

# CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL  
— OF —  
PUBLIC WORKS • 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.*

VOL. 12.

MARCH 27, 1901

No. 8

## THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY WEDNESDAY

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## TO CONTRACTORS

Tenders will be received at the office of the undersigned until noon, SATURDAY, MARCH 30TH, for the several works required in the erection of a Boiler House, and also for the Steam Heating and Electric Power Plant of the proposed Central Heating System for Queen's University, Kingston, Ont. Plans and specifications can be seen at the office of the undersigned or at the office of Mr. Arthur Ellis, Architect, Kingston, where forms of tender can be obtained. The lowest or any tender not necessarily accepted.

SYMONS & RAE, Architects,  
15 Toronto Street, Toronto.

## BACTERIA BEDS

Tenders for the construction of two Bacteria Beds for the London Sewerage System will be received at my office (where plans and specifications may be seen) up to 5 o'clock on THURSDAY, 4th APRIL.

ORMSBY GRAYDON,  
City Engineer,  
London, Ont.

## TENDERS

For the construction of Granolithic Sidewalks in the Town of Palmerston will be received up to APRIL 15TH, 1901. Plans and specifications may be had by applying to

S. CASWELL,  
Town Clerk.

## Tenders Wanted

Tenders will be received by the Council of the Township of Hay, up to MONDAY, THE 31st DAY OF APRIL, 1901, for the construction of the following drainage works:

"East and West Branches South," 7,560 cubic yards.

"East Branch North," 13,020 cubic yards.

"West Branch North," 12,077 cubic yards.

Tenders must be separate for each Branch. Plan\* and profiles may be seen at the office of the undersigned.  
Satisfactory bonds are required to be furnished by the contractors.

FRED HESS, Sr.,  
Township Clerk.

Zerich, March 13th, 1901.



## Notice to Contractors

### TENDERS FOR DREDGING SLIPS

Tenders will be received by registered post only, addressed to the Chairman of the Board of Control, City Hall, Toronto, up till noon on TUESDAY, APRIL 2ND, 1901, for dredging slips.

Contents of envelopes containing tenders must be plainly marked on the outside.

Specifications may be seen, and forms of tender obtained, at the office of the City Engineer, on and after Tuesday, the 26th of March, 1901.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 5 per cent. on the value of the work to be done for up to \$1,000, and 2 1/2 per cent. on the value of the work tendered for over that amount, must accompany each tender, otherwise they will not be entertained.

Tenders must bear the bona fide signatures of the contractor and his sureties, or they will be ruled out as informal.

The lowest or any tender not necessarily accepted.

O. A. HOWLAND (Mayor),  
Chairman Board of Control.

City Hall, Toronto, March 21st, 1901.

## NOTICE TO CONTRACTORS

### Tenders for Pavements and Sidewalks.

Tenders will be received by registered post only, addressed to the Chairman of the Board of Control, City Hall, Toronto, up to noon on TUESDAY, APRIL 2ND, 1901, for the following works:

#### CONCRETE SIDEWALKS:

Bleeker street, east side, from Carlton street to Wellesley street

Scott street, west side, from Colborne street, to a point 104 feet 10 inches south.

Richmond street, north side, from a point 159 feet west of Yonge to Bay street.

Clinton street, west side, from College street to a point 2,325 feet 6 inches north.

Seaton street, west side, from Wilton avenue to Carlton street.

Crawford street, east side, from Arthur street to a point 1,483 feet north.

Lowther avenue, south side, from Bedford road to St. George street.

Ossington Place, both sides, from Ossington avenue to a point 260 feet west.

Wellington street, north side, from York street to Simcoe street.

Richmond street, north side, from a point 141 feet 10 inches west of Bay street to York street.

Richmond street, south side, from Bay street to Sheppard street.

Harbord street, north side, from Lippincott street to Bathurst street.

St. Vincent street, both sides, from Grosvenor street to St. Joseph street.

#### BRICK SIDEWALK:

Sherbourne street, east side, from An-roft Place to South Drive.

#### ASPHALT PAVEMENTS:

Church street, from King street to Wellington street.

Ossington Place, from Ossington avenue to a point 260 feet west.

#### MACADAM ROAD:

Coolmine road, from Dundas street to St. Anne's road.

#### CEDAR BLOCK PAVEMENT:

Huron street, from St. Patrick street to Coal street.

Contents of envelopes containing tenders must be plainly marked on the outside.

Plans and specifications may be seen and forms of tender obtained at the office of the City Engineer on and after Wednesday, March 20th, 1901.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 5 per cent. on the value of the work tendered for up to \$1,000, and 2 1/2 per cent. on the value of the work tendered for over that amount, must accompany each tender, otherwise they will not be entertained.

Tenders must bear the bona fide signatures of the contractor and his sureties, or they will be ruled out as informal.

Lowest or any tender not necessarily accepted.

O. A. HOWLAND (Mayor),  
Chairman Board of Control.

City Hall, Toronto, March 21st, 1901.

## NOTICE TO CONTRACTORS

The undersigned will receive up to 12 o'clock noon, SATURDAY, THE 30TH DAY OF MARCH, 1901, tenders for

15 ton Steam Road Roller.

Portable Mounted Rock Crusher,  
Elevator and Screen.

Crusher to be driven from Road Roller. Contractors to supply full specifications and photographs of the above implements, to be delivered at Calgary the FIRST DAY OF MAY, 1901. The lowest or any tender not necessarily accepted. For further particulars apply to

CHAS. McMILLAN, City Clerk,  
Calgary, Alberta.

## MUNICIPAL DEBENTURES FOR SALE

Local Improvement Debentures of the Town of Harriston, guaranteed by the town, are offered for sale by tender. Amount, \$7,491.50, payable in 20 equal annual instalments of \$551.26 each, payable on January 1st in each year, at the Standard Bank, Harriston. First instalment payable on January 1, 1902. As instalments include interest from January 1, 1901, the successful tenderer must pay in addition to amount of tender, interest at 4 per cent. on \$7,491.50 from January 1, 1901, to day of payment of purchase money. Amount of tender, and above mentioned added interest, payable at Standard Bank, Harriston, when debentures will be delivered. No tender necessarily accepted. Tenders will be opened on the FIRST DAY OF APRIL, 1901, and must be addressed to the undersigned. Dated at Harriston, this 14th day of March, 1901.

W. D. EBHELS,  
Town Treasurer, Harriston.



SEALED TENDERS, addressed to the undersigned, and endorsed "Tender for Hospital, Royal Military College, Kingston, Ont.," will be received at this office until FRIDAY, MARCH 29TH, inclusively, for the erection and completion of a Hospital Building, Royal Military College, Kingston, Ont., according to plans and specifications to be seen at the Department of Public Works, Ottawa, and at the office of Arthur Ellis Esq., Architect, Kingston, Ont.

Tenders will not be considered unless made on the form supplied and signed with the actual signatures of the tenderers.

An accepted cheque on a chartered bank, payable to the order of the Minister of Public Works, equal to ten per cent. (10%) of the amount of the tender must accompany each tender. The cheque will be forfeited if the party decline the contract or fail to complete the work contracted for, and will be returned in case of non-acceptance of tender.

The Department does not bind itself to accept the lowest or any tender.

By order,  
JOS. R. ROY,  
Acting Secretary.

Department of Public Works,  
Ottawa, March 21st, 1901.

Newspapers inserting this advertisement without authority from the Department will not be paid for it.

## TENDERS WANTED

Tenders will be received until 5 p.m. on **MONDAY, APRIL 15th**, for the various works required in the erection of a

### BRICK DWELLING HOUSE

on Elm Avenue, Rosedale. No tender necessarily accepted.

**GORDON & HELLIWELL, Architects,**  
Confederation Life Building.

## WANTED

An American company wants a suitable site in Ontario for a Beet Sugar Factory. Must have abundant water supply, with proper drainage.

Desirable quality limestone reasonably near, and adequate shipping facilities. Trial sugar-beet seed furnished.

Address Box 13, **CONTRACT RECORD**, Toronto.

## City Engineer Wanted

Applications will be received by the undersigned up to one o'clock, noon, of **APRIL 5th NEXT**, for the position of City Engineer of the City of Chatham, Ontario, to take charge of the public works of said city, also of the employees on said works. An engineer with municipal experience preferred. Applicants to state salary and be accompanied by references.

**W. G. MERRITT,**  
Clerk of Chatham.

## CONTRACTS OPEN.

**ATWOOD, ONT.**—The proprietor of the Atwood Bee purposes building a newspaper office.

**BERLIN, ONT.**—Steps are being taken to secure the erection of a new Y. M. C. A. building.

**ST. LOUIS, QUE.**—The municipality will likely call for tenders for construction of water mains.

**OWEN SOUND, ONT.**—Messrs. Leslie, Richardson and Kilborne will erect several houses this year.

**ST. THOMAS, ONT.**—The city is about to issue debentures for \$27,000 to build the Wilson bridge.

**GLACE BAY, C. B.**—The council will likely install an electric light plant during the coming summer.

**DIGBY, N. S.**—Mr. Fairn, of Halifax, is said to be preparing plans for a summer hotel to be built here.

**BROCKVILLE, ONT.**—The Cossitt Bros. Co. intend rebuilding a large portion of their works this summer.

**PINCHER CREEK, N. W. T.**—A new Roman Catholic church will be erected here; stained glass windows.

**RENFREW, ONT.**—W. B. Eady invites offers up to April 15th for erection of school house for S. S. No. 4, Horton.

**DRUMMOND, ONT.**—The Drummond council are likely to carry out the deepening and improving of McIntyre's creek.

**ARNPRIOR, ONT.**—An effort is being made to form a joint stock company to build a large hotel on Madawaska street.

**GALT, ONT.**—A by-law to grant a loan of \$8,000 to J. W. Williams, of Brampton, to build a shoe factory here, was carried by the ratepayers on Saturday last.

**HARRISTON, ONT.**—Plans by George Gray, architect, for an addition to the present school building, have been accepted.

**GUELPH, ONT.**—The Guelph Railway Co. have secured a charter for an electric road to Hespeler, via Puslinch lake, and also to Berlin.

**PORT PERRY, ONT.**—The ratepayers recently granted a loan of \$5,000 to Colin Munroe for the establishment of an evaporating factory.

**PENETANGUISHENE, ONT.**—Representatives of a Michigan firm were in town last week looking for a site on which to build a saw mill.

**VANCOUVER, B. C.**—The city council have decided to grant a franchise to the Stave Lake Power Co. to supply light and power within the city.

**STONEY CREEK, ONT.**—A joint stock company is being formed to build a town hall.—There is talk of the erection of a new Methodist church.

**STRATHCONA, N. W. T.**—Plans have been prepared for new block for Imperial Bank, corner Whyte avenue and Main street, to cost \$12,000.

**WINDSOR, ONT.**—The council are taking steps to secure a site for the new library building contemplated by Andrew Carnegie's offer of \$20,000.

**YARMOUTH, N. S.**—The Legislature will be asked to give the town authority to borrow \$10,000 for the purpose of putting in an electric light plant.

**THREE FORKS, B. C.**—J. M. Harris, of the Recco mine, Sandon, purposes establishing an electric light and power plant of 1,000 h.p. at this place.

**GLADSTONE, MAN.**—Tenders close April 15th for purchase of \$28,000 debentures of the municipality of Westbourne. Address T. L. Morton, this place.

**BRIDGEN, ONT.**—The Methodists may build a \$5,000 church this year.—George Cannon has purchased property on which to build a three storey brick block.

**HAMILTON, ONT.**—It is expected that work will be commenced in the spring on the extension of the Hamilton Radial Railway from Burlington to Oakville.

**ANTRIM, ONT.**—Whole or separate tenders for building brick Methodist church are invited by J. Gillan, secretary building committee, up to April 15th.

**SARNIA, ONT.**—The plans of J. C. Robson, architect, have been accepted for proposed school for 4th ward, and tenders for erection are about to be invited.

**TORONTO JUNCTION, ONT.**—The council have decided to ask for tenders for construction of an overhead bridge across the C.P.R. tracks, near foot of McMurray avenue.

**WALKERVILLE, ONT.**—Plans are being prepared for new car shops for the Lake Erie and Detroit River Railway, which may be located in Chatham, Bienheim, or this town.

**PERRH, ONT.**—W. J. Pink has purchased a site on Drummond street on which to build a pair of detached residences, from plans by T. Wilkey, architect, of London.

**NORTH GOWER, ONT.**—James E. Craig, clerk of North Gower township, wants tenders by May 10th for straightening and improving Mud Creek and the six branches thereof.

**RUSSELL, ONT.**—G. M. Bayly, architect, of Ottawa, is preparing plans for an addition to the school house at this place, and for a Presbyterian church to be built a few miles from here.

**HULL, QUE.**—A three storey brick and stone tenement building will be built on Main street by Charles Leduc.—St. Joseph's Society have decided to call for plans for their new hall.

**FREDERICTON, N. B.**—C. H. LaBillos, Commissioner of Public Works, invites tenders up to April 5th for erection of bridge over the Upper Big Tracadie river in Gloucester county.

**TRURO, N. S.**—At a recent meeting of ratepayers it was agreed to raise \$30,000 for the erection of a normal school building, \$23,000 for sewage construction, and \$3,900 for waterworks purposes.

**VICTORIA MINES STATION, ONT.**—Dr. Ludwig Mond, of London, England, expects to expend half a million dollars within the next twelve months in connection with mining operations in this vicinity.

**KINGSTON, ONT.**—It is said that the Kingston Consolidated Phosphates Co., of London, Eng., will establish a plant and erect buildings to cost half a million dollars. It is probable that they may locate in this city.

**MIDLAND, ONT.**—It is understood that James Playfair will build several houses this season.—T. I. Trueman, town clerk, invites tenders up to 8 p.m. of April 15th, for purchase of \$50,000 4 per cent. 40 year debentures.

**VICTORIA, B. C.**—The Streets Committee have recommended that tenders be called for supply of a rock crusher.—J. J. Woods, secretary school board, wants tenders by noon of 28th inst. for supply of a carload of school desks.

**WINDSOR, N. S.**—The Midland Railway Co. have asked the town to grant a site for terminal facilities for the road. There is possibility of the lines being extended from Truro through Pictou county and also from Windsor to Shelburne.

**PORT DOVER, ONT.**—J. H. Jewell, of Toronto, has organized the Port Dover Building & Improvement Co., to build an electric railway from Brantford and Waterford to Port Dover, and to erect this year a large hotel and forty cottages.

**HUNTSVILLE, ONT.**—A new building will be erected for the Forrester newspaper office.—Albert McCallum, C.E., of the Ontario Public Works Department, last week made an examination of the swing bridge with a view to replacing it with a steel structure.

**PARRY SOUND, ONT.**—It is likely that another by-law will be submitted to the ratepayers to raise funds with which to take over the electric light plant.—Tenders will be invited immediately for erection of school in east ward, from plans by Henry Simpson, architect, Toronto.

**SMITH'S FALLS, ONT.**—The council has made a grant of \$7,450 to purchase a site and erect an addition to Elgin school. J. A. Ellis, architect, of Toronto, has prepared plans for this addition, also for new offices for the Frost & Wood Co. and for the new hotel to be built by C. O'Reilly.

**LINDSAY, ONT.**—A special meeting of the Board of Trade will be held shortly to again consider the question of building a summer hotel at Sturgeon Point.—Tenders are invited up to April 10th for building new hospital in this town. Particulars from J. D. Flavell. Plans by Taylor & Gordon, architects, Montreal.

**HAMILTON, ONT.**—John Billings, honorary secretary of the City Hospital Board of Governors, has offered to erect a building at the hospital for outdoor patients, to cost \$5,000.—W. W. Lachance has been granted a building permit for a brick dwelling on Caroline street, between Bold and Hunter streets, for C. W. Dodman, to cost \$1,100.

**BRANTFORD, ONT.**—The authorities of the East Ward Presbyterian church have purchased a site on which to build a new church. At an early meeting plans for the building will be considered.—G. W. Hall, architect, has prepared plans for school building to be built at Mount Pleasant. Tenders for building same will be received by J. W. McLaren, Mohawk P.O., up to April 16th.

**LONDON, ONT.**—Local architects state that a large number of private residences will be erected in the city this year.—Colborne street Methodist church officials have decided to build a manse.—Tenders are being called for construction of proposed sewage filtration beds.—A. O. Graydon, city engineer, invites offers up to 5 p.m. of 28th inst. for construction of tile sewer on Piccadilly and Wellington streets.

**EDMONTON, N. W. T.**—T. A. Stephen has made application for the charter of the Edmonton Street Railway Co., now held by the town. His object is to build an electric road.—The new school to be erected this summer, for which the plans of Edmiston & Johnson have been accepted, will be a brick, ten-roomed building, to accommodate 500 pupils. The

heating will be by means of warm air ; estimated cost, \$30,000.

**QUEBEC, QUE.**—The Quiatchouan Pulp Co., capital \$150,000, is being organized in this city.—J. Gallagher, waterworks engineer, invites tenders up to April 9th for annual supply of iron castings, brass castings, lead pipe, cement and drain pipe, and until April 3rd for supplying stone, sand, deals, nails, etc., and laying macadam, stone and brick pavements.—Tenders are asked by W. D. Baillairge, assistant city inspector, up to April 3rd for a stone pedestal for statue of Queen Victoria on Victoria Park.

**WINNIPEG, MAN.**—Tenders have been taken for reconstruction of Swedish Lutheran Zion church and erection of parsonage. Particulars from J. Mattson, 304 Fountain street.—Tenders are invited up to April 18th for supplying the city with 200 tons of asphalt.—J. G. Russell, architect, has prepared plans for the new offices on McDermott avenue for the Lake of the Woods Milling Co., also for a two storey brick residence on Proud street for Fred. Sharp.—A new rectory for All Saint's church will be built this year, brick on stone foundation, cost \$4,000.—Nares, Robinson and Black have sold several sites on which residences will be built this year.

**OTTAWA, ONT.**—Tenders close noon today, Wednesday, for erection of new school building on Wellington street. Plans by William Hodgson, architect.—Arnold & Ewart, architects, are preparing plans for large government building to be occupied by the Surveyor General's Department ; estimated cost \$30,000.—Tenders for construction of a twin screw steel steamer are invited by the Department of Marine and Fisheries up to 4 p.m. of Tuesday, April 30th.—Plans have been prepared for a block of stores to be erected by R. J. Devlin on south side of Wellington street, between Bay and Lyon streets.—Rough plans have been completed of the new theatre to be built on Wellington street by a local syndicate. Material will be brick.—As soon as spring opens work will be commenced on the building of round house, turntable, freight sheds, sidings, and other terminal facilities for the Ottawa & New York Railway Co. The site selected is at the corner of Ann and Nicholas streets.

**MONTREAL, QUE.**—The Road Department intends to construct immediately a sewer in Guilford street, between St. Andre and Massue streets.—W. Robb, city treasurer, invites offers up to April 25th for purchase of \$300,000 per cent. coupon bonds, while the bank of Montreal will receive tenders up to same date for purchase of the whole or any portion of \$1,500,000 of city bonds.—The authorities of McGill University have decided to build a new wing, to be four storeys and basement, and to contain a large number of lecture theatres, museums, and chemical laboratories.—It is stated that a syndicate is being formed to purchase the block on St. James street west from the burned May building, on which to build a palatial hotel.—It is expected that the new building to be erected by the Consolidated Electric Lighting & Gas Co. will be located on the lot on St. James street adjoining Freeman's.—The Grand Trunk Railway Co. have had plans prepared for a large fruit shed to be built between Aqueduct and Mountain streets, to cost \$20,000.—The Chateaugay & Northern Railway Co. have decided to call for tenders at an early date for construction of their road from Montreal to Joliette. This will include a large bridge between Bout de l'Isle and Charlemagne.—Plans are being prepared for the new Erskine Presbyterian church, stone, seating capacity 600, cost \$6,000.—Captain

Wolvin, of Duluth, has made a proposition to the Harbor Commissioners to assume the Connors contract to build elevators. He is also willing to agree to erect terminal facilities, etc., at Port Colborne, at a cost of \$3,000,000.

**TORONTO, ONT.**—Plans of new hospital to be built at Lindsay, Ont., are on view at office of D. B. Dick, architect, 17 Toronto street. Tenders close Wednesday, April 10th.—Plans of steel steamer to be built for the Dominion Government may be seen at the Customs House in this city. Tenders close April 30th.—Symons & Ras, architects, invite tenders in this issue for erection of boiler house and for steam heating and electric power plant for Queen's University, Kingston.—It is understood that the Imperial Government has decided to erect a commodious building on College street for the Science Department of Toronto University, at an estimated cost of \$200,000.—F. H. Herbert, architect, has prepared plans for a one-story palm room and annex to be erected in the rear of Bingham's drug store at 100 Yonge street, for the Cawthra estate. Same architect has taken tenders for a large residence to be erected on Huron street annex for R. Mulholland, and for an extension to wine factory on Atlantic avenue for J. W. Lee & Co. He is also preparing plans for a new store and office building on Wellington street, tenders for which will shortly be called for.—Ground is being broken for a new residence at the corner of Lowther avenue and Admiral road.—The experts appointed to examine the plans presented for new exhibition buildings reported that it was impossible to bring any of them within the appropriation. All the plans were therefore rejected, and a sub-committee appointed to report whether the buildings provided for could be erected for the sum specified, namely, \$106,000 for main building, \$14,000 for dairy building, and \$10,000 for art gallery.—The buildings to be erected by the Canadian General Electric Co. between Davenport road and Royce avenue, west of the G. T. R. tracks, will consist of a large general foundry, pipe foundry, machine shops, structural iron shops, blacksmith shops, power house, etc. The general foundry will be built first, then the pipe foundry to manufacture water pipes, valves and general waterworks supplies. It is expected that the work of construction will be commenced in the early summer.—The city has given notice of its intention to construct the following roadways : Asphalt pavement on York street, from King to Queen, cost \$14,990. Macadam

roadway on Avenue Place, from Avenue Road to Hazleton avenue, cost \$1,590 ; on Howland avenue, from Barton avenue to north city limit, cost \$11,600 ; and on Elizabeth street, Colledge to Grenville, cost \$1,215. A cement concrete sidewalk will be built on King street, from Lewis street to G. T. R. tracks, cost \$1,762.—Building permits have been granted as follows : W. H. Hutchinson, 12 attached two-storey brick and stone dwellings, Czar street, near Balmuto, cost \$10,000 ; O'Keefe Brewing Co., malt house on Victoria street, cost \$20,000 ; W. R. McCullough, two-storey dwelling, Arthur street, cost \$3,200 ; J. Jackson, two-storey dwelling, 41 Gerrard street west, cost \$1,500.—Tenders are wanted by the city up to April 2nd for dredging slips.

**FIRES.**

Acadia Valley House at Acadia Valley, N. S., owned by N. B. Raymond ; loss \$9,000.—General store at St. George, Beauce county, Que., owned by A. Dionne ; loss \$3,000.—Residence of W. M. Shaw, at St. Catharines, Ont., damaged to extent of \$1,500.—Shuswap Milling Co.'s saw mill at Kamloops, B.C. ; loss \$30,000, insurance \$15,000.—Wiseman's hotel at St. Lambert, Que., totally destroyed.—Residence of Dr. G. B. Manseer at Woodstock, N. B. ; insurance \$1,400.—Nesbitt's private bank, Mawson's hardware store, and other buildings at Roland, Man. ; loss \$25,000, partially insured.

**CONTRACTS AWARDED.**

**ST. THOMAS, ONT.**—Mausoleum for D. Luton : Doggett & Co., contractors.  
**KINGSTON, ONT.**—Wiring drill hall Breck & Halliday, successful tenderers.  
**GEORGETOWN, ONT.**—Rebuilding Presbyterian church : Josiah Mason, of Brampton, contractor.

**BONDS WANTED**  
We want to buy city, county, town, and township bonds, issued throughout Canada. Add our  
**CENTRAL Loan & Savings Company**  
TORONTO.

**Good Roads Machinery Co. (Registered)**

JOHN CHALLEN, Manager, HAMILTON, ONT.

“CHAMPION” Rock Crushers, Road Rollers, Road Graders, Road Plows, Macadam Spreading Wagons, Street Mud Cleaners, Wheel & Drag Scrapers.

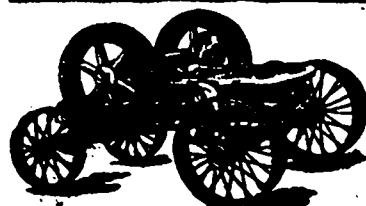
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**McGREGOR & McINTYRE** 65 to 73 Pearl Street TORONTO, ONT.

**STRUCTURAL IRON WORKS**

Trolley Pole Brackets ; Electric Light Arms ; Prison and Jail Cells ; Fire Escapes ; Automatic Fire Shutters and Doors ; Iron Sidewalk Doors, Etc.

We stock Bar Iron, Bar Steel, Steel Angles, Channels, Etc.



**STONE** Crushers, Stone Spreading Wagons, Wheelers and Drag Scrapers, Plows, Steam and Horse Rollers, Road Graders, &c.

**SAWYER & MASSEY COMPANY, Limited - Hamilton, Canada**

VICTORIA, B.C.—Creamery on Carey road, 51 x 30 feet, with boiler house: Ald. Bryden, contractor.

HAMILTON, ONT.—W. J. McAllister has secured contract for supplying lumber for Board of Works, at \$17.15 per thousand.

OTTAWA, ONT.—Frigon & Gauthier have received contract for building new church at St. Chrysologue, Que.; estimated cost, \$25,000.

BRANTFORD, ONT.—The city has awarded the following contracts: Sewer pipe, John Mann & Sons, London; cement, Samson brand in bulk, 350 lbs. net, Thomas Elliott.

WESTON, ONT.—Steel bridge over Humber river at this place. Stone abutments, David Chalmers, of Owen Sound, price about \$3,000; superstructure, Dominion Bridge Co., \$3,068.

LONDON, ONT.—Aughrim bridge over Sydenham river, on town line between

Brooke and Euphemia. Stone work, J.C. Lewis, this city, \$3,000; steel superstructure, Hamilton Bridge Co., \$3,128.—The Hobbs Hardware Co., this city, have secured contract for stained glass windows

for new Methodist church at Warton, St. John, N.B.—Addition to Bank of Nova Scotia: Edward Bates, general contractor, John Flood, masonry, etc. (Continued on page V1.)

# JOSSON CEMENT ..Manufactured at NIEL ON RUPELL

Is the Highest Grade Artificial Portland Cement and the Best for High Class Work. Has been used largely for Government and Municipal Works.

TO BE HAD FROM ALL CANADIAN DEALERS

C. I. de Sola. Manager in Canada .. 180 St. James Street, MONTREAL

## PORTLAND CEMENT

**Samson Brand Magnet Brand**

MADE AT SHALLOW LAKE, ONTARIO

Our celebrated SAMSON BRAND has been before the public for many years, and has made hosts of friends among Contractors and Municipal Corporations until it has become one of the leading Cements on the market to day, being excelled by none. This year we have decided to place the MAGNET on the market, and respectfully ask consumers to give it a trial. It will, we think, do its own advertising.

Correspondence invited. . . . .

GEO. S. KILBOURN, Secretary-Treasurer.

WORKS: Shallow Lake, Ont. - HEAD OFFICE: Owen Sound, Ont.

## CEMENT

SAYLOR'S PORTLAND. Best Imported. For Side-Walks and Bridge Work.

Write to

**JOHN MANN & SONS,**

WESTERN AGENTS. LONDON, CANADA

## M. BEATTY & SONS

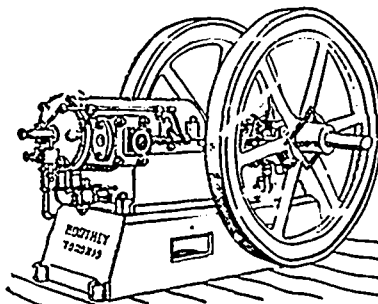
WELLAND, ONT.

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of various Styles and sizes to suit any work.

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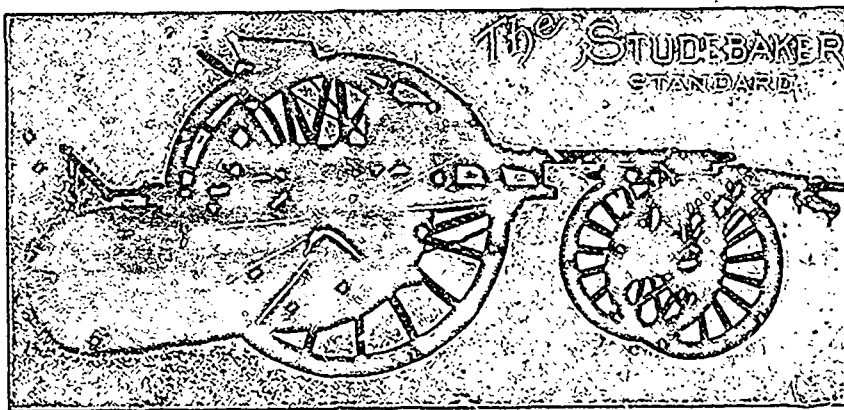
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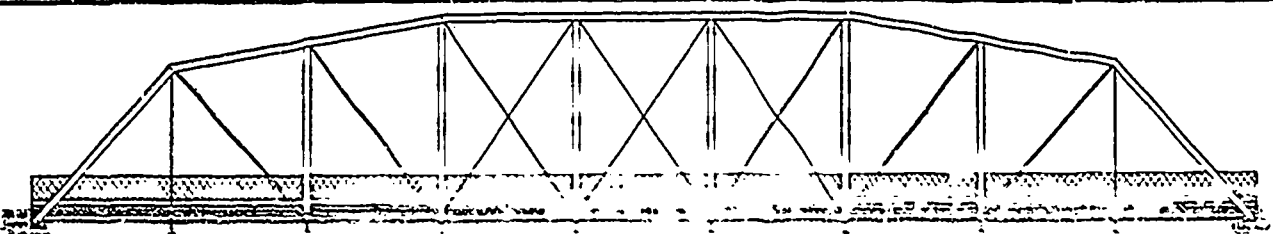
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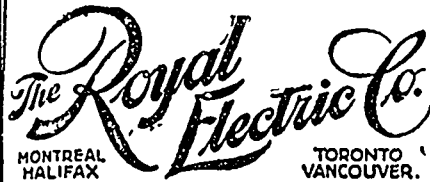
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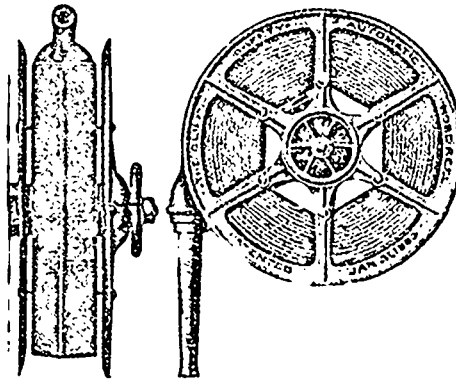
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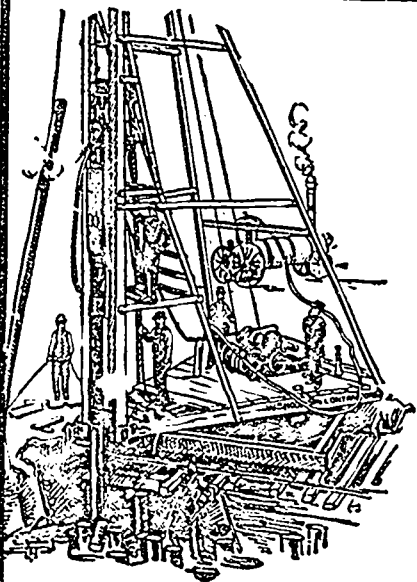
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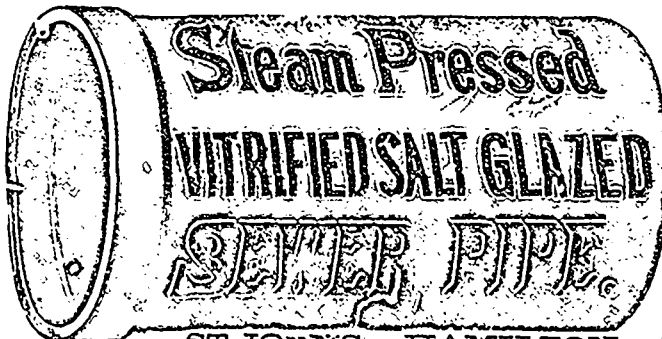
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and E. Blake heating and plumbing.—School building in Carleton. B. Mooney & Sons, contractors; Andrew Myles, subcontractor for carpentry.—The following tenders were received by the council for supply of special castings and water pipe: 12 tons special castings—R. D. Wood Co., Philadelphia, 2½ cents per pound, ex vessel, St. John Iron Works, St. John, 2¼ cents a pound, (accepted); Jas. Fleming, St. John, 3½ cents a pound or \$2.95 a hundred; Londonderry Iron Works, 2½ cents, landed in St. John; U. S. Cast Iron Pipe and Foundry Co., 2½ cents a pound landed at St. John, ex duty. 118 tons cast iron water pipe—U.S. Cast Iron Pipe and Foundry Co., \$22.90 per ton, ex duty; R. D. Wood Co., Philadelphia, \$22.80 a ton, ex vessel, exclusive of duty, which is \$8 a ton, (accepted); Londonderry Iron Works, \$31 a ton, landed in St. John.

TORONTO, ONT.—The Board of Control last week awarded the following contracts: Asphalt pavements—Huron street, Cecil College, \$4505, and Leopold street, from Jameson to Dowling, \$3918, W. G. McKendrick; Fahey avenue, Bathurst to Tecumseh, \$406, Barber Asphalt Company. Macadam roads—St. Joseph, from St. Vincent to 698 feet west, \$2980, and Isabella street, Yonge to Jarvis, \$6407, Constructing and Paving Co. Cedar block pavement—Alma avenue, Gladstone to Dufferin, \$740, W. F. Grant & Co. Asphalt pavement repairs, Dominion Paving Co. Concrete sidewalks—Queen street, A. Gardner & Co., \$1.68; Elm street, A. Gardner & Co., 69c.; Gerrard street, 69c., W. Millichamp; Huron street, 59c., A. Gardner & Co.; Gerrard street, \$1.12, Constructing and Paving Co.; Carlton street, 68c., W. Millichamp; Dunbar road, \$1.08, A. Gardner & Co.; Front street, \$2.74½, W. F. Grant & Co.; Hayden street, 47c., Grosvenor street, 67c., St. George street, 69c., Rose avenue, 68c., all to A. Gardner & Co.; Lowther avenue, \$1.50, City Engineer. Sewers—Lee avenue, \$300, and Glen road, \$1000, City Engineer.

#### BLASTING.

The plan most economical of powder would be to fire 5, 7, 9, and 11 in the second volley; 6, 8, 10 and 12 in the third, and 13, 14, 15, 16, 17, 18, 19 and 20 in the fourth. Conditions, however, might render it more economical to use larger charges in holes 6, 8, 10 and 12, and include them in the same volley with 5, 7, 9 and 11. All the enlarging shots are breaking to two free faces, being nearly the equivalent of bench blasting, and they all have relatively short lines of least resistance, properly proportioned to the depth of the holes. The last volley serves the purpose of "trimming-up" shots, so that the walls left should be clean and true. In order to avoid irregularities in the walls it is essential to start these holes

as close to the walls as possible, and to give them very little inclination from the perpendicular, and then to maintain exactly correct proportions between the line of least resistance, the diameter of the hole and the charge used.

#### V-SHAPED CENTER CUT.

In Fig. 6 is shown the V-cut, which offers two advantages. There are fewer dry holes to be bored, and the "key" can be broken out with smaller charges, since 1, 2, 3, and 4 are short holes, as appear in the section on A B, the line of least resistance for these being correspondingly short. These four constitute the first volley and provide shorter lines of least resistance for the remaining breaking in shots, 5, 6, 7 and 8, which make the second volley. The third volley comprises holes 9, 10, 11, 12, 13 and 14; and the fourth volley, which trims up, includes 15, 16, 17, 18, 19, 20, 21 and 22.

These will serve as suggestions for economical work under normal conditions in hard homogeneous rock, special conditions requiring suitable modifications.

The consumption of explosives in practice is found to be approximately as follows:

For small blasts in open working, ¼ to ½ lb. of black powder, and 1-16 to ¼ lb. of dynamite per ton of rock.

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For headings, tunnels and shafts, ½ to 2 lb. of dynamite per ton of rock.

#### THE LONG-HOLE METHOD.

Deep bore holes, or the long-hole method, has been adopted in both shaft sinking and in bench blasting, in open cuts and in large stopes. In the case of shaft sinking a series of diamond drill holes are bored to the full depth of the shaft, and filled with sand. A sufficient depth is left empty to receive a charge of 75 per cent dynamite, and the holes are fired simultaneously. Then sand is spooned out to make room for another cut, and so on to the bottom. Although the line of least resistance coincides with the line of the bore-hole, this disadvantage is offset by the use of the high-power dynamite, and by the great saving of time and cost in drilling. In adapting this method to bench blasting holes are drilled as deep as convenient in parallel rows, filled with sand as before, and successive slices are then blasted off. Where conditions render this system capable of adoption it affords highly economical results.

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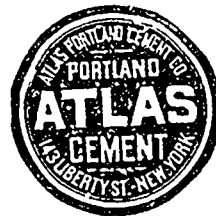
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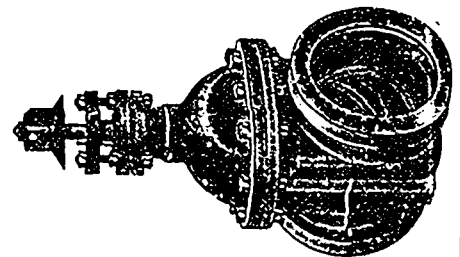
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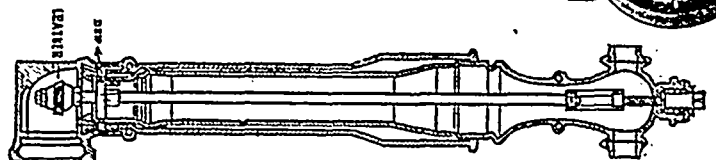
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B. ctuac. Oliviv Freestone.....	85	

# INDEX TO ADVERTISEMENTS

In the "Canadian Architect and Builder."

<b>Architects.</b> Ontario Directory..... III Quebec Directory..... V	<b>Contractors' Plant and Machinery</b> Rice Lewis & Son.... IV	<b>Lime.</b> Ontario Lime Association..... viii Robertson & Co..... vii	<b>Roofers</b> Campbell & Gilday Duthie & Sons, G... Douglas..... Forbes Roofing Co. v Nicholson & C. D. v Rennie & Son, Robt v Ormsby & Co. A. B. v Ringham, George v Stewart & Co. W. T. v Williams & Co., H. v
<b>Architectural Sculptors and Carvers.</b> Holbrook & Molling- ton..... i	<b>Cements.</b> Bremner, Alex..... 71 Owen Sound Portland Cement Co..... 71 The Ratbu. Co..... 72	<b>Legal.</b> Quinn & Morrison.. 111	<b>Stained and Decorative Glass</b> P'oomfield & Son, Henry..... Lorwood & Sons, H. 74 Leonard, B..... 74 Mackey Stained Glass Co..... 74 McKenzie's Stained Glass Works..... 74 The Robert McCaus- land Stained Glass Co..... 111
<b>Architectural Iron Work.</b> Canada Foundry Co vi Dominion Bridge Co. I Hamilton Bridge W ks C..... IV Watso, J hn..... III	<b>Crescent Stairs</b> Cabot, Samuel..... 69	<b>Matt Chutes.</b> The Cutler Mfg. Co... I	<b>Shingles and Sidings</b> Metallic Roofing Co. 71 Ormsby & Co., A. B. v Pedlar Metal Roofing Co..... 71 Preston Metal Shingle and Siding Co..... 71 Roofers Supply Co... v Sott Pipe Stairs H J amilton. ... 69
<b>Art Woodwork</b> Southampton Mfg Co 111	<b>Drain Pipe</b> Bremner, Alex..... 71	<b>Mortar Colors and Shingle Stains.</b> Cabot, Samuel..... 69 Muirhead, Andrew... 1	<b>Titles.</b> Lund, Charles..... 111
<b>Architects' Supplies</b> Ch. s Potter..... iv	<b>Elevators</b> Fensom, Alex..... 1 Leitch & Turnbull... 1 Mall ch & Co..... 1 Miller Bros & Toms. iv Turnbull & Russell ColV	<b>Ornamental Iron Work.</b> Dennis Wire & Iron Co iv Toronto Fenc & Orn- amental Iron Works. iv Watso, J hn..... III	<b>Wall Paper</b> Albert Mfg. Co..... v Bremner, Alex..... v The B. Greening Win- Company..... v Metallic Roofing Co. 71 P. dlar Company..... v
<b>Builders' Supplies.</b> Bremner, Alex..... 71 Johnston, J D..... v Montreal Directory vii Ontario Lime Associa- tion..... viii Rob'tson & Co. D..... viii Rice Lewis & Son..... IV Toronto Directory..... vii	<b>Embossed Moulding</b> Boynnton & Co.....	<b>Painters.</b> Montreal Directory. viii Toronto Directory. viii	<b>Plumbers</b> Montreal Directory. viii Toronto Directory.. viii
<b>Art Woodwork</b> Southampton Mfg Co 111	<b>Engravers.</b> Can. Photo-Eng Bu- reau..... vi	<b>Prisms.</b> Lyon, NT, Glass Co.. 68	<b>Reflectors</b> Frink, I. P..... 111
<b>Art Woodwork</b> Southampton Mfg Co 111	<b>Folding Partitions.</b> Springer, O. T..... i	<b>Patents and Varnishes</b> Canada Paint Co. v Imperial Var. sh & C. L. R. Co..... 70 Muirhead, Andrew... 1	<b>Roofing Materials</b> Ormsby & Co., A. B. I Metallic Roofing Co. 71 Pedlar Metal Roofing Co..... v Preston Metal Shingle and Siding Co. 71 Roofers Supply Co. 1
<b>Art Woodwork</b> Southampton Mfg Co 111	<b>Grilles and Railings.</b> Dennis Wire & Iron Co. iv Toronto Fenc & Orn- amental Iron Works. iv Southampton Mfg. ColII	<b>Parquetry Floors</b> Elliott & Son Co..... iv	<b>Roofers Supply Co.</b> 1
<b>Art Woodwork</b> Southampton Mfg Co 111	<b>Granite</b> Brunet, Jos..... vii	<b>Plate Glass</b> The Consolidated Plate Glass Co..... II Toronto Plate Glass Co..... iv	
<b>Art Woodwork</b> Southampton Mfg Co 111	<b>Gas and Electric Fixtures</b> Bl ck & Boyd Mfg Co i	<b>Plumbers</b> Montreal Directory. viii Toronto Directory.. viii	
<b>Art Woodwork</b> Southampton Mfg Co 111	<b>Heating.</b> Dominion Radiator Mfg Co..... 111 Gurney Foundry Co iii Ormsby & Co., A. B. I Smart Mfg Co, Jas. v Read & Co. G. W. II	<b>Roofing Materials</b> Ormsby & Co., A. B. I Metallic Roofing Co. 71 Pedlar Metal Roofing Co..... v Preston Metal Shingle and Siding Co. 71 Roofers Supply Co. 1	
<b>Art Woodwork</b> Southampton Mfg Co 111	<b>Interior Decoration</b> Elliott & Son Co..... vi		
<b>Art Woodwork</b> Southampton Mfg Co 111	<b>Landscape Archi- tect</b> Fredrick G T. d... 111		
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" purple.....	8 50	10 00			
" ding green.....	8 50	7 00 8 00			
" black.....	7 50	6 50			
Terra Cotta Tile, per sq.....	20 00	25 00			
Ornamental Black Slate Roofing	8 80	6 80			
CEMENT, LIME, etc.					
Portland Cements -					
Belgian Brands, per bbl.:					
" Jossion " Brand Portland.	3 05	3 25	2 70	2 80	
" North's " Condor.....	4 95	3 10	3 55	2 65	
Alsen's, (German).....	3 00	3 15	2 60	2 75	
Karlstadt " (German).....	3 05	3 25	2 75	2 90	
English, artificial, per bbl.	2 85	3 00	2 35	2 45	
Rathbun's Star, per bbl.....	2 65	3 00			
Beaver.....	2 55	2 90			
Ensign.....	2 40	2 75			
".....		1 50			
Ruman.....		2 20	2 25		
Parian.....		5 25	5 75	5 75	
Keene Superfine "Whites".....	11 00	12 00	9 00	10 00	
Keene's Coarse "Whites".....	8 50	8 50	9 00		
Fire Bricks, Newcastle, per M	30 00	35 00	16 00	21 00	
" Scotch.....	30 00	35 00	19 00	21 00	
Lime, 100 lbs., Grey.....		30		30	
" White.....		35		30	
Plaster, Calcined, N. B.....		2 00		1 50	
" N. S.....		2 00		1 50	
Hair, Plasterers', per bag... 80		1 00		0 00	
HARDWARE.					
The following are the quotations to builders for nails at Toronto and Montreal:					
Cut nails, 60d & 60d, per keg	2 85	2 85			
" " " "	2 95	2 95			