft. is required, principally sand and soft material. basin itself is dredged to afford 16 ft. of be changed to afford a depth of 22 ft. over This plan, however, will no doubt entire area of both inside and outside har-bor. In addition the sides of the canal built have been dug out and concrete docks

The design of the inside and outside harb. They are essentially submerged cribwork filled with stone and surmounted by wall, the whole covered for width of crib by an 18 in. slab of concrete. The timber an 18 in. slab of concrete. The united in the cribwork was about 35,000,000 crib had to be a personal to the cribwork was about 35,000,000 crib had to be operation, ch had to be completed at one operation, that to be completed at one operation, to be provided to be dumped in, as soon as the crib Lad to be dumped in. The the crib had been placed in position. The concrete blocks are each 4 by 4½ by 7 ft. They blocks are each 4 by 4½ by 7 it. They are made with a joggle, so that the between each block, and between top of lateral displacement of blocks relative to see wall which might be caused by impact the wall which might be caused by impact of the handle Lip to the end of the heavy seas or vessels. Up to the end used for 1904 40,000 barrels of cement had been ased 40,000 barrels of cement had been this work concrete. The principal item of and dredoing of the drilling, blasting the dredoing of the drilling blasting the dredoing of the dredoing and dredging of 300,000 cubic yards of very dredging of 300,000 cubic yards of very limestone over a great area. The down to get from 6 ins. to 6 ft., but to get down to grade it was necessary to drill and avoid binned at 2 to 3 ft. below grade in order to avoid pinnacles and ledges being left.

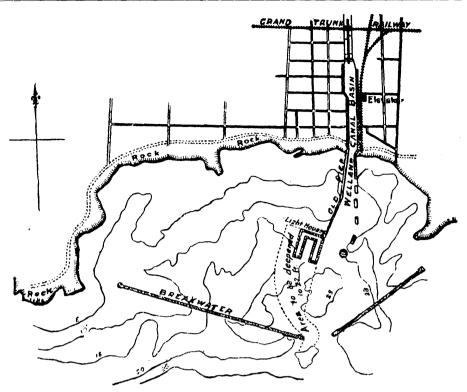
These various works are now almost conpleted, and arrangements are being made 2,000,000 bush. elevator.

The foregoing is contracted from a paper

The foregoing is extracted from a paper read recently before the general section of J. M. Hoggs

SHIPPING MATTERS.

Reciprocal Inspection of Steamships. Commerce and Labor for the Commerce and Labor of Commerce and Labor for the Cally notified that the Covernment of Canada notified the Canada cally notified that the Government of Canada will recognize as valid the steamboat inof the United Steamboat in the United Steamboat in the United Steamers, and, in the U.S. to American steamers, and, in having unexthe case of vessels of the U.S. having unexpected of the U.S. having unexpected of the U.S. having unexpected of the U.S. Government, will dispense had any further investigation as regards hull, case of vessels of the U.S. having unexwith of the U.S. Government, will dispensioned any further inspection as regards hull, lurther inspection as regards nun, life life aving appliances, except such as is satisfy the inspectors that the ving equipments and lifeof the vessel, her boilers and me equipments are as stated in the said



PORT COLBORNE HARBOR IMPROVEMENTS.

current U.S. certificate of inspection. It is therefore ordered that hereafter, and until otherwise directed, the merchant passenger steamers of Canada, sailing from ports in the U.S. and holding unexpired certificates of inspection, issued by the duly constituted officers of Canada, shall be subject to no other inspection than necessary to satisfy the local inspectors, that the condition of the vessel, her boilers and life-saving equipments are as stated in the said current Canadian certificate of inspection. The masters, owners or agents of Canadian merchant passenger steamers, other than steamers holding certificates of inspection issued by the authorities of the U.S., shall, immediately upon arrival at ports in the U.S., file in the office of the local inspectors of steamboats having jurisdiction in such ports a copy of their current Canadian certificates of inspection. Masters, owners or agents of the Canadian merchant passenger steamers holding an unexpired U.S. certificate of inspection, shall also furnish the local inspectors with a copy of their current Canadian certificates of inspection upon arrival at a U.S. port on their last voyage preceding the date of expiration of the current U.S. certificate held by such steamer, and it shall thereafter be examined and certificated in the manner provided herein." The regulations for inspection follow.

The Deputy Minister of Marine has issued a circular to Collectors of Customs stating that an Order-in-Council, dated April 26, has issued ordering that whereas the Minister of Marine has received assurances that the unexpired certificates of inspection held by Canadian steamboats plying to and from ports in the U.S. will be accepted by the U.S. authorities without any further inspection than is necessary to satisfy the U.S. inspectors that the condition of the steamboats, their boilers, machinery and life-saving equipment is as stated in the Canadian current certificate of inspection; and ordering that unexpired certificates issued by the U.S. authorities shall be accepted in Canada as evidence of lawful inspection of U.S. steamships plying to and from Canada and that no further inspection shall be required of such steamships beyond that which is necessary to satisfy the Canadian inspectors that the condition of the steamers, their boilers, machinery and life-saving equipment is as stated in the U.S. current certificate of inspection. The Canadian inspectors will be supplied with temporary certificates to issue to such steamboats for presentation to the Collector of Customs at the port from which they clear, in proof of the Canadian inspectors being satisfied as to the condition of the steamships, and the Collectors of Customs are to treat such vessels as having satisfactorily passed Canadian steamboat inspection. This regulation came into effect on May 6, instant, and is to be observed by Collectors of Customs and Steamboat Inspectors until further instructions are issued on the subject.

Regulations Respecting Cornwall Canal.

The following Dominion Order-in-Council respecting the Cornwall, Ont., Canal was passed April 18:—"Every vessel shall be brought to a dead stop 100 ft. from the near-est gates of the lock. The winch cable must there be secured to some suitable post on the vessel by the vessel's crew, after which the vessel will be drawn into the lock by the winch. Before the vessel moves under the impulse of the winch, all the usual and necessary lines for controlling the vessel must be and must be handled by the crew in such a way as will prevent too great speed being developed, and must be held at such a point as to effectually stop the vessel as soon as she is fully within the lock. While the vessel is being locked her crew must change the position of the winch cable in such a way as will allow the winch to pull the vessel out of the lock. When locking is completed, the vessel's crew must release the winch cable from the vessel."

A deputation consisting of J. A. Cuttle, President, Montreal; A. A. Wright, Toronto; C. A. Jaques, Montreal, and F. King, Secretary, representing the Dominion Marine Association, interviewed the Minister of Railways and Canals, May 17, and protested against the enforcement of the rules. A petition setting forth in detail the objections of the Association to the various rules was subsequently sent to the Department.