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CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL
OF PUBLIC WORKS AND TENDERS
ADVANCE INFORMATION
AND MUNICIPAL PROGRESS

EVERY WEDNESDAY

This paper reaches every week the Town and City Clerks, Town and City Engineers, County Clerks and County Engineers Purchasers of Municipal Debentures and leading Contractors in all lines throughout Canada.

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Notice to Contractors

Scaled tenders, addressed to the undersigned, will be received up to 12 o'clock, noon, on **MONDAY, JANUARY 28, 1901**, for the construction of a

BRICK CHURCH BUILDING

for the Presbyterian Congregation, Brandon, Man. Plans and specifications and full information as to conditions of tendering and form of contract may be obtained at the office of W. H. Shillingham, Architect, City Hall, Brandon, on and after Thursday, December 20. The lowest of any tender not necessarily accepted. Tenders for Steam Heating, Seating and Lead and Plain Glass will be called for at a later date.

J. McDIARMID, M.D.
Chairman of Building Committee.

Brandon, 13th Dec., 1900.

Town of Pictou, N. S., Water Works

TO CONTRACTORS

PROPOSALS FOR

Water Pipe, Gates and Hydrants and Pumping Machinery

Separate sealed proposals for Cast Iron Water Pipe and Special Castings, Gates and Hydrants and Pumping Machinery, to be respectively enclosed. Proposals for Furnishing Water Pipe and Special Castings for the Town of Pictou, "Proposals for Gates and Hydrants for the Town of Pictou," and "Proposals for Pumping Machinery for the Town of Pictou," will be received at the office of the Town Clerk in Pictou, Nova Scotia, until 4 o'clock p.m. on **THURSDAY, THE 28th DAY OF JANUARY, A.D., 1901.**

The amount of security required will be fixed by the Mayor and Council after the bids are opened, said amount to be not less than one-fourth nor more than one-half of the amount of the contract.

The Mayor and Council also expressly reserve the right to reject any or all bids should they deem it for the interest of the Town of Pictou to do so.

Specifications may be obtained of the undersigned Town Clerk, or of the engineers, Lea & Coffin, 53 State Street, Boston, Mass., by sending a deposit of two dollars for each specification, which deposit will be returned to any party making a bona fide bid accompanied by the cheque.

By order of the Town Council.

FRED MACKARACHER

Town Clerk.

Pictou, N.S., Dec. 4th, 1900.

TENDERS

The South Branch of the North Castor River, Silver Creek and Wylie Creek Drainage Work.

Scaled tenders, addressed to J. H. Moore, Civil Engineer, Smith's Falls, Ont., and despatched "Tenders, Silver Creek," are invited up to one o'clock p.m. of **SAURDAY, JANUARY 13th, 1901**, for the removal of earth, rock, and other obstructions from the streams known as "The Wylie Creek," "The Silver Creek," and "The South Branch of the North Castor River," together with the construction of new canals in connection with the above, all within the townships of Mountain and Osgoode.

Parties tendering are requested to do so in each or all of the following ways:

1.—By stating a lump sum for which they will complete the whole work required within the Township of Mountain, also by stating a lump sum for which they will complete the whole work required within the Township of Osgoode.

2.—By stating a lump sum separately for each of the five sections.

(a) The Wylie Creek Branch, Station "O" to Station "43 x 40."

(b) The Silver Creek Main Drain from Station "O" to Station "276 x 85."

(c) The South Branch of the North Castor River from Station "276 x 85" to "38 x 13."

(d) The South Branch of the North Castor River from Station "38 x 13" to Station "79."

(e) Rock Excavation, price tendered to be per cubic yard, between Station "667" and Station "677."

3.—By stating a lump sum for sections as follows: Wylie Creek Branch, Station "O" to Station 20

| Silver Creek | Main Drain, Station "O" to | Station 20 | 43 x 40 | Station 20 |
|--------------|----------------------------|------------|---------|------------|
| " | " | " | " | 40 |
| " | " | " | " | 60 |
| " | " | " | " | 80 |
| " | " | " | " | 100 |
| " | " | " | " | 120 |
| " | " | " | " | 140 |
| " | " | " | " | 160 |
| " | " | " | " | 180 |
| " | " | " | " | 200 |
| " | " | " | " | 220 |
| " | " | " | " | 240 |

The South Branch of North Castor River, from Stations "276 x 85" to Stations "38 x 13."

"38 x 13" to Stations "79."

The Rock Excavations Stations "667" to Stations "677."

The tenders shall include the cost of everything necessary to complete the work according to the plans and specifications. Each tender must be accompanied by an accepted cheque amounting to 5 per cent. of the tendered price, made payable to the order of the Municipality of the Township of Mountain, for the portions of work lying within that Township. Where the work lies in the Township of Osgoode the cheques shall be made payable to the order of the Municipality of Osgoode. The cheques will be returned to those whose tenders are not accepted, and will be forfeited by those whose tenders are accepted and who decline to enter into the contract.

Plans and specifications may be seen at the offices of Hugh Martin, Esq., Township Clerk of Mountain, Hallville P.O.; Frank Iveson, Esq., Township Clerk of Osgoode, Metcalfe, G. H. Ferguson, Esq., Solicitor for Mountain, Kemville, G. F. Henderson, Esq., Solicitor for Osgoode, Ottawa and J. H. Moore, C.E., Smith's Falls, Engineer for Mountain and Osgoode.

The lowest or any tender not necessarily accepted.

J. H. MOORE, O.L.S., C.E.

Smith's Falls, Dec. 19th, 1900.

F. Riopelle & Fils, plumbers, Montreal, have formed a partnership.

CONTRACTS OPEN.

GLENWOOD, ONT.—J. Chester intends building next spring.

FONTHILL, ONT.—J. Scanlon purposes erecting a new residence.

ANTRIM, ONT.—W. & T. Bradley are erecting a new building.

BROADHAGEN, ONT.—John Dehl will build a dwelling next summer.

INGERSOLL, ONT.—The G.T.R. propose to remodel their station here.

MONKTON, ONT.—A brick dwelling will be built next spring by Geo. Fisher.

WOODSTOCK, ONT.—A Christian Science church will be built in this city.

FORT FRANCES, ONT.—Dr Moore contemplates the erection of a hospital here.

NEW WESTMINSTER, B.C.—A number of dwelling houses will be erected during next year.

ATHENS, ONT.—The building of a new ward school is among the probabilities of next year.

WELLESLEY, ONT.—Steps are being taken looking to the establishment of an electric light plant.

BRIDGEWATER, N.S.—Wm. A. Robertson intends to build a wood-working factory here.

RIPLEY, ONT.—Mr. Grant, of Ashfield, is negotiating for a site on which to build a grist mill.

DURHAM, ONT.—The project to establish cement works here is still under consideration.

WATERFORD, ONT.—George Dought has commenced the erection of a building on Main street.

FREDERICTON, N. B.—The Imperial Oil Co. will erect a storage and supply warehouse here.

SAULT STE. MARIE, ONT.—The town will undertake considerable sewer work in the near future.

SHERBROOKE, N.S.—The Nova Scotia Lumber Co. will put an additional storey to their building.

BRACEBRIDGE, ONT.—Mr. Fielding will probably erect a large store on a lot recently acquired.

SANDWICH, ONT.—Dr. Soper has not yet commenced the construction of the proposed sanitarium.

MILE END, QUE.—The corporation has for sale \$200,000 of debentures. Tenders received up to 29th inst.

THOROLD, ONT.—The by-law to raise \$40,000 for roadway improvements is to be voted on January 7h.

SIMCOE, ONT.—Meetings are to be held this week to further the scheme to establish a pork factory here.

TELSWATER, ONT.—W. R. Thompson is about to erect a mill to manufacture rollers for the British market.

DUNBARTON, N.B.—Tenders are being asked by the provincial government for

rebuilding of a bridge here and the Stillwell bridge on the Dugdeguash.

OAKVILLE, ONT.—A by-law will be submitted to the ratepayers to raise \$7,000 to construct cement walks.

PERTH, ONT.—It is estimated that it will cost about \$128,000 to construct a proper sewerage system for the town.

CARGILL, ONT.—The synod of the diocese of Huron has consented to the erection of a new church at this place.

BRANTFORD, ONT.—The city council has passed a by-law to raise \$5,108 by debentures for the construction of sewers.

ST. THOMAS, ONT.—A by-law to raise \$5,000 by debentures to pay off civic indebtedness has been passed in council.

WELLAND, ONT.—Mayor Shaw, of Oakville, and W. Lawrie, of Toronto, purpose erecting a flour mill near the Welland depot.

KINGSPORT, N. S.—The government wharf and lighthouse at this place were damaged by a recent storm to the extent of \$8,000.

HALIFAX, N.S.—The Merchants Bank of Halifax have purchased a lot in the city of Havana on which to build a new banking office.

PETERBOROUGH, ONT.—It is expected that work on the new buildings for the American Cereal Co. will be commenced early in January.

DIGBY, N.S.—Mr. Cann, of Yarmouth, has recently purchased property near the government pier on which he will build a wharf next spring.

COLLINGWOOD, ONT.—The council has given notice of its intention to construct a tile sewer on Hurontario street and Simcoe street, cost \$3,540.

SILVERTON, B. C.—A company has been formed to excavate a tunnel from Silvertown to Sandon. Davis, Marshall & MacNeill are solicitors.

PORT HOPE, ONT.—The county council has recommended that a new heating system be installed in the West Northumberland registry office.

TRENTON, ONT.—A by-law to raise \$3,500 by debentures for repairing the bridge at the dam will be submitted to the ratepayers on January 7th.

ASHCROFT, B. C.—Plans have been prepared for new government buildings to be built here, to include court house, jail, and government agent's office.

OSHAWA, ONT.—A committee of the town council has recommended that an electrical engineer be engaged to report on the lighting system of the town.

STONE CREEK, ONT.—Henry Weir will prepare plans for the new hall to be erected by local capitalists, and the contracts will be let at an early date.

QUEBEC, QUE.—The Canadian Electric Light Co. is said to have completed arrangements for the construction of a large pulp mill at Chaudiere Falls.

ATWOOD, ONT.—Tenders for completing the Peak dam in the township of Emery will be received by Thos. Fullerton, municipal clerk, up to January 14th.

WIARTON, ONT.—Ely & Turner purpose installing an electric light plant, and have asked permission from the council to erect poles and wires on the streets.

LINDSAY, ONT.—The council has approved of the submission to the ratepayers of a by-law authorizing the town to operate a municipal street lighting plant.

AMULREE, ONT.—The municipal clerk has been instructed to have a by-law prepared offering for sale \$1,000 worth of debentures to defray the erection of a new school.

GREENWOOD, B. C.—George H. Collins has sold to Nelson capitalists his interests in the Greenwood and Phoenix tramway and the Phoenix Electric Light Co. The

new owners purpose commencing operations in the spring on the tramway to connect this place with Phoenix.

ROCKWOOD, ONT.—Wm. Hawkins, of this place, wants tenders by Thursday, January 3rd, for stone work, brick work, carpentering and plastering of dwelling house on lot 8, second concession of Erasmosa.

TILBURY, ONT.—A deputation from Tilbury East interviewed the Ontario government last week and requested financial aid towards drainage work. It is expected that from \$6,000 to \$10,000 will be granted.

NANAIMO, B. C.—The New Westminster & Burrard Telephone Co. are looking into the question of establishing telephonic communication between Victoria and this town.

ESSEX, ONT.—A number of gentlemen held a meeting here on December 14th and decided to ask for a charter for an electric railway from Windsor to a point on the lake shore.

SYDNEY, N. S.—The report of the Nova Scotia Fire Underwriters points out the necessity of a hose tower and an electric fire alarm system in order to provide adequate fire protection.

VANCOUVER, B. C.—Among the contemplated building projects for next year are the remodelling, by the C.P.R., of the Hotel Vancouver and the erection of a fine summer hotel at Greer's Beach, on English Bay.

HINTONBURG, ONT.—The township of Nepean has made application to the Minister of Railways for an order directing that a subway or overhead crossing be constructed to facilitate traffic along Wellington street.

BOBCAYGEON, ONT.—Work was commenced last week on the Lindsay, Bobcaygeon and Pontypool railway to connect this village with the C.P.R. It is expected that the road will be completed within one year.

RESTIGOUCHE, N. B.—Thos. Malcolm, contractor for the building of the Restigouche and Western Railway, states that he has received propositions from capitalists who purpose erecting pulp mills along the line of the railway.

BRANDON, MAN.—Tenders are called for in this issue for the construction of Presbyterian church, solid brick with cut stone trimmings, hardwood finish, steam heating, etc., to seat 900, cost \$31,000; W. H. Shillinglaw, architect.

LONDON, ONT.—H. C. McBride, architect, is calling for tenders for new store fronts on Dundas street.—Moore & Henry, architects, are preparing plans for the renovation of new Grand opera house, this city, also for a new brick residence for Ward Sutherland.

ST. JOHN, N. B.—The school trustees invite offers up to January 2nd for redemption bonds to the amount of \$69,500. Particulars from E. Manning, secretary school board.—It is rumored that John E. Moore and Wm. Rivers contemplate rebuilding the Barnhill saw mill at Pleasant Point.

GRAND FORKS, B. C.—Cayley, Dickson & Cochrane desire the incorporation of a company to construct a ferry from this place to the mouth of Eagle creek.—J. B. McArthur and J. F. McKee, of Rossland, and others, will apply for a charter for a railway from Cascade via this place to Garson.

SARNIA, ONT.—A by-law has been passed in council to raise \$6,000 by debentures.—Negotiations have been proceeding for some time between Botsford & Jenks, of Port Huron, and the G.T.R., regarding increased elevator facilities here. The former propose to build a steel elevator of 1,000,000 bushels capacity, the G.T.R. to furnish the site.

SHAWINIGAN FALLS, QUE.—The Shawinigan Falls Brick Manufacturing Co. is seeking incorporation, to manufacture bricks of all kinds, drain pipes, cement, etc. R. W. Douglas, of Westmount, is secretary of this company.—The Canada Cotton Co. have been looking over the ground here with a view to erecting a large establishment.

OTTAWA EAST, ONT.—At the last meeting of the village council the proposed reconstruction of the Ottawa East bridge was considered, and a committee appointed to wait on the Minister of Railways and Canals and request that the new bridge be built on an enlarged plan and on a site about 100 yards from the present structure.

NIAGARA FALLS, ONT.—C. H. Mitchell, C.E., has made an inspection of the source of power at the falls, for the waterworks and at the power house of the International Traction Company with a view of devising some means of increasing the water power and preventing ice blockade. Two plans are favored, one to enlarge the intake and the other to build a submerged dam.

BROCKVILLE, ONT.—The report of Mr. Blossom, the New York expert, as to the condition of the electric light and gas plants, has been received. He estimates that about \$30,000 would be required to remodel the gas plant and \$33,000 for the electric light plant, but is in favor of combining the two plants in one central station and building an entirely new system, at a cost of \$125,000.

SYDNEY, N. S.—The town is asking for tenders up to January 15th for a loan of \$235,000. Of this sum \$35,000 is for paying the balance due the owners of the site conveyed by the town to the Dominion Iron & Steel Co., Ltd., \$75,000 for the extension of waterworks, \$75,000 for construction of sewers, \$27,500 for additional school accommodation, \$12,500 for equipping a fire department, and \$10,000 for permanent sidewalks. The debentures are payable in thirty years, and bear interest at four per cent.

ROSSLAND, B. C.—A conference was held here last week between the superintendent of the C.P.R. and the directors of the West Kootenay Power & Light Co. in reference to using electric power for hauling the C.P.R. trains between Rossland and Robson, where there are exceptionally steep grades. It is estimated that 2,000 horse power will be required. The Great Northern Railway is understood to have under consideration a similar plan for hauling their trains over the Cascade mountains, the purpose being to utilize the water powers on both slopes of the mountains.

HAMILTON, ONT.—The city engineer has reported that another set of pumps is required for the east end sewage disposal works.—Hon. J. I. Tarte, Minister of Public Works, was in the city last week and looked into the requirements of the city and harbor. It was pointed out that it was necessary to have a depth of water at the lake end of 20 feet. This may involve the extension of the piers, and either the reconstruction of the entire piers, or sheet piling 30 to 60 feet in depth along their entire length.—Stewart McPhie has been granted a permit for additions to McNabb street Presbyterian church, cost \$2,500.

ST. CATHARINES, ONT.—The directors of the Niagara, St. Catharines & Toronto Railway Co., at a meeting held here last week, decided to build their road westerly to Hamilton at the earliest possible date. A preliminary survey of the route has been made by A. J. Armstrong, C. E.—Z. Zock, manufacturer of optical goods and jewellery, desires to locate a factory here. If granted some concessions he proposes to build a four storey brick building 100 x 150 feet.—The Dominion Gov-

ernment invites tenders up to January 16th for supplies for the coming year, including timber, hardware, castings, paints, oils, etc. Specifications at office of superintending engineer, this city.

CHEMAMINUS, B.C.—The Victoria Lumber & Manufacturing Co., of which E. J. Palmer is manager, purpose making extensive improvements in connection with their saw mill. It is proposed to erect three dry kilns, to install planing and sizing machinery and a shingle mill plant, and to erect three storage buildings 60 x 120 feet each in size. Large additions will be made to the wharfage front, a slip constructed for the transfer of barges and a railway spur put into Horseshoe Bay. The cost of the improvements will be about \$100,000.

MONTREAL, QUE.—It is understood that the Merchants Bank of Halifax have made an offer for a site in this city on which to erect a bank building.—Plans of post office building to be built at Hochelaga are on view at Room 411, Merchants Bank Building.—The Lake Superior Power Company, of Sault Ste Marie, last week asked the Harbor Board for space on which to build an ore dock.—Martineau & Pienoveau have declined to accept the contract for stone coping awarded them by the Harbor Commissioners.—Building permits have been issued as follows: W. H. Scroggie, alterations to two storey building, 2645 St. Catharine st., cost \$3,200; Hutchison & Wood, architects; G. Melocke, three storey building, Aqueduct st., cost \$3,000; O. Faucher, two storey building, 18 Little St. Antoine st., cost \$2,000.

OTTAWA, ONT.—A number of doctors in the city have announced themselves in favor of the construction of an abattoir on Porter's Island.—Chrysler & Bethune will apply to Parliament for incorporation of a company to build a railway from some point on the Ottawa river in Pontiac county northerly to James Bay.—A meeting of the congregation of Grace church will be held in a week or two to decide upon plans for a new school house.—J. R. Roy, acting secretary Department of Public Works, invites tenders up to Wednesday, January 2nd, for construction of post office building at Hochelaga, Que.—An official of the Canada Atlantic Railway has stated that the new union depot will be erected during the coming summer.—The contractors who tendered on the Lachine canal work have been invited to tender on new plans, giving a 600 foot instead of 325 foot lock.—The contract for supplying the ice plant for the Ottawa Produce Company will be let in a few days.

VICTORIA, B. C.—Bodwell & Duff have asked for the incorporation of a company to construct a railway and ferry from this city to Chilliwack.—The Victoria, Vancouver & Eastern Railway Co. are making preparations to build a considerable portion of their projected line in the near future.—The directors of the Jubilee Hospital are about to take steps to provide increased accommodation. An additional storey or a new wing will be built.—Mr. Hargraves, C.E., has taken levels for the extension of the Victoria and Sydney railway from Hillside avenue to the market building.—A committee appointed to consider the erection of a memorial to the South African soldiers has recommended that a public water gate or approach from the harbor be erected on the water front of Belleville street, opposite the main entrance of the Government building; the structure to comprise landing steps, about 100 feet long, leading to a platform 30 feet wide; from thence the level of the roadway to be reached by two broad flights with balustrades.

WINNIPEG, MAN.—Delegations from different sections of the province interviewed the Premier last week urging the

construction of railways. The Premier stated that the necessary legislation would be brought down at the next session of parliament, and that engineers would shortly be employed to lay out the routes, although it was impossible to say just what lines would be built.—The new block to be built on Portage avenue by W. F. Alloway will be six stories in height, the ground floor divided into stores and the other floors into offices and apartments. It will be of brick, with modern interior equipments.—The committee on works has recommended that the council invite tenders for the construction of sewer on Furby street, to cost \$6,300, and a cedar block pavement on lane between Smith and Donald streets, and on lane rear of lots 31-6, cost \$2,740.

TORONTO, ONT.—The Board of Directors of the Industrial Exhibition Association have decided to extend the time for the reception of plans for the proposed exhibition buildings to February 9th.—Edward Gurney, on behalf of the company, last week submitted to the Board of Control plans of the new hotel to be built on King street. The plans show 500 rooms, and provide for the extension of Colborne street to Victoria street.—A meeting of the ratepayers of Rosedale was held last week to consider the present dangerous condition of the Glen Road steel bridge. Frank Turner, C.E., stated that the bridge could be placed in proper condition at a cost of \$6,000, and it is probable that some steps in this direction will be taken.—Tenders are wanted by A. M. Graves, 41 Essex street, for erection of two-storey brick house.—The Toronto Railway Company have purchased the Metropolitan electric railway. It is the intention of the company to extend the line.—The directors of the Lorne Park Company have decided to make improvements to the park, including the rebuilding of the wharf.—The general committee of the Toronto Alumni Association have appointed a committee to co-operate with the University authorities in selecting a site and securing plans for the memorial hall to be built in the memory of the soldiers who fell at Ridgeway and South Africa. Messrs. J. S. Willison and J. K. Macdonald are members of this committee.—Building permits have been granted as below: The Gallagher estate, dwelling 58 Winchester street, cost \$2,600; H. Hanks, two-storey and attic brick residence 14 Wright avenue, cost \$1,700; Mr. Lobb, alterations and additions to dwelling 33 and 35 Gould street, cost \$2,500; W. R. Riddell, alterations to 109 St. George street, cost \$1,100; A. Elliott, pair brick dwellings, 312-14 George st., cost \$5,000.—The C. Beck Mfg. Co., head office Penetanguishene, are at present negotiating with a view to enlarging their box factory in this city and installing modern machinery.

FIRES.

Furniture establishment of H.A. Wilder, on St. Catharine street, Montreal, damaged to the extent of \$5,000.—Building of the Chronicle newspaper at Halifax, N.S.; loss \$12,000.—Two stores and dwelling at Dorchester, Ont., owned by G. B. Birch.—McNeill's hotel at Summit City, B. C., totally destroyed on December 13th, loss \$5,000.—Hamilton's drug store, the Mason hotel, G. N. W. telegraph offices and Smith's jewellery store at Blyth, Ont., burned on December 19th.—Residence of L.A. Brais at St. Hilaire, Que.; loss \$20,000.—Rolling mills near St. John, N. B., owned by the Coldbrook Iron & Steel Co.; loss \$100,000, of which \$60,000 is on plant.—Fire at Oakville, Ont., on 20th inst. damaged buildings of the following: B.H. Gullledge, harness shop and dwelling, \$7,000; H. Wilson, grocery store, \$5,000; Mr. Urquhart, store and dwelling, \$2,000.—At Hanover, Ont., the following buildings were burned last week: Knechtel furniture fac-

tory; Gruener furniture factory and undertaking establishment, T. Poelman & Co., flour and feed; B. F. Ahrens, hardware; Gruff & Weppeler, general dry goods; W. Roloff, photographer; H. Maurer, blacksmith and carriage works; Chas. Doepel, flour and feed. The factory of Knechtel & Co. covered about two acres of land. The total loss will reach nearly \$1,000,000.—Matthews Bros. picture framing establishment at 52 Temperance street, Toronto, was completely gutted by fire on Friday last. The damage is about \$10,000, \$4,000 of which is on building and the balance on machinery.—Building at Roland, Man., owned by Shilson & Co.; loss, \$7,000.—Building at Ottawa, Ont., occupied by Parker's Dye Works, partially destroyed; loss \$8,000.—Store and dwelling at Stevensville, Ont., owned by Dr. Collier; loss \$6,000.—The Clarence, Eau Claire and Norman blocks at Calgary, N. W. T., were totally destroyed by fire on Monday last. The Clarence and Norman blocks were owned by Senator Lougheed. The loss is about \$75,000.

CONTRACTS AWARDED.

SHELburne, ONT.—\$5,000 village debentures have been sold to Central Canada Loan & Savings Co., at \$5,111.

SOREL, QUE.—It is said that Malone & Poupore, of Montreal, have secured the contract for wharf building and dredging at this place, price about \$250,000.

MONTREAL, QUE.—Casavant Bros., of St. Hyacinthe, have secured the contract for a large pipe organ for the church of Gesu, to cost upwards of \$12,000.

BROCKVILLE, ONT.—The James Smart Manufacturing Co. have been awarded the contract for warming and ventilating the public school at Petrolea, Ont., and the new opera house being built at Stratford by A. Bradenberger.

CHARLOTTETOWN, P. E. I.—Chappell Bros. have been awarded contracts for the following: Residence for Mr. Clarke, cost \$2,600; residence for Miss M. Campbell, cost \$2,500, and residence for C. McGlashan, cost \$1,100.

VANCOUVER, B. C.—The contract for building the new Wesley church, corner Burrard and Georgia streets, has been awarded to W. S. Hurst, of this city. The cost when completed, including the site, will be about \$40,000.

HAMILTON, ONT.—Tenders have been accepted as follows for erection of addition to McNabb street Presbyterian church: Mason work, Geo. Mills; carpenter work, J. S. Hossack; plastering, J. McKee; painting, A. E. McKenzie; plumbing, J. H. Stewart; electric wiring, Lowe & Farrell; roofing, Thos. Irwin & Son.

WATFORD, ONT.—The following tenders were received by the town for the purchase of \$2,687.59 debentures, bearing interest at 4½ per cent. per annum: W. E. Fitzgerald, \$2,616; Cronyn & Betts, \$2,687.59; Industrial Mortgage & Savings Co., \$2,687.59; G. A. Stimson & Co., \$2,701.50; Hiron & Lambton Loan Co., \$2,701.59; H. O'Hara & Co., \$2,711; Lambton Loan Co., \$2,715; W. C. Fitzgerald, \$2,737.59 (accepted.)

LONDON, ONT.—The Rogers Electric Co. have secured the contract for electric wiring of the new opera house at Stratford.—H. E. Matthews, architect, has awarded the following contracts for new double house on Talbot street, for Wm. Wyatt: Mason and brickwork, John Hymn & Son; carpentry, John Duncan & Son.—H. C. McBride, architect, has accepted the following tenders for the Sanitary Dairy Co.'s new building on Wellington street: Mason and brickwork, Everett & Snog; carpentry, W. Tyler.—H. C. McBride, architect, has awarded the contract for building the new frame stable on St. James street for Adam Beck to Christopher Greason.

RUST AND ITS PREVENTION.

(Continued from last issue.)

The process of rusting is quickened by the presence of acids, and also of certain salts, especially chloride of magnesium, sodium, potassium or ammonium. The reason appears to be that these form salts of iron which are more readily converted into sesquioxide than the metal itself.

With regard to protection, there are seven distinct methods of protecting the surface of iron from the formation of rust. Roughly, in order of their efficiency, they are as follows:—

1. The Barff process.
2. Painting with oil colour, especially with boiled oil and red lead.
3. Thorough rubbing with grease.
4. Painting with tar or asphalt.
5. Rubbing with graphite or black lead.
6. Plating or galvanizing.
7. Burnishing or browning.

The Barff process consists in coating the surface of the iron with the black magnetic oxide by exposing it to super-heated steam. The coating adheres well and is an excellent protective, but the process is, we believe, never used now. Probably it is too expensive in its application. The difficulty in painting iron is to get coats which fulfill the necessary conditions of adhesiveness and absence of porosity. Many paints give a porous coat, through which atmospheric agents and water can find their way to the iron below. Covering the iron with another metal is, of course, theoretically, a complete protection while the covering lasts. Some of these metallic coatings, too, however, are porous, and once, whether for that reason or because part of the metallic covering has been removed, the rusting agents can act on the two metals simultaneously, galvanic action makes the rusting of the iron much more rapid than it would have been had the iron been left completely unprotected. Browning iron, as is done with gun barrels, etc., is itself a kind of oxidation, and is of very little use as a preventive of oxidation of the ordinary kind. In applying a covering to an iron surface for the purpose of preventing it from rusting, it must be borne in mind that satisfactory adhesion is impossible unless the iron has a perfectly clean and dry surface when the coating is applied to it. Grease is a very good rust preventive, but so

long as it covers the surface completely, the amount of it is of small importance compared with its being thoroughly well rubbed into the pores of the iron. No doubt white lead added to the grease, as engineers do, tends to check rusting by reducing any sesquioxide that may be formed, and thus presenting to the agents of oxidation substances which they will more readily attack than the iron itself. Graphite may possibly also have both a covering and a deoxidising action.—Oils, Colours and Drysalteries.

BRICK OF SAND.

For thousands of years men have been making brick out of clay, and pretty good brick, too. But recently a new kind has come in vogue. It is composed chiefly of quartz sand, bound together with a small amount of lime. In the process of manufacture the compound is subjected to the influence of steam at high pressure. When properly made this brick is said to be hard, waterproof and able to resist the action of acids.

A lack of uniformity in the quality has been noticed, however. "Limestone brick" which are made in cold, wet weather seem to give less satisfaction than those produced under other meteorological conditions. But there is now promise that this difficulty will soon be obviated. A consular report from Germany announces that a Zurich chemist, William Schwartz, has found a way to get good results every time. The secret lies in controlling the amount of moisture admitted to the compound and maintaining the temperature within certain limits for a time. The former part of the process is managed in a vacuum, so that no dampness can be imparted by the atmosphere. Herr Schwartz has invented a machine of his own to do the mixing. Much confidence is expressed in the substantial value of the innovation reported.—New York Tribune.

CENTRAL CANADA

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Highest Market Prices paid for

Municipal Debentures

F. W. BAILLIE, Secretary. E. R. WOOD, Managing Director.

ADVANCE IN BUILDING PAPER.

Several changes have been made in the price of building paper. An advance of 10c. brings the price of tarred felt to \$1.70 f. o. b. Quebec, Montreal, Ottawa, Toronto, Hamilton and London, and \$1.80 f. o. b. St. John, N. B., and Halifax. An advance of 5c. makes the price of ready roofing in rolls 80c. per roll for two-ply and \$1.05 per roll for three-ply f. o. b. Quebec, Montreal, Ottawa, Campbellford, Toronto, Hamilton and London, and 85c. per roll for two-ply and \$1.10 per roll for three-ply f. o. b. St. John and Halifax. Ready roofing in squares has been raised to \$1.65 per square for 3-ply and \$1.40 for 2-ply f. o. b. Quebec, Montreal, Ottawa, Campbellford, Toronto, Hamilton and London.

DEBENTURES

Municipalities contemplating the issue of Debentures will find it to their advantage to communicate with

G. A. STIMSON & CO.

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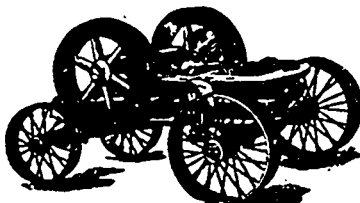
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SAWYER & MASSEY COMPANY, Limited, - Hamilton, Canada

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BUSINESS NOTES.

The creditors of Moise Rochon, builder, Montreal, are holding a meeting to-day.

Joseph Lafrance & Company, plumbers, Montreal, are reported to have filed consent of assignment.

A meeting of the creditors of P. Boileau & Frere, contractors, Isle Bizard, Que., was held yesterday.

BULLOCK

DIRECT CURRENT APPARATUS

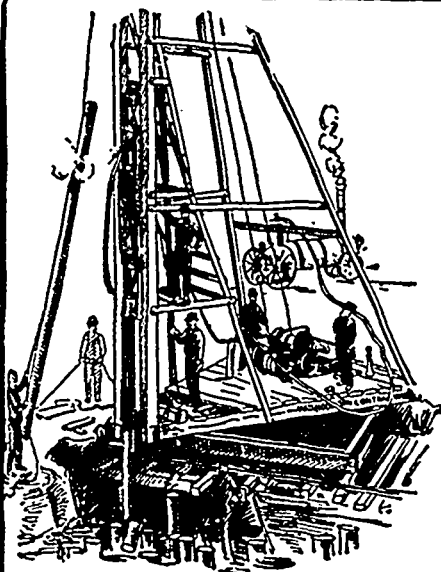
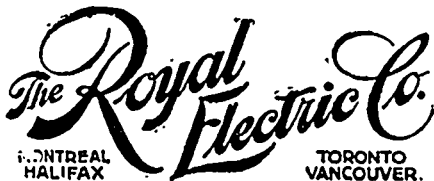
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Correspondence invited.

GEO. S. KILBOURN, Secretary-Treasurer.

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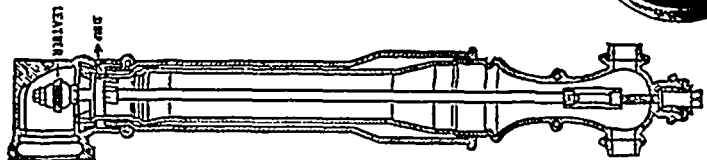
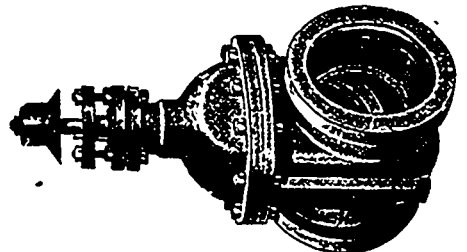
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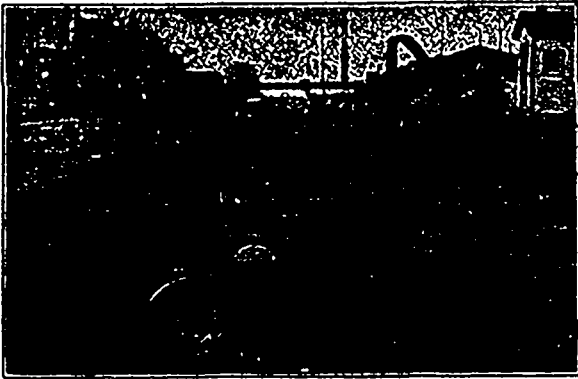
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MUNICIPAL DEPARTMENT

OLDEST FIRE ENGINE IN AMERICA.

From a booklet entitled "Beautiful Nova Scotia," published by the Yarmouth Steamship Company, we reproduce the accompanying illustration of the oldest fire engine



OLDEST FIRE ENGINE IN AMERICA.

in America. It was presented to the town of Shelburne, N. S., by King George III about one hundred years ago.

GOOD ROAD MOVEMENT.

The National Good Roads Association of the United States evidently believes that the time for action has come. It proposes to secure the construction of a sample mile of good road in every state of the Union, and to this end Congress has been asked for an appropriation of \$150,000 to start off with. W. H. Moore, a prominent financier of Chicago and St. Louis, has been elected president of the association. President Moore spoke of the work, aims and hopes of the association to a reporter of the New York World, and the report of the interview is worth reproducing:

"I have every reason to believe that our petition (for an appropriation of \$150,000) will succeed," said President Moore "Already two hundred and forty senators and congressmen have pledged to its support," he continued, "while all the leading railroad men in the country and the best citizens of every state endorse our plans. Stuyvesant Fish, president of the Illinois Central, is co-operating with us to win the active assistance of all the big railroads.

You would hardly credit the statement, but it is a fact, that the cartage of produce and merchandise last year cost \$250,000,000 more than their shipment by rail. In other words, the statistics accumulated by President Fish show that while railroad freight charges for the past year footed up a total of \$717,000,000 the cost of cartage to farmers and producers generally was \$967,000,000. The inevitable query is, why is this so? You can find the answer in the primitive

condition of the roads throughout many of the greatest producing states. It consumes valuable time and eats up money to cart produce long distances over these improperly constructed highways, which heavy rains render well nigh impassable. The railroads are so deeply interested in our scheme of improvement because as conditions now stand millions of dollar's worth of produce is being left in the fields to rot. Our plan may be told in few words. If we get the appropriation of \$150,000, we shall at once construct in every state a mile of sample road. This sample will show three distinct kinds of road—dirt, gravel and macadam. In some of the states we will break this sample mile into quarters. In other states we will build the miles as near to the capital as possible. Then, with these sample roads on view, we will employ skilled constructors to talk to the farmers. We will educate every community in every state to build and drain its roads in the most scientific manner. In every county of the United States, and there are 3,700 of them, the National Good Roads Association will establish a bureau of information. These bureaus will in turn be represented by individuals in each of the 63,000 townships of the country. It takes no prophet to foretell the result. With a year the improvement will be seen and felt

through every one of the great farming states"

THE VIAGRAPH.

This is an instrument, says a British exchange, for testing the unevenness of road surfaces. It is practically a straightedge applied to the surface of the road along which it is drawn in making a test, with an indicating part attached. A wheel which runs on the road surface and rises or falls over its irregularities actuates a pencil making a profile of the road surface on a paper strip to an appropriate scale. The instrument also indicates the total added depths of all ruts or depressions over which it passes, thus giving a coefficient of unevenness for each road. At the end of 88 yards a bell is rung automatically. The operator then stops the instrument and takes off the diagram.

Mr. Wm. Griffith, who has held the position of secretary-treasurer of the city of Sherbrooke, Que., since 1868, has resigned, and has been succeeded by Mr. F. J. Griffith.

Mr. Wallace C. Johnson, C.E., has accepted an appointment as chief engineer of the Shawinigan Water and Power Company, and has opened his office as consulting engineer at No. 1724 Notre Dame street, Montreal. Mr. Johnson has been the chief engineer of the Niagara Falls Hydraulic Power and Manufacturing Company at Niagara Falls, N. Y., for the past fifteen years, and has had entire charge of all the large work of power development which has been done by that company. He still retains a connection with that company as consulting engineer.

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Largest Makers in the World.

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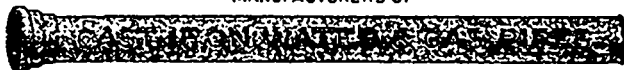
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Prices of Building Materials.

FRESSED BRICK, Per M.

Table with columns for TORONTO PRESSED BRICK AND TERRA COTTA WORKS, F.O.B. Milton, Ont., and F.O.B. Montreal. Lists items like Red No. 1, Buff No. 1, Brown, Roman Red, Hard Bulling, etc.

BEANSVILLE BRICK AND TERRA COTTA CO.

Table with columns for F.O.B. Beansville and F.O.B. Montreal. Lists items like Red Peatless Facing, Brown Peatless Facing, B.F. Peatless, etc.

COMMON BRICK, Per M.

Table with columns for F.O.B. Toronto and F.O.B. Montreal. Lists items like Common Walling, Good Facing, Sewer.

STONE.

Table listing various stone products like Common Rubble, Large flat Rubble, Foundation Blocks, Granite, etc.

INDEX TO ADVERTISEMENTS

In the "Canadian Architect and Builder."

Large index table with columns for Architects, Cements, Limes, Roofers, Builders' Supplies, etc., listing various companies and their locations.

CREDIT VALLEY STONE.

Table listing stone products like Rubble, Brown Coursing, Brown Dimension, etc.

SLATE.

Table listing slate products like Roofing, Terra Cotta Tile, Ornamental Slate Roofing.

CEMENT, LIME, etc.

Table listing cement and lime products like Portland Cement, Keene's Superfine, etc.

HARDWARE.

The following are the quotations to builders for nails at Toronto and Montreal: Cut nails, 50d & 60d, per keg...

Toronto, Montreal, CUT NAILS, FENCE AND CUT SPIKES.

Table listing cut nails and spikes with prices for Toronto and Montreal.

Iron Pipe:

Table listing iron pipe products like ron pipe, 3/4 inch, per 100 feet.

Lead Pipe:

Table listing lead pipe products like Lead pipe, per lb.

Galvanized Iron:

Table listing galvanized iron products like Adam's-Mar's Best and Queen's Head and Opello.

Structural Iron:

Table listing structural iron products like Steel Beams, channels, angles, etc.

ARCHITECTURAL VARNISHES. THE IMPERIAL VARNISH AND CHEMICAL CO. LIMITED. (Highest grade.)

Table listing architectural varnishes with prices for exterior wearing body, ivory, etc.