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C_{ANADIAN} FREIGHT RATE CASES

The Board of Railway Commissioners deintered judgment at Ottawa, July 30, on a with the freight charges of railway comlingt.

In the matter of the complaint of the Sydening Glass Co., which was an application for the rates than the special rates which had a which at present apply on shipments for Wallaceburg, Ont., on the line of the public control, or Toronto,

He Pere Marquette Rd., to Toronto, Hamilton, Berlin, London, Ont., and Montreal, Que. The original appli-ntion and the commodities reion covered these three commodities in carloads and less than carloads, ransportation Officer of the Canadian With the hearing W. H. D. Miller, Ransportation Officer of the Canadian With the canadian anufacturers' Association, which laid would be restricted to bottles in would be restricted to potter. india, After reviewing the evidence indiament sets forth : "It will be the ordered in the eved that the rates ordered in the the succeeding paragraph, excepting London, are the same as are in but we have t from Detroit; but we have the from Detroit; but we never the fact that it is similar to Detroit. Boods are not manufactured in Throit and therefore such traffic does originate there; but the Board has be reasonable and will direct that be charged according to the wing scale: On bottles in carloads Wallaceburg to London, 8 cents; Wallaceburg to London, 73 cents; Wallaceburg to London, 73 cents; Wallaceburg to London, 73 cents; 13 cents; Hamilton, 13 cents; Hamilton, 13 cents; Montreal, 231/2 cents the lbs. The Board rules therethat these rates shall govern and order to that effect will be made

A. Scobell filed a complaint by charging: (1) That discriminatory codar imposed on the transportation in of all kinds; and (2) That untended on the transportation of telepaned on the transportation of teletransport of telephone and trolley poles as applied with rates on lumber, etc.

with rates on lumber, etc. The rates divide the station on the rates quoted by the company were distrates quoted by the company were distrates and p. Ry., and the allegation was that the states quoted by the company were distrates and class of articles made from other were carried at lower rates. The comtainer said in their indemant.

"The carried at lower rates. And the company, "Mr. Conway, G.F.A. of the company, "Mr. Conway, G.F.A. of the company, "Method this fact, but set up, as we intered with remarkable frankness, in my had raised their rates upon certain

products in order to retard the shipment thereof, that the companies require these commodities largely for their own use, and that the object of the companies is to restrict the output so as to make sure that their future needs and requirements may be supplied. This open avowal of its policy respecting merchandise of this kind dispenses with the necessity of further inquiry into the facts, and squarely presents the question for the Board's decision, whether such a mode of dealing with traffic on the company's railway, or such a system of fixing or



J. E DUVAL, Chief Inspector, Board of Railway Commissioners of Canada.

applying its rates for transportation, can be recognized by the Board as a proper and lawful arrangement. The Railway Act, in conferring upon the Board a comprehensive jurisdiction to control and regulate railway rates, invests it with a discretionary power, without appeal, of determining whether tolls for the carriage of merchandise are just, reasonable, and free from discrimination, and we cannot hold, without doing violence to every just, equitable, and common sense consideration, that the tolls complained of come under such category. In the judgment of the Board the case is too clear for argument. Upon what sound, defensible principle can it be held that a railway company, enjoying, as it does, the privilege of a public franchise, should be allowed to single out a particular commodity, or class of commodities, and say to dealers in these goods : We cannot allow these articles to be shipped off our line to markets which you consider the best available, because we shall need all these products for our own use; and if you insist upon being given a rate, we will give you one, but it must be such a rate as will make it more profitable to you to sell to us at our price than to ship off our line of railway? There is

but one way we can suggest, con-sistently with law and morals, by which the railway companies can secure a monopoly of the cedar output along their lines, and that is by buying the cedar-producing lands. Our conclusion is that the charge of discrimination has been fully and completely established, and our order as respects this branch of the complaint will be that the Kingston and Pembroke Ry. Co. cease and desist henceforth and immediately from levving tolls on cedar and its products, such as lumber, ties, posts, tele-graph, telephone and trolley poles, in excess of the tolls on other descriptions of timber and their products. That the respondent company substitute for its present rates tolls which shall not discriminate between cedar and other woods. That the tolls on cedar and other ties be not higher than the tolls on lumber, to be published in the company's Special Mileage Tariff on Lumber, etc., and that the tolls on cedar lumber, cedar posts and cedar poles of all kinds be not made relatively higher than the tolls on other lumber, posts and poles, and that the Kingston and Pembroke Ry Co. substitute a new tariff giving effect to this order and submit the same within twenty days for the approval of the Board.

Ínasmuch as we are led to believe that on other railways a system of varying rates and discrimination as against cedar and cedar products is in operation, and in order that such a system shall not longer obtain and continue in operation, the Board has deemed it advisable to make the order

to the respondent company, stated above, a general order to all railways within the jurisdiction of this Board.

It is further ordered that Canadian Freight Classification No. 12 of May 1st 1903, be amended under the heading of Lumber, as follows, viz: that rails, fence posts, telegraph poles and ties of all descriptions, which are now classified to be carried by the railways by special contract only, be added to the list of commodities which are included in the said classification, in the term "Common Lumber," and are therein classified 10th class in

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Acting upon a report from C. Schrieber, Deputy Minister of Railways and Canals, after an inspection of the rail mill at Sault Ste. Marie, Ont., that steel rails of the best quality, made out of steel manufactured in Canada, were being turned out to meet the ordin-ary requirements of the Canadian market, the Governor-General-in-Council, under the authority of sec. 1, chap. 15, 1903, by pro-clamation has declared that a duty of \$7 a ton shall be collected upon all iron and steel railway bars or rails in any form for railways imported into Canada.

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CANADIAN FREIGHT RATE CASES

(Continued from page 301.)

carloads, and that telephone poles and trolley **Poles** (wooden) be also added to said list. As to the second ground of complaint, that the respondent company's rates upon teleraph, telephone and trolley poles are ex-cessive in that they are higher than the rates on on ordinary lumber, etc., the Board is not Satisfied that this matter of complaint has en fully and sufficiently argued before us. We shall necessarily be called upon to look into and deal with this question when passing pon the general railway tariffs submitted to and we will therefore defer at present coming to a decision, or making any order, having to a decision, or making any characteristic for the second branch of the complaint before us.

In the matter of the application of the Sutherland-Innes Co. and the Wallaceburg by the Data Value and the Wallaceburg by the Data Value and the Mishingan by the Pere Marquette Rd., the Michigan Central Rd., the Wabash Rd., the G.T.R. and the C. P. R. on cooperage stock from Wallaceda, and more especially to the increase from Wallact Wallaceburg and other western Ontario Points to Montreal for local delivery and for ethors export, after reviewing the evidence given, the Commissioners in their judgment said: Looking at the varying rates which have revailed from time to time during the period covered by the statement quoted above, and **Considering** (a) the fact that the export of cooperage has materially fallen off since the increased rates have prevailed; (b) the fact that 18 cents is the agreed rate on lumber for **bcal** delivery, and the frequent custom of the **tailways** to absorb the terminal charges on traffic carried to Montreal at local **traffic carried to monitical de it ::** (c) that 18 cents, including terminals, The second secon ways once accepted on export traffic, and (d) that 16½ cents, including cartage, has been accepted by the railways on shipments for **bcal** consumption; the Board has concluded to order that 16½ cents per 100 lbs. be the maximum that 16½ cents per 100 lbs. be the maximum rate from points in Western Ontato to Montreal on cooperage stock for local deline delivery, and 18 cents per 100 lbs. the maxiterminals, for export; and that cooperage Nock be included at the same rates as comnon lumber in the mileage tariffs of the railways applying on lumber and other commodties carried at lumber rates. It is not intended by this order that any special rates on himber lower than the special mileage tariffs, hade in competition with water routes or for other exceptional reasons, must necessarily be charged on cooperage stock also.

Power Features C.P.R. Angus Shops,

POWER DEMANDS.—The requirements of

these works for power include:

Before finally settling the question of alter-Actions finally settling the question of the operation **carefully** considered, and it was finally de-cided that cided that as far as possible all the demands hould be met by alternating current, and the be met by alternating current which it only those taken by direct current which it the alternating was impossible to place on the alternating Gurent service. Had it not been for the uncent service. Had it not been to the large channes be and the large channes be and the large current motors the tranes by alternating current motors the pent would have been entirely alternating, as Was recognized that in a very few years the direct current would be entirely displaced in favo a favor of alternating, but at the present cer-tain tool tain tools and cranes could be better operated by direct current power. The alternating current is developed and distributed at 550

volts, 60 cycles. The direct current power at 250 volts. A central station is established from which power is distributed to the various shops, the motors being driven in groups in most cases, and individually in others.

STEAM REQUIREMENTS.—The steam re-quirements are as follows—power for operating the central station:

Steam for power	4,225 h.p.
Steam for heating the shops	2,880 h.p.
Steam for miscellaneous uses	200 h.p.
Steam for locomotive boiler testing	317 h.p.

The heating of the shops being done by a fan system, exhaust steam from the power station, in addition to live steam from boilers, is distributed to the various buildings, the former through reducing valves, the latter direct. The testing of locomotive boilers, requiring, as it does, 300 lbs. pressure, necessitated the use of one 300 lb. boiler, which transmits steam to the machine shop, 1,800 ft. distant. The use of superheated steam to 150 degrees was deemed advisable to obtain economy, in view of the fact of the engines running non-condensing against some back pressure.

BOILER HOUSE .--- In the boiler house is installed at the present time the following apparatus:

Additional room allowed for Babcock &

Wilcox boilers, 415 h.p. each. To each boiler is attached a Babcock & Wil-

cox superheater for 150 degrees. One economizer in two groups, heating surface, 4,500 Two fans and engines for induced draft ft. at 34 oz. pressure.

At the present time there are installed in boiler house four Babcock & Wilcox forged steel water tube boilers of 415 h.p. nominal capacity each. These boilers are good for a working pressure of 160 lbs. to the square inch. There is also one Babcock & Wilcox boiler of 317 nominal capacity, good for a continuous working pressure of 300 lbs. All of the above boilers are fitted with Babcock & Wilcox patent steam superheaters to give a maximum of 150° Fahr. of superheat. They are also completely equipped with Neemes' patent shear cut shaking grates, manufactured by Babcock & Wilcox (Ltd.) There are also two high pressure fuel economizers, each containing 240 pipes, and equipped with independent engines to operate the scraper mechanism. They are also supplied with removable side panels of steel and asbestos to facilitate inspection. The pumps are of the Northey type, and consist of two 12 in. x 7 in. x 12 in. duplex brass lined pumps for the regular feed, and also two 8 in. x 4 in. x 12 in., of the same pattern and make, for supplying the high pressure boiler.

he induced draft plant consists of two 200 in. fans, each direct connected to a double enclosed vertical navy type engine 8 in. x $5\frac{1}{2}$ in. The fans are connected with the necessary by-pass arrangement and dampers and discharge the gases into a steel stack 8 ft. in diameter, and extending about 70 ft. above the boiler room floor. The speed of the fan engines, and consequently the draft, is controlled by automatic regulating values placed in the steam line to the fans. The whole of this apparatus was supplied and installed by Babcock & Wilcox (Ltd.). The Neemes Babcock & Wilcox (Ltd.). The Neemes grates were installed so that the waste wood and shavings from the planing mill and repair shops can be utilized for fuel. The shavings aggregate about 600 h.p. value in fuel, and are carried to the boiler room by a system of fans and piping, which delivers them into the furnaces above the ordinary fire doors. Coal is distributed on the boiler room floor from cars running alongside the boiler house. Ashes are dropped from the ash pits into small cars running in a tunnel, the buckets of which are hoisted out by an air lift at the end of the power house.

ENGINE ROOM .- In the engine room, divided from the boiler house by a fireproof wall, the following machinery is installed:

3 compound non-condensing engines, 750 h.p.

3 compound non-condensing engines, 750 h.p. 1 cngine, 375 h.p. The above directly connected to alternating current generators operating at 150 R.P.M. 2 compound non-condensing engines, 350 h.p., con-nected to direct current generators. 2 a,000 ft. compound air compressors, each 375 h.p. a simple exciter engines, 75 h.p. All of the above apparatus operates at a pressure of 150 lbs., with 150 degrees of superheat.

It was found inadvisable to condense owing to the necessity for cooling towers, as water was scarce, and to the fact that the exhaust steam would be more valuable in heating the works than through engine economy obtained by condensing. Directly connected to the engines specified above are the following dynamos:

Three 3 phase 60 periods G.E. generators, 550 volts, 500 K.W.

One 3 phase 60 periods G.E. generator, 550 volts, 250 K.W.

The above generators are connected to switchboards through ducts and pits with lead covered cables.

Switchboards consist of 20 panels, subdivided as follows:-alternating current genorators, four panels; direct current generators, two panels; exciter, one panel; alternating current feeder panels, 10 panels; totalling panel; series alternating current arc, one panel; one blank panel; two series arc G.E. transformers, each 50 lights.

All of the above apparatus is situated on the main floor, on the ground level. In addition, there is a pump pit, which runs the en-tire length of the building, 12 ft. wide, in which are placed all the pumps and auxiliary apparatus, as follows:-

2 well pumps, furnishing water to the works, 660 gallons per minute. a 300 lb. boiler feed pumps, 65 gallons a minute. 2 150 lb. boiler feed pumps, 200 gallons a minute. 2 underwriters' fire pumps, 1,500 gallons a minute.

All of the above pumps are of Northey type, made by the Canada Foundry Co.

1 corrugated tube heater, 1,100 h.p. 2 intercoolers for the compressors.

In addition, all the exhaust, drip piping and traps are placed in this pit, which is at the same level as the tunnel constructed throughout the works to carry all steam, exhaust and water pipes to the various shops.

PIPING.-All piping is in accordance with the latest modern practice, extra heavy pipe fitting and valves being used on the 150 lb. pressure, and double extra heavy on the 300 lb. lines. Flanges are of steel with the pipe expanded in. Main exhaust pipe runs the entire length of the building, and is of cast iron, with spiral riveted and galvanized free air pipes, with relief valves extending fifteen feet above the roof. All connections from boiler to boiler header, and from header to engines, are made of pipe bends, and all expansions are taken on pipe bends except in runsions are taken on pipe beings except in two cases, where corrugated expansion joints are used, these being reinforced with steel equalizing straps. All pipe joints are flush, gasketed with conner and flush. gasketed with copper, and flanged for all sizes above 2 ins. Boiler feed piping is in duplicate, and made of extra heavy galvanized iron. All of the above piping is soft wrought iron, and all valves from All of the above piping 7 ins. upwards are by-passed, except those on the boiler nozzles, where the pressure is equalized on both sides. Connections are made to the live steam piping both from the saturated and superheated nozzles of the boilers, so that any degree of tempering may be obtained if required. A drip loop system returns all clean water drips automatically to the boilers; it is connected to all engines, receivers and high pressure piping. On each engine has been placed a receiver of three times the capacity of the high pressure cylinder, equipped with baffle plates to remove

Galena-Signal Oil Company,

Franklin, Pa., and Toronto, Ont.

Successor to Galena Oil Company and Signal Oil Company, sole Manufacturers of the celebrated Galena Coach, Engine and Car Oils, and Sibley's Perfection Valve and Signal Oils.

CHARLES MILLER, PRESIDENT.



DRIVING OF THE LAST SPIKE ON THE CANADIAN PACIFIC RAILWAY,

By Donald A. Smith, now Lord Strathcona, at Craigellachie, B.C., Nov. 7, 1885. The C.P.R. Co. was incorporated by Letters Callender, Peb. 16, 1881, and one of the conditions of the contract with the Dominion Government was that the whole line between Company the one of the construction of the completed and equipped by May 1, 1891. Owing to the energy displayed by the Company the work was finished in 4 years and 6 months, or 5 years and 6 months less than the originally stipulated time.

any entrained water. These receivers act as the m reservoirs. The whole of the above covered with the best pipe clothing, to vary ture of the covered surfaces. ture of the covered surfaces.

DISTRIBUTING SYSTEM. — The electrical dis-Distribution beginning at the feeder panels in the to be to **Power** house rises in lead covered cable to the lop of the wire tower on the power house, and from thence it is distributed through bare copper stranded conductors of 250,000 cirwhere stranded conductors of 250,000 cm-thops mils to the various shops. In these vided and distributing centres are proed and equipped with automatic overload

and no load release group oil circuit breakers. ²⁴⁰load release group oil circun brease ach feeder on the main switchboard in wer steeder on the main switchboard with overload Not teeder on the main switchouses and the station is also equipped with overload breakers. All feeders in the yards are carin Din. All feeders in the yards are can be on structural steel poles, with steel cross At the entrance in pins and break arms. At the entrance buildings all strains are taken on turn buckles and ball insulators.

MOTORS. — A list is given below of the varishops and the number of motors in each:

ackmith shop a machine sh uck shop and switci binet shop then shop aging shop	erecting	shops	·		• • • • • • • • •	
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Owing to the fact that the new Angus

Suppose to the fact that the new the suppose are designed to cover all the manufac-and of the C. D. P. east of Fort William ^{lunne are designed to cover all the manuace all the of the C.P.R. east of Fort William the old tools in the various shops in the} different localities which were thought suitable are moved to the new premises. There are, therefore, a great number of machines which are not suitable for direct connection to motors, and it was deemed advisable in most cases to drive these machines in groups instead of individually. Certain new and special machines, however, have their own individual drives, some by alternating current and some by direct current, the direct current only being used for variable speed where desirable. All motors are supplied by the Canadian General Electric Co.

LIGHTING.—The outside lighting of yards has been done by series alternating lights, but interior lighting of large spaces by alternating parallel lamps. The lighting of individual tools in small spaces by incandescents.

All lighting is supplied through transformers, reducing from 550 volts to 115 volts in the case of the interior lighting, and from 550 volts through tub transformers, to 3,000 volts for the series arcs in the yards.

For the foregoing information we are in-debted to Ross & Holgate, consulting engineers. Montreal.

The Canadian Rolling Stock Co. (Ltd.), has been incorporated under the Dominion Companies' Act, with a capital of \$250,000 to manufacture, and to sell, lease, mortgage or otherwise dispose of locomotives, rolling stock, machinery or plant used in connection with railways, street railways or tramways. The offices are located at Amherst, N.S., and the provisional directors are: N. Curry, N. S. Rhodes, Hon. T. R. Black, C. T. Hillison, E. N. Rhodes, of Amherst, N.S.

RAILWAY FINANCE, MEETINGS, ETC.

Atlantic & St. Lawrence Rd. - The annual meeting of the stockholders was held Aug. 2, but as there was not a quorum present, no business was transacted, the old Board of Directors holding over, and the meeting stood adjourned without delay. The line is leased to the G.T.R. and is operated by that Co. No report is issued. The officers by that Co. No report is issued. The otheers and directors are: President, C. M. Hays, Montreal; Vice-President, F. W. Morse, Montreal; Clerk and Treasurer, W. W. Duffett, Portland, Me.; other directors: J. W. Loud, Montreal; F. R. Barrett, W. W. Brown, E. A. Noyes, P. G. Brown, Portland, Me. Manager, F. W. McGuigan; solicitor, C. A. Hight. Portland. C. A. Hight, Portland.

British Columbia Electric Ry.-Railway earnings for June : Vancouver, \$19,403; Victoria, \$10,087; New Westminster, \$11,406; total, \$40,896, against \$38,080 for June, 1903. Gross earnings: railways and lighting, \$65, 932 against \$57,437 for June, 1903. Working expenses. \$39,455; renewal funds, \$4,988; net income, \$21,489, against \$31,922, \$4,222Aggregate net earnings for 12 months ended June 30, \$285,042, against \$224,347 for same period 1902-03 The increase in working expenses is due to the extra cost during the transition period when both the steam and water power plants at Vancouver were in operation.

Bruce Mines and Algoma Ry .-- The officers for the current year, as elected recently, are : President, J. McKay, Sault Ste. Marie, Ont.; Vice-President, H. Weil, New York City; Secretary, M. Wile, Buffalo, N.Y.; Treas-

CANADA FOUNDRY COMPANY, LIMITED

Head Office and Works, TORONTO, ONT.



Manufacturers of Locomotives, Engines, Air Brake Equipment, Railway and Highway Bridges, Structural Steel Work, Cranes, Boilers, Horizontal, Upright and Locomotive; Pumps, Condensers, Compressors, Tanks, Water Towers and Riveted Steel Plate Work of every description. Waterworks' Supplies, Valves, Hydrants, Cast Iron Pipe, etc., Ornamental and Decorative Ironwork of every description.

DISTRICT OFFICES

MONTREAL, HALIFAX, OTTAWA, WINNIPEG, VANCOUVER, ROSSLAND, CALGAR^y

er, H. Wile, Buffalo, N.Y.; General Super Tretheway, Bruce Mines, Ont.; Chief Engi-ter, J S. Dobie, Bruce Mines, Ont.

Calgary and Edmonton Ry.-The Judicial Committee of the Privy Council, London, Eng., has given judgment on the appeal of the Crown. The action was originally brought by the content of the crown of the by the company on petition of right to have it declared that the grants of land to which it was entitled should not contain a clause reterving all the minerals underneath the land to the Crown. The company did not dispute the crown. The company did not dispute the Crown. The company did not dispute the reservation of gold and silver, but con-tended it is entitled to all other minerals under its snot **the special** act and the order-in-council of July 7, 1890. The Exchequer Court decided in prema C the Crown, and on appeal to the Su-Preme Court the court was divided, the judgnent of the court below being therefore affirmed. The Privy Council, having heard courts in Courts with costs, and directed oburts, reversed the judgment. But in Canada, with costs, and directed that s in Canada, with costs, and control of the set of $f_{\text{ref}}^{\text{ref}}$ all future grants to the company one of the from any reservation of mines or minerals f_{ref} except gold or silver.

 A_{ta}^{Pt} gold or silver. A_{ta}^{Pt} meeting to be held Sept. 20 the sharebodiers will be asked to approve of the issue of bonds in order to pay for the construction of the Wetaskiwin and Lacombe branches.

Canada Atlantic Ry.-Current press re-Ports state that an arrangement has been commute that an arrangement has been ompleted for the transfer to the G.T.R. of the Canada Atlantic Ry. and the Canada Atlantic researching steamers the Canada Atlantic Ry. and the Canada Atlantic From Depot Co. operating steamers Lake not Harbor, Ont., to U.S. Upper Lake not Harbor, Ont., to U.S. Logan, Lake ports. One paper quotes R. S. Logan, Assistant to the 2nd Vice-President and Gen-ral Manual C. T. P. as stating that matters waistant to the 2nd Vice-President and Manager G.T.R., as stating that matters and sime so far as that only the preparation and signing of the necessary papers were all that was the sale. that was required to conclude the sale.

Cenada Eastern Ry.—An act was passed the recent session of the Dominion Parliahent authorizing the purchase from the Co. (Lfd.) Gibson Ry. and Manufacturing Co. (Ltd.) of the whole of the railway and the Canada Eastern wd (Ltd.) of the whole of the railway and Ry, free of all encumbrances, for the sum of Ry, free of all encumbrances, for the sum of Ramating the line with the Government rail-Ramating the line with the Government railthe A further provision is also contained when act authorizing the Government to take over and operate as part of the Intercolonial hilway avertual Enderiction and St. Mary's All way system the Fredericton and St. Mary's pridge Co.'s bridge and railway, that com-in having red default in the payment of pany having made default in the payment of it by the therest on the advances made to it by the covernment of the act puts in Government. This portion of the act puts in clauses of the act of the the foreclosure clauses of the act of the sector made and the bridge mortgaged to the Government. under which the advances were made

Canadian Northern Ry.—Gross earnings ^{tor} July \$303,900, against \$254,000 \$4,5 Net earnings for June, \$89,300 against \$4,900 for June, 1903, making for the year \$4,900 for June, 1900 July \$303,900, against \$254,800 for July, N. N. 8303,900, against \$254,800 for July,

Canadian Pacific Ry.—A special meeting has been called to be held after the annual heting called to be held after the annual the been called to be held after the amuse. the solution of shareholders to be held in Mon-the Nott, 5, for the purpose of sanctioning ordinary stock to the extent of \$25,500,000. Ordinary stock, to the extent of \$25,500,000. Caraguet Ry.—At the annual meeting held cently in Bathurst, N.B., the following were verify in Bathurst, N.B., the following weight of the current year; provide and directors for the current Brook Toronto; General Secretary, Bathurst, N.B., M.B., M.B., Jean, President, P. Ryan, Toronto; General directors, James Webster, Toronto; other Stewart, B. Burns, G. Gilbert, A. J H. Secretary, B. C. Mullins. Secretary, B. C. Mullins.

honinion Atlantic Ry.—Gross earnings July, \$125,200 against \$124,130 for July, 3, making for participation of the second se July, \$125,200 against \$124,130 for July, \$24,000 making for seven months ended July 31, 1903 against \$491,000 for same period

Fredericton and St. Mary's Bridge Co.-See Canada Eastern Ry.

Gulf Shore Ry .- At the annual meeting recently held at Bathurst, N.B., the following were elected directors for the current year : J. White, T. M. Burns, J. G. Johnston, Bathurst; P. Ryan, Jas. Webster, Toronto. The officers are: President, P. Ryan; General Manager, Jas. Webster; Secretary, B. C. Mullins.

Halifax Electric Tramway.-Railway receipts for July \$17,528.42 against \$15,942.37 for July, 1903; making for seven months ended July 31, \$86,621.53 against \$79,671.05 for same period, 1903.

Hamilton, Grimsby and Beamsville Ry. The city clerk of Hamilton claims that the city is now entitled to receive a first payment of \$362.49 on account of mileage under the company's franchise. The sum of \$300 a mile was agreed upon to be paid at the expiration This period the city clerk claims of 10 years. is now up.

Hamilton Street Ry .- The Hamilton city council has been paid \$5,699, being the proportion for mileage and percentage due by the H.S.Ry. on its earnings for the quarter ended June 30.

Intercolonial Ry.-At the current session of the Dominion Parliament the following amounts chargeable to collection of revenue have been passed on account of the Intercolonial Ry.:

Working Expenses. \$6,600,000 Rental to G.T.R. 140,000 Windsor Branch. 30,000

London St. Ry .- Gross earnings for July, \$19,230.45 against \$18,217.23 for July, 1903; making for eight months ended July 31, \$111,863.21 against \$108,816.62 for same period 1902-03.

Montreal Street Ry.-Gross earnings for July, \$226,559.18 against \$216,239.82 for July, 1903; operating expenses, \$131,276.13 against \$116,157.47; fixed charges, \$23,636.78 \$24,696,19; leaving a surplus of \$69,782.27against \$75,383.16 for July, 1903. Gross earnings for nine months to July 31, \$1,968,-208.96; operating expenses, \$1,281,212,52; fixed charges, \$201,007.78; surplus, \$506,-391.85, against a surplus of \$489,005.17 for same period 1902-03.

Montreal Terminal Ry .--- A meeting of the shareholders has been called for Sept. 21 for the purpose of authorizing the withdrawal and cancellation of the existing bond issue of the company; of authorizing the issue of bonds and debentures in respect of section one of the company's undertaking, and to execute a mortgage to secure the same.

Nelson and Fort Sheppard Ry .-- The annual meeting called to be held at Nelson, B.C., in July was postponed until Sept.

New Brunswick Ry. Co .- The officers and directors for the current year are: President, R. Meighan, Montreal; Vice-President, H.H. McLean, St. John, N.B.; other directors, Lord Strathcona, J. Hardisty, J. S. Kennedy, S. Thomas, D. W. James, F. P. Meighan and J. K. Tod, of New York; Secretary-Treasurer, A. Seeley, St. John; Land Agent, W. T. Whitfield. The reports presented at the annual meeting of shareholders, Aug. 4, were considered to be satisfactory, the net revenue from the company's land showing a considerable advance upon previous years. The company owns about 1,700,000 acres of land, mostly situated in Victoria and Madawaska counties. In 1872 these rights were acquired, when a charter for the building of the N.B.Ry. was secured. Eight years later, in 1880, the line was leased to the C.P.R., and since that time the duties of the company have been confined to the management of the lumber lands alone. These are leased and have now become very valuable, but no land has been sold.

New Brunswick and Prince Edward Island Ry .- Reports presented at the annual meeting held recently, showed the business of the year to have been satisfactory. H. M. Wood was elected a director in place of the late A. Ogden.

Northern Colonization Ry.-A meeting of shareholders will be held Sept. 20 for the purpose of approving of a lease of the company's line to the C.P.R., and to create and issue bonds.

Orford Mountain Ry .- A meeting of shareholders has been called for Sept. 20 to authorize the issue of bonds in connection with the proposed extensions of the line.

Qu'Appelle, Long Lake and Saskatchewan Ry.-Net earnings for June \$6,893.72 against a net loss of \$4,028.35 for June, 1903, showing for seven months ended June 30, a net loss of \$36,167.85 against net earnings of \$22,269.72 for same period 1902-03.

Quebec and Lake St. John Ry.-Gross earnings for June \$42,000 against \$33,100 for June, 1903; making for six months ended June 30, \$189,000 against \$177,000 for same period 1903.

Quebec Central Ry .-- Gross receipts for July \$84,455 against \$74,928 for July, 1903.

Quebec Southern Ry,-Tenders were opened Aug. 3 by the Exchequer Court at Ottawa for the purchase of the Q.S.Ry., as a whole, or for the several lines which had been amalgamated with that title. The following were received.

East Richelieu Valley Ry.: \$125,000 offer-ed on behalf of the E.R.V.Ry. Co.

United Counties Ry.: \$100,000 offered by Hanson Bros., Montreal, or \$75,000 for that portion of the line from St. Hyacinthe to Sorel.

East Richelieu Valley and United Counties Ry.: \$500,000 offered, it is understood, on be-half of the Bank of St. Hyacinthe. The tenders came before the court for consideration on a subsequent date, but no action was taken, the amounts bid being stated to be inade-quate. It is understood that there is a probability of a private sale of the whole concern being effected.

The report of the Receiver on the operations of the line for three months ended June 30, shows receipts of \$56,001.65 against \$43,921.-46 for same period 1903, the operating expenses being \$40,500.18 against \$42,517.77 in 1903.

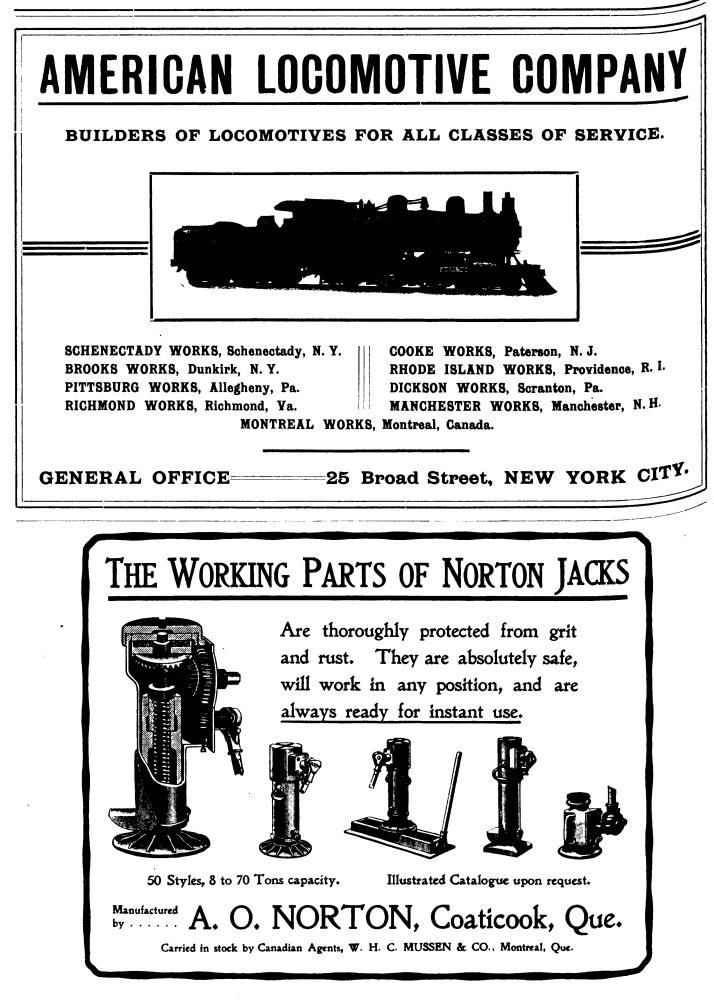
Temiskaming and Northern Ontario Ry. During his visit to England Hon. R. Harcourt, formerly Treasurer of Ontario, will endeavor to negotiate the sale of bonds to the extent of about \$6,000,000 for the T. and N.O. Ry. The construction of the line is at present being financed by the banks and by advances from the Ontario treasury, which may lend up to \$2,000,000 for this purpose.

Temiscouata Ry.-Gross earnings for July \$13,765.47, making for seven months ended July 31, \$77,297.17.

Tillsonburg, Lake Erie and Pacific Ry.-Shareholders of this company have been called to meet at Tillsonburg, Ont., Sept. 20, for the purpose of ratifying a lease of the com-pany's line, etc., to the C.P.R. The T., L.E. and P.Ry. extends from Port Burwell to Ingersoll, Ont., 35 miles, and it has power to extend its line to Collingwood, either via Berlin or Stratford. John Charlton, M.P., is President.

Toronto, Hamilton and Buffalo Ry .--Gross earnings for July \$55,264, against \$48,354.54 for July, 1903; making for two months \$111,614.24 against \$95,902.47 for same period 1903.

Toronto Ry,-Gross earnings for July, \$211,355.72, against \$192,629.06 for July, 1903; making for seven months ended July 31, \$1,332,845.87 against \$1,174,638.41 for same period 1903.



In the case of the appeal of the Toronto Ry. Co. against the decision of the Su-Preme Court, Ottawa, that its cars are to be assessed as real estate, to the Judicial Committee of the Privy Council, London, Eng., has been decided in favor of the company, costs to be paid by the Toronto City Council.

White Pass and Yukon Ry .-- Gross earnings for year ended June 30, \$1,713,000. Gross earnings for July, \$223,144.

Winnipeg Electric Street Ry .- A special Reneral meeting of the shareholders of the W.E.S.Ry. was held for the purpose of con-side. sidering a proposal to amalgamate with the Winnipeg General Power Co. It is understood that the amalgamation was approved, and that arrangements to carry out the absorption are in progress. The Winnipeg General Power Co. was organized under an act passed by the Manitoba Legislature in 1902, This act incorporated W. Mackenzie, P. D. Mann, F. W. Thompson, W. A. Black, P. C. Mann, F. W. Thompson, W. A. Black, P. S. Pearson, under the title of the Winni-peg General Power Co., with a capital of the two oo to develop power at some point on the two oo to develop power at some point on the Winnipeg River or elsewhere in Manitoba, and Monitoba: also and to deliver the same in Manitoba; also among other powers, to construct an electric boundary to West Selkirk, or from the Winnipeg River, ria way from a point on the Winnipeg city boundary to West Selkirk, or from the Win-nipeg city boundary to the Winnipeg River, via Suit boundary to the Winnipeg River, Selkirk or otherwise; or between intermediate points, and with the approval of the bieut, - Governor-in - Council, to construct branch lines or other lines, subject to the consent of the municipalities interested. a_{ct} of the municipalities interested. The shall contains a clause that the W.G.P. Co. The shall not construct or operate an electric rail-Way between Winnipeg and Selkirk during The currency of the charter of the Selkirk Electric Ry. Co., or of the Winnipeg, Selkirk and Lake Winnipeg Ry. Co.

Dominion Railway Subsidies.

At the recent session of the Dominion Parat the recent session of the Dominion and ament an act was passed voting subsidies at the rate of \$3,200 a mile towards the con-struction of the following railways, provided 000 a mile, and a further sum of \$3,200 a mile, of rest of the of 50% on so much of the average cost of the mileage subsidized in excess of \$15,000 a mile, such subsidy not exceeding on the whole \$6,400 a mile.

ALBERTA.

Western Alberta By.-For a line from a Point on the International boundary west of range 27, northwesterly towards Anthracite, Alta, in lieu of a subsidy granted in 1899, not exceeding 50 miles.

BRITISH COLUMBIA.

Lardo to Upper Arrow Lake.—For a line from Lardo towards Upper Arrow Lake, B.C., in lieu of a subsidy granted in 1901.

ONTARIO.

Bracebridge and Trading Lake By.-For a line from Bracebridge to Baysville, Ont., in ieu of a subsidy granted in 1900, not exceeding to miles.

Bruce Mines and Algoma By.--For that Portion of its line from Bruce Mines Junction, southerly to the town of Bruce Mines, On, southerly to the town of Bruce Mines, On, southerly to the town of Bruce Mines, Ont, and the shore of Lake Huron, not exceeding three miles. For the six miles station, northward to Rock Lake, not ex-ceeding size For a line northerly ceeding six miles. For a line northerly from Rock Lake not exceeding 12 miles. These subsidies are granted in lieu of the trans trant towards the construction of 21 miles made in 1903.

Nepigon Ry.-For a line from Nepigon tation on the C.P.R. transcontinental line, to N. on the C.P.R. transcontinental line, to Nepigon Lake not exceeding 30 miles. Por a line from a point on Nepigon Bay of Lake Superior to a point west of Lake Helen, on the above the superior to a point west of Superior to a point west of Superior to a point west of Superior Superior to a s the above line, not exceeding 31/2 miles. For a line from a point on the first mentioned

line near the crossing of Fraser River to a point on Lake Jess, by way of Cameron's Falls, not exceeding 1½ miles. From a point on the north shore of Lake Nepigon northerly, not exceeding 45 miles, These subsidies are in lieu of the grant for 80 miles voted in 1903.

OUEBEC

Canadian Pacific Ry .-- For a branch line from St. Phillippe de Argenteuil station, on the C.P.R. main line, or a point between there and Grenville, Que., northerly three miles. This is in I eu of a subsidy voted in 1903.

Chatcauguay and Northern Ry.-For a line from a point in Hochelaga Ward, Montreal, to near Joliette, Que., passing through L'Assomption, and a spur line in L'Assomption, not exceeding 42 miles, in lieu of the subsidy voted in 1900. For a branch of the subsidy voted in 1900. For a branch line from the main line near Charlemagne to a junction with the Montford and Gatineau Ry. at Morin Flats, not exceeding 22 miles. This first mentioned line is already completed; and the second subsidy voted is in lieu of one granted in 1903 to the Montford and Gatineau Ry.

Great Northern Ry. of Canada.-For a line from Arundel, the present terminus of the Montford and Gatineau Ry., to a point in the united townships of Preston and Hartwell, not exceeding 30 miles. This is in lieu of the subsidy granted in 1903 to the Montford and Gatineau Rv.

Ottawa River Ry .- For a line from St. Agathe des Monts station towards the township of Howard, Que., passing near Lakes St. Joseph and Ste. Marie in a southerly direction, not exceeding 15 miles, in lieu of a subsidy granted in 1903 to the Montreal Northern Ry. For a line from near St. Andrew's passing through the parishes of St. Placide, St. Eustache and St. Martin, not exceeding 38 miles, in lieu of a subsidy voted in 1903.

The Act also provides that the Governorin-Council may grant the balance of a subsidy not exceeding \$51,000 to the Chateauguay and Northern Ry. towards the construction of a single track railway bridge with two 10 ft. roadways for vehicular traffic, from Bout de L'Ile to Charlemagne, at the junction of the Ottawa and St. Lawrence Rivers.

The act provides for the payment of the subsidies upon completion of the work, or by instalments on the completion of 10 mile sections, or upon progressestimates on the certificate of the Chief Engineer of the Department of Railways; and that the works shall be commenced before Aug. 1, 1906, and completed by Aug. 1, 1908; steel rails made in Canada to be used if procurable at as reasonable rates as rails can be purchased elsewhere. It is also provided that the Board of Railway Commissioners may make orders granting running powers over the several subsidized lines to other companies.

Union Station at Winnipeg.-At a session of the Board of Railway Commissioners for Canada held at Winnipeg, Aug. 9, the Chief Commissioner referred to the desirability of erecting a union station in that city. He considered it the duty of the railway companies to get together at once and arrive at terms of mutual agreement for the erection of a union station. The Board was not without considerable power in the matter, and the difficulties would have to be very serious, in fact insuperable, in order to prevent the Board from compelling the companies to agree on a union station. It was thought right to bring the matter publicly to the attention of the companies before matters had progressed too far to make an arrangement of that kind. It was now perfectly convenient and comparatively easy to have steps taken to that end. There were but two railways in the city at present, but there would undoubtedly be others in the near future, and they should have the same opportunity of entry into the city.

September Birthdays.

Many happy returns of the day to-

W. D. Barclay, ex-Manager, Alberta Ry. & Coal Co. and Great Falls and Canada Ry., now a contractor at St. Paul, Minn., born at Campbellton, N.B., Sept. 23, 1852. G. T. Bell, General Passenger and Ticket

Agent, G.T.R. at Montreal, born there Sept.

7, 1861. W. H. Biggar, K.C., Assistant General Counsel G.T.R. at Montreal, born at the Carrying Place near Trenton, Ont., Sept. 19, 1852.

E.R. Bremner, Assistant General Freight Agent, Canada Atlantic Ry., Ottawa, born in Toronto, Sept. 9, 1875.

M. H. Brown, General Freight Agent, C.P.R., at Toronto, born at Victoria Square, Ont., Sept. 2, 1866.

F. R. F. Brown, ex-Mechanical Superintendent, Intercolonial Ry., now at Montreal, born at Helensburgh, Dumbartonshire, Scotland, Sept. 29, 1845. W. G. Brownlee, Superintendent, G.T.R.,

Western Division, at Detroit, Mich., born at Lawrenceville, Ill., Sept. 9. 1858.

J. R. Bruce, Traffic Auditor, Intercolonial Ry., at Moncton, N.B., born at Portsoy,

Banffshire, Scotland, Sept. 23, 1848. W. B. Bulling, Assistant Freight Traffic Manager, Eastern Lines C.P.R. at Toronto, born in Montreal, Sept. 16, 1858. R. L. Burnap, Commercial Agent, Central

Vermont Ry., and Agent National Despatch Fast Freight Line at New York, N.Y., born

Sept. 20, 1872. A. D. Cartwright, Secretary Board of Railway Commissioners, Ottawa, born at King-

ston, Ont., Sept. 20, 1864. G. B. Colpas, Auditor, New York & Ot-tawa Rd., and Ottawa & New York Ry. at Ottawa, Ont., born Sept. 28, 1858. W. F. Egg, City Passenger Agent, C.P.R.,

at Montreal, born at Plymouth, Eng., Sept.

7, 1859. A. W. Ecclestone, Southern Passenger Bringt New York, Agent, Central Vermont Ry., at New York, born at Hamilton, Ont., Sept. 25, 1858. Hon. H. R. Emmerson, M.P., Minister of

Railways and Canals, Ottawa, born at Mau-F. A. Folger, Jr., General Superintendent,

Kingston & Pembroke Ry., at Kingston, Ont., born Sept. 17, 1865. C. B. Foster, District Passenger Agent,

C.P.R., at St. John, N.B., born at Kingston, N.B., Sept. 30, 1874. L. A. Hamilton, ex-Land Commissioner,

C.P.R., born at Penetanguishene, Ont., Sept. 30, 1852.

L. B. Howland, President and General Manager, Irondale, Bancroft & Ottawa Ry,, at Irondale, Ont., born at Lambton Mills, Ont., Sept. 2, 1869

G. R. Huntingdon, General Superintendent, Minneapolis, St. Paul & Sault Ste. Marie Ry.,

at Minneapolis, Minn., born Sept., 1867. J. Hone, Jr., City Passenger and Freight Agent, C.P.R., Quebec, born in Montreal, Sept. 8, 1873. W. H. Kelson, General Storekeeper,

C.P.R., born at Bath, Eng., Sept. 5, 1850. S. B. Kramer, Master of Transportation,

G.T.R., Montreal, born in Maryland, Sept.,

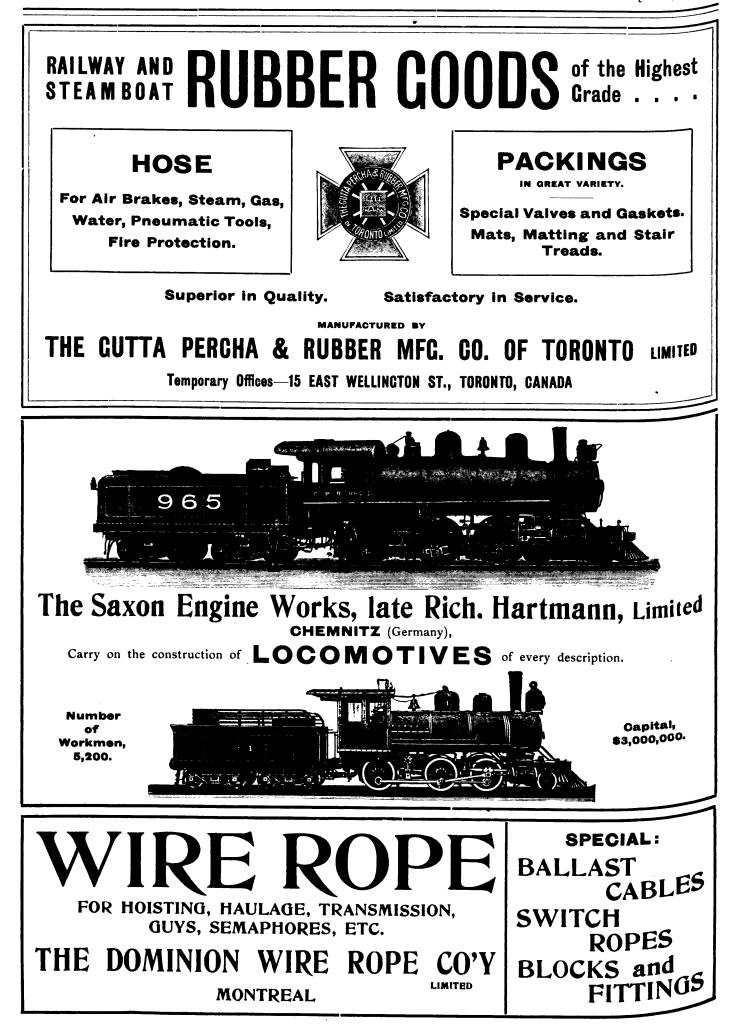
25, 1865. R. E. Larmour, Freight Claims Agent, Pacific Division, C.P.R., at Vancouver, B.C., born at Brantford, Ont., Sept. 26, 1868.

H. D. Lumsden, C.E., Chief Engineer National Trans-Continental Ry., Ottawa, ment, C.P.R., born at Belhaire, Scotland,

ment, C.F.K., John at Leannie, Sept. 7, 1844. J. McNaught, First Vice-President, Great Northern Ry. of Canada, New York, born at Lexington, Ill., Sept. 9, 1842. G. S. MacKinnon, ex-Division Master Mechanic, C.P.R., at Winnipeg, Man., born

at Melbourne, Que., Sept. 16, 1854. H. L. Maltby, Secretary and Treasurer, Ottawa, Northern and Western Ry., born at Derby, Eng., Sept. 8, 1852.

[SEPT., 1904.



G. A. Mountain, Engineer, Board of Rail-A. Mountain, Engineer, Board of Nam by Commissioners for Canada, Ottawa, Ont., t. D. Vebec, Sept. 28, 1860. A. Verman, Provide New London, Conn.,

Thermont Ry., at New London, Comparing at Shelburne Falls, Mass., Sept. 24, 1852. J. OL J. oborne, General Superintendent, East-bivision, C.P.R., at Montreal, born there

R. D. Parker, Assistant General Freight R. D. Parker, Assistant General Freight St. Paul & Sault Ste. Arent, D. Parker, Assistant General Freigue Marie Minneapolis, St. Paul & Sault Ste. Wile Ry., at St. Paul, Minn., born at Gran-

wile, Chy, at St. Paul, Minnun, -Wile, Chy, Sept. 20, 1839. Power, G. Robb, Superintendent of Motive will, Oue Sept. 21, 1857. Con Accountant,

Wer, G.T.R., at Montreau, Weil, Que, Sept. 21, 1857. G.T.R., Rosevear, General Car Accountant, Conversion at Wadebridge, Conversion Environment, 26, 1837. C.P.R., at

V. F.R., at Montreal, born a. Conwall, Eng., Sept. 26, 1837. F. M. Spaidal, Superintendent, C.P.R., at Montraal Gananoque, Ont., Nov. 13, Nontreal, born at Gananoque, Ont., Nov. 13,

Newford to a strain of the str

D. Sutherland, General Freight Agent, Newfoundland Ry., at St. John's, Nfld, born Viagara Falls, Ont., Sept. 21, 1873. Division, G.T.R., at Allandale, Ont., born at Wilton Ont. Sept. 1844. Hamilton, G.T.R., at Allandare, -Hamilton, Ont., Sept., 1844. W. Whyte, 2nd Vice-President, C.P.R. at Haniner Mon born at Charleston, Scot-

W. Whyte, 2nd Vice-President, C.I. N. a. Ind, Sept. 15, 1843.

Board of Railway Commissioners.

the following orders have been issued by Board of Railway Commissioners for Canada:

Approving of the crossing of the G.T.R. by the Preston and Berlin Ry. in Berlin, Ont., the cost of the latter Co., which has to be objected by the board to pay for so G.T.R. by the cost of the latter Co., which has to be objected by the board to pay for so G.T.R. by the crossing, before the installation of the the crossing plant, on placing a watchman at Ansaing. (lune 22.) Annue (June 22.)

Approving of a bridge under the G.T.R. in this of a bridge under the Presterin, Ont. to be constructed by the Presand Berlin Ry., under the supervision of G.T.R. engineer. In the event of its becomthe necessary to double track the G.T.R., Board expressed an opinion that the cost such expressed an opinion that the P. uch widening should be borne by the P.

Approving of the Toronto and Mimico Grassing on the level; a siding of the Works, and providing for the safety of cars **Wing the same**. (June 25.) **Respective the use of a s**

Respecting the use of a swing bridge over inving the C.P.R. tracks, and of a swing the G.T.R. tracks. (July 5.)

Approved the same canal at the G.T.R. tracks. (July 5.)

Approving plans of a subway carrying the the shore road near Port Hope, Ont., under Approving plans of a subway carrying Approving plans of the roads

Approving plans and profiles of the roads streets crossed by the Lindsay, Bobcay-Uhy 13.) Approving plans and profiles of the roads the streets crossed by the Lindsay, Bobcay-Uhy 13.) Approving plans and profiles of the roads the streets crossed by the Lindsay, Ont. Approving plans and profiles of the roads the streets crossed by the Lindsay, Bobcay-Uhy 13.)

Approving of the construction of a spur line by the G.T.R. across Ferguson Ave., Hamil-Approving of the proposed crossing of the

Approving of the proposed crossing of the deproving of the proposed crossing of the line of the Quebec Bridge and Ry. Co. The the Quebec Bridge and Ry. Co. The the And Ry. Co., and its use is restricted the running of the contractor's construc-Orders, (July 22.)

Or trains, (July 23.) Potering the Hull Electric Co. to further worth of the Central railway station, Ottawa, Approving of a change in position of the Canadrone governing the crossing of the Canadrone governing the crossing of the

Chaphore of a change in position of the anada Atlantic Ry. by the Ottawa Electric on Broad St. (July 26.)

Approving of the proposed diversion from the previously located line of the Toronto and Niagara Power Co., in the township of Etobicoke, Ont. (July 29.)

Approving of the location of the line of the Vancouver, Victoria and Eastern Ry. and Navigation Co. from the Fraser River Bridge to a junction with the line of the Victoria Terminal Ry. from Cloverdale, B.C.; and to the International boundary at Huntingdon. (Aug. 4.) -

Railway Operating Rules.

A circular letter has been issued by the Board of Railway Commissioners for Canada to the various railway companies inviting cooperation in drawing up a uniform code of rules for the operation of trains. The circu-lar follows: "A number of accidents are occurring upon our railways from time to time, and the opinion exists that, to some extent these are due to the want of uniformity in the rules governing the operation of the various lines. It has occurred to the Board that, whether this be the fact or not, it would be of advantage in many respects if a uniform system of standard rules were adopted and in force in Canada, and the Board has thought it well to request the railway companies operating throughout the Dominion of Canada to select representatives, who might meet together at a time and place to be settled between them for the consideration of this subject, and if possible for the formulating of a set of rules to be submitted to the Board for its approval and sanction. The Board invites the attention of all railway companies operating in Canada to the importance of this subject, and would suggest that some date, not later than Oct. 1 next, be chosen at which the initial steps might be taken to attain the object the Board has had in view in this communication.

Recent Dominion Legislation

In addition to the acts relating to transportation interests passed at the last session of the Dominion Parliament, lists of which appear in our July and Aug. issues, the following received the royal assent Aug. 10:

Authorizing the Government of Canada to purchase the Canada Eastern Ry., and to take possession of the Fredericton and St. Mary's railway bridge.

Respecting the Edmonton Street Ry. Co.

Respecting the arbitration between His Majesty and the G.T. Ry. Co.

Respecting the Montreal Terminal Ry. Co. Amending the Railway Act, 1903 (two acts.)

Respecting the payment of certain railway subsidies.

Amending the act of 1903 respecting the bounties on steel and iron.

Authorizing the granting of subsidies in aid of the construction of certain lines of railway. Amending an act passed earlier in the ses-sion respecting the Temiscouata Ry, Co.

Amending an act passed earlier in the ses-

sion incorporating the Thorold and Lake Erie Ry. Co. Respecting the Temagami Ry. Co.

Respecting the West Canadian Colleries (Ltd.)

At the last session of the Dominion Parliament an act was passed arranging for the settlement by arbitration of differences be-tween the G.T.R. and the Intercolonial Ry., arising out of the distribution of seaboard freight by the G.T.R. at Montreal, and the use of its terminals there by the I.C.R. The arbitrators are Justice Killam, Ottawa; Justice Davidson, Montreal, and G. F. Shepley, K.C., Toronto. The sittings of the arbitrators are being held at Montreal and will be private.

RAILWAY DEVELOPMENT.

Projected Lines, Surveys, Construction, Betterments. Etc.

Algoma Central and Hudson Bay Ry.---Traffic has been re-opened on this line from Sault Ste. Marie to Trout Lake, Ont., about 75 miles, close up to the Montreal River, at which point a steel bridge will have to be erected. (June, pg. 181.)

Atlantic, Quebec and Western Ry .--- We were recently advised that it was the intention of the company to have from 10 to 20 miles of its line constructed by June, 1905, from Gaspe Basin towards Paspebiac, Que., in addition to a section of the interior route from Gaspe Basin to Causapscal, on the I.C.R. H. O'Sullivan, Lorette, Que., is the engineer in charge. (July, pg. 230.)

Berlin, Waterloo, Wellesley and Lake Huron Ry .- Negotiations have been in progress with the C.P.R. with a view of that Company taking over the charter and franchises. (Aug., pg. 275.)

Bracebridge and Trading Lake Ry.-At the last session of the Dominion Parliament a subsidy of \$3,200 a mile, with a provision for an increase up to \$6,400 a mile was voted towards the construction of a line from Bracebridge to Baysville, Ont. A subsidy was voted for the construction of this line in 1900, and a survey was made in 1901 by A. Brunel, C.E., Toronto, but no construction has been done. (Jan., 1902, pg. 1.)

Bruce Mines and Algoma Ry .- The Dominion Parliament at its last session voted a subsidy of \$3,200 a mile, with a provision for an increase to \$6,400 a mile for the following sections of line already constructed and in operation: for three miles southerly from Bruce Mines Junction to the town of Bruce Mines, Ont., and the shore of Lake Huron; for six miles from Gordon Lake station northerly to Rock Lake. A subsidy of a like amount was also voted for the construction of 12 miles northerly from the present terminus at Rock Lake. This is in lieu of a subsidy for 21 miles voted in 1903.

The line from the station in Bruce Mines town to Jack's Island on Lake Huron is 5,000 ft. in length. Between the main shore and Jack's Island there is about 1,800 ft. of trestle, which affords excellent facilities for bringing in saw logs, round and other timber and unloading same into the bay, where rafts can be formed or barges loaded to be towed to destination. At the south-easterly end of Jack's Island a dock has been constructed alongside the railway terminal. The depth of water alongside the dock is 18½ ft.; the dock itself is 50 ft. wide and 700 ft. long, in-cluding approach. The northerly extension of the line, we are advised, is projected to Woman River, on the C.P.R. transcontinental line, and will open up a large tract of timber, agricultural and mineral lands. (Aug., pg. 275.)

Cape Breton Coal, Iron and Ry. Co.-English capital has been interested in this company and the directorate has been reorganized, the present officers and directors being : President, H. Mayhew, of London, Eng.; Vice-President, T. Lancaster, of Sydney, N.S.; Treasurer, G. M. W. Hanson, Montreal; Secretary, E. W. Mosely, Sydney; other directors: C. H. Hanson, — Gladstone, - Thompson, of London, Eng.; N. Fergu-son, - Crowe, of Sydney, N.S. Nothing has yet been decided in reference to the surveys or construction of the projected railway from Sydney to Louisburg.

Caraquet and Gulf Shore Rys .-- We are advised that the interests now in control of these lines find that a large expenditure is desirable on the improvement of the lines, and that arrangements for securing it are being made. The improvements intended include



the general repair of the roadbed, buildings, and the repair and renewal of the rolling tock. **taken** . The specific works which which the specific works which which and the specific works which which are a specific works which we specific work The specific works which will be

Onateauguay and Northern Ry.—The Dominion Parliament at its last session voted **ubjidion** Parliament at its last session **ubjidies** at the rate of \$3,200 a mile, with **Proving** provision for an increase to \$6,400 a mile, unda. under Certain conditions, for the following **los:** from Hochelaga Ward, Montreal to loliette, Que., passing through L'Assomption, not exand for a spur line in L'Assomption, not ex c_{eding} 42 miles in all. This is a variation of the t_{eding} 42 miles in all. in favore of the subsidy voted in 1900, and is in favor of the subsidy voted in 1900, and openat of a line which was completed and openat of a line which was completed is opened in 1903. The Governor-in-Council is also authorized under the terms of the act toting the sector of a secto voing the subsidies to grant the balance of a bubid y not exceeding \$51,000 for the railway bid on the subsidies to grant the balance of a bridge not exceeding \$51,000 for the railway Charles over the river from Bout de L'Ile to Charlemagne, built in connection with the anount time line. A subsidy of similar mount to the first was also voted for the sonstruction of a line from Charlemagne to a interior of a line from Charlemagne to a sonstruction of a line from Charlemagne to a solution of a line from the solution of the Naction of a line from Charlemagne Colon: with the Montford and Gatineau Colonization Ry. at Morin Flats, not exceed-¹⁹⁰Nization Ry. at Morin Flats, not exceed-18 22 miles. A subsidy for this line was voted 1903 in favor of the Montford and Gatineau Ny, which which is now part of the Great Northern Ry, which is now part of the Great Northern nder 1, pp. 419.)

hder lease. (Dec., 1902, pg. 419.) Remonton Street Ry. (Electric).--An Act vas passed at the recent session of the Do-binion Parliament amending the act of incor-oration **Pration** Parliament amending the act of the sector and the sector extension of time for the commencement and **Genomena Sector Sector**

Prater River Bridge.—The rental to be **aid heat River Bridge.**—The rental to the by the Great Northern Ry., U.S., for the by the Great Northern Ry., U.S., for the big We of the bridge over the Fraser River at We Washington a year. Westminster, B.C., is \$20,000 a year. (Aug., pg., 222.)

Grand Valley Ry. (Electric).—A contract been let for the erection of a power to about two miles outside of Paris, Ont. the section of the line to Galt. The build-**The section of the line to Can. By will be 71 by 47 ft.** (June, pg. 185.) **Canada.**—A

Great Northern Ry. of Canada.—At the session of the Dominion Parliament a baidy of \$3,200 a mile, with provision for thincreases 3,200 a mile, was voted for the increase to \$6,400 a mile, was voted for the concession of \$6,400 a mile, was voted for the concession of the provision of the second seco construction of a line, not exceeding 30 to a point of the Montford and Gatineau Ry., to a point of the Montford and Gaumean and and Hartwell, Que. A subsidy for a similar by that voted to the M. and G. Ry., in 1903, but that come to the M. and G. Ry., in 1903, that company has since been taken over by the G.N.Ry. of Canada.

Quein. Ky. of Canada. et al. and Golerich Ry.--Contracts have the for the construction of this line in here is awarded to S. B. Campbell, of S have have thathroy, and sections 2, 3, 7 and 8 have been awarded to M. A. Pigott. The first Ction is the distribution of the first ten awarded to M. A. Pigott. The mass Gueph. The romiles immediately outside of thamph. The contracts call for an immediate that, and the expectation is to have the line the contracts con-completed by Oct., 1905. Work has been thatted at both ends of the line, the con-tay at both ends of the line, the con-tay at both ends of the line, the con-tay at both ends of the end of Aug. to be a large constituted materials and a numby a large quantity of materials and a num-by of marge quantity of materials and a numof "ge quantity of materials and a second of men and horses on the route. The **is show** that a large area will be required be stations for terminals, and that there will Contaction for terminals and that there will Contactions for terminals and that there are the between East stations on the dividing line between East Colorne on the dividing line between Law Bytherne and West Colborne; at Auburn, ton, Walton, Moncrieff, Monkton, Milver-aca, Millhant, The ground ton, Malton, Moncrieff, Monkton, Muver-equired cark and Brunner. The ground acquired for a number of these stations is the work. (Aug., pg. 277.) Guit Shore By.—See Caraquet and Gulf shore Rys.

Halifax and South-Western Ry.--Tracklaying was expected to reach Halifax at the end of Aug., and ballasting was expected to have so far progressed that it was hoped to have a partial train service in operation by the end of Sept. R. McColl, Provincial En-gineer, and E. V. Johnston, Assistant Inspecting Engineer, Department of Railways, Ottawa, went over the line Aug. 13 from Bridgewater to Chester, to which point it had been completed. Track had been laid to Hubley's, some distance beyond Chester and 13 miles from Halifax. The inspection was made with the object of giving permission for the operation of the section between Mahone Bay and Chester. We were recently advised that track had been laid on the main line for 39.37 miles. The masonry on the Halifax section and the abutments on the piers on the La Have and Petite Rivers are completed and work has been commenced at the Medway River. The Dominion Bridge Co. has com-pleted the erection of the girder bridges at Bark House Brook, Chester Road Crossing, Barry's Brook (two crossings), East River and Little East River, and it is now assembling the steel work for the crossing of the La Have River at Bridgewater. Station La Have River at Bridgewater. Station buildings are being constructed at Martin's River, Chester Basin and Chester, and it was expected that the telegraph line would be completed between Bridgewater and Chester during July. During July an average of 1,461 men and 204 horses were employed on the work. (July, pg. 231.)

Hamilton Radial Ry. (Electric). -- The Saltfleet township council has given permis-sion to the H.R. Ry. to lay a second track from Ghent's Crossing to the canal reserve. A number of the Beach residents have signed a petition protesting against this decision. (Aug., pg. 277.)

Intercolonial Ry .- The following additional sums were voted at the recent session of the Dominion Parliament for works on the L.C.R.:

Balance for spur line from Riviere Ouelle to	
St. Lawrence.	
Extending siding, St. Andre.	1,000 00
r reight nouses at Eight Ro. L Ansi a Glies	
Trois Saumons	1,500 00
Water supply at St. Charles Jet	4.750 00
Siding at Campbellton	1,200 00
Platform extension at Sussex	950 00
Water supply at Springhill	2,800 00
Siding at Pictou Landing.	14,500.00
Portable plant for boring and cutting rails	14,000 00
Extension to Sydney Mines.	25.000 00
Increased accommodation at Amherst	16,000.00
Diversion of line, St. Leonard Junction	20,500-00
Diversion of line, Mitchell	25,100 00
Reduce curve, Birch Cove	84,500 00
Double-tracking parts of the line	150,000 00
Steel rails and fastenings	495,000 00
Increased accommodation along line	68,500 00
Increased accommodation at Truro.	100,000 00
Increased accommodation at Moncton	170,000 00
Increased accommodation at Halifax	250,000 00
Improvements at Drummondville.	16,000 00
Improvements at Riviere Ouelle	5,000 00
Station at St. Moise	3,500 00
To eliminate ro d crossings near Dorches-	3,300 00
ter, N.B.	4,000 00
ter, N.B. Increased accommodation, Amgui	5,500 00
Increased accommodation, Antigonish.	14,000 00
Improving ferry service at Strait of Canso,	23,400 00
Siding at St. Romuald	1,500 00
Diversion of public road between St. Cyrille	1,300 00
and Drummondville.	1,000 00
Improvements at Sackville	7,000 00
Increased accommodation at Memramcook,	5,000 00
Increased accommodation at New Glasgow,	- 30,000 00
To increase water supply	
Improvements at Enfield	3.500.00
Additional sidings and spur lines	1.500 00
	23,700 00
(Aug., pg. 277.)	
Tenders have under consideration	for the

Tenders are under consideration for the following works : station at Maccan, N.S.; quay wall, Halifax, N.S.; freight shed, Halifax, N.S ; cribwork at Grand Narrows, N.S.; and station at Sydney, N.S.

A branch line is under construction from a point three miles east of Trois Pistoles station to the Trois Pistoles Lumber Co.'s mills, about two miles. The branch is graded by the T.P.L. Co., the rails, ballast, etc., will be supplied by the I.C.R., which will also operate the line. The lumber company guarantee to deliver 1,000 carloads of freight a year over the branch.

Imperial Coal and Coke Co. We were advised Aug. 26 that the directors of the Imperial Coal and Coke Co. had not then decided as to what transportation arrangements are going to be made. That there will be a branch line built into the company's mines in British Columbia goes without saying, we are informed, but just from what point it will start has not yet been determined. An engineer is at present on the ground looking into the matter, and as soon as his report has been handed to the directors the matter will be taken up with a view of getting something definite arranged. The company's coal mines are situated near Michel, B.C., and press reports recently stated that an arrangement had been concluded with the C.P.R. by which that company would construct a branch from the Crow's Nest Pass line at Michel to the mines, 28 miles distant. The Imperial Coal and Coke Co., head offices Montreal, is an altogether distinct corporation from the Imperial 'oal Co. (Ltd.) with offices at Moncton, N.B., which owns and operates the Beersville Ry. (Aug pg. 275.)

James Bay Ry .-- The final location plans of the James Bay Ry. from Toronto to Richmond Hill, Ont., have been filed. The distance by the projected line is about 20 miles, against 16 by Yonge St. The line will run along the Esplanade to the Don and then alongside the old belt line until it crosses the Don near the Don Valley Brick Works, where it will pass under the C.P.R. tracks, and follows the Don Valley, crossing the river seven or eight miles in York township. The line leaves the level of the Don river near C.P.R. Viaduct No. 4, and reaches the Don Mills road near the library. A very easy grade has been secured, the route surveyed to this point being about eight miles, to get to the height which the C.P.R. line makes in three miles. From Don Mills road the line gradually works towards Yonge St., but does not touch it, passing at the back of Richmond Hill. There is a strong feeling in Richmond Hill in favor of getting the line into the vil-lage, and a proposal has been made to secure a diversion from the present located line. A start has been made on the grade at the Parry Sound end, and arrangements are in progress for an early start at construction. (Aug., pg. 277.)

Kettle Valley Ry. A survey is in progress from Grand Falls, B.C., along the north fork of the Kettle River, for about 50 miles, to Franklin mining camp. The work is in charge of — Davis, A preliminary survey showed that there were no great engineering obstacles in the way and that a grade of less than 1% could be secured. An early start will be made with the grading operations. (Aug. pg. 277.)

Kootenay Central Ry .- A location survey under W. Irving is in progress, working from Golden, B.C., on the projected line which is to connect Golden and Windermere. (July, pg. 233.)

Lardo to Upper Arrow Lake.-The Dominion Parliament at its last session voted a subsidy of \$3,200 a mile, with provisions for an increase to \$6,400 a mile, towards the construction of a line from Lardo, towards Upper Arrow Lake, B.C., not exceeding 30 miles.

Levis County Ry. (Electric) .- A power plant is being installed at Levis, Que., by this company to operate its cars. Heretofore the company has purchased its power from the Canadian Electric Co. (Mar., pg. 78.)

London Street Ry. (Electric) .- The car barns of the company were damaged to the extent of \$25,000 by fire Aug. 9.

[SEPT., 1904



Rails for several extensions have been purchased in New York, and it is expected that the work of laying them will be completed this season. (June. pg. 187.)

London and Port Stanley Ry.-The St. Marys, Ont., Town Council has asked the London City Council to consider the desirability of extending the L. and P.S. Ry, from London to St. Marys, and asking for the appointment of a committee to meet one ap-Pointed by the St. Marys council to discuss the matter.

Nepigon Ry.-Subsidies at the rate of 3,200 a mile, with a provision for an increase to not exceeding \$6,400 a mile, for the following sections of this projected line, were voted at the last session of the Dominion Parliament; from Nepigon station on the C.P.R. lo Nepigon Lake, not exceeding 30 miles; for 3½ miles from the shore of Lake Superior to Lake Helen on the first mentioned line; for $1\frac{1}{2}$ miles from the first mentioned line at $\frac{1}{2}$ miles from the first mentioned line at Fraser River to Lake Jess; for 45 miles Northerly from the north shore of Lake Nepi-Son. In 1903 a subsidy for 80 miles, 40 miles south, and 40 miles north of Lake Nepigon, Was voted and this year's vote varies the subsidy by specifying for the construction of particular lines south of the lake. (July, pg. 233.)

Ontario Electric Ry. - A prospectus has been issued by the O E. Ry. Co., from its offices, Ontario Chambers, Clarence St., Kingston, Ont., which describes the under-taking. taking as a railway to be constructed between the cities of Toronto and Kingston for the transportation of passengers, freight, mail sir because the provisional directors are: Sir R. J. Cartwright, G.C.M.G., M.P., Minister of Trade and Commerce ; R. J. Carson, J. Carson, C. Bermingham, Kingston, Ont.; A. L. Jewell, G. E. Smith, Boston, Mass., and H. N. Smith, Salem, Mass. The company is authorized to issue \$5,000,000 of common stock, and bonds to the extent of \$20,000 a mile of line constructed. It is proposed to ssue \$2,250,000 of common stock, holding the balance in the treasury for future exten s_{sions}^{s} ; and application is being invited for first mortgage 30 year 5% gold bonds in amounts of \$500 and \$1,000 each bond. The line of \$500 and \$1,000 each bond. The line as projected will serve the following plan. places: Toronto, Little York, Rouge 11113, Dumbarton, Pickering, Whitby, Oshawa, Bowmanville, Newcastle, Clarke, Newton-ville, Newcastle, Cobourg, Grafville, Welcome, Port Hope, Cobourg, Graf-ton, Colborne, Brighton, Smithfield, Trenton, Belleutu Belleville, Cannifton, Shannonville, Deseronto, Name Napanee, Morven, Fredericksburg, Violet, Odessa, Westbrook, Cataraqui and Kingston. This and the store of the This represents a total of about 170 miles, and runs through an area having a population, including Toronto and Kingston, of 375,000. The idea is to give a half-hourly passenger service a story of the idea is to give a half-hourly passenger service, keeping 27 cars employed, each car running 20 hours at a speed of 25 miles an In addition it is proposed to run two freight trains a day, one each way, each train to the canacity ; to consist of five cars of 60,000 lbs. capacity; and an express service to be operated by four care cars. This will make an equipment of 41 by mean time proposed to generate electricity. by means of water power. The prospectus and an estimate of the probable receipts The estimated receipts and expenditure. are: Passengers, \$491,017.80, being at the Tate of \$16.61 per car per trip, or .ogc. per car mile . \$16.61 per car per trip, or .ogc. per car mile; freight, \$91,500, being at the rate of 14.50, being at the rate of 14 ; freight, \$91,500, being at the tace 1 14.70 c. per car mile, or 1.22 c. per ton per rate haul; express, \$42,000, being at the The world being the tage of 12.94 c. per mile. Total, \$624,517.80. 033.01, leaving net earnings of \$343,484.79, out of leaving net earnings of \$343,484.79, 33,01, leaving net earnings of 3343,404,179, out of which could be paid 5% on 33,400,000of 5% bonds, \$170,000 and 6% dividend on ing forward 822,454,70. ¹ ¹ ¹ ² ⁵⁰,000 of common such ing forward \$38,484.79. The charter under which the company is work:

Working was granted by the Ontario Legis-

lature, 1902, and gives the company power to construct a line from Toronto over the Government military road (Kingston road), easterly to the boundary of Quebec province, and a line from Brockville to Ottawa, with power to construct branch lines not exceeding 30 miles in length in any one case. The section of the line which the promoters desire to construct at once is that extending from Toronto to Kingston, approximately 170 miles. The company has invited the various municipalities through which the line will pass between Toronto and Kingston to subscribe for stock and bonds in the company, the amount asked for being based on the population of the several municipalities. A number of town and township municipalities have agreed to this proposition, and by-laws have been passed. In one case, however, the proposition was rejected. A construction company is in process of formation to build and equip the line. A. E. Pond, of Boston, Mass., who represents Boston and other U.S. capitalists interested in the company, is in charge of the affairs of the company at Kingston. (Aug., pg. 279.)

Ottawa River Ry .- The Dominion Parliament at its last session voted a subsidy at the rate of \$3,200 a mile, with the usual provisions for an increase to \$6,400 a mile, for the construction of 15 miles of line from St. Agathe des Montes station towards the township of Howard, Que., and for 38 miles of line from St. Andrew's, passing through the parishes of St. Placide, St. Eustache and St. Martin. These replace the subsidies voted for lines in the same vicinity in 1903. (Aug., pg. 279.)

Peterborough Radial Ry. (Electric).-The line of the Peterborough and Ashburnham Ry, which was formerly operated in these towns, has been acquired by the P.R. Ry. Co., which has practically rebuilt the old line, and has constructed 11 miles of additional track. A car service was placed in operation Aug. 29. (See Peterborough and Ashburnham Ry., June, pg. 189.)

Petrolea Rapid Railway (Electric).— This company has an Ontario charter for the construction of an electric railway from Petrolea to Sarnia, Ont., with a branch from Corunna to Courtright, Ont. From Sarnia to Corunna, seven miles, the projected line runs along the Canadian bank of the St. Clair river, and the branch from this point to Courtright, about seven miles, is also along the river bank, while the 161/2 miles from Corunna to Petrolea is projected along an almost level roadway, the last three miles being through the oil territory. The total The total population to be served is 32,000, but there is a population of 36,000 in the towns and townships along the U.S. side of the river, from which a considerable amount of passenger traffic is anticipated. The company proposes to establish a passenger, freight and express service. Right-of-way has been secured through the Indian reserve by lease from the Dominion Government, and from private owners for the whole of the river front part of the line, and the townships of Moore and Enniskillen have granted franchises covering right-of-way over certain highways, with the right to cross others at intersecting points. It is intended to fix the main power station at Corunna, from which it is proposed to supply power for manufacturing purposes. An arrangement has been made by which the company can take over the undertaking of the Petrolea Electric Light, Heat and Power Co. (Ltd.), payment to be made in P.R.Ry. preferred stock. The authorized capital is \$500,000 and bonds to the extent of \$20,000 a mile may be issued. For the construction of the work at present contemplated it is proposed to issue \$200,000 of 6% preference shares and \$131,500 of common stock; the bond issue will amount to about \$600,000. H. L. Dunn, of Denton, Dunn and Boultbee, Toronto, is consulting

counsel, and the same interests that are behind the Niagara, Queenston and St. Catharines Ry. are at the back of this under-The provisional organization intaking. cludes : President, J. W. Harrold, Corunna, Ont.; Vice-President and Managing Director, S. A. Armstrong, Sarnia, Ont., other ender tors; W. F. Titchborne, Petrolea; J. Clys-the Common P. T. McGibbon, Sarnia; S. A. Armstrong, Sarnia, Ont.; other direcdale, Corunna; P. T. McGibbon, Sarni Secretary-Treasurer, T. J. Gordon, Sarnia.

Prince Edward Island Ry .--- In addition to the amounts mentioned in our last issue, the following were voted at the recent session of the Dominion Parliament for works on the P.E.I. Rv. :

Additional accommodation, Kincora	\$ 150 00
Northam and Richmond stations	340 00
Fredericton station	120 00
Station and land at Albany	210 00
Increased accommodation at Georgetown	33,500 00
Survey from Souris or Harmony to Elmira.	1,500 00
Dwelli g for agent at Bloomfield	1,000 00
Survey to New London	
Branch line to Vernon River bridge	1,500 00
Draden line to verifon River bridge	50,000 00
Dwelling for agent at Miscouche	1,000 00
Swing span for Morrell River bridge	25,000 00
New station at Alberton	2 500 00
Widening wharf, and coal shed at Summer-	-
side	1,150 00
Increased accommodation at Charlottetown,	25.000 00
Survey from main line to west shore	1,500 00
To improve water service	26,800 00
Charlottetown-Extension of railway track	10,000 00
along water front	
along water front	5,000 00
Station at St. Teresa	750 00
Station at Piusville	750 00
Branch line from Cardigan to Montague	
Bridge	100,000 00
Improvements at Summerside	10,000 00
For freight shed at York Station	500 00
(A	300 (10

(Aug., pg. 279.)

Quebec Central Ry .- We are advised that the survey on the proposed extension between St. Francis, now named Beauceville, and St. George, at the River Famine, 10 miles, was made some fifteen years ago by Mr. Armstrong and Mr. Stoess, the plans being com-pleted by the latter. Respecting the pro-posed extension from Scotts to Levis, Que., we were advised Aug. 8 that an engineer had not been appointed to make the survey. There is a good prospect that the branch from St. Francis to St. George will be constructed in the near future. (July, pg. 235.)

Quebec and Lake St. John Ry,-The extension of the line from Roberval station to the Government wharf on Lake St. John, Que., about one mile, was expected to be completed early in Sept. The route is level, grade compensated. The location siteven, for the La Tuque branch are expected to be completed early in Oct. The length of the projected line is 38 miles, and the surveys made showed that the grade would be 1%compensated, and that the maximum curvature would be 6 degrees. It is expected that tenders for construction will be awarded at an early date, and it is desired to have the line completed and in operation by Sept., 1905. The distance from Quebec to La Tuque by the new line will be 118 miles, against 174 miles by the present route from Quebec to Grandes Piles, via Three Rivers, and steamer from Grandes Piles to La Tuque. (July, pg. 235.)

Quebec, New Brunswick and Nova Scotia Ry -- Plans have been filed with the Department of Railways, Ottawa, showing the route of this projected railway from Quebec to Pugwash Jct., N.S. The fine starts from a junction with the Great Northern Ry, of Canada, the entrance of which into Quebec over its own line is being arranged for, and connect-ing with the Quebec Bridge. From the southerly end of the bridge the plans show a route proceeding southwesterly via the Etchemin River valley to the International boundary across the counties of Somerset, Piscataquis, Penobscot and Arostook, Me., then into New Brunswick, near Woodstock, thence via Fredericton and Moncton to Pugwash Jct., N.S., on the Intercolonial Ry. The plans are

9.30 a.m.

LIVERPOOL.

ENTE

41 King St. East, Toronto



signed by D. D. Mann, of Mackenzie, Mann & Co., Toronto. (Sept., 1903, pg. 307.)

Quebee Southern Ry.-The Receiver in charge of the operations of the Q.S. Ry., in a report to the court, states that 30,000 ties have been purchased out of the surplus earnings of the line, and placed in the roadbed. Some material repairs to culverts and bridges had been made. An extension into Pierreville has been completed. (Jan., pg. 8.)

Southwestern Traction Co. (Electric.)-We were informed Aug. 9 that track had been laid from London to Dingman's Creek, a mile a mile or so below the village of Lambeth, Ont. The grading had been completed to the heights overlooking St. Thomas, and track was being laid northerly to meet the branch Lingman's Creek. It was expected to have the whole of the steel laid by the end of A_{ug}^{ue} the whole of the steel late by the characteristic A_{ug}^{ue} . Preparations were being made for the construction of the overhead work and of the Power house. (Aug., pg. 279.)

St. Joseph and Stratford Electric Ry.**p**^{ec,} Joseph and Stratford Flower of this press reports state that the charter of this projected railway has been acquired by the CP R, and that its terminal on Lake Huron Will C, and that its terminal on Lake Huron Will be changed from St. Joseph to Grand Bend. (July, pg. 235.)

Suburban Tramway and Power Co.— This Sequerban Tramway and Power Co. Sequerban Tramway and Power Co. Sequerban Which was incorporated at the last session of the Quebec Legislature to construct electric in the Quebec Legislature to Montreal, has electric lines in the vicinity of Montreal, has been organized with the following officers And directors: President, Hon. L. J. Forget; directors: President, Hon. L. J. Forget; directors: K. W. Blackwell; other rectors, Lieut.-Col. Henshaw, Sir H. M. Allan, P. Gilbert. General Manager, W. G. Ross; Secretary, P. Dubee. These are all Association Ross are all Second Ry. Co., and Associated with Montreal Street Ry. Co., and it is stated with Montreal Street Ry. Co., and be consistent will be consistent that the principal line which will constructed will be one to serve the Longue Pointe district, which the Montreal Park and Island Ry. Co., owned by the Montreal Street Ry. C. Ry, Co., has been enjoined from constructing at the at the suit of the Montreal Terminal Ry. Co. (July, pg. 235.)

Temagami Ry.—An act was passed at the recent session of the Dominion Parliament Authorizing an extension of time for the commencement and completion of the projected railway. (Jan., pg. 9.)

Tomiscouata Ry.—The act passed at the recent session of the Dominion Parliament to such session of the Dominion Parnament in Such about \$250,000 of prior lien bonds, will make a discharge its hable the company not only to discharge its Table the company not only to discnarge to labilities in England, but will enable it to ments out a number of much needed betterents and to provide additional rolling stock. The expenditure on betterments, etc., is to be pread pread over three years. The betterments proposed to be made on this line include fillweel bridges on masonry abutments, together with the with the completion of the ballasting and such like work in progress.

hite work. The ballasting is now in progress. Croal and Northern Ontarlo Ry. Grading has been completed into New inskeard, 112 miles from North Bay, Ont., and the Link the second secon and the bridge and trestle work is well ad-and ball Tracklaying is progressing rapidly and ballasting is being proceeded with is completed ear Ine ballasting is being proceeded with. Oct, and to be completed early in by the with the ready for the formal opening have been received by the winter. Tenders have been received for the erection of station buildings at Tema-Rami, mileage 72; Haileybury, mileage 106, and New Titt 72; mileage 112, the points and New Liskeard, mileage 112, the points where the Liskeard, mileage 112, the points where there is at present considerable traffic of construction. The commission in charge of of contract of commission in charge of contract of contract of contract of contract of the ostruction, the commission in charge of and G,T be contract of C.P.R.and G.T.R. officials recently went over the line, the officials recently went over the line, the officials recently went over the second secon ine, the townsite commissioners located whe townsites, and the railway men dis-ussed town the townsites of the surveys for townsites, and the railway men us the extractic possibilities. The surveys for the extractic possibilities New Liskeard to extension north from New Liskeard to Ake Abitibi are well advanced, and the con-

tractor has been arranging for proceeding with construction work. [July, pg. 235.)

Toronto and Hamilton Ry. (Electric),---The township council of Saltfleet, Ont., has given permission to the T. and H. Ry. to cross Hamilton Beach within the area of the G.T.R. right of way. The company has reached an arrangement with the G.T.R. for the use of its right of way or tracks between Burlington and Stoney Creek, Ont. Several meetings between W. T. Jennings, Engineer, and the Hamilton City Council have taken place in respect of the right of way over the portion of the beach outside the jurisdiction of the Saltfleet township, and the entrance into Hamilton. Several plans have been filed with the authorities showing various routes, but until all questions are settled the Chief Engineer says that it is not possible to give details of the route. A report from Hamilton, received as the matter is being closed up, states that the plan to circle Hamilton Bay has been abandoned, and that Hamilton will be reached by a spur line from Stoney Creek.

The plans deposited at Ottawa show a line leaving Toronto near the Canada Foundry Co.'s property at Davenport, crossing under the C.P.R. and G.T.R. tracks near the bicycle works on the Weston road, and the C.P.R. near Lambton Mills; thence keeping well back from the lake shore in an air line, as nearly as possible, to Burlington. (Aug., pg. 27%)

Toronto, Hamilton and Buffalo Ry.---Work has been started at Brantford, Ont., on the improvement of the road bed, and the other betterments contemplated at the station buildings and yard. (Aug., pg. 279.)

Toronto and Mimico Ry. (Electric).-After considerable negotiation and several meet-ings before the Ontario Railway Commission, an arrangement was come to in reference to the location of the line at Lorne Park, on the extension from Long Branch to Oakville, Ont., and an order was made giving effect to the new proposal. (Aug., pg. 279.)

Toronto and Scarboro Ry. (Electric).—A considerable section of this line from the Woodbine, Toronto, to Scarboro has been re-ballasted, and the rails renewed.

Toronto Ry. (Electric) .- The work of installing the additional power plant is being pushed forward, and it is expected that it will be fully completed early in Oct. The new installation will provide about 30,000 extra horse power. (July, pg. 235.)

Vancouver, Victoria and Eastern Ry. and Navigation Co .- Press reports state that it is expected to have the grade for the line from Grand Forks to Phœnix, B.C., to be completed and ready for tracklaying by Sept. 15. (Aug. pg. 279.)

The West Canadian Collieries (Ltd.) is the title under which a British company was incorporated at the last session of the Dominion Parliament to carry on a mining business and to operate railways in B.C., the Northwest and Yukon Territories. It is empowered to take over the Cardiff Ry. (unbuilt) and the Union Gold Fields of B.C. (Ltd.), which has a charter to construct a railway. (Mar., pg. 83.)

Western Alberta Ry .--- A subsidy was voted last session of the Dominion Parliament, under the revised conditions, of a minimum of \$3,200 a mile for a line from the International boundary west of range 27 northwesterly towards Anthracite, Alta., not exceeding 50 miles. This is in lieu of a subsidy for a similar line voted in 1899.

Winnipeg and St. Andrews Ry .--- The necessary franchises have been obtained for the construction of a railway from Winnipeg to St. Andrews, and it is hoped that the line will be constructed within the next year. The officers of the company are: President, E. F.

Hutchings; Vice-President, R. J. Hutchings; Secretary-Treasurer, B. J. Denby; the offices being in Winnipeg. (July, pg. 287.)

Winnipeg, Selkirk and Lake Winnipeg Ry.-We were recently advised that the work in progress during the current season had consisted of some ballasting and the acquisition of additional rolling stock and equipment. The company has power to operate its line by steam temporarily, but is figuring on a source for obtaining electric power. Arrangements had not been made for getting any running rights over the Winnipeg city streets. A train service was placed in operation Aug. 29, the formal opening having taken place Aug. 27. (June, pg. 183.)

Ontario's Government Railway.

The railway from North Bay to New Liskeard, 112 miles, now approaching comple-tion, under the title of the Temiskaming and Northern Ontario Ry., at the cost of the Ontario Government, is also to be operated by the Commission, under the charge of which it was constructed. Nothing definite has yet been decided as to the number of the operating officials who will be appointed, their titles, or other matters relating thereto. The line will have its own freight yard at North Bay, at the point where connection is made with the C.P.R. tracks, but there will be no station or terminal buildings, An agreement has been executed between the Commission and the C.P.R. for the use of that company's terminals at North Bay, and for trackage rights over the line from North Bay to Nipissing Jct., where connection will be made with the G.T.R. The text of this agreement was published in full in the second annual report of the Commission. Prior to entering into the agreement the Commission approached the management of the C.P.R. and the G.T.R. on the subject of terminal facilities. The G.T.R. management expressed a willingness to enter into a joint agreement for the construction of a line from Nipissing Jct. to North Bay, including the putting in of a terminal yard and engine house at the latter point, if a contract were entered into for at least five years. The Commissioners could not agree to this, and negotiated with the C.P.R. which had offered to grant the use of its terminal facilities on terms to be agreed upon. The agreement entered into as a result provides for trackage rights between North Bay and Nipissing Jct., and the use of the C.P.R. yards, roundhouse, and other terminal facilities, including the services of the staff. The Commissioners are to pay \$2.40 for each passenger train, and \$2.80 for each mixed, freight or other train run between North Bay and Nipissing Jct., and 50 cents a car for all cars arriving at or leaving North Bay, except cars of carload freight destined North Bay from points on the C.P.R., or arriving at North Bay from points on the C.P.R. for points on the T. and N.O. Ry.; the minimum sum to be \$4 for a single train. An additional charge of 25 cents a ton will be made for all freight handled at the C.P.R. freight sheds. The Commissioners will also pay the cost of a telegraph operator at the point of junction of the two lines. In respect of passenger trains, \$1 a car will be charged for cleaning and repairing, etc., plus 10% on the cost of all materials used or supplied; and for repairs, etc., of freight cars 10% on the cost of materials used or supplied. In respect of locomotives, the charges shall be \$1.40 for handling, etc., 25 cents per tender for water, repairs and materials at cost plus 10%; and coal at cost plus 10 cents a ton for accounting. The connection with the C.P.R. shall be made by that company, but at the cost of the Commission. Differences are to be settled by arbitration, and the contract is terminable by either side on giving 12 months' notice.

THE RAILWAY AND SHIPPING WORLD.

[SEPT., 1904.



C.P.R. Betterments, Construction, Etc.

Farnham-Nowport Grade Reduction.— Work is in progress on the reduction of the **grade** between Farnham and Newport, Que., mileage 56.40 to mileage 91.09, from 1.5% in places to 0.8% operating grade. On the extreme heavy hills it is proposed to use a pusher service, which avoids the cutting of these hills or changing the line. There will not, at the present time, be any diversion of the main line between these two points. The work is being done by the company's men under the charge of H. C. Grout, Resident Engineer, F. S. Darling, Division Engineer, being in general charge.

Westmount Vard. - The C. P. R. has acquired an extensive tract of land at Westmount, north and south of its main tracks into Windsor St. station, Montreal, and lying between Cote St. Luke Road and Glen Ave. Plans have been prepared for laying this area out as a yard for the purpose of relieving the present yard at Windsor St. of all passenger car cleaning, repairs and storage, and also of the the roundhouse and its accessories. The new ways Si will be approached from the Windsor St. end by a switch branching off from the main tracks about 1,200 ft. from Glen Ave., and connection will be made with the main track west of Cote St. Luke Road by a switch of similar length. There will be ten tracks leading off from the main switch for storing and other purposes, and several tracks for the roundhouse, coal chutes, car supply stores, etc., from a branch switch. To the south of the main switching tracks will be erected three buildings for car supplies, stores, etc.: (1) Repair shop, 110 by 30 ft.; ice and coal, by 30 fL; (2) parlor and sleeper car sup-ft; (3) gas plant, 90 by 30 fL; (2) parlor and sleeper car sup-ft; (3) gas plant, 90 by 30 fL. The round-house by 40 fL; gas plant, 90 by 30 fL. The roundhouse will accommodate 18 locomotives, and off it will be an engine and boiler room, and adjoining the tracks leading to it will be coal chutes, water tank, ashpit, standpipes and oil h_{ouse}^{ouse} , water tank, asnph, stanspipe and h_{ouse} for locomotive supplies, and an engine house to supply power for these buildings. (Aug., pg. 273.)

St. Phillippe Northerly.—At the last session of the Dominion Parliament a subsidy at the usual rate was granted to the C.P.R. for or a point between there and Grenville, Que., amount was voted in 1903, but not in favor of any Particular company.

Toronto-Sudbury Line.—We were advised, **Aug.** 29, that work is progressing on the line at the Sudbury end towards Byng Inlet, Ont. in an uncompleted state, and it is impossible tracts will be let. (July, pg. 243.)

Winnipeg Hotel, Station, Etc.—Work has been started at the site of the proposed new hotel, driving piles for the foundations. Three will be drivers are at work, and 2,500 piles been made with the station and office building. (Aug., pg. 273.)

Manitoba and Northwestern Ry.—We tension was being done this season on the M. in 1903. (July, pg. 245.)

Pipestone Branch.—The work of connecting Arcola, the former terminal of the Pipestone branch with Regina, Assa., has been Whyte, and the line was inspected by W. be handed over to the operating department in Oct. The length of the new line is 113 in 1903. Track was laid on 40.7 miles from ing 72.3 miles being laid this season. (April, Pg. 113.) Pheasant Hills Branch.--We were advised, Aug. 20, that it was expected to get track laid to mileage 167 this season. This will bring the track end to a point about 20 miles beyond Jumping Deer Creek, Assa. W. Whyte, 2nd Vice-President, went over the line Aug. 15, and a train service was expected to be put on early in Sept. to Balcarres, Assa. (June, pg. 195.)

Pasqua to Moose Jaw.—New heavy steel has been laid on the track between Pasqua and Moose Jaw, Assa., a portion of the track being raised in order to reduce the grade. This is in connection with the work of grade reduction between Moose Jaw and Swift Current. (June, pg. 195.)

Wetaskiwin Extension.—We were advised, Aug. 20, that it was expected to complete the grading of this extension for a distance of 25 miles east of Wetaskiwin this season. (June, pg. 195.)

Lacombe Extension. – It is expected to have 25 miles of the projected extension of 50 miles easterly from Lacombe, Alta., graded by the end of the season. (June, pg. 195.)

Fernie Creek Coal Branch.—A lease of this branch line has been granted to the Crow's Nest Pass Coal Co. for a term of years commencing Oct. 1. The branch is five miles in length, and will be used exclusively for carrying coal from the mines to Fernie for the coke ovens and for distribution.

Victoria Hotel.—Tenders are under consideration for the foundation work at the site of the proposed new hotel, and a start was expected to be made on construction early in Sept. (Aug., pg. 275.)

G.T.R. Betterments, Construction, Etc.

Hamilton Freight Sheds.—The new freight sheds on Ferguson Ave., between Barton and Cameron streets, have been completed and are now being used for the receipt and despatch of freight. The new shed is 1,200 ft. long by 40 ft. wide, and is fitted with the most modern appliances for the expeditious handling of freight. At the north end of the shed is a two-storey office building for the freight agent and his staff.

Hamilton-Sarnia Second Track. — We were advised Aug. 19 that the contractors are busy on all parts of the second track work between Hamilton and Lynden, and Paris and London. The earthwork, masonry and steel superstructures are all under way, and it is expected that both sections will be entirely completed by the beginning of winter. (Aug., pg. 285.)

Brantford Station .-- Work is in progress on the new station at Brantford, Ont. building will be a handsome one 206 ft. in length, including the express room, by an ex-treme width of 59 ft. The exterior will be faced with blue granite to window sill course, and above with paving blocks and pink granite trimmings. The roof will be of red tile. The general waiting room will have a mosaic tile floor, its wainscot to consist of enameled tile, with ornamental tile frieze and cap. All door and window casings will be of marble. The walls above will be plastered, also the ceiling, which is divided into deep panels by heavy architraves, supported by wall columns and pilasters, all of which will be richly decorated. This room will have a height of 23 ft., and receives its principal light from a series of clear-story windows above the shed roof; all clear-story windows will be glazed with ornamental beaded glass, all main windows with polished plate glass. The extreme length of the waiting room is 72 ft. by a width of 59 ft. Annexed to this room, besides ticket office, will be a men's smoking room and ladies' and men's toilet, also **baggage** room. The entrance from town side is provided with a porte cochere. A covered walk 30x60 ft. connects the station with the express room, which is 35 by 45 ft. There is a handsome tower at the waiting room end of the building.

Stratford Shops.-The Stratford, Ont., city council has agreed to the application of the company fixing its taxation at \$8,000 a year for 10 years. We were advised that the enlargement of the shops at this point was con-tingent upon this agreement being reached. Following is a detailed description of the alterations and enlargements which it is proposed to make:-The present erecting shop is to be extended into the present boiler shop, a distance of 179 ft., which will give twelve additional pits for engine repairs. These pits are to be of 22 ft. centres, and built of concrete. An additional hoist and transfer table will be used in connection with this extension. An entire new boiler shop will be erected. The dimensions of this shop will be 169 ft. long by 120 ft. wide. It will be equipped with two electric travelling cranes, one of 30 tons and one of 10 tons capacity. The height from the floor to the roof trusses will be 41 ft. The building is to have cement foundation, and the upper portion of white brick, with the exception of the window frames and sashes, which will be composed entirely of cement, brick and structural steel. The machinery is to be driven by electric motors. A new tender shop is to be built at right angles to and adjoining the new boiler shop, with an opening into the latter shop, so that the tools and machinery in boiler shop can be used for tender shop work. This lat-ter shop will be 326 ft. long by 102 ft. wide. It will be built in a similar manner to the new boiler shop, and of the same construction. A new brass foundry, 70 ft. by 41 ft., will be built. This building will be composed of cement foundations, brick and structural steel for roof trusses, etc. There will be an addition of 50 ft. put on the east end of present blacksmith shop; and the east end of present tender shop will be extended 70 feet. This latter building will be used for light repairs to locomotives, repairs to steam shovels, and other similar work. There will also be an addition (60 ft. by 41 ft.) to the west end of present tender shop. This is to be used as a wheel shop. The present brass foundry is to be converted into additional machine shop space. The new buildings and additions to old ones will give 74,654 sq. ft. of additional floor space. A large amount of new and upto-date machinery is to be installed in the different shops. In addition to the new machinery there will be installed a new 300 K.W. electric generator to work the electric cranes and machinery that will be electrically driven. Tenders for the work have been asked for, but have not yet been given out. The approximate cost for the whole improvements will be about \$117,000. (Aug., pg. 287.)

East London Roundhouse.—The new roundhouse which is being erected at East London is being constructed of concrete walls, with a felt and gravel roof. The roundhouse will be circular in form, and there will be machine shops for doing running repairs adjoining. The roundhouse is a 40stall one, 80 ft. between walls inside, and having a 70 ft. turntable with pneumatic turn-table motor attached. There will be two ash pits with cinder hoist and buckets, the cinders being pneumatically conveyed from pits to cinder car without shovelling. The coal chutes are G.T.R. standard pattern, 20 chutes on each side, cach chute having a capacity of 10 tons. Coal cars are pushed up the incline, the coal being delivered in hopper bottom cars. There will be a machine shop 112 by 52 ft. in connection with the roundhouse to take care of the running repairs. Shop will be equipped with air and steam piping complete, so that engines can



be washed out or have their equipment tested on every pit in the shop. The heating is G.T.R. standard system, using the condensed standard system, using the condensed steam from the compressor and stationary engine, which goes through a superheater to a hot well, and from there is pumped through the coils around the shop, returning to the bot well. This system eliminates the use of live steam entirely. Adjoining the roundhouse there will be coal chutes, tracks, ash pits, etc., the plans for which have not been Completed. A contract for the erection of the roundhouse has been let to J. Hayman & Sons Sons, London. (Aug., pg. 285.)

National Transcontinental Railway.

The following have been appointed by the Dominion Government members of the Commission which is to have charge of the construction of the projected line from Quebec to Winnipeg—the National Transcontinental Ry:-Chairman, F. B. Wade, K.C., Annapolis, N.S. Chairman, F. B. Wade, K.C., Annapolis, B. Paid London, N.S.; A. Brunet, Montreal; R. Reid, London, Ont.; C. A. Young, Winnipeg, Man. The Chairman will be paid \$8,000 a year and the Chairman will be paid \$8,000 a year and the other commissioners \$7,000 a year. The Government has also appointed H. Lumsden, C.E., heretofore chief locating engineer \$6,000 a year, and P. E. Ryan, heretofore Secretary-Treasurer of the Ontario Commis-sion for the construction of the Temiskaming sion for the construction of the Temiskaming and Northern Ontario Ry., Toronto, as Sec-retary. The Commission has been given temporary offices in the House of Commons building. The Commissioners have met and decision has been reached to divide the County of the base of the country through which the line will pass into four divisions, and to appoint an engineer to done the charge of each. When this has been It is four the survey work will be gone on with. It is further understood that the work of the G.T. Pacific surveys will be utilized as far s possible. At the last session of the Dominion Parliament \$500,000 was voted on account of surveys for the line.

Grand Trunk Pacific Railway.

The following provisional officers and dent and General Manager G.T.R., Mon-treat, the General Manager G.T.R., Montreal, Vice-President and General Manager, b. u. Vice-President and General Manager, F. W. Vice-President and General Manager, Montreal; 2nd Vice-President, W. Wain-Wright, Constantion and Guneral Assistant, G.T.R., Montreal. Other directors: Sir C. A. W Wilson, G.C.M.G., President G.T.R.; A. W. Smithers, Vice-President G.T.R.; Lord Welby, G.C.B.; Col. F. Firebrace, of London elby, G.C.B. Col. F. Firebrace, of Londow, By, G.C.B.; Col. F. Firebrace, ot Londow, Eng., directors G.T.R.; John Bell, Ont.; General Counsel, G.T.R., Belleville, eral Counsel, G.T.R.; Sir H. A. Sistant Gen-Greenshields of Montreal: I. R. Booth, Presi-Greenshields, of Montreal; J. R. Booth, Presi-dent Canada, Adamia, Rv. Co., of Ottawa; dent Canada Atlantic Ry. Co., of Ottawa; Hon, G. A. Cox, E. R. Wood, of Toronto; C. M. Hays, Montreal; Treasurer, F. Scott, tor, H. W. Walker, General Auditor, G. T.R., Wontreal; Internal Streasurer, F. Scott, tor, H. W. Walker, General Auditor, G. T.R., Montreal; Internal Streasurer, Davidson Wainwich Walker, General Auditor, Genera Montreal; local consulting counsel, Davidson window walker, General. An executive pommittee, consisting of C. M. Hays, G. A. Morse, W. Wainwright and Hon. the A. Cox, was also appointed. Under of act of incorporation the first meeting dishareholders will be held in Oct., when directors will be held in Oct., when directors will be held in Oct., when Government director, urectors will be elected. The Dominion Governs will be elected. The Dominion and Hon. S. N. Parent, Premier of Promoter of the City of Quebec, a bas been appointed. On Aug. 17 a party of

directors and officers left Montreal on a special train for the Pacific coast to look over the country, and to visit the several ports proposed as the western terminus. Hon. R. Prefontaine, Minister of Marine, met the directors and officers at Vancouver. The party visited Port Simpson, Kitamaat, and other points on the coast regarded as a possible terminus.

After the preliminary organization meeting C. M. Hays stated in an interview: "Surveys are being rapidly made on that section of the road between Winnipeg and the Pacific coast. They will be continued, and as soon as all the required information regarding grades, practicable routes and terminal points is prepared a definite route will be chosen and construction work will be commenced. It will take considerable time yet for these surveys to be completed. There is no prob-ability of any construction work being started this year.'

MAINLY ABOUT PEOPLE.

D. McNicoll, Vice-President C.P.R., returned to Montreal from Great Britain Aug. 31.

R. Richards, at one time Manager of the Canadian Railway News Co., London, Ont., died there Aug. 12.

W. T. Marlow, Import Freight Agent C.P.-R., Montreal, was married Aug. 20, to Miss A. M. Dunn, Toronto.

W. F. Egg, City Passenger Agent G.T.R., returned to Montreal Aug. 1, after a three months' trip to England.

Sir W. VanHorne, Chairman of the Board C.P.R., returned to Moutreal Aug. 8, after a trip to the Pacific coast.

H. B. Turner, chief clerk to D. E. Brown, General Agent, C.P.R., Hong Kong, is spending a holiday in Montreal.

L. Lukes, of Mackenzie, Mann & Co., and Mrs. Lukes, have returned to Toronto after four months' absence in England.

F. Cleland, chief engineer of the Northern Navigation Co.'s str. United Empire, died at Sarnia, Aug. 20, of typhoid fever.

Geo. Tanguay, M.L.A., has been re-elected a member of the Quebec Harbor Commission to represent the Quebec Board of Trade.

U. E. Thompson, local manager G.N.W. Telegraph Co., and agent Canadian Ex. Co., at Belleville, Ont., died there Aug. 24, aged 62.

P. S. Archibald, C.E., accompanied by Mrs. Archibald, returned to Moncton, N.B., Aug. 6, after spending some weeks in Manitoba.

R. Reford, of the Robert Reford Co. (Ltd.), has been re-elected to represent the shipping interests on the Montreal Harbor Commission.

R. Creelman, K.C., Chief Solicitor C.P.R., and the Misses Creelman, have returned to Montreal from a trip to the Pacific coast.

Rev. R. B. Nelles, B.A., son of Lieut.-Col. Nelles, Freight Agent G.T.R., Toronto, was married, Aug. 3, to Miss M. D. Jack at Toronto.

J. G. Scott, General Manager Quebec and Lake St. John Ry., accompanied by Mrs. Scott, has returned to Quebec from Great Britain.

Miss M. McAvity, daughter of Jas. McAvity, railway construction overseer, St. John, N.B., was married there Aug. 2, to D. Kirkpatrick, of Halifax, N.S.

R. Doyle, formerly Trainmaster for the Wabash Rd. at St. Thomas, Ont., was presented with a grandfather's clock by his former associates.

H. T. Nash, who, during the construction of the Ottawa and New York Ry., was Secretary-Treasurer of the company, died sud-denly in Seattle, Wash., July 29.

Rev. J. Campbell, LL.D., who died sud-denly at Yoho Island, Muskoka, July 30, was a son-in-law of J. S. Playfair, President Muskoka Lakes Navigation and Hotel Co.

Miss L. W. W. Gibson, daughter of Senator Gibson, railway and general contractor, Beamsville, Ont., was married recently at Beamsville, to W. Darling, of Toronto.

T. Melie, of Montreal, a G.T.R. bridge inspector, was seriously injured in the belt of a stonecrusher at Beamsville, Ont., where he was attending to some bridge repairs, Aug. 17.

L. D. Dion, who was drowned in the St. Lawrence at Notre Dame du Portage, Que., Aug. 23, was engaged in the records branch of the Department of Railways and Canals, Ottawa.

W. J. Hoffman, a former employe in the C.P.R. passenger department, Montreal, is now in charge of the claims department of the Government railways in the Orange River Colony.

H. M. Apps, formerly draughtsman C.P.R. car department, Montreal, and son of W. Apps, ex-Master Car Builder, C.P.R., died at Toronto, Aug. 27, aged 18, after a short illness.

F. W. Morse, Third Vice-President, and Dr. J. A. Hutchison, Chief Medical Officer, G.T.R., have been elected life members of the G.T.R. Literary and Scientific Institute, Montreal.

The engagement is announced of Miss M. Cumberland, daughter of Barlow Cumberland, of Port Hope, Ont., formerly general ticket agent, Toronto, to H. Wotherspoon of Montreal.

A. Lumsden, owner of the Lumsden Line of steamers on the Upper Ottawa, and largely interested in lumbering along the river, died suddenly at his Ottawa residence, Aug. 5, aged 60.

F. G. Adams, Travelling Freight Agent G.T.R. Montreal, was presented with an onyx clock by the city freight office staff, Aug. 9, on the occasion of his marriage to Miss M. Macklaier.

Residents of Muskoka are advocating the appointment of A. P. Cockburn, Secretary-Treasurer of the Muskoka Lakes Navigation and Hotel Co. (Ltd.), to one of the vacancies in the Senate.

I. I. Brignell, chief clerk in the Assistant-General Passenger Agent's office, Toronto, who recently recovered from an attack of typhoid fever, is confined to bed suffering from sciatica.

F. B. Anthony, Chief Engineer, Quebec Southern Ry., at Sorel, Que., has resigned to become contractor's engineer to the Guelph, and Goderich Ry. He is now located at Goderich, Ont.

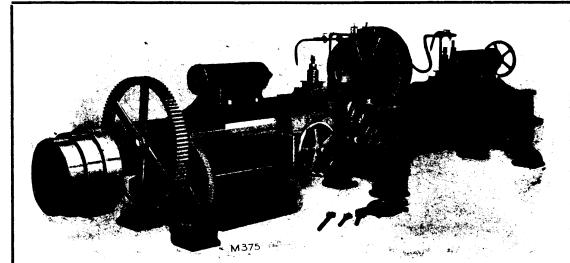
D. B. Swinton, master blacksmith C.P.R., Montreal, has been elected First Vice-Pres-ident of the National Master Blacksmiths' Association, at the meeting recently held at Indianapolis, Ind.

Hon. W. Gibson, railway and general contractor, Beamsville, Ont., was married in London, Eng., Aug. 9, to Miss M. Mackie, of Peterhead, Scotland, of which place Senator Gibson is a native.

Owing to the indisposition of Hon. A. G. Blair, Chief Railway Commissioner, the itinerary of the Board's visit to the Pacific coast was varied, the journey to Edmonton, Alta., being cut out.

T. Matchett, C.P.R. town ticket agent at Lindsay, Ont., was presented with a mahogany parlor cabinet and a gold locket by Court

[SEPT., 1904.



TWENTY AXLES A DAY

M.C.B. Standard 80,000 JD. car axles including burnishing, is the capacity of the Bertram Double Car Axle Lathe. The strength, speed and power which enable this machine to stand the severest tests in many the country have been obtained by over forty years of successful machine tool building. We have face and data regarding the performance of our Double Car Axle Lathe, and other our and locomotive tools, that will interest master mechanics, master car builders and railway mechanical men

Newspapers of August 16th

The JOHN BERTRAM & SONS CO., Limited Dundas, Ontario, Canada

BRAKE CHAIN BROKE

described a trolley disaster in which the conductor was killed and nine passengers injured. The brake chain broke on a steep grade and the car overturned on a curve.

The Sterling Safety Brake has two châins, running in sprockets. Should the working chain snap, the safety chain, which runs idly and unworn, would be instantly in service. This is the safest device known. It is not costly. Thousands of cars have it. Ask for references.

STERLING-MEAKER COMPANY

NEWARK, N.J., U.S.A.



Lindsay, I.O.F., on resigning from the office of Secretary-Treasurer.

D. D. Mann, Vice-President Canadian Northern Ry., has purchased the northwest corner lot of St. George St. and Lowther American St. George St. and Lowther Ave., Toronto, 200 ft. square for \$27,000, and Will build a residence thereon.

W. F. Laing, resident engineer C.P.R., district No. 2, Winnipeg, was killed at Kil-larne. larney, Man., Aug. 12, by accidentally falling in front of a gasoline motor on which he was making an inspection of his district.

R. M. Melville, general ticket agent, To-ronto, and C. P. Green, chief clerk District Passenger Agent's office, G.T.R., Toronto, are provisional directors of the British Colum-bia Process Co. (Ltd.), a mining company.

A. J. de B. Corriveau, a promoter of the Montreal Park and Island Ry., now owned by the Montreal Street Ry., and of the Montreal h and Southern Counties Ry., was killed by being run over by an electric car in Montreal, Aug. 6.

A. E. Kirkpatrick, who has been appointed school of Mines, Kingston, Ont., is a nephew of the late Sir. G. A. Kirkpatrick, President Dominion Fr. Co. and Was from 1882 to 1899 engaged on the engineering staff of the

T. B. Tate, who was engineer on construction of the St. Lawrence and Lake Huron R_{V} of the St. Lawrence and Lake Huron Ry, of the St. Lawrence and Lake Aluson. Ry, the first railway in Canada, died at Ogdensburg, N.Y., Aug. 8, aged 90. R. F. Tate Tate Tate Mackenzie, Mann Tate, resident engineer for Mackenzie, Mann Co., Toronto, is a nephew.

R. C. Carter, General Manager Bay of Quinte Ry., Thousand Islands Ry., Oshawa Ry., and Deseronto Navigation Co., Deser-Hosnitat Hospital, Aug. 22, where he had been under treatment, Aug. 22, where he had been under treatment for a couple of weeks.

W. Mackenzie, President Canadian Northch, Ry., is having built a new Presbyterian Church at Kirkfield, Ont., at a cost of about 7.000 7,000, to replace the present church, the site which is to be added to the grounds of Which is to be added to the add

J. W. Baker was presented with a gold W. Baker was presented with a good office of the C.P.R. telegraph department, on the contract appointment as the occasion of his recent appointment as local manager, in succession to J. Tait, appointed Assistant Superintendent.

E. G. Evans, who recently resigned his position as Superintendent and Chief Engineer the Name Description of the Name Descript taine L. New Brunswick Coal and Ry. Co., retains his position as Superintendent and Chief $E_{ngineer}^{maths}$ position as Superintendent and One. hgineer Moncton and Buctouche Ry., which holds as representing U.S. financial inter-ests.

Jas. Dickson, of Oelwein, Iowa, who has bas. Dickson, of Oelwein, lowa, who have been visiting Winnipeg recently, was one of the mechanics engaged in the construction of the G.T. Distribution stages, and remained the G.T.R. in its initial stages, and remained with the company until 1881, when he went to the U.S. He has now retired from active

B. Q. Bay, a C.P.R. inspector of bridges, Contreal, died from the effects of injuries re-reved to the proving over him near verveal, d ed from the effects of management Word, by a train running over him near Mr. Bay came Woodbry a train running ... Woodbridge, Ont., Aug. 4. Mr. Bay came ago, and the body has been taken there for

The charge against C. G. Polleys, Pres-ident Imperial Coal Mining Co., which owns for Beersville Ry., near Moncton, N.B., obtaining the secretary that the control of the company was held in trust by was not a New York gentleman when it

was not so held, has been dismissed. R. Warren, postmaster at Niagara-on-the-K. Warren, postmaster at Niagara-on-uc-father, Ont., who died there Aug. 12, was Superior C. D. Warren, President of the Lake Corporation, Sault Ste. Marie, Ont.,

owning the Algoma Central and Hudson Bay Ry., the Manitoulin and North Shore Ry., two electric railways, and a navigation company.

In the action brought by Mrs. Duchesney against the C.P.R. for damages caused by the death of her husband by a fall of rock in tunnel 11, Sept. 4, 1901, in the British Columbia courts, the jury found a verdict for the company. Mr. Duchesney at the time of his death was Assistant General Superintendent, Pacific Division C.P.R.

A. J. Herbert, Travelling Passenger Agent New York Central Rd., died at Montreal, after a short illness, Aug. 29. He was at one time chief clerk in the office of the District Passenger Agent, G.T.R., Toronto, was subsequently engaged in the G.T.R. city ticket office, and later on was at the company's head ticket office in Montreal.

L. V. Druce, who was recently appointed Commercial Agent G.T.R., at Seattle, Wash., was born Oct. 20, 1873, in London, Eng., and entered transportation service Aug., 1896, with the G.T.R. at Los Angeles, Cal., and was sent to Seattle, Wash., Mar., 1897, to open an office there, acting as Pacific Coast Agent until his present appointment.

W. J. Curle, who has been appointed Superintendent Brockville, Westport and Northwestern Ry., entered railway service with the G.T.R. at Brockville about 22 years ago, but for the past 20 years has been with the C.P.R., being successively car checker, telegraph operator, night agent, and outside agent, general yardmaster at Carleton Place, Ont., and latterly freight agent at Brockville.

P. McPherson, who has been appointed Assistant Right of Way and Lease Agent C.P.R. at Winnipeg, Man., was born at Gentry, Mo., Oct. 26, 1870, and moved with his parents to Manitoba, Mar., 1880, being educated at Portage la Prairie. He entered railway service Oct., 1900, as clerk in the legal department, and was appointed Right of Way Agent for the Central and Western Divisions, Jan. 1, 1902.

A. N. McLennan, who has been appointed Manager Sydney and Glace Bay Ry., was born in Richmond county, N.S., Aug. 15, 1854, and has been in railway service almost continuously since 1874. He acted successively as brakesman, fireman, conductor and driver for the Glasgow and Cape Breton Coal and Ry. Co.; as conductor and roadmaster for the International Coal and Ry. Co., and as roadmaster and Superintendent of railway and shipping for the Dominion Coal Co. He was out of railway service for a short time prior to his present appointment.

I. L. Boomer, Trainmaster, Great Northern Ry. of Canada, at Montreal, was born at Lower Stewiacke, N.S., June 10, 1875, and entered railway service 1891, since which his record has been: Mar., 1891, to April, 1901, successively telegraph operator, station agent and train dispatcher, Intercolonial Ry.; April, 1901, to Nov. 1, 1903, successively train dispatcher and Trainmaster Sydney and Louisburg Ry., Glace Bay, N.S.; Nov., 1903, to Jan., 1904, chief clerk to Superintendent of G.T.R. Terminals, Union Station, Toronto; Jan., 1904, to date, Trainmaster, G.N. Ry. of Canada.

G. B. Spriggs who has resigned his position as General Freight Agent of the New York, Chicago and St. Louis Rd., on account of illhealth, was born in England in 1834, and entered railway service in 185z, serving with the London and Northwestern Ry. there at Rockingham, Stafford and Wolverhampton until 1862, when he came to Canada, since which his record has been: 1862 to 1870, successively freight agent, through freight agent and General Freight Agent, Great Western Ry., Hamilton, Ont.; 1871 to 1877, Assistant General Freight Agent, Baltimore and Ohio Rd.; 1877 to 1882, General Freight and Traf-

fic Manager, Great Western Ry., Hamilton; Aug., 1882, to July, 1904, General Freight Agent, New York, Chicago and St. Louis Rd., at Cleveland, Ohio.

Jos. E. Duval, whose portrait appears on the first page of this issue, is Chief Inspector of the Board of Railway Commissioners for Canada. He was born 43 years ago and entered railway service in 1875 as night oper-ator on the Port Huron and Detroit division G.T.R., and after acting successively as operator, station agent and relieving dis-patcher, he was appointed station agent at Coteau Landing, Ont., for the Canada Atlantic Ry. in 1886, and was successively to April 5, 1904, the date of his present appointment, station agent, train dispatcher, Chief Train Dispatcher and Superintendent Car Department. Mr. Duval's father retired from active railroad work in 1888, after 45 years' service, and at the present time he has three brothers in the railroad service, two being with the Chicago, Northwestern and St. Paul Ry. at Omaha, Neb., and the third with the G.T.R. at Detroit, Mich.

H. D. Lumsden, C.E., who has been ap-pointed Chief Engineer National Transcontinental Ry., was born at Belhaire, Scotland, Sept 7th, 1844, and has been engaged in connection with railway engineering work in Canada since 1870. Among the lines on which he has been engaged, either as engineer in charge of surveys or in charge of construction, have been the northerly portion of the line from Toronto to Nipissing; Credit Valley Ry., change of gauge on Toronto, Grey and Bruce Ry. for C.P.R.; sections of C.P.R. main line, including surveys through Crow's Nest Pass; Ontario and Quebec Ry. from Toronto Junction to Perth; the C.P.R. from Smith's Falls to Vaudreuil Jct., from St. Johns to Lennoxville, Que., and Holeb and Mattawamkeag, Me.; Qu'Appelle, Long Lake and Saskatchewan Ry., Calgary and Edmonton Ry. Latterly he has been chief locating engineer, C.P.R.

N. S. Dunlop, who has been appointed Claims Adjuster, Atlantic, Eastern and Lake Superior divisions, C.P.R., was born near Al-monte, Ont., Jan. 17, 1861. He taught in the public schools of Lanark county for seven years and, having learned shorthand, went to Toronto in 1886, and took a position in a law office. He became Secretary and then President of the Canadian Shorthand Society; in 1888 he entered the office of the solicitors of the C.P.R. at Toronto; in 1890 was placed in charge of the Co.'s assessments and taxation in Ontario; he also had charge of garnishee matters, inquests, investigations, etc., and did the expert shorthand court work for the Co., and in 1892 was appointed Tax and Insurance Commissioner. In 1893 he was elected to the Council of the Canadian Stenographic Reporter's Society, subsequently becoming Secretary and afterwards President, and since entering the C.P.R. service inaugurated a movement for the beautification of the station grounds by the cultivation of flowers.

Frank W. Morse, who has been appointed Vice-President G.T. Pacific Ry., is also Third Vice-President of the G.T.R. He graduated in 1885, and at once entered railway service with the Wabash Rd., at Springfield, Ill. Promotions from time to time took him to Quincy, Ill.; Des Moines, Iowa, and St. Louis, Mo. In 1887 he severed his connection with In 1887 he severed his connection with the Wabash and entered the service of the Pan Handle Rd., which was composed of the Denver, Texas and Gulf, Denver, Texas and Fort Worth, and Fort Worth and Denver City railroads, at that time being under construction. After it had been completed and successfully operated, Mr. Morse, at the solicitation of C. M. Hays, at the time of the consolidation of the Wabash, Western and Wabash railroads into the present Wabash System, returned to that Co. and was located



at Fort Wayne, Ind., remaining until Mr. Hays called him to Canada in 1896, to become Superintendent of Motive Power of the G.T.R. During Mr. Morse's administration of the G.T.R., he of the mechanical affairs of the G.T.R., he **ue** mechanical attairs or the constructed his de-ner reorganized and reconstructed his de-Partment, so that no railway to-day has its **Machinery** maintained in a higher degree of efficiency than that of the G.T.R.

Marcus Smith, C.E., Ottawa, died there Aug. 14. aged 90 years. Born near Berwick- **n.Tweed**, on the Scottish border, in 1815, he **am** came to Canada in 1849, and up to 1853 was engaged on location and other work for the Great Western Ry, between Hamilton and Toronto, Sarnia, and between Hamilton and Toronto. Retween 1853 and 1868 he was engaged in rail. ailway construction work in Africa, and on ⁵⁴Way construction work in Antica, in his return to Canada was engaged on the constant Rv., and construction of the Intercolonial Ry., and **became** deputy to the Engineer-in-chief of the $\mathcal{C}_{\mathbf{p},\mathbf{R}}^{\text{ame}}$ deputy to the Engineer-in-construction $\mathcal{C}_{\mathbf{p},\mathbf{R}}^{\text{ame}}$, having special charge of the surveys to the Pacific **GP**, **R**, having special charge of the surveys for the line from Winnipeg to the Pacific coast. From 1886 to 1892 he was consulting Marcus Smith," says the Globe, "recalls the Drominant constition which this energetic the prominent position which this energetic and skilful engineer reached during his perod of Professional activity nearly thirty Years ago. As chief assistant to Sir Sand-ford b. ago. As chief assistant to fithe Interbrd Fleming in the conduct first of the Inter**tolonial** and afterwards of the Canadian **Pacia** and afterwards of the Canadian **Pacific** survey he rendered valuable service to the to the survey he rendered valuation of the source adoption. The route adoption. The route for a surgery and the surgery adoption in the source of the so beected by the Mackenzie Government in 1876 for the Canadian Pacific was largely aband **build** for the Canadian Pacine was used to build by the company formed in 1881 to build done by the company formed in 1881 to build done by Mr. build the line, but the work done by Mr. S_{mith}^{and} the line, but the work done of the plains, the c and his field assistants on the plains must now the foothills and the mountains must now become the basis of the location work on the National Railway." the National Transcontinental Railway.

T. S. Rubidge, who was for many years chief engineer of the St. Lawrence canal system and the state recently, was an system; and who died recently, was an ydraulic engineer of international reputation. gorn at Oxford, Eng., he came to Canada as lad A lad, and was brought up by an uncle, a Heired naval officer, at Peterborough, Ont. the commenced engineering work at an early age, for the canal at Iroquois, Ont., his record since the canal at Iroquois on engineering staff Williamsburg Canals, and resident engineering staff that date being : 1841-48, on engineering staff through the staff Grand the state of the s Trunk Ry, in charge of surveys and contruction between Cornwall and Prescott; Book between Cornwall and Prescott; 1860.63, engineering staff Board of Works in charge of gineering staff Board of Works in Onthere of harbor and other surveys in Onand constant of harbor and other surveys and constant of harbor and other surveys and constant of the surveys and and construction in New Brunswick and Nova Scotia kootia : 1872-82, St. Lawrence Canals, enation 1 all Representation in the second sec Tation, Lake St. Francis to Kingston; 1881superintending engineer in charge of the Canal surveys and construction; Trent Rence 04; superintending engineer St. Lawtence Canals, for 14-foot navigation, includ-ing internals, for 14-foot navigation, includby Canals, for 14-foot navigation, defined telined Chief Engineer of Canals and position of Chief Engineer of Canals, and at a subsequent date a position Sonsulting Engineer for the Panama Rated that he would be appointed Consulting Ne that he would be appointed Conservation of the projected new barge canal New York State.

C. E. Slayton, who has been appointed **Master** Mechanic, Algoma Central and Hud-in Bay D. Andrew Marie, Ont., was born on Bay Ry, Sault Ste, Marie, Ont., was born Willowett Sault Ste, Marie, Ont., and enwight Ray Ry, Sault Ste. Marie, Ont., was to the it Will Ry, Sault Ste. Marie, Ont., was to the freidugshby, Ohio, Jan. 31, 1851, and en-freinan duction of the lowa as the lowa of the lowa teman during the construction of the lowa Pails and Sioux City Rd. (now part of the ionis Canada in Ulinois Central Rd.), and came to Canada in Rel, since the Rd. (now part of the Rd.), and came to Canada in the since the Rd.), and came to Canada in May, since the Rd.), and the Rd. (Now part of the Rd.), and the Rd.), and the Rd. (Now part of the Rd.), and the Rd. (Now part of the Rd.), and the Rd.), and the Rd. (Now part of the Rd.), and the Rd.), and the Rd. (Now part of the Rd.), and the Rd.), and the Rd. (Now part of the Rd.), and the Rd.), and the Rd. (Now part of the Rd.), and the Rd.), and the Rd. (Now part of the Rd.), and the Rd.), and the Rd. (Now part of the Rd.), and the Rd.), and the Rd. (Now part of the Rd.), and the Rd.), and the Rd. (Now part of the Rd.), and the Rd.), and the Rd. (Now part of the Rd.), and the Rd.), and the Rd.), and the Rd. (Now part of the Rd.), and the Rd.), and the Rd. (Now part of the Rd.), and the Rd.), and the Rd. (Now part of the Rd.), and the Rd.), and the Rd. (Now part of the Rd.), and the Rd.), and the Rd. (Now part of the Rd.), and the Rd.), and the Rd. (Now part of the Rd.), and the Rd.), and the Rd. (Now part of the Rd.), and the Rd.), and the Rd. (Now part of the Rd.), and the Rd.), and the Rd.), and the Rd.), and the Rd. (Now part of the Rd.), and the Rd.), and the Rd. (Now part of the Rd.), and the Rd.), 1881, since which his record has been: May, 1891, to Oct., 1883, locomotive engineer and Machouse Control of the standon, Man; Oct., 1883, 10co.... Man; Oct., 1883, to June, 1886, locomotive undhouse foreman, C.P.R., at Brandon, 10, Oct 100 1886 locomotive

engineer, Burlington, Cedar Rapids and Northern Ry., Grand Rapids, Iowa; June, 1896, to Nov., 1896, same position, Minnesota and North-Western Ry. at St. Paul, Minn.; Nov. 1886, to Sept., 1887, roundhouse fore-man same road, at Elma, Iowa; Sept., 1887, to July, 1888, Assistant Master Mechanic, same road, at Des Moines, Iowa; July, 1888, to Sept., 1889, locomotive engineer, same road; Sept., 1889, to Jan., 1893, travelling engineer Chicago Great Western Rd ; Jan., 1893, to Dec., 1899, Assistant Master Mechanic and Division Master Mechanic, same road; Dec., 1899, to May, 1901, Master Mechanic Virginia and South-Western Ry., Bristol, Tenn.; Oct., 1900, to May, 1901, also Master Mechanic Virginia Iron, Coal and Coke Co.; May, 1901, to Dec., 1903, Mechanical Superintendent, Transportation and Collieries, Dominion Coal Co., Sydney and Glace Bay Ry., and Black Diamond Steamship Co., Glace Bay, N.S.; Dec., 1903, to July, 1904, out of service.

TRANSPORTATION APPOINTMENTS.

Algoma Central and Hudson Bay Ry .---Charles A. Shields has been appointed Superintendent of the Michipicoten branch, succeeding P. Robinson, transferred.

Algoma Central Steamship Line, C. E. Slayton, Master Mechanic of the Algoma Central and Hudson Bay Ry., and of the Algoma Iron Works, has also been appointed to have charge of the repairs and machinery of the A.C.S. Line.

Canadian Northern Ry. J. H. Scott, formerly Chief Despatcher C.P.R. at Cranbrook, B.C., has been appointed Chief Dis-patcher, District 1, C.N.R., at Port Arthur, Ont., succeeding A. Wilcox, promoted.

W. Woods has been appointed chief clerk to A. Wilcox, Superintendent district 2, Winnipeg.

J. McKinnon has been appointed chief clerk to J. W. Dawsey, Superintendent dis-trict 3 at Dauphin, Man.

J. R. Cameron has been appointed Assistant Superintendent of lines from Kamsack west, reporting direct to the Manager. Office, Kamsack, Assa.

Canadian Pacific Ry.-F. M. B. Fairbairn, heretofore resident engineer, 4th district, Ottawa, has been appointed Assistant Engineer Maintenance of Way. Office, Montreal.

C. H. Bowers has been appointed Assistant Master Car Builder, lines east of Port Arthur, Ont. Office, Montreal.

H. Osborne, heretofore Master Mechanic, Delorimier Ave. shops, has been appointed Superintendent Angus shops, Montreal. The position of Master Mechanic, Delorimier Ave. shops, has been abolished.

J. W. Schleihauf has been appointed Fire Inspector, lines east of Port Arthur, Ont., succeeding Alex. Macdonald, deceased. Office, Montreal,

Dr. Scovil and Dr. Gunn of Rat Portage, Ont., have entered into a contract to furnish C.P.R. employes between Fort William, Ont., and Winnipeg, Man., and their families with medical attendance etc., at a uniform rate of \$1 per month per family, and such sum will be deducted from the monthly pay of each employe. The following assistant surgeons have been appointed: Dr. Stewart, Fort William, Ont.; Dr. Coke, Ignace, Ont.; Dr. Morehead, Winnipeg, Man.

F. Dillinger, heretofore Superintendent 3rd district, Central Division, has been appointed Superintendent 1st district, Central Division, succeeding A. Price, transferred. Office. Fort William, Ont.

A. Price, heretofore Superintendent 1st district, Central Division, has been appointed Superintendent of Transportation Western

Lines. He will report to General Superintendents on matters affecting their respective Divisions, and to the 2nd Vice-President on inter-divisional matters. He will distribute rolling stock as between grand divisions and, in consultation with the Assistant to the 2nd Vice-President, will distribute power between grand divisions. He will see that a uniform system of train despatching and train rules is followed on all western lines, will report to the 2nd Vice-President on staffs employed in connection with transportation, uniformity of discipline, engine performance, insufficient and imprompt train service, delays in the movement of cars, and on such other matters as the 2nd Vice-President may direct. The Assistant Superintendent of Car Service will report to him. Office, Winnipeg, Man.

P. McPherson has been appointed Assistant Right of Way and Lease Agent for Western Lines. Office, Winnipeg, Man. The Assistant Right of Way and Lease Agent at Winnipeg will deal with, and have charge of all right of way and station ground plans, and of the preparation of all deeds and leases of such property on Western Lines. In right of way matters he will report to the Assistant Chief Engineer, and on lease matters to the 2nd Vice-President. It will be his duty to see that all right of way plans, and all titles to right of way property acquired by the company are properly registered according to the laws of the various Provinces, and in this connection will receive advice from the company's Solicitor. He will prepare for approval of the 2nd Vice-President and see to the execution of all leases for elevator or warehouse, or other building sites on the company's property, license to cultivate right of way, for irrigation ditches, electric pole lines, and road or other easements, and for this purpose the General Superintendents and officers on the different divisions will communicate with him. He will forward to the Right of Way and Lease Agent at Montreal, all deeds and leases when approved of for execution by the company, and will report to him on all matters as required. He will see that full particulars of the company's title to right of way and station grounds are properly recorded on the right of way plans, and will furnish correct copies of such plans from time to time to the Right of Way and Lease Agent. He will be represented at Vancouver by a local Right of Way Agent who will perform similar duties with respect to the Pacific Division and report to the Winnipeg Office.

F. Lee, heretofore Assistant Engineer, Western Division, Calgary, has been appointed chief draughtsman to the Assistant Chief, Engineer, Winnipeg.

W. S. Edge, heretofore transit man in the engineer's office Winnipeg, has been appoint-ed Resident Engineer there, succeeding W. F. Laing, deceased.

The headquarters of C. J. Panser, Roadmaster for the Souris section, are at Winnipeg, Man., and not at Souris, Man., as previously stated.

J. J. Scully, heretofore Assistant Superin-tendent 3rd district, Central Division, has been appointed Superintendent 3rd district, Central Division. Office, Brandon, Man.

J. G. Taylor, formerly Superintendent and district, Western Division, has been appointed Assistant Superintendent, 3rd district, Central Division. Office, Brandon, Man.

T. R. Flett has been appointed Trainmaster, 1st district, Western Division. Office, Calga: y.

O. Irvine has been appointed yard master at Calgary, Alta.

Grand Trunk Ry.-F. G. Adams, heretofore Contracting Freight Agent, Montreal, has been appointed Travelling Freight Agent, at Montreal, succeeding J. Edwards, promoted.

THE RAILWAY AND SHIPPING WORLD.



J. D. George has been appointed Contracting Freight Agent at Montreal, succeeding F. G. Adams.

P. Brass, heretofore Assistant Master of Bridges and Buildings, London, has been appointed Master of Bridges and Buildings, Southern Division, succeeding J. resigned. Office, St. Thomas, Ont. Wilson.

The following agents have recently been installed: J. R. Hodgins, Longford, Ont.; W. H. Blair, Port Dalhousie, Ont.; W. H. Oliver, Belsay, Mich.

Intercolonial Ry.—It is reported that on the transfer of the Canada Eastern Ry. to the I.C.R., Newcastle will be made the headquarters of a new division, the new division to include the Canada Eastern line, and the I.C.R. between Newcastle and Moncton, at Present in charge of Supt. Evan Price.

Montreal Street Ry .-- N. Grayburn, heretofore Assistant Superintendent, has been appointed Master Mechanic. He will be in charge of the mechanical and winding shops of the company, excepting the carpenter and Paint shops, and will have general supervision over the repairs to cars and equipment.

D. B. Blair has been appointed Superin-tendent of Rolling Stock. He will be in charge of all repairs to cars and equipments; the repair shops at Hochelaga, St. Denis St., St. Henri, and Cote St.

Pore Marquette Rd.-R. Harding, heretofore Vice-President and General Manager, Missouri Pacific Rd., has been elected President of the P.M.Rd., succeeding F. H. Prince, resigned.

The office of T. Marshall, General Agent, Buffalo Division, Pere Marquette Rd., has been removed from Walkerville to London, On:

Sydney and Glace Bay Ry.—A. N. McLennan, at one time Superintendent Sydney and Louisburg Ry., etc., has been appointed Manager, S. and G.B.Ry.

Temiskaming and Northern Ontario Ry. Commission—H. W. Pearson, heretofore Accountant to the Commission, is acting as Secretary-Treasurer, pending the appoint-ment of a successor to P. E. Ryan, appointed Secretary-Commission and the secretary secretary appointed secretary to the Commission, having charge of the construction of the National Trans-Continental Ry.

Tarbine Steamship Co.-G. D. Ellis, Man-ager, has resigned and J. Moody, President, has taken over the duties of Manager. Office, Hamilton, Ont.

Canadian Northern Ry. Construction.

Roundhouse Points. The regular divisional roundhouse and repair shop points on the Canadian Northern Ry. are situated at Port Anti-Port Arthur, Atikokan, Rainy River, Ont.; Winn: Winnipeg, Dauphin, Brandon, Man., and two Ban stall engine houses at Emerson, Man., and Erwandbouse is in Erwood, Sask. A regular roundhouse is in Sawood, Sask. A regular roundnouse is in process of erection at Kamsack, and during the year another will be built at Melfort, Sask. The divisional points are: Port Arthur, Atikokan, Rainy River, Ont.; Winni-peg, Dauphin Brandon Emerson, Learys, Peg, Dauphin, Brandon, Emerson, Learys, Delta, Oak Point, Belmont, Hartney, Swan Sask, Man.; Kamsack, Assa.; Erwood,

Winnipeg Terminals.---We are informed that the time for accepting the proposition with made by the city council in connection with the rearrangement of the terminals, including the rearrangement of the terminate, the construction of an hotel, has not expired, and and construction of an hotel, has not express, impossible to say anything as to what will be done. At the visit of the Board of Railway Commission Winning Hon. A. G. Commissioners to Winnipeg, Hon. A. G. Blair expressed the opinion that the C.P.R. and the Canadian Northern Ry, should get together and arrange for the construction of a Union Station, on such terms as would

enable the G. T. Pacific Ry. and any other railway to come in at a future time.

Grand View to Edmonton.-- A temporary bridge has been erected over the Saskatchewan river at Clark's Crossing, Assa., for construction purposes, pending the completion of the permanent bridge. Another temporary bridge has been built over the North Saskatchewan river at the Big Bend, and the line will cross the river again six miles west of Battleford. Grading gangs are at work all along this stretch, and gangs are also employed west of Battleford through Lloydminster, Sask. It is expected if the fall remains open to have the grade completed to within about 100 miles of Edmonton, before work is suspended. Contract has been let for the steel superstructure of a bridge for the second crossing of the Saskatchewan river, at a point northwest of Battleford, Sask. The bridge will consist of eleven spans, approximately 1,870 feet in length, excluding the approaches. The weight of the steel entering into the structure will be 1,750 tons. The contract has been given to the Canada Foundry Co., Toronto. (Aug., pg. 283.)

Mackenzie, Mann & Co.'s Offices.

The building on the north side of King St. E., at the corner of Toronto St., east side, is now occupied by the Canadian Northern Ry., Mackenzie, Mann & Co., and a number of companies closely allied with the C.N.Ry. The first section of the office to be occupied was the top flat, in which D. B. Hanna, Third Vice-President, and general staff of the C.N.Ry. have been located for a year, and the corner office on the ground floor occupied by the General Eastern Agent. When the other offices in the building were vacated the whole of the interior was rearranged and decorated on an elaborate scale. The rooms on the first floor are now occupied by Mackenzie, Mann & Co., whose offices have hitherto been located in the offices of the Toronto Ry. Chambers. The offices located on the first floor are: Accountants' Department; Resi-Secretary dent Engineer's Department; Canadian Northern Ry., etc.; General East-ern Agent, C.N.Ry.; second floor : offices of Mackenzie, Mann & Co. (Ltd.), with private offices of W. Mackenzie, D. D. Mann, L. Lukes, and the legal department. On the third floor in addition to the offices of the Third Vice-President C.N.Ry., there are the offices of the Treasurer C.N.Ry., and of the Halifax and South-Western Ry. and the James Bay Ry. In the office at the corner of King and Toronto Streets heretofore occupied by the General Eastern Agent, the C.N.Ry. Land Agent will be located. The other offices with street frontage have not all been completed, but very soon will be. One has been rented to the Standard Fuel Co. of which W. Mackenzie is President, the others are to be rented.

C.P.R. English Offices .-- The offices of the London Secretary and Registrar at 1 Queen Victoria Street, London, Eng., have been closed. New offices have been estab-lished in the C.P.R. building, 62 Charing Cross, Trafalgar Square, London, S.W. To avoid confusion with correspondence intended for other branches of the business carried on in the same building, it is requested that letters for the departments of the London Secretary and Registrar may be addressed accordingly, and not merely to the company. The change affects also the London offices of the following railway companies :-- Ontario & Quebec, Manitoba South-Western, New & Quebec, Manitoba South-Western, New Brunswick, Calgary & Edmonton, Minneapo-lis, St. Paul & Sault Ste. Marie, and the Canada North-West Land Co.

We are advised that there is no truth in the press reports recently current that it was the

intention of the American Locomotive Co. to remove its Cooke plant from Paterson, N.J., to Montreal.

A regular train service was inaugurated on the Lindsay, Bobcaygeon and Pontypool Ry., from Burketon, on the C.P.R. Toronto-Montreal line, to Bobcaygeon, Ont., Aug. 1. The line is being operated by the C.P.R., by which company it has been leased.

The C.P.R. exhibit at the Toronto Exhibition had as its main feature a pioneer's shack from the Rocky Mountains, and a pack train, as well as a party of Indians from Garden River. The whole was in charge of one of the company's guides from Field, B.C. The pack train made the circuit of the grounds daily, from the shack, while the Indians took visitors out for a paddle on the lake and caught fish.

The value of the estate of the late J. J. Long, of Collingwood, ex-President Northern Navigation Co., was declared for probate at \$486,849.06. It included \$2,500 in shares of the Northern Navigation Co., and \$1,400 in the City of Windsor, a steamer recently pur-chased at Owen Sound, to run between Georgian Bay ports in opposition to the N. N. Co. The General and Marine Hospital at Collingwood receives \$500, and \$25,000 is left for educational purposes of the Roman Catholic Church, about \$12,000 to charitable purposes, and the rest of the estate goes to relatives.

The last annual report of the Hudson's Bay Co. shows a profit on the year's trading to May 31, 1904, of £98,933 18s. 11d., the land sales bringing in $\pounds 280,614$ 195.5d. An interim dividend of 10s. a share will be paid in Jan., 1905. The present value of the company's shares is about four times their par value, and the share capital is to be further reduced by the repayment of £1 a share. These results have been brought about not only by the enormous growth of the Northwest, but by the careful and capable management of the Commissioner, C. C. Chipman, Winnipeg, and his staff. John Coles, one of the directors of the company, was recently presented with the freedom of the borough of Tiverton, Devon, in recognition of his many gifts to the town since 1887, the last of which was a por-trait of the late Archbishop Temple to Blundell's School, on the occasion of the celebra-tion of the 300th anniversary of its foundation, lune 20.

Grand Trunk Railway Company of Canada

NOTICE is hereby given that the ORDINARY GER-ERAL HALF-YEARLY MEETING of the Grand Irunk Railway Company of Canada will be held at the CITY TERMINUS HOTEL, Cannon Street, London, E.C., on Thursday, the 29th day of September, 1904, at 12 o'clock noon, precisely, for the purpose of receiving a Report from the Directors and for the transaction of other business of the Company.

the transaction of other business of the Company. NOTICE is also given that at such meeting a res-olution will be submitted for the approval of the proprietors authorising an agreement to be enter-ed into providing for the acquisition of the fran-chises, property, and assets of the Canada Atlan-tic Railway, and particularly for a guarantee by the Company of the principal and interest on the bonds proposed to be issued by the Canada Atlan-tic Railway Company, and also authorising an application to the Parliament of Canada for the legislation required to make such agreement effect-ive, and ratifying the same.

NOTICE is also given that the Transfer Books of the Company for all Stocks except the PERPRIVAL FOUR PERCENT. CONSOLIDATED DEBENTURE STOCK will be closed from Monday, the 3th day of Sep-tember, to the day of Meeting, both days inclusive, and for the PERPRIVAL FOUR PERCENT. CONSOLI-DATED DEENTURE STOCK from Tuesday, the 20th September, to Thursday, the 13th October, 1904, both days inclusive. By order

By order,

C. RIVERS WILSON, President. H. H. NORMAN, Secretary.

Dashwood House, 9 New Broad Street, London, E.C., 26th August, 1904.



ADDRESS ALL CORRESPONDENCE TO OFFICE OF GENERAL MANAGER, TORONTO.

C.P.R. Earnings, Expenses, Etc.

Gross earnings, working expenses, net profits, in-creases or decreases over 1902-03, from July 1, 1903:-

Increase or Earnings. Expenses, Net Profits, Decrease. J'ly \$4,398,833.95\$2,949,181.81 \$1,449,652.14 \$131,125.02+

Approximate earnings for Aug.: \$4,394,000, against \$3,994,000 for Aug., 1903. Mileage increased to 8,339 in third week, and to 8,371 in the fourth week of the month.

DULUTH, SOUTH SHORE AND ATLANTIC RY.-Gross earnings for June. 2228.274.76; net earnings, \$74,705.17, against \$273,003.57 gross and \$113,009.05 net for June, 1903. Net earnings for twelve months ended June 30, \$774,155.95 against \$1.014,044.03 for same period 1002-03. Approximate earnings for July, \$235,761, against \$257,-to for July, 1903.

MINERAL RANGE RY. - Approximate earnings for July, \$56,134, against \$48,727 for July, 1903.

MINNEAPOLIS, ST. PAUL AND SAULT STE. MARIE M_{10} -Gross earnings for June, \$051,\$28,707; net earnings \$17,307,80, against \$028,\$377,307,80, against \$028,\$377,307,80, against \$028,\$377,377,80, against \$028,\$377,377,80, against \$028,\$377,372,80, against \$028,\$377,374,372,

Canadian Pacific Railway Land Sales.

			_	
		cres.	ount.	
July	1904-05 36,425.75 . 15,669,90	1903-04 267,647.32 263,339.45	1904-05 \$177.473.94 88,735.88	1903-04 \$1,020,404.70 1,217,529,81
	52,095.65	530,986.77	\$206,209.82	\$2,237,934.57

^{Qra}nd Trunk Ry. Earnings, Expenses, &c.

The following statement of earnings, supplied from Montreal office, includes the G.T. of Canada, the

DETROIT, GRAND HAVEN & MILWAUKEE RY. CO. Revenue for July: 1903. Increase. Decrease. £20,200 £6,500 1004 Gross receipts £26,700 Working expenses 19,000 15,000 4.000 . . .

Net profit ... £7,700 £5,200 £2,500 TRAFFIC RECEIPTS OF THE SYSTEM. Aggregate July :

_	1904.	1903.	Increase.	Decrease.
Grand Trunk.		£544.068		£26,577
G. T. Western	74,878	91,711		16,833
D. G. H. & M.	26,771	20,237	£6,534	••••
Total	£619,140	£656,016		£36,876

Railway Equipment Notes.

The Pere Marquette Rd. has placed a number of new cars on its leased line, the London and Port Stanley Ry.

The Peterborough Radial Ry. has added a number of new cars to its equipment, fitted with Canadian General Electric Co.'s motors, for the re-opening of the old Peterborough and Ashburnham Ry.

The Minneapolis, St. Paul and Sault Ste. Marie Ry. has decided to adopt acetylene gas as an illuminant on its cars. The system to be adopted is the same which has been adopted on the C.P.R.

In addition to the amounts voted for equipment for the Intercolonial Ry. at the last session of the Dominion Parliament published in our Aug. issue, a sum of \$1,000,000 has been voted, of which \$519,000 is a re-vote.

We were advised Aug. 16 that it was not then contemplated to add observation cars to the equipment of the Ocean Limited run by

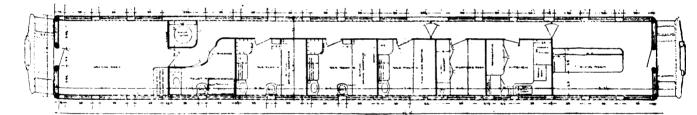
from its Farnham, Que., shops; and two steam shovels from the U.S.

The Michigan Central Rd. recently added to its equipment in Canada 20 merchandise cars, 80,000 lbs. capacity, and two low flat cars, 40,000 lbs. capacity, built at its St. Thomas, Ont., shops in June; and six merchandise cars, 80,000 lbs. capacity, built at its St. Thomas shops in July. No additional orders have been placed, and the company does not contemplate placing any further orders at present.

The Canadian Northern Ry. has adopted acetylene gas as an illuminant for its passen-ger cars. The system adopted is an improved storage one, and is reported to be giving every satisfaction. The lighting has been installed on a combined cafe car and coach, six coaches and three baggage and mail cars, recently delivered; on two official cars, and is being installed on six coaches and three baggage cars now under construction.

The Intercolonial Ry. placed orders for the following additional equipment between June 1 and Aug. 22: 12 passenger locomotives, Pacific type, three small switching locomotives, and 10 consolidation freight locomotives, with the Canadian Locomotive Co., Kingston, Ont.; a private car for the Gover-nor-General, from Rhodes, Curry & Co., Amherst, N.S., and six standard sleeping cars, 10 sections and two drawing rooms, in the U.S.

The Intercolonial Ry. added to its equipment between June 1 and Aug. 22: six firstclass vestibule day coaches, 175 platform cars, 60,000 lbs. capacity; 100 box cars, 60,-000 lbs. capacity, and eight 4-wheeled hopper



FLOOR PLAN OF CAR FOR GOVERNOR-GENERAL, BEING BUILT BY RHODES, CURRY AND CO., AMHERST, N.S.

Waukee Ry	ern, and the	Detroit, G	rand Hav	en & Mil-
July. Aug.	1904. \$3,013,149 3,108,137	1903. \$3,192,608 3,201,511		Decrease, \$179,459 93,374
	\$694	\$6,394,119		\$272,833

office: tollowing are supplied from the London, Eng.,

Subject to audit, the accounts for the half-year to June Gross received

Working expenses.	£2	,559,300 ,895,600
the revenue charges for the half year less	£	662 -00
Balance		519,700
Undition The second sec	P .	144.000

tee Ry. deficiency for the half-year. Surplus 19,400 £ 124,600

This surplus of £124,600 added to the balance of £2,700 and for dividend, makes a total amount of £127,300 avail-dividend, which will admit of the payment of the leaving a balance of about £4,300 to be carried forward. Year ended June 30. rood, show a surplus sufficient to provide June 30. rood, show a surplus sufficient to Thi. ded June 30, 1904, show a surplus sufficient to for the interest on the First Mortgage Bonds, and leave a balance of about $\pounds_{2,700}$.

GRAND TRUNK RY. CO.

Revenue for July:

e -

Gross real	1904.	1903.	Increase	. Decrease.
Gross receipts Working expense Net pre C	£517,500 \$ 354,000	£544,00 380,00	~	£26,500 26,000
Net profit	£163.500	£ 164,00		£500
Revenue	TRUNK	WESTER	IN RY.	co.
Green receipts Working expises	1904.	1903.	Increase	. Decrease.
King explan	\$74,900	£91,700 81,100		£16,800
Net	74.400	81,100	••••	6,700
Net profit	£ 500	£10,600		£10,100

the Intercol	onial Ky.	between I	Montre	al, Que.,
and Halifax	:, N.S., a	s stated in	n press	reports.

.

The C.P.R. placed the following orders for equipment between July 14 and Aug. 12: three switching engines at its Angus shops, and two steam shovels (delivered) in the U.S. The company is not at present in the market for any additional rolling stock.

The G.T.R. added to its equipment between June 11 and Aug. 18: five 10-wheel passenger locomotives, 25 oil tank cars, six ist class cars, three combination baggage and passenger cars, four cafe parlor cars, two dining cars and 10 baggage cars.

The American Locomotive Co. has issued an illustrated booklet descriptive of its exhibit at the St. Louis exhibition. The exhibit includes twelve locomotives, of which onethe four cylinder articulated compound for the Baltimore and Ohio Rd.-was described in our July issue.

The Simplex Railway Appliance Co. has acquired 40 acres of land lying between the G.T.R. tracks and the Lachine canal, Montreal, upon which it is proposed to build a factory and warehouse. The company at present occupies a leased plant on St. James St., St. Henri, which is not sufficiently large for its requirements.

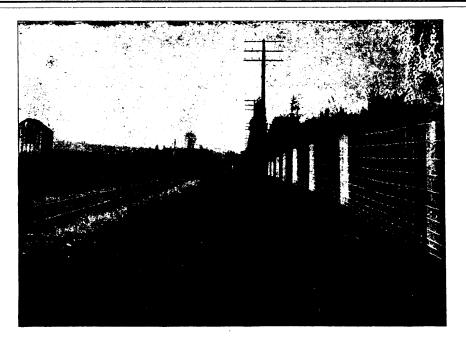
The C.P.R. added to its equipment be-tween June 14 and Aug. 12: six switching locomotives, from its Delorimier Ave. shops; two dining cars and three mail and express cars from its Hochelaga shops; 27 baggage cars from its Hochelaga and Angus shops; 40 box cars from its Perth, Ont., shops; 13 vans

cars, 30,000 lbs. capacity, from Rhodes, Curry & Co., Amherst, N.S.; seven second-class sleeping cars, built in Canada; five 10-wheel passenger locomotives and two switchers from the Canadian Locomotive Co., Kingston, Ont.

The Canada Car Co. (Ltd.) has been incorporated under the Dominion Campanies' Act, with a capital of \$3,000,000 to manufacture railway cars, passenger, freight and street cars, steel trucks, bolsters, truck frames and other products of iron and steel entering into the construction of railway cars. The head offices are at Montreal, and the provisional directors are : P. Davidson, P. M. Robertson, of Montreal; A. H. Larkin, of New York city.

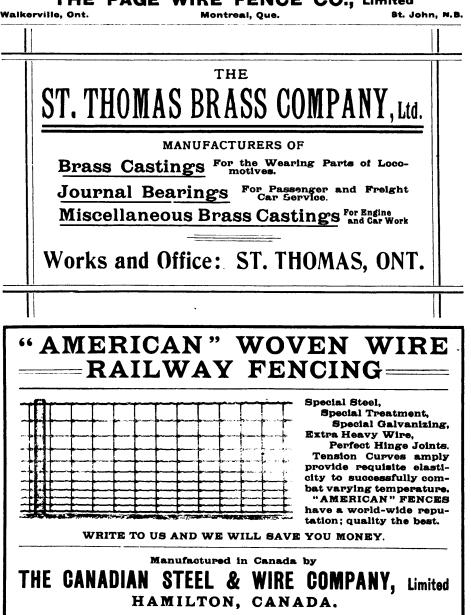
The private car which has been purchased by the Board of Railway Commissioners is 72 ft. 6 in. long, and 9 ft. 8 in. wide over sills. The internal arrangement of the car shows from front to rear: observation room 9 ft. long finished with English oak, and provided with a sofa 4 ft. wide, arranged to make a bed; private room, vermillion finish, 6 ft. 3 in.; private room, mahogany finish, 6 ft. 3 in.; private room, maple finish, 9 ft. 6 in.; these three rooms open off a corridor 22 in. wide; dining room, vermillion finish, 13 ft.; two sections 6 ft. 2 in.; toilet and bathroom; section for servants, and kitchen.

The Intercolonial Ry. on June 30, 1903 had 14 cars lighted by the Pintsch gas, and during the year ended June 30, 1904, the apparatus was installed on six additional cars. An appropriation was voted for the installation of the apparatus on four more cars during the current financial year, and the Minister



Page Wire Fences fence in the best railroads in Canada, because Page Fences Wear Best.

THE PAGE WIRE FENCE CO., Limited





MANITOBA

There are now daily arriving in this province numbers of young men from Eastern Canada and Great Britain who desire employment on Farms. Many of these are experienced farm hands and others are anxious to learn.

ALL SUCH ARE ADVISED

on arrival in Winnipeg to call upon the undersigned when all possible assist-ance will be given WITHOUT CHARGE in securing employment at farm work. A register is kept of farmers wanting men and of men wanting employment. This is a GOVERNMENT AGENCY and no charge of any kind is made for its services.

J. J. GOLDEN, Provincial Government Immigration Agent 617 MAIN ST., - - WINNLPEG



of Railways said it was intended to provide for the lighting of two additional cars with the same lighting of two additional cars with the lighting of two additional control the system at a later date. In reply to quess, the Minister said a system of electric is the Minister said a system of the seminment found to be too expensive and the equipment was a goo. The Was removed five or six years ago. The imes the cost of the Pintsch gas, and the cost of the gas was about double that of oil, which was the imminist generally in use. The was the illuminant generally in use. tost of equipping one car with the Pintsch Waten was about \$800.

The car for the Governor-General, an order the which has been placed with Rhodes, the Alac Co., Amherst, N.S., will be named He Alexandra. It will be 79 ft. 6 in. over Patform. Alexandra. At will be 79 ft. 6 in. over patforms, and 9 ft. 8 in. wide over sills. At ^{14 front} s, and 9 ft. 8 in. wide over Suid. ^{14 front} end will be the dining room, 12 ft. ¹⁷ ^{front} end will be the dining room, ²⁴ in, long, behind which will be the kitchen, ¹⁰ front. Then come botter's room and linen closet. Then come hee bedrooms, two 12 ft. long, and one 10 6 in, long; this latter will be fitted with two **b**ted berths, while the two larger ones will be the state of the stat but berths, while the two larger of the single brass bedsteads. Adjoining bed-nom A tribut room, comhom A will be a bath and toilet room, com-A will be a bath and toilet room, com-and ment for baggage, and in the corridor a pecial heater. A drawing room 13 ft 1 in. in Car. The car will be finished within and without in methometry and will be lighted by Without in mahogany, and will be lighted by ectricity generated from the axles. The is expected to be ready in Dec. A sum of \$17,000 was voted at the last session of be Dominic Different for the construction of the car.

The Brain elevator at Cartwright,

Arcola-Regina line of the C.P.R., re-

en Ry.

supplementary charter to aid by way of loan, guarantee of bonds or otherwise other similar companies.

The Empire Elevator Co. (Ltd.) has been given a license to carry on business in Ontario as an extra-provincial company. Z. A. Lash, K.C., Toronto, has been named its attorney.

The new elevator at Montreal was formally opened for business Aug. 1. Tests were made during July, and the scales, etc., passed. Some strengthening of the interspace bins is to be done at an estimated cost of \$2,500.

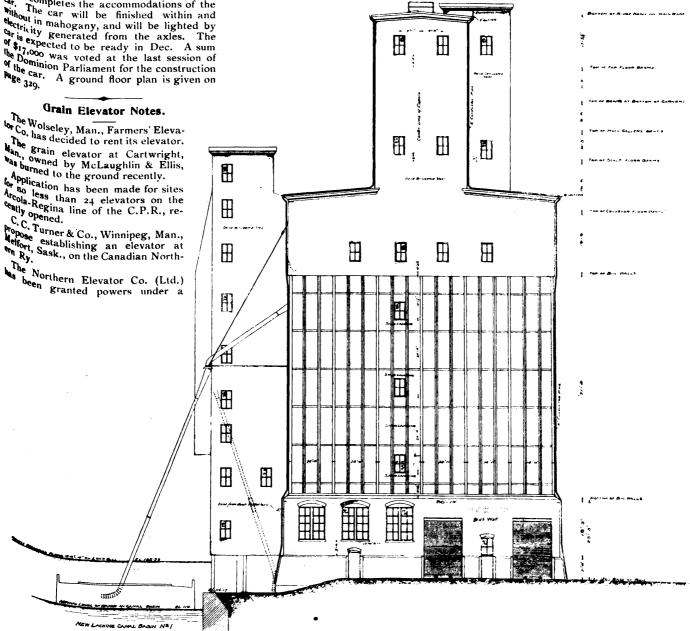
The Alexander Brown Milling and Elevator Co. (Ltd.) has been licensed to do business in Manitoba under the Foreign Corporations' Act, and H. J. J. Smith, whose offices are at Portage la Prairie, has been appointed its manager and attorney.

Application has been filed for a charter for the proposed new elevator company at Collingwood, Ont. J. J. Daly is the president of the provisional organization, P. Paton being secretary, and the other directors include F. W. Churchill, C. E. Stephens and W. T. Toner. The proposed capital is \$250,000.

The Zenith Grain Co. (Ltd.) has been incorporated under the Dominion Companies' Act, with a capital of \$25,000 to carry on a general elevator business. W. Ames, W. Ames, jr.; J. H. Barnes, H. T. Swart, of Duluth, Ont.; J. H. Munson, E. F. Haffner, of Winnipeg, are the provisional directors, and the offices are at Winnipeg, Man.

The R. W. Oliver Milling Co. (Ltd.) has been incorporated under the Dominion Companies' Act, with a capital of \$100,000 to acquire the business carried on by R. W. Oliver under the name of R. W. Oliver Mill-ing Co., at Montreal, with power among other things to construct elevators. The provisional directors are: R. W. Oliver, J. Ronald, W. J. Henderson, G. W. Macdougall, L. Macfarlane, of Montreal, and the offices are in that city.

We are advised that the Canadian Northern Ry. is not about to erect a 500,000 bush. cleaning and drying elevator at Port Arthur, Ont., as stated in the daily press and other papers. The company is, however, installing



G.T.R. WINDMILL POINT, MONTREAL, ELEVATOR, SOUTH ELEVATION. FOR DESCRIPTION SEE AUG. ISSUE PG. 291.

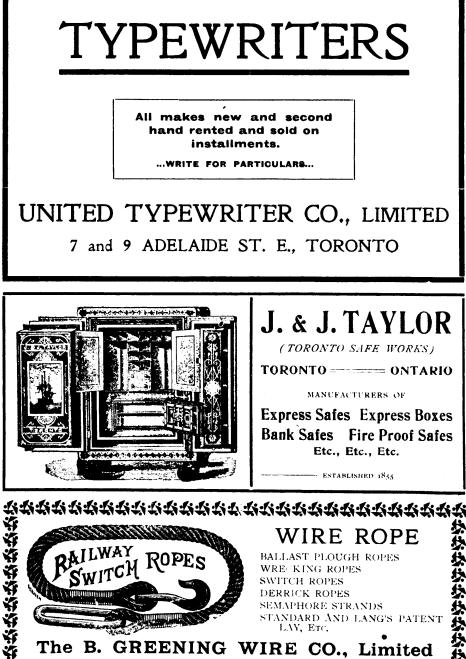


for Turning Locomotive Car Wheels,

Speed 20 to 40 feet per minute. Tools hardened by heating white hot and

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cleaning machinery at its new elevator, recently completed at Port Arthur, and is con-structing a dry house. The new building will be Will be constructed of fireproof brick on a pile and concrete foundation, and will be located between the elevator and power house. It will be 18 by 27 ft. on the ground and 47 ft. in height, and will be equipped with a complete grain-drying outfit.

SHIPPING MATTERS.

Marine and Navigation Votes.

The Dominion Parliament voted the following amounts on different accounts, at the last session for services connected with the marine interests of the country, in addition to the vide include repairs to existing wharves, piers and other structures, the completion of Works for deepening and improving harbors and navigable channels, new work at many Points at ocean and freshwater ports, and additional facilities for the canals:

A sil subsidies and steamship subventions. Silesthouse and coast service, including main-tenance and new construction, additional Marconi stations, etc. Solutional Marconi stations, etc. Solution of piers, repairs to wharves, etc. Solution of piers, repairs to wharves, etc. Solution of piers, repairs to wharves, etc. Solution of piers, reconstruction of piers, repairs to wharves, etc. Solution of piers, reconstruction of piers, repairs to wharves, etc. Solution, econstruction of piers, repairs to wharves, etc. Solution, econstruction of piers, repairs to wharves, etc. Solution, econstruction of piers, repairs to wharves, etc. Solution, reconstruction of piers, repairs to wharves, etc. Solution, solution of piers, repairs to wharves, etc. Solution, reconstruction of piers, repairs, and Yukon River improvements. Solution and rivers generally. Solution is solution and river sequences and river sequences and river sequences. Solution is an every sequence, dredging plant. Solution is a solution of piers, repairs is new flat, and redging plant. Solution is and solution solution with the solution of solution is a solut Mail subsidies and steamship subventions. Lighthouse and coast service, including main \$ 500,193 468 000 78.100 96,566 425,000 100,125 255,063 518,729 26,000 1,084,920 937,305 39.600 12,000 114,300 12,000 80,000 470,400 60,000 68,000 128,000 64,000 54,000 4,000

 Autor
 area dredging

 Quebc and Ontario, dredging
 anew dredges

 Anitoba, dredging
 new plant

 "repairs to plant
 new tow boat and snag boat

 British Columbia, dredging
 '' repairs to plant

 "'' repairs to plant
 '' repairs to plant

 "'' repairs to plant
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 "'' repairs to plant
 '' repairs to plant

 "'' repairs to suction dredge J. I.
 '' Tarte

 Autor
 '' Vallevfield

 60,000 131,000 16,000 4,000 16,400 108,000 4,000 36,800 65,000 15,000 Letc. Chambly Canal, new work and improvements. Chambly Canal, new work and improvements. Comwall Canal, new work and improvements. Second 9,166 21,885 110,200 9,500 18,000 153,100 40,000 271.441 850 1,500 69,000 116 6,500 1,600 1,500 67,650 ments and further surveys and construc-ling and further surveys and construcwetts and further surveys and wetter Welland Canal, improvements, new work, clc-wator at Port Colhorne, repairs, etc. Williamsburg Canal, providing gate lifter 352,900

800.370

10.000

List of Canadian Shipping.

The Department of Marine has issued the list of vessels remaining on the registry books of the Dominion corrected to Dec 31, 1903.

The total number of vessels remaining on the register books, including old and new vessels, sailing vessels, steamers and barges, was 7,020, measuring 683,147 tons register tonnage, being an increase of 184 vessels, and an increase of 30,534 tons register, as compared with 1902. The number of steamers on the registry books on the same date was 2,419, with a gross tonnage of 338,251 tons. Assuming the average value to be \$30 per ton, the value of the registered tonnage of Canada on Dec. 31 last would be \$20,494,-110, against \$19,578,390 on same date 1902. Following is a summary showing the number of vessels and their tonnage by provinces: -

	Sailing ships and steam- ers.	Steam- ers.	Gross tonnage steamers.	Net tonnage of sailing ships and steamers.
New Brunswick.	929	1 36	10,523	59,508
Nova Scotia	2,069	136 184	22,418	216,053
Quebec	1,288	373	82,875	138,570
Ontario	1,778	1,199	141,801	169.086
P. E. Island	164	17	2.375	13.739
British Columbia	639	391	67,620	76.215
Manitoba	139	97	7,263	7.695
Yukon District	14	13	3,376	2,281
Grand Total.	7,020	2,410	338,251	683,147

There are 77 ports of registry in the Do-minion, an increase of two in the year, distributed as follows: Ontario, 38; Nova Scotia, 21; New Brunswick, 7; Quebec, 5; British Columbia, 3; Prince Edward Island, Mani-toba, and Yukon Territory, one each. The two ports added during the year are Fort William and Midland, Ont. Since these returns were made up the registry office at Port Rowan, Ont., has been closed and the records transferred to Simcoe, where the collector's office is situated. Quebec city still retains its position as the port where the greatest number of vessels are registered, the number being 640 against 654 in 1902, while Montreal has the largest tonnage, 94,526, against 91,-347 in 1902. Toronto has the largest number of steamers on her registry, 255, against 240 in 1902; Montreal comes second with 217 steamers, and Ottawa third with 204; the tonnage of the 217 Montreal steamers being nearly double that of the 205 at Toronto.

The number of new vessels built and registered in the Dominion during the year was 328, measuring 30,323 tons register tonnage. Estimating the value of the new tonnage at \$45 per ton, it gives a total value of \$1,364,-535 for new vessels. The new vessels were built and registered as follows:

	Vessels.	Tons.
New Brunswick	24	1,708
Nova Scotia	135	12,007
Quebec	31	1,076
Ontario	71	10,710
Prince Edward Island	6	171
British Columbia	56	3.491
Manitoba	Nil.	248 Nil.
Yukon District	Nil.	Níl.
Total	328	30,323

A table is also given showing that during 1902 the names of 19 vessels were changed at 11 ports.

In point of ownership of net tonnage Canada stands eighth among the nations, those having over 100,000 tons being as follows:

British, including Canada and the colonies.	
United States	2,600,04
German	2,254,30
Norwegian	1,352,72

French	1,156,170
Italian	977,515
Russian	919,864
Canadian	683,147
Swedish	600,208
Spanish	548, 199
Japanese	523,389
Dutch	493,506
Danish	427.472
Grecian	374.409
Austrian	370,222
Turkish	240,638
Brazilian	157,106
Belgian	108, 553

Notices to Mariners.

The Dominion Department of Marine has issued the following notices to mariners:

No. 57. July 20.-New Brunswick-155. Chaleur bay, Shippigan flat, buoy.

No. 58. July 23.—Quebec—157. River St. Lawrence, Traverse of St. Roch, lower end, light and fog alarm established.

No. 59. July 26.—British Columbia—158. Howe Sound, shoal channel, beacon off Gibson's landing rebuilt. 159. Grenville channel, western entrance, Watson rock, beacon rebuilt.

No. 60. July 26.—Quebec—163. River St. Lawrence, Traverse of St. Roch, lightship discontinued.

No. 61. July 27.-Quebec-164. River St. Lawrence, ship channel between Quebec and Montreal, Contrecœur traverse, change in position of range lights, new range light buildings.

No. 62. Aug. 6.-Quebec-165. Gulf of St. Lawrence, off east end of Anticosti, lightship.

No. 63. Aug. 6.-Ontario- 168. Detroit River, Amherstburg range lights, improvements in towers. 169. Detroit River, Fort Malden range lights, improvements of towers. 170. Lake Huron, east side, Stokes bay, range beacons replaced by lighthouses.

No. 64. Aug. 9.—Nova Scotia—171. West coast, St. Mary bay, Gilbert point, lighthouse established.

No. 65. Aug. 12.-British Columbia-Strait of Georgia, Nanoose harbor, shoal at entrance. 174. Strait of Georgia, Ballinac channel, unchartered rock. 175. Strait of Georgia, off the south Ballinac Island, unchartered shoal.

The following notices have been issued by the U.S. Hydrographic Department:

No. 30. July 23.—Lake Superior—1089. Duluth harbor entrance, electric lights established.

July 30.—Detroit River—1126. No. Fort Malden range lights, improvement of towers. 1127. Amherstburg range lights, improvement of towers.

No. 32. Aug. 6.-Lake Superior-1162. Michigan, Torch Lake, Torch Lake Canal Co., cut. Lake Erie-1167. Conneaut harbor improvements.

Maritime Provinces and Newfoundland.

Jas. A. McMillan, of Wood Island, P.E.I., has been appointed a Receiver of Wreck for P.E.I.

Jas. Hall, of Halifax, N.S., has been appointed a member of the Pilotage Commission for the district of Halifax.

The str. Brunswick was seriously damaged by fire at Parrsboro, N.S., Aug. 8, and is now undergoing repairs at that port.

The owners of the marine railway at North Sydney, N.S., are considering an estimate of \$6,000 to put the plant in good condition.

The Star Line has had the str. Queen reconstructed and she was placed on the river route as the Champlain early in August.

334



The Department of Public Works is having Constructed at New Glasgow, N.S., a steel bopper barge, 105 ft. long, 22 ft. beam and 9 ft. deep, as an addition to the dredging Pantin the Market Provinces. Mant in the Maritime Provinces.

A contract for the supply of 30 submarine signals has been given to the Boston Submarine Signal Co., such signals to be Placed of the Maritime Provinces placed off the coast of the Maritime Provinces and on the St. Lawrence river.

The differences between two bodies of have differences between two poures of Plant Steamship Co., have been settled by the retirement of the President and Treas-ter, and the President and Treas-Wer, and the election of A. W. Perry, Boston, Mass, as President and E. L. Wires of Boston as Treasurer.

The machinery for the new freight and pastenger steamer for the Mahone Bay-Halifax Wer steamer for the Mahone Day-112 the is being installed. The num was supported by the second secon brouth, the dimensions being: Length 92 ft.; headth 20 ft.; depth of hold 4 ft. 9 in. There a dealer in length. 7 ft. high, wide, in which accommodation is pro-Moded for 40 passengers.

The Bertram Engine Works Co., Toronto, build building the steel hull for a ferry for the St. John, N.B., city council. The steamer is the ft. long over all, 114 ft. long from stem to the ft. over wett, long over all, 114 ft. long from stem even post, 34 ft. moulded beam, 49 ft. over stards and 13 ft. deep. She will be built in the set of the East and Hudson Rivers at New York. When ready for ship-to transport to transport her to when it will take 20 cars to transport her to be john. She will have double propeller with accommod the will have double propeller with accommodation for passengers on guards and two open wagon roads, one on each side of the centre. The Phoenix Iron Works of St. John is building the engines and boilers will do the carpenter and joiner work.

Province of Quebec Shipping.

The Richelieu and Ontario Navigation the Safet Carolina has resumed her place on repairs at Levis. The injuries received by running the about were not so serious as ter running on a shoal were not so serious as Mere at first anticipated.

A contract has been awarded by the Dominion Government to the Interprovincial Navigation Government to the Service be-Navigation Co. for a steamship service be-Ween Gaspe ports, at \$12,500 a year for ten years, with an additional \$3,000 a year for a service in Dec. and Jan. each year.

The investigation into the circumstances the investigation into the circumstances thending the collision between the Black Riamond Line str. Cape Breton, and the Canada humble the latter was sunk, with Canada and Ontario Navigation Co.'s str. Canada by which the latter was sunk, with the loss by which the latter was sunk, with been concluded at Montreal. Capt. Salmon, Achance as assessors. The findings of the darine in due course. Aarine in due course.

The Dominion Coal Co. will be able to obsidemate in coal carrying fleet the Dominion Coal Co. will be able to the second derably increase its coal carrying fleet in the event of the ex-Anning into Montreal, in the event of the exbriment with ice-breaking steamers in the type and the breaking steame fiver and Sulf proving successful. A contract one steamer has been placed in Scotland, d the lamer has been placed in Scotland, the launch is expected to take place yin Caunch is expected to take place the launch is expected to take proceeding in Oct., and the Government will take being to the contract dely in Oct., and the Government will take dely in Oct., and the Government will take by on the Clyde, Nov. 10. The contract breaker \$272,500. The dimensions of the ice-breakth 41 ft There will be two sets of triplereadth 43 ft. There will be two sets of tripleexpansion engines.

The hull of the str. Canada sunk in the St. wrence, off Sorel, after collision with the found to be more A wrence, off Sorel, after collision with the cape Breton, has been found to be more house the strate of the strat hously injured than was at first anticipated. Work for the bull was let to Gag-The work of raising the hull was let to Gag-on and Borne Outpace. but the Richelieu and Freres, Quebec, but the Richelieu

and Ontario Navigation Co. was not satisfied with the way the work was being done, and took the matter out of the hands of the con-The contractors threatened to tractors. undo the work they had done, but were restrained by injunction, and have started an action for \$5,000 damages for breach of contract.

Ontario and the Great Lakes.

H. McInnes, Meaford, Ont., is having built at that point a 65 ft. tug for fishing purposes. A new 50 ft. tug for J. Lapointe, Spanish Station, Ont., is under construction at Goderich. Ont.

The Rainy River Navigation Co., of Rat Portage, Ont., has increased its capital from \$99,000 to \$150,000.

The Richelieu and Ontario Navigation Co. commenced running its steamers from Toronto on Sunday, July 24.

A site for a new fog horn at the False Ducks, near Kingston, Ont., has been selected by the Department of Marine.

I. T. Matthews has been elected Chairman of the Toronto Board of Harbor Commissioners for the unexpired term of the late A. B. Lee.

The str. Edna, Lurned at Parry Sound, has been temporarily repaired and will engage in the log towing business for the rest of the season.

The tender of Battle & Conlon, of Thorold, Ont., has been accepted by the Dominion Government for the construction of a breakwater at Goderich, Ont.

The Farrar Transportation Co. (Ltd.), of Collingwood, proposes to raise a further sum of \$140,000 to purchase a second steamer for the grain carrying business.

The Knapp roller boat, after five or six years' ineffectual rolling, is to be converted into a barge, and is now undergoing alterations at the yards of the Bertram Engine Works, Toronto.

The present season is reported to have been the dullest that has been experienced in marine circles for some years, and a number of steamers and barges have been laid up a good part of the season.

W. L. and W. W. Visger have been finally successful in their appeal to the highest court of New York State in reference to the action brought against them by the Thousand Islands Steamboat Co. to restrain them from using certain docks in the U.S. waters along the Thousand Islands.

Survey parties, under the direction of E. J. Walsh, Ottawa, are engaged making surveys of the Trent Valley Canal. G. L. Law, C.E., is in charge of the party working between Port Hope and Rice Lake; and - Hetherington is in charge of the second party which is working between Lake Simcoe and Georgian Bay.

The U.S. str. H. B. Tuttle was arrested at Amherstburg, Ont., to answer a claim for \$1,500 damages to a swing bridge on Manitoulin Island, owned by the Ontario Govern-The damage was done in 1902. The ment. steamer left Amherstburg on the following day without clearing and subsequently went to Cleveland, Ohio, where her owner resides. The owner says he bought the steamer at Goderich, Ont., in 1903 at a Marshall's sale free of all claims.

The project of the Montreal, Ottawa and Georgian Bay Canal, to which the Hon. J. I. Tarte gave considerable attention when Minister of Public Works, is again receiving the attention of the Government. Under Mr. Tarte's direction a general survey was made of the French River and Lake Nipissing portion of the projected route, and out of a grant

made by the Dominion Government, Hon. C. Hyman, acting Minister of Public Works, is arranging to have the proposed route from North Bay to Montreal surveyed. It is proposed to place nine parties in the field, and to complete the work during the winter.

There passed through the Canadian canal at Sault Ste. Marie, Ont., during July 561 vessels having a registered tonnage of 596,-721 tons against 650 vessels and 670, 553 tons for July, 1903, while the actual freight carried in July was 791,876 tons against 523,936 tons for July, 1903. The total number of vessels using the Canadian canal for the season was 1,366, and the freight carried was 1,432,875 tons against 2,330 vessels and 2,602,496 tons for same period 1903. During the season the U.S. and the Canadian canals carried 9,198,-203 tons of freight against 7,224,362 tons for the season of 1903 to July 31.

The Bertram Engine Works Co., Toronto, has practically completed the grain carrier Haddington, which it is expected will be placed in commission early in Sept. under the management of J. T. Matthews. The company has closed a contract with the Keewatin Lumbering and Manufacturing Co., Keewatin, Ont., for a tug, having the following dimensions : Length over all, 95 ft., being 86 ft. from stem to stern post ; 19 ft. beam, 10 ft. 4 in. depth, with a draught of 8 ft. 6 in. She will have a steel frame and a steel deck with oak bottom planking; four steel bulk-heads and a steel deckhouse with quarters for officers. On top will be a steel texas and pilot house and aft, below, the crew's quarters. The engine will be a 14 in. and 28 in. x 20 in. fore and aft compound condensing, built for a working pressure of 150 lbs. of steam and turning a 7 ft. cast iron propeller wheel. The boiler will be a 10 ft. diam. x 12 ft. Scotch return tubular boiler with duplex steam feed pump. This boat will be built in Toronto, taken apart for shipment, and re-erected at Keewatin. She is to be ready by May 1, 1905.

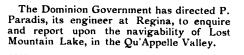
Work is progressing satisfactorily at the Polson Iron Works, Toronto, upon the new Dominion Government cruiser, the launch of which has been fixed to take place Sept. The twin triple expansion engines 10. and two Scotch boilers are so far ready that they will be placed on board directly she is afloat. The steam stearing gear, steam windlass and other auxiliary gear are already under the sheer legs ready to be dropped on board. All the joiner work is well in hand, and she will be rushed to completion very quickly. Work throughout the departments s plentiful and enquiries for next season's delivery are coming in unusually early this vear. There are one or two contracts almost closed, but are not in condition to be report-ed. The yacht Wawinet, built for W. McKenzie's use on the Kawartha Lakes, has fulfilled her expectations very satisfactorily in every way, especially as regards displacement, trim, speed, stability and accommodation. The yacht Scolopendra, a gasoline launch, 30 ft. long, has been causing many enquiries at these works during the past few weeks. She has a standard record of 18.2 miles an hour, and it is stated has made 20 miles. The duplicate of her is being built and will be ready in about a month.

Manitoba and Northwest Territories.

Revillion Freres have had built 17 scows at Edmonton, Alta., and they are being used taking in supplies for the Canadian Northern Ry. construction camp at Battleford, Sask.

The new str. Marion, owned by Capt. Deacon & Son, Prince Albert, Sask., has passed the Government inspection; and the new str. for Capt. Coates, building at Edmonton, Alta., is nearing completion.

The Northern Electr^{ic} #



The Government dredge on Lake Manitoba has been ordered to Delta, Man., to dredge a channel to the basin of sufficient depth to admit the largest steamers navigating the

May be desirable colors; but when BROWN OR BLACK one selects white or a tint, he does not want brown or black.

The New Jersey Zinc Co.

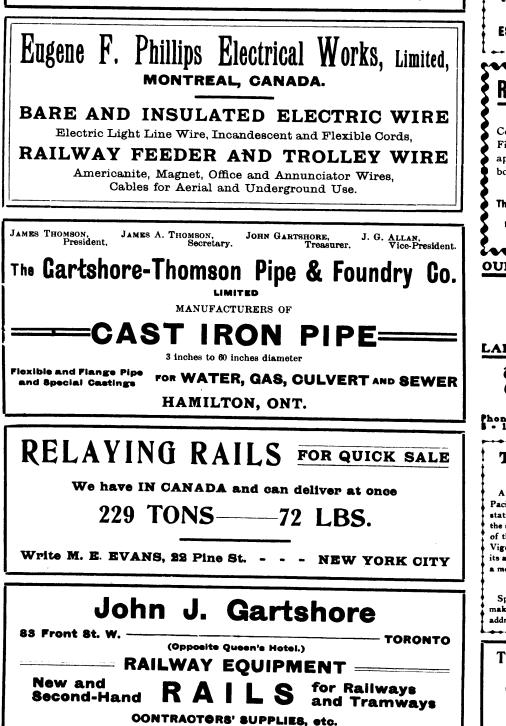
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The work is expected to be completed before the winter.

A steam launch belonging to the N.W. **Steam** launch belonging to the **Automatical State Sen at 1** Police Department, and used by the **Sen at 1** Police Department, and used by the en stadioned Police Department, and used by the stadioned at the mouth of the Mackenzie inter, on the Arctic Ocean, was driven ashore and when the Arctic Ocean, was driven ashore wecked there Aug. 25, 1903. The news reached Ottawa recently. The steamer wrecked there Aug. 25, 57 t a borrowed from a mission, and was valued at \$2,000.

The report of Major Moodie, who has been Ottawa, from Hudson's Bay, states that reput the results of the observations made during the last year show that there should not be to the state of an end out of the bay from June to bott Oct. 10. The expedition established a bott of an end out of the lay from June to bott Oct. 10. The expedition established a bott of an end out of Eulerton Inlet, and took by of entry at Fullerton Inlet, and took lancaster Sound. The str. Erik will be re-tader by the str. Arctic (formerly Gauss), ader the command of Cant. Bernier. ader the command of Capt. Bernier.

B.C. and Pacific Coast Shipping.

The C.P.R. str. Tees has completed her re-The Northern B.C. route.

The North Vancouver Ferry Co.'s str. St. Re was placed in service early in Aug., the launch having taken place some days pre-

The C.P.R. str. Princess Victoria has reber run, after having received repairs ber hull, which was damaged through strik-A not the rocks in the Narrows July 17.

A new six car barge has been completed on A new six car barge has been completed of rout Lake for the C.P.R. lumber trade be-tween Transfer City and Gerrard, B.C. The C.P.R. lumber trave of the C.P.R. lumber tra Toget Lake for towing purposes.

the Minister of Marine told the Vancouver the Minister of Marine told the Vancouver considerably improved, and that he would be a his source to dee constructed at once the work.

The Department of Public Works is having With at Victoria a new steel tug 80 ft. long, ., beam, and 12 ft. 6 in. depth of hold, at a stees of 30,000. The new tug will have en-but 11 knots an hour. the Victoria a new steel tug 80 ft. long, 17

About 11 knots an hour.

A new tug, Peerless, recently launched at Westminster, B.C., was given a trial Aug. 20 Station 120 ft. long and 21 ft. and is fitted with triple expansion enthe cylinders 10 in., 17 in. and 28 in. by 20 the cylinders 10 in., 17 in. and 28 in. by 20 the troke taking steam at 180 lbs. pressure. Packe

Actific coast press reports state that the total fragment of the total to build three new total register and to have a sea-going And to as decided to be a sea-going to to as register, and to have a sea-going by and to the sea sea-going by add of 17 knots an hour. No orders have and no decision has been reached as to the tree vessels will be added.

The U.S. Customs authorities have taken Reeding P.R. str. Princess the U.S. Customs authorities have taken backedings against the C.P.R. str. Princess while a breach of the regulations by while. The passengers from one U.S. port to the pasticular case is that of a man as was sold transportation from Skagway by the Victoria, and thence by the Princess to Seattle, Wash.

the Dominion cruiser Canada has reached the Dominion cruiser Canada has reached the having put in at St. Johns, Nfd., short of the made 17% knots on her trial trip the teamship crucies located in Monthe steamship companies located in Mon-decided not to tender for the Canada-

Mexico east coast steamship service, as the undertaking did not promise any profit on the conditions laid down.

Capt. McCuaig has been appointed a special inspector by the Department of Marine to examine into and report upon the life preservers and other safety appliances on board vessels plying in Canadian waters.

The C.P.R. has obtained judgment for $\pounds_{14,209}$ against the Elder-Dempster Co. on account of passengers carried on the company's steamers for which tickets had been sold by the Elder-Dempster Co. prior to the transfer of the line to the C.P.R.

The C.P.R. will, as last year, place a num-ber of its steamers on the New Orleans-Liverpool route carrying cotton during the winter. A report, current recently, that the Upper Lake steamers would be transferred to the coast during the winter is officially denied.

It is reported that the Allan Steamship Line will place a number of steamers on the Pacific Ocean to trade from Vancouver to China and Japan, in connection with the Grand Trunk Pacific Ry. H. A. Allan, one of the partners of the firm and a director of the G.T.P. Ry. Co., said the matter has been under consideration.

The former White Star str. Germanic was twice announced to have had her name changed and placed on the Dominion Line run between Montreal and Liverpool, and the arrangement has been twice cancelled. The last cancellation was caused by the breakdown of the St. Louis of the American Line, the Germanic being placed on the New York-Southampton run in her stead.

Among the Express Companies.

The Levis County Ry. is preparing to establish an express service on its electric railway from Levis, Que.

The Canadian Northern Ex. Co. has opened offices at Kamsack, Assa.; Roblin, Greenway, and Stratton, Man.

The Newfoundland Express Co. is about to equip its office with enameled iron signs of a striking pattern, red letters on yellow ground, They have been supplied by the Acton Burrows Co., Toronto.

The Dominion Ex. Co. has opened a route on the Lindsay, Bobcaygeon and Pontypool Ry. between Burketon and Bobcaygeon, Ont., and has extended its route on the C.P.R. line from Yorkton to Sheho, Assa.

The Dominion Ex. Co. has opened offices at Insinger, Orcadia, Sheho, Springside, Theodore, Assa.; College Bridge, N.B.; Bobcaygeon, Lindsay, Ont., and has changed the names of its offices at Echo Bay, Ont., to Ekoba, and Stanley, Ont., to Espanola.

E. D. Smith, M.P., shipped some fruit from Aylmer, Ont., to Aylmer, Que., by the Cana-dian Ex. Co. to Ottawa, thence Dominion Ex. Co. At Ottawa the Dominion Ex. Co. declined to take the fruit, and Mr. Smith is now claiming damages from the Canadian Ex. Co.

H. M. Moir, formerly agent Dominion Ex. Co., and C.P.R. ticket agent at Aylmer, Ont., has been committed for trial on a charge of embezzlement. His accounts are said to be \$900 out. A. Carman, agent of the Dominion Ex. office, St. Mary's, Ont., is in temporary charge at Aylmer.

The officers of the Canadian Northern Ex. Co. are: President, W. Mackenzie, Toronto; Superintendent, Scott Griffin, Winnipeg, Man.; Auditor, W. C. Muir, Winnipeg; Route Agents, J. A. Hill, L. F. Munsey, Winnipeg; Agent at Winnipeg, W. T. Perry; Agent at Port Arthur, Ont., J. Phelan.

In urgent cases the Canadian customs authorities will allow export entries to be made with indelible pencil, and one of the duplicate copies may be a "carbon" copy, providing the writing is plain and distinct. This concession as to the use of carbon copy does not, in any case, apply to import entries.

The question of the express service over the Intercolonial Ry. was considered at a meeting of Boards of Trade in the Maritime Provinces held at Moncton, N.B., Aug. 17, and a resolution was passed asking that the Dominion Ex. Co. be given the same privi-leges as were granted to the Canadian Ex. Co. over the Government railway.

Telegraph and Cable Matters.

The Canadian Northern Telegraph Co. has opened offices at Kamsack, Assa; Roblin, Greenway and Stratton, Man.

The laying of the cable between Seattle, Wash., and Sitka, Alaska, has been com-pleted by the U.S. cable str. Burnside, and the first messages were sent over it July 15.

The G.N.W. Telegraph Co. has closed its offices at Cheapside, Lochlin, Millington, Varna and Waverley, Ont.; Des Joachims, Que., and has opened offices at Agnes, St. Andre Jct. and Turner's Siding, Que.

The four stations on the Gulf of St. Law-rence, Fame Point, Heath Point, Point Am-our and Belle Isle, which were to be equipped with the Marconi wireless telegraph apparatus, were placed in operation Aug. 15.

The C.P.R. Telegraph department will receive and transmit telegrams addressed to steamers of the Allan, American, Atlantic, Cunard, French, Hamburg-American, Italian, North German Lloyd and Red Star Lines, to be forwarded by Marconi wireless telegraph from the stations at Belle Isle, Heath Point, Point Amour and Fame Point.

The Newfoundland Court of Appeal has decided that the appointment of P. S. Archi-bald, C.E., Moncton, N.B., as "third" arbitrator in the case of the claim of the Reid Newfoundland Co. against the Newfoundland Government, in respect of telegraph lines on the island, stands, although the Government had not appointed a second arbitrator.

The arbitration proceedings in connection with Newfoundland telegraph lines in which the Government and the Reid Newfoundland Co. are interested, will be opened at St. Johns Oct. 27. The arbitrators are Hon. E. Blake, K.C., M.P., London, Eng., for the Newfoundland Government; D. McMaster, K.C., Montreal, for the Reid Newfoundland Co., and P. Archibald, C.E., Moncton, N.B., third arbitrator appointed by the court.

An interesting point is being argued before the Manitoba courts in connection with a libel action. A Winnipeg newspaper reporter sent to a U.S. newspaper an item of news respecting a minister of the town, which item is alleged to contain a libel, and in order to secure evidence a search warrant was obtained from the Police Magistrate to search the vaults of the C.P.R. telegraph department to secure the original message handed in. The telegraph department obtained an injunction enjoining the search, and the courts have the matter before them.

Some representatives of P.E.I. in the Dominion Parliament had a consultation with the Ministers of Finance and Public Works and representatives of the Anglo-American and other telegraph companies in reference to the cable communication between P.E.I. and the mainland. It was suggested that the present subsidy of \$2,000 a year should be increased

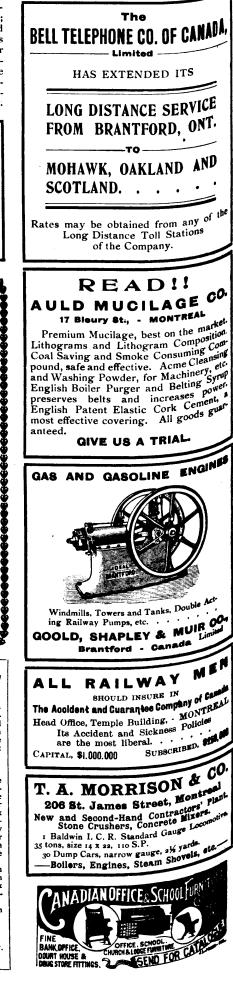
to \$5,000 a year, the telegraph companies arranging for lower rates and an all-night ser-If this could not be arranged for the vice. islanders asked that the Government take over the land lines and establish a new cable. The matter is under consideration.

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After some negotiation a board of conciliation has been appointed to settle the differences between the G.T.R. and its telegraph The board comprises H. Hall, operators.

Toronto, representing the men; G. F. Shep-ley, K.C., Toronto, representing the G.T.R.; and Justice Teetzel, Toronto, appointed by the Minister of Labor. The board has been appointed under the terms of the Labor Disputes Act, 1903. The conciliation com-mission appointed to deal with the dispute between the G.T.R. and its telegraph operators, met in Toronto and discussed the matter, but failed to bring the parties together.

"NOVO" Air-Hardening Steel TWIST DRILLS, REAMERS, MILLING CUTTERS High Speed and Durability. Producing Wonderful Results. WM. ABBOTT, Agent, 334 ST. JAMES ST. MONTREAL NEARLY SIX HOURS TEMISKAMING AND NORTHERN **ONTARIO RAILWAY COMMISSION** IN **BUFFALO** AND RETURN SAME DAY. Leave Toronto by Niagara Navigation Co.'s steamer at 7.30 a.m., connecting at each tender. The cheque of the party whose tender is accepted will be forfeited if such party fails or declines to eater into a contract satisfactory to the Commission, or fails or declines to give security to the satisfaction of the Commission for the due completion of the work at the rates and on the terms stated in the offer submitted. The cheques of the parties whose tenders are not accepted will be returned to them on the contract being awarded. The Commission is not bound to accept the Niagara-on-the-Lake with the fast train of the Michigan Central; returning reach Toronto at 8.30 p.m. Round trip excursion tickets on sale every The Commission is not bound to accept the lowest or any tender. dav. Dated at Toronto, this 18th day of August, 1904. Inquire of Ticket Agents P. E. RYAN, **NIAGARA NAVIGATION COMPANY** Secretary-Treasurer. The Canadian Pacific Railway Company Dividends for the half year ended 30th June, 1904, have been declared as follows : NOTICE TO SHAREHOLDERS The Twenty-Third Annual Meeting of the Share-holders of this Company for the election of the Direct-ors to take the places of the retiring Directors, and the transaction of business generally, will be held on Wednesday, the 5th day of October next, at the principal office of the Company at Montreal, at Twelve o'clock, noon. On the Preference Stock two per cent. On the Common Stock three per cent. closing of the books in Montreal, itew fors and London respectively. The Preference Stock dividend will be paid on Satur-day, ist October, to Shareholders, of record at the clos-ing of the books at the Company's London office, No. 6a Charing Cross, London, S.W. The Common Stock Transfer Books will close in Mon-treal, New York and London, at three p.m., on Thurs-day, ist September. The Preference Stock Books will also close at three p.m. on Thursday, ist September. All books will be re-opened on Thursday, 6th October. SPECIAL MEETING SPECIAL MEETING The meeting will be made special for the purpose of considering, and if approved, of authorizing an in-crease of the present Ordinary Capital Stock of the Company by an amount not exceeding \$35, soo.coo for the purposes of the Company-such increase of Stock to be issued from time to time according to the require-ments of the Company and as may be determined by the Directors-and of adopting such resolution or By-law as may be deemed necessary in connection therewith in order to enable the Directors to give effect thereto. CHARLES DRINKWATER, therewith in order to enable the Directors to give effect thereto. The Common Stock transfer books will close in Montreal, New York and London at 3 p.m. on Thursday, September 1st. The Preference Stock books will also close at 3 p.m. on Thursday, 1st Sep-tember. All books will be re-opened on Thursday, 6th October. By order of the Board Secretary. YOUR PRINTING." By order of the Board, CHARLES DRINKWATER, Secretary. TORONTO Montreal, August 25th, 1904.



Scaled tenders addressed to the undersigned at Toronto and endorsed "Tenders for Stations," will be received by the Secretary-Treasurer of the Commission up to 5 o'clock p.m. of Friday, September 2nd, for the construction of stations at Temagami, at the 72nd mile, Halleybury, at the 106th mile, and New Liskeard, at the 112th mile north of North Bay, in accordance with plans and specifications prepared by the Chief Engineer of the Commission, which may be seen or obtained by application at the office of the Chief Engineer at North Bay. An accepted cheque on a chartered bank for \$1,000 payable to the order of the Commission must accompany each tender. The cheque of the party whose tender is

The Canadian Pacific Railway Company.

Warrants for the Common Stock dividend will be mailed on or about 1st October to Shareholders, of record at the closing of the books in Montreal, New York and London

By order of the Board,

Montreal, 8th August, 1904.



The question will now be submitted to arbitration.

The Pacific Cable Board announced recently that the deficit on the working of the all British trans-Pacific cable for the year was 440,000. The Board has set aside £35,500 towards a renewal fund and other purposes, that the deficit for the actual operation of the cable is not so large as it would at first appear. Sir W. Mulock, M.P., has been appointed by the Dominion Government a member of a commission to settle some complications between the partners in regard to the

The following sums were voted at the recent session of the Dominion Parliament in aid of the Government telegraph service, in addite addition to the amounts given in our last issue: Deer Island and Eastport, Me., \$2,800. Quebec, Magdalene Islands and Anticosti Island lines, \$17,232. Pelee Island cable connections, \$17,232. Anticosti and reconnection with mainland, \$4,800, and re-**Pairs**, \$1,150. Northwest Territories : Lloyd-Willow B C lines : Willowbunch extensions, \$6,400. B.C. lines : Ashcroft-Dawson line, balance of construction, \$5,513.38. The following amounts were Voted on account of collection of revenue : Prince on account of collection of successful and \$1.600; Prince Edward Island and mainland, \$1,600; and and cable lines, lower St. Lawrence and Marine Northwest Fer-Maritime Provinces, \$69,000; Northwest Territories, \$16,000; British Columbia, \$14,000; Ashcroft-Dawson line, \$160,400; telegraph tervice generally, \$2,000.

General Telephone Matters.

The Independent Telephone Co., of Chica-**80**, III., is looking for a site for a factory in anada, and has received an offer of one at Windsor, Ont.

The Union Telephone Co. has extended its s from Woodstock to Hawkshaw and Canbebury, N.B., and has also constructed a thort branch to East Knowlesville.

A committee of the London, Ont., city committee of the London, committee of the London, committee of the London, committee to the grant-

by of a five years exclusive franchise to the Bell Telephone Co., to date from Dec., 1903. The Bell Telephone Co.'s instruments have been removed from stations on the Buffalo division of the Pere Marquette Rd., owing to

tome differences between the two companies. The Bell Telephone Co. has added 25 new been been to its Kingston, Ont., exchange old in the summer and has replaced 200 of its old ^{ing} the summer and has replaced according the summer and has replaced according to the summer according to the summer and has replaced according to the summer according to the summ

During a thunderstorm, Aug. 16, the tele- **Phone** systems at Greenwood and Brougham, **Posts** and maged, nearly a mile of the terreved near the latter black wire being destroyed near the latter place.

C.P.R. officials are reported to have been Nating Morden, Man., recently with a view distance telephone line of the Morden, Man., recently with a new to have the local telephone line to have have connection with the local telephone exchange.

Che Antigonish and Sherbrooke Telephone o. (Ltd.) has installed an exchange at New Glasgow, N.S., through which connection is Riven with the long distance lines of the Nova Scotia Telephone Co.

The Toronto City Council is inviting tendthe Toronto City Council is inviting tende the terms recently adopted. Tenders ac-will be received up to Oct. 1. The Version of the stablishing tele-

The Kent Electric Co. is establishing teletone lines from Richibucto to Rexton, country, N, Parcourt and other points in Kent The Ry. to Kent Junction.

The Bell Telephone Co. has practically mapleted the installation of its new switch-

board at Hamilton, Ont., and expects to begin putting in the new instruments, called for in its contract with the city, early in Sept.

A Peterborough, Ont., report states that the Canadian Machine Telephone Co. has completed its plans for its telephone system of 2,000 instruments in that place and expects to let a contract for the conduit work at an early date.

A Danish electrical engineer has invented an attachment for the telephone by which messages received during the absence of the subscriber from his office can be recorded and reproduced at desire. The new instrument is called the telegraphone.

La Compagnie de Telephone de Portneuf has filed a declaration at Quebec that it was duly incorporated at Quebec under the Companies' Act of the province June 23, 1903. Rev. J. G. McCrae, of St. Casimer, is President, and the offices are at St. Casimer, Que.

The board of arbitrators which was appointed to determine as to the validity of a patent for an automatic telephone switchboard, has decided that the application for a Canadian patent of J. H. and H. G. Lorimer has priority of those of E. A. Falton and J. W. Chisholm, and R. Callendar,

The Bell Telephone Co. is completing a large annex to its present main offices at the corner of St. John and Notre Dame streets, Montreal, in which a central energy switchboard is being installed. The switchboard will have a capacity for 10,000 subscribers, the capacity of the present one being 4,800.

H. W. Kent, of the New Westminster and Burrard Inlet Telephone Co., recently completed a trip over the proposed route of an additional telephone line to give connection be-tween Vancouver and Victoria, B.C. The route just gone over was via Bellingham. decision is expected to be reached as to the construction of the line at an early date.

The Judicial Committee of the Privy Council, London, Eng., has reserved judgment in the action of the Toronto City Council against the Bell Telephone Co. The question in dis-pute is as to the rights of the Bell Telephone Co. to use the city streets without the consent of the council. In the judgment in the Court of Appeal at Ottawa, the contention of the company was upheld.

The telephone line along the Temiskaming and Northern Ontario Ry. from North Bay to New Liskeard, Ont., has been completed, and a local line has been completed between Haileybury and New Liskeard, by the settlers. Local exchanges are being installed in the two places. The line along the railway is two places. being utilized for operating the train service on the line as well as for other purposes.

The Chicago Telephone Supply Co. has offered to install a municipal system in Brantford, Ont., for \$37,500, and will supply new and modern instruments free of charge to users of the Bell Telephone Co.'s instruments, until contracts with that company expire. The telephone committee of the Brantford, Ont., The city council has issued a circular inviting citizens to indicate a readiness to become subscribers to a municipal telephone system. The rates will be for business telephones \$25 a year, and for private telephones \$15 a year.

The Brantford, Ont., city corporation has before it offers or suggestions for a telephone service from the Bell Telephone Co.; the Canadian Machine Telephone Co., Toronto: the Stark Electrical System, Toronto, in addition to a number of U.S. companies which offer to supply instruments for a municipal system. It is estimated that the cost of establishing a suitable municipal exchange would be \$37,500, and the cost of maintaining it \$9,000 a year. The estimated earnings were placed at \$10,-000 in addition to effecting a saving of \$3,750 a year for the subscribers.

PURCHASING AGENTS' GUIDE.

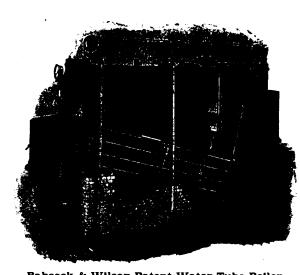
(Continued from third page of Cover.)

Locomotives (Steam) Lima Locomotive and Machine Co Lima, Ohio. Locomotive and Machine Co. of Montreal The Saxon Engine Works, Chemnitz, Germany.
Machinery, Mining The Bertram Engine Works Co
Machine Tools W. Abbott
Machinery Repairs The Bertram Engine Works Co
Manganese Steel Castings Montreal Steel Works
Manhole Frames and Covers American Brake Shoe & Foundry Co., Mahwah, N.J.
Matches
The Hudson's Bay Company Mats and Matting
The Gutta Percha & Rubber Mfg. Co. of Toronto. Mechanical Draft Fans Babcock & Wilcox (Ltd.)Montreal,
Milepost Numbers Acton Burrows Co
Milling Cuttors W. Abbott
Milling Machines The John Bertram Sons CoDundas, Ont.
Mills, Boring and Turning The John Bertram Sons CoDundas, Ont.
Mohair The Hudson's Bay Company
Numbers Acton Burrows CoToronto.
Nuts, Square and Hexagon Canada Foundry CoToronto. Toronto Bolt and Forging CoToronto.
Oakum Rice Lewis & Son
Oils Galena-Signal Oil Co Franklin, Pa., & Toronto. The Queen City Oil Company
 The Queen City Oil CompanyToronto. Office Signs Acton Burrows CoTorento.
Packing The N. L. Piper Railway Supply Co Toronto.
Packing, High Pressure Sheet The Gutta Percha & Rubber Mfg. Co. of Toronto
Packing, Piston The Gutta Percha & Rubber Mig. Co. of Toronto. Pinch Bars
The N. L. Piper Railway Supply Co Toronto. Pipe Covering The James Morrison Brass Mfg. Co Toronto.
The James Morrison Brass Mfg. Co
Mica Boiler Covering Co
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Mica Boiler Covering Co

Rolls, Plate Bonding The John Bertram Sons CoDundas, Ont.	S
Roof Trusses	s
Canada Foundry Co	_
Rope Rice Lewis & Son	9
Rubber Tiling, Interlocking The Gutta Percha & Rubber Mfg. Co. of Toronto.	S
Sales	
J. & J. Taylor	S
Screws, Coach and Log	
Toronto Bolt and Forging Co	5
Semaphore Arms Acton Burrows Co	5
Semaphores The N. L. Piper Railway Supply CoToronto.	5
Sewer Pipe (Cast Iron) Gartshore-Thompson Pipe & Foundry Co., Hamilton, Ont	ŝ
Shaking Grates Babcock & Wilcox (Ltd.)	5
Shaping Machines The John Bertram Sons CoDundas, Ont.	
Shipbuilders' Tools and Supplies	
Rice Lewis & Son	5
Ship Lamps The Holland Portable Light WorksMontreal. The N. L. Piper Railway Supply Co Toronto.	5
Ships	:
Canadian Shipbuilding CoToronto. Polson Iron WorksToronto.	5
Shipbuilders and Engineers Canadian Shipbuilding CoToronto.	
Shovels R. H. Hanking & Ca. Montreal	
F. H. Hopkins & Co	
Side Bearings Simplex Railway Appliance CoMontreal,	
Signal House Numbers	
Acton Burrows Co Toronto.	1
Signals N. L. Piper Railway Supply CoToronto.	1
Signs Acton Burrows CoToronto.	1
Slotting Machines The John Bertram Sons CoDundas, Ont.	
Snow Ploughs Rhodes, Curry & CoAmherst, N.S.	
Spikes, Railway and Ship Toronto Bolt and Forging Co Toronto.	
Springs Montreal Steel Works	
Station Name Signs Acton Burrows Co	
Steamboats Canadian Shipbuilding CoToronto. Polson Iron WorksToronto.	
Steamboat Signs	-
Acton Burrows CoToronto.	
Steam Couplers Safetv Car Heating and Lighting CoNew York.	

Steam Hammers The John Bertram Sons CoDundas, Out.
Steam Shovels F. H. Hopkins & Co
Steam Traps
The James Morrison Brass Mfg. CoToronto.
W. Abbott Montreal. F. H. Hopkins & Co. Montreal. Wm. Jessop & Sons Sheffield, Eng. Rice Lewis & Son. Toronto,
Wm. Jessop & Sons
Steel Buildings Canada Foundry CoToronto. Dominion Bridge CoMontreal,
Steel for Springs James Hutton & Co
Steel Plate Jas. W. Pyke & CoMontreal.
Steel Tyres James Hutton & CoMontreal. Jas. W. Pyke & CoMontreal.
Stop Cocks, Iron and Brass The James Morrison Brass Mfg. Co. Toronto
Structural Metal Work
Dominion Bridge Co. Montreal
Locomotive and Machine Co, of Montreal
Structural Metal Work Canada Foundry Co
Babcock & Wilcox (Ltd.)Montreal.
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The B. Greening Co
Switch Targets Acton Burrows Co
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Tobacco and Cigars The Hudson's Bay Company
Toilet Paper The Hudson's Bay Company
Track Jacks
F. H. Hopkins & Co. Montreal. Montreal Steel Works Montreal. W. H. C. Mussen & Co. Montreal. A. O. Norton Coaticook, Que.
A. O. Norton
Canada Switch and Spring CoMontreal.
Г. П. Поркия & Co Montreal. Rice Lewis & Son
F. H. Hopkins & Co. Montreal. Rice Lewis & Son. Toronto. Montreal Steel Works. Montreal. W. H. C. Mussen & Co. Montreal.
Tramway Equipment F. H. Hopkins & Co
W. H. C. Mussen & Co
Trucks (Electric Car) Baldwin Locomotive WorksPhiladelphia, Pa.
Canada Foundry Co

Turnbuckles Montreal Steel Works	Montreal
Turntables Canada Foundry Co Dominion Bridge Co	Toronto
Dominion Bridge Co Typewriters	Toronto
Typewriters United Typewriter Co	Toronto
Typewriter Supplies United Typewriter Co.	Toronto
Valves, I ron and Brass Canada Foundry Co The James Morrison Brass Mfg. Co Valves, Rubber	
The James Morrison Brass Mfg. Co Valves, Rubber The Gutta Percha & Rubber Mfg. Co. Co.	
The Gutta Percha & Rubber Mfg. Co. C Varnishes McCaskill, Dougall & Co	Montreal
Vessels Polson Iron Works	Toronto
Waste Rice Lewis & Son	Toronto
Waste Rice Lewis & Son N. L. Piper Ry, Supply Co The Queen City Oil Co Water Pipe (Cast Iron)	Toronto.
Gartehore Thomason Pine & Foundry Co.	Hame
Rabovek & Wilson (I t.)	Mone
F. H. Hopkins & Co.	Toronto
Ontario Wind Engine and Pump Co.	
The Hudson's Bay Company	
The Hudson's Bay Company	
Wire and Wire Rope Dominion Wire Rope Co	Montreal.
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Wrought Steel Piping Babcock & Wilcox (Ltd.)	Toronto
The Wire and Cable Co Wrought Steel Piping Babcock & Wilcox (Ltd.) Canada Foundry Co Yachts Polson Iron Works	Toronto
Polson Iron Works	



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Economizers, Shaking Grates and Complete Boiler Room Accessories

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The Purchasing Agents' Guide

To the Manufacturers of & Dealers in Steam & Electric Railway, Steamship, Express, Telegraph & Telephone supplies, &c.

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Accident Insurance	a of Counda Montroal
Accident & Guarantee C Canadian Ry. Accident I London Accident & Gua	ns. CoOttawa, Ont.
London Accident & Gua Aerated Waters	rantee Co Toronto.
E. L. Drewry	Winnineg.
Air Brakes & Fittings	
Canada Foundry Co Canadian Westinghouse	Toronto.
Lanadian westinghouse	Co Hamilton, Unt.
E. L. Drewry	Winnipeg.
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James Hutton & Co.	Montreal.
Jas. W. Pyke & Co Rhodes, Curry & Co	
Babbitt	Amnerst, N.S.
Rice Lewis & Son	
Barges, Grain	• • • •
The Bertram Engine W Belting, Rubber	orks Co I oronto.
The Gutta Percha & Rub	ber Mfg. Co. of Toronto.
Billing Machines	T (1)
Blankets & Bedding	Toronto.
The Hudson's Bay Cor	npany
Block & Tackle	N
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Boat Fittings & Hard	ware
Rice Lewis & Son	
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Boiler Covering	
	Montreal
Bollers Canada Foundry Co	Toronto
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Babcock & Wilcox (Lt	d.)
The Bertram Engine W	orks Co Toronto.
Boiler Tubes	
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Bolts. Bridge	ince Co
Canada Foundry Co	ing Co Toronto.
Toronto Bolt and Forgi Bolts, Carriage and	ing CoToronto Machine
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Bolts, Track	
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United Typewriter Co.	Toronto.
Brake Beams Simplex Railway Apolis	ance Co
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The B. Greening Co	Hamilton, Ont.
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Dominion Bridge Co	
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The Wire and Cable Con Broker Charles	oMontreal
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American Brake Shoe & Car Castings	
American Brake Shoe &	Foundry Co
Car Heating	
Var Heating Safety Car Heating and	Lighting Co., New York
Car Jacks	
Car Lighting	IT includes Co. M. M. 1
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Carpets The Hudson's Bay Con	npany
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Car Wheels	•
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Castings (Steel)	
Montreal Steel Works.	
Rhodes, Curry & Co	Amherst, N.S.

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Coal Haulage Ropes	John
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F. H. Hopkins & Co	Headli
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The Firstbrook Box Co	The Hose,
Cross Arm Braces Canadian General Electric Co	The
Canadian General Electric Co Toronto. Toronto Bolt and Forging Co	Hose, 1 The
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Toronto Bolt and Forging CoToronto Culvert Pipe (Cast Iron)	The
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The John Bertram & Sons Co, Dundas, Ont.	E . 1
Drills .W. AbbottMontreal.	Lampa The
Dry Goods	The
The Hudson's Bay Company Dynamo and Electric Castings	N . 1
American Brake Shoe & Foundry Co.,	Lathe The
Economizers Mahwah, N.J.	Launc
Babcock & Wilcox (Ltd.)	The Pol
Electric Car Route Signs Acton Burrows Co	Light
Electric Oranes	F. I
Canada Foundry CoToronto. Dominion Bridge CoMontreal	w.
W. H. C. Mussen & CoMontreal. Electric Ry. Brake Shoes	Light The
American Brake Shoe & Foundry Co.,	Light
Elevator Belts, Rubber	The
The Gutta Percha & Rubber Mfg. Co. of Toronto.	Linole The
Enameled Iron Signs Acton Burrows Co	Locon
Engineers' Supplies	The
The Gutta Percha & Rubber Mfg. Co. of Toronto. The James Morrison Brass Mfg. Co Toronto.	Locon Am
Engines, Hoisting	Am
The Bertram Engine Works CoToronto.	Locon
Engines, Stationary & Marine The Bertram Engine Works Co Toronto.	Am Bal
The Bertram Engine Works Co Toronto. Canada Foundry Co	Loo
Engraving	Locon Am
Toronto Engraving CoToronto	Bal Cai
Express Office Signs Acton Burrows Co	Lo
Feedwater Heaters	Locon
Babcock & Wilcox (Ltd.)Montreal.	Lin Locon
Fencing Canada Foundry Co	Am
Canada Foundry CoToronto. Canadian Steel and Wire CoHamilton, Ont. Page Wire Fence CoWalkerville, Ont.	Bal Loc
Flags	Locom
Rice Lewis & SonToronto. The Hudson's Bay Company	
	Am Bal
Flour	Bal Car
Flour The Hudson's Bay Company Foghorns	Bal

Gas and Electric Fixtures The James Morrison Brass Mfg. Co Toronto.	
Gas Pipe (Cast Iron)	
Gartshore-Thompson Pipe & Foundry Co., Hamilton, Ont-	
Gates Canada Foundry Co	
The James Morrison Brass Mfg. CoToronwo General Supplies	
The Hudson's Bay Company	
John S. Metcalfe Co, Chicage, 14	
Groceries The Hudson's Bay Company	
Hardware Rice Lewis & Son	
N. L. Piper Railway Supply CoTorento-	
Rice Lewis & Son	
Hose, Air Brake and Steam The Gutta Percha & Rubber Mfg. Co. of Toronto.	
Hose, Fire The Gutta Percha & Rubber Mfg. Co. of Toronto.	
Hose, Suction The Gutta Percha & Rubber Mfg. Co. of Toronto.	
Illustrations Acton Burrows Co	
Acton Burrows Co	
The James Morrison Brass Mfg. Co Toronto. Interlocking Signals	
Montreal Steel Works	
Iron Rice Lewis & Son	
American Brake Shoe & Foundry Co., Mahwah, N.J.	
Iron Signs Acton Burrows Co	
Japans	
Japans McCaskill, Dougall & CoMontreal Journal Bearings	
Canada Foundry Co	
St. Thomas Brass Co St. Thomas,	<i>.</i>
E. L. Drewry	
Lamps & Lanterns The Holland Portable Light WorksMontreal The Hudson's Bay Company	
Rice Lewis & Son	
Lathes	
Lathes The John Bertram Sons CoDundas, Ost Launches	
Launches The Bertram Engine Works Co Toronto. Polson Iron Works	
F II Uanhing & Ca	
The Holland Portable Light Works. Montreal. W. H. C. Mussen & Co	
Lights, Dock Mostresh	
Lights, Dock The Holland Portable Light WorksMontreal	
The Holland Portable Light Works	
Linolenm and Floor Coverings The Hudson's Bay Company	
Locomotive-Brass Work The James Morrison Brass Mfg. Co Torosto.	
Locomotive Driver Brake Shoe	
American Brake Shoe & Foundry Mahwah, N.	
Locomotives (Compressed Air) American Locomotive CoNew York, N.Y. Baldwin Locomotive Works. Philadelphia, Pa- Locomotive and Machine Co. of Montreal	
American Locomotive CoPhiladelphia, Baldwin Locomotive WorksPhiladelphia, Montreal	
Baldwin Locomotive Works. Philadesp Locomotive and Machine Co. of Montreal Locomotives (Electric)	
Locomotives (Electric) American Locomotive CoNew York, N.Y. Baldwin Locomotive Works. Philadelphis. Fa Canada Foundry Co	
Locomotive and Machine CO. OL	
Locomotives (Logging)	
Lima Locomotive and Mach. Co Locomotives (Rack)	
American Locomotive Co New Yorkin Pa- Baldwin Locomotive Works Philadelphia	
Lima Locomotive and Mach. Convert Locomotives (Raok) American Locomotive CoNew York, N.Y. Baldwin Locomotive WorksPhiladelphia. Locomotive and Machine Co. of Montreal. Locomotives (Steam)	
American Locomotive Co New York, Pan American Locomotive Co Philadelphia	
Baldwin Locomotive WorksFaire Tor Oat. Canada Foundry Co	1
Locomotives and Machine Co. of Mount Locomotives (Steam) American Locomotive Co	• .:
(Continued on pages 339 and 340.)	Í