

Technical and Bibliographic Notes / Notes techniques et bibliographiques

The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of filming, are checked below.

L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.

Coloured covers/
Couverture de couleur

Covers damaged/
Couverture endommagée

Covers restored and/or laminated/
Couverture restaurée et/ou pelliculée

Cover title missing/
Le titre de couverture manque

Coloured maps/
Cartes géographiques en couleur

Coloured ink (i.e. other than blue or black)/
Encre de couleur (i.e. autre que bleue ou noire)

Coloured plates and/or illustrations/
Planches et/ou illustrations en couleur

Bound with other material/
Relié avec d'autres documents

Tight binding may cause shadows or distortion along interior margin/
La reliure serrée peut causer de l'ombre ou de la distorsion le long de la marge intérieure

Blank leaves added during restoration may appear within the text. Whenever possible, these have been omitted from filming/
Il se peut que certaines pages blanches ajoutées lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages n'ont pas été filmées.

Additional comments:/
Commentaires supplémentaires:

Coloured pages/
Pages de couleur

Pages damaged/
Pages endommagées

Pages restored and/or laminated/
Pages restaurées et/ou pelliculées

Pages discoloured, stained or foxed/
Pages décolorées, tachetées ou piquées

Pages detached/
Pages détachées

Showthrough/
Transparence

Quality of print varies/
Qualité inégale de l'impression

Continuous pagination/
Pagination continue

Includes index(es)/
Comprend un (des) index

Title on header taken from:/
Le titre de l'en-tête provient:

Title page of issue/
Page de titre de la livraison

Caption of issue/
Titre de départ de la livraison

Masthead/
Générique (périodiques) de la livraison

This item is filmed at the reduction ratio checked below/
Ce document est filmé au taux de réduction indiqué ci-dessous.

10X	12X	14X	16X	18X	20X	22X	24X	26X	28X	30X	32X
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL

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. 9.

APRIL 13, 1898

No. 11.

THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY WEDNESDAY

As an Intermediate Edition of the "Canadian Architect and Builder."

Subscription price of "Canadian Architect and Builder" (including "Canadian Contract Record"), \$2 per annum, payable in advance.

C. H. MORTIMER, Publisher,
CONFEDERATION LIFE BUILDING, TORONTO.
Telephone 2762.

TENDERS WANTED

Separate tenders will be received by the undersigned up to 12 O'CLOCK, NOON, MAY 25th, for the erection of

TWO STEEL BRIDGES,

83 ft. c. to c., end pins; roadway, 12 ft. clear; moving load, 100 lbs sq foot

Also for about 200 yards Masonry, Quarry Stone, to be built with Cement Mortar.

Also for the driving of about 200 piles, 12 inches at large end, to the depth of about 10 ft

Stone and piles furnished by Cou cil.
Further information may be had from John Fair, Engineer, Brantford, or from the undersigned.

PHILIP KELLY,
Township Clerk,
New Durham.

Brantford, April 11th, 1898.

WATERWORKS

FORT WILLIAM, ONT.

Sealed Tenders, addressed to the Secretary, will be received by the Board of Water and Light Commissioners up to 5 p.m. on

Friday, 15th April, 1898.

Lump tender wanted, covering all material and labor, for Power House, Pumping Machinery, Seven Miles of Main, Elevated Storage Tank, Etc

Full particulars can be had and plans and specifications seen at Fort William and at the head office of the Consulting Chief Engineer, John Galt, Esq., C.E. and M.E., Canada Life Building, Toronto.

Marked bank cheque, payable to Board of Water and Light Commissioners, for 6 per cent of tender, must accompany bid.

The lowest or any tender not necessarily accepted.

T. ED. OAKLEY,
Secretary-Treasurer.

TENDERS FOR ELECTRIC LIGHTING

for the City of Brantford.

Sealed tenders endorsed "Tender for Electric Lighting" and addressed to D. B. Wood, Esq., Chairman of the Fire, Light and Sewers Committee, Brantford, Ont., in care of the City Clerk, will be received up till noon on THURSDAY, THE 28th DAY OF APRIL, 1898, for the following:

(a) The lighting of the streets of the city for a period of five or ten years, optional with the city, with 120 or more 2,000 candle power Arc Lights, and 80 32 candle power incandescent lights, to be operated all night and every night, and for the lighting of the Public Buildings.

(b) The furnishing the city with sufficient electric current to operate the above lights all night and every night, or on a moonlight schedule, and for a period of five or ten years, optional with the city.

(c) The installation of a municipal lighting plant.

Plans and specifications for the above work can be seen at the office of the Chief of the Fire Department, Brantford.

Each tender must be accompanied by an accepted bank cheque, made payable to the City Treasurer, for the sum of \$1,000, which will be forfeited if the parties tendering decline to enter into the contract when called upon to do so.

The lowest or any tender not necessarily accepted

D. B. WOOD,

Chairman of Fire, Light and Sewers Committee.
Brantford, Ont., April 11th, 1898.

TENDERS

Tenders will be received until 4 p.m. on Monday, April 13th, for the erection of a SUMMER COTTAGE on the Lake Shore, east of Victoria Park.

GORDON & HELLIWELL, Architects,
Confederation Life Building.

CONTRACTS OPEN.

CASCADE CITY, B. C.—Hall Bros. purpose building a large hotel and store.

LUCAN, ONT.—F. F. Downing has purchased property on which to build.

PORT ARTHUR, ONT.—It is said that the C.P.R. will erect a new station here.

GODERICH, ONT.—The foundation of P. Lynn's residence has been completed.

MERLIN, ONT.—The site is being prepared for the proposed new Methodist church.

HEADINGLY, MAN.—Howard & Sons, an Ontario firm, will build a large flour mill here.

MADOC, ONT.—Mr. Hungerford has made a proposition to establish a smelter in this vicinity.

GANANOQUE, ONT.—The Provincial Hotel, occupied by Neil McCarney, will be remodelled.

SKEAD'S MILLS, ONT.—Work has commenced on the foundation of the new Methodist church.

UNBRIDGE, ONT.—J. H. O'Brien wants tenders for building additions to a stone arch on Brock street.

WALKERTON, ONT.—The County Council has decided to erect the House of Refuge in this town.

MARIEVILLE, QUE.—A bonus of \$10,000 has been granted to Mr. Guillet for the erection of a hat factory.

MOSA, ONT.—Tenders have been invited by Duncan Campbell, Kilmartin, for building a Presbyterian manse.

GRAND FORKS, B.C.—W. B. Davey, of the Grand Forks Mercantile Co., will build an opera house here at once.

OWEN SOUND, ONT.—Work has commenced on the new C. P. R. round-house, under the supervision of John McLean.

ESSEX, ONT.—Claude Vance has purchased property corner Talbot and Bryan avenue, and will erect a residence thereon.

BROCKVILLE, ONT.—It is understood that G. G. Lafayette intends making improvements to two stores on King street.

RENFREW, ONT.—It is rumored that a syndicate of local capitalists will build a large hotel adjoining the Albion Square.

NORWICH, ONT.—W. M. Davis, C.E., of Woodstock, will report to Council of this town on the question of sewerage extension.

DIGBY, N. S.—Oakes Bros., of Weymouth, have purchased property on Water street on which to erect a two storey building.

KINGSVILLE, ONT.—Saxby & Dryden

will build a power house and install therein a 500-light alternator and 50 light arc machine.

MARKHAM, ONT.—The town will add 500 feet of 6 inch pipe and two hydrants to their present system.

TILBURY, ONT.—Plans have been prepared for a separate school, but it is improbable that work will be commenced this summer.

PARRSBORO, N. S.—A pulp mill will probably be erected at Moose river, on property owned by Messrs. Tucker, Hentley and Epps.

CHATHAM, N. B.—Jas. F. Connors, town clerk, will receive offers until the 15th of May for the purchase of \$10,000 of town bonds.

RICHMOND, QUE.—Mr. Lariviere and others are applying for incorporation, for the purpose of extending the waterworks system of this town.

LISTOWEL, ONT.—J. W. Meyers & Co. will make improvements to their flour mill, cost \$7,000, and also build an elevator, 30 x 48 feet.

NEEPAWA, MAN.—The School Board will submit a by-law to raise \$15,000 by debentures for building two schools, of eight and four rooms.

FREDERICTON, N.B.—Plans are being prepared and tenders will shortly be invited for enlarging and improving the waterworks pumping station.

ROSSLAND, B.C.—It is announced that the C.P.R. will erect a large lead smelter at Trail, and that an electric hoist will shortly be installed at the Centre Star mines.

BRANFORD, ONT.—The Dominion Cotton Co., of Montreal, are considering whether to close down its mill here or modernize the machinery and extend the building.

SARNIA, ONT.—The Sarnia Gas and Electric Light Co. is about to let the contract for two new purifiers and one four box centre valve in connection with its gas plant.

MERRITTON, ONT.—It has been decided, as a result of the visit of the Provincial Road Inspector, to spend \$2,000 in constructing a small piece of model roadway.

ST. CLEMENTS, ONT.—Geo. Rosenbratt will build a furniture factory, brick, two stories, 28 x 60 feet.—Chas. Forwell and Peter Boehn will each build new residences.

NEW GLASGOW, N. S.—Proposals are wanted by the town, addressed to F. D. Laurie, Mayor, for the purchase of \$5,000 of waterworks debentures. The date limit is April 25th.

WOODSTOCK, ONT.—A by-law to grant a bonus for a new felt industry and the erection of a suitable building therefor will be submitted to a vote of the rate-payers on May 1st.

WESTMOUNT, QUE.—The town council has passed a by-law authorizing the borrowing of \$350,000 for improvements, in-

cluding \$10,000 for incinerator, \$25,000 for municipal buildings, conservatories, etc., \$15,000 for contagious diseases hospital, and \$14,000 to open Argyle avenue.

GLADSTONE, MAN.—The town wants legislation to sell debentures to build a new school.

ORILLIA, ONT.—Miller's tannery was wrecked by a boiler explosion last week; loss \$5,000.

WABIGOON, ONT.—The Pioneer Steam Navigation Co. want tenders for the construction of two composite built hulls, with keels 60 and 65 feet, and beams 12 and 12½ feet.

SIMCOE, ONT.—George Jackson, architect, wants tenders by Friday, 15th inst., for the mason and carpenter work of a brick store and dwelling house to be built at Teeterville for W. Lamb.

GRANBY, QUE.—On May 3rd the ratepayers will vote on a by-law to raise \$50,000 to pay off certain liabilities, to install an electric light plant, and to make permanent roads and sidewalks.

DANVILLE, QUE.—C. C. Brown, secretary, treasurer of the municipality, will receive tenders until Wednesday, 20th inst., for the construction of a steel bridge for the corporation of Shipton.

ST. BONIFACE, MAN.—The Sisters of St. Boniface hospital have decided to erect a maternity building, to contain six rooms. The proposal to build a wing to the main building has been postponed until next year.

HINTONBURG, ONT.—On May 2nd the ratepayers will vote on a by-law to raise \$30,000 for sewerage purposes.—E. L. Horwood, architect, of Ottawa, has prepared plans for the proposed addition to the public school.

DAUPHIN, MAN.—The Church of England congregation will build a new church the coming summer; cost \$2,500. The Baptists also contemplate building.—J. E. Hedderly intends building a large brick veneered residence.

GALT, ONT.—It is reported that the C. P.R. will rebuild the railway bridge across the river here. This, together with the new depot, will entail an expenditure of \$60,000.—Tenders are being asked for the erection of a new fire hall.

BERLIN, ONT.—Residences will be erected this year by the following persons. H. Crug, A. E. Ruby, W. B. Eilstein, Wendel Shantz, A. Boehmer, K. Mueller, W. Schlieman, A. Asmussen, Jos. Good, S. Brubacher and A. Schrieter.

FENELON FALLS, ONT.—The Fenelon Falls-Lindsay Electric Power Transmission Company is in process of formation, to develop the water power of the falls. J. A. Culverwell and Geo. White-Fraser, of Toronto, are the promoters.

LENNOXVILLE, QUE.—The proposed water supply for this town will be obtained from Haskell Hill, about half a mile distant. The reservoir will have a capacity of 400,000 gallons; 20 hydrants will be required for fire purposes.

RAT PORTAGE, ONT.—Head & Co., architect, want tenders by 16th inst. for brick and carpenter work of the Hose block.—F. F. Head, architect, has been instructed by the School Board to prepare plans for a twelve room school building.

NIAGARA FALLS, ONT.—A by-law granting \$1,500 towards the erection of a building for the Railway Y. M. C. A. was carried by the ratepayers last week.—The town is preparing to construct vitrified brick pavements on the principal streets.

PETERBORO, ONT.—The Street and Bridge Committee have recommended that the City Council invite tenders for concrete pavements.—The Town Clerk has been instructed to get quotations for white brick suitable for sewer construction.

NEW WESTMINSTER, B.C.—Mr. Louis Coste, chief engineer Department of Pub-

lic Works, Ottawa, arrived in the city last week, and proceeded to Dawson City to arrange for the necessary improvements to facilitate the navigation of the waterways.

GUELPH, ONT.—The City Council will invite tenders for the erection of a fire hall, to cost about \$4,000.—The special committee on sewerage will present a report to council at an early date.—A by-law providing for the sale of debentures for permanent pavements has been sanctioned.

TRURO, N.S.—At a recent public meeting the ratepayers sanctioned the following expenditures: \$20,000 to pay off existing liabilities; \$6,000 for waterworks extension; \$12,000 for enlargement of Willow street school; \$1,200 for improving the fire department. Debentures will be issued.

RIDEAUVILLE, QUE.—The ratepayers have petitioned against the granting of a franchise for waterworks and electric light systems to the company recently organized for that purpose, the promoters of which are Jas. Perry, E. L. Perkins, R. Lester, of Ottawa, and others. The company will probably submit an amended proposition.

QUEBEC, QUE.—The Bell Telephone Co.'s new building will be located at the corner of St. John and Angele streets; 30 by 88 feet, built of Riviere a Pierre granite.—Tenders closeto-morrow (Thursday) at 4 p.m. for the purchase of \$250,000 of city debentures.—E. M. Talbot, architect, has called for tenders for a city hall and fire station to be erected at Hedleyville for the Limoilou corporation.

CALGARY, N. W. T.—A by-law will be submitted to the ratepayers granting a bonus of \$25,000 to the C.P.R. for the location of its repair shops here.—In addition to the bridges mentioned in last issue, tenders are also invited by Mr. McMillan, government engineer, for a new bridge over Nose Creek, on the Calgary and Edmonton road.—Senator Loughheed will erect a stone block, to be occupied by the Union Bank.

KINGSTON, ONT.—Donoghue Bros. will erect a grain elevator, with a capacity of 80,000 bushels. Plans will be prepared at once.—Armstrong McCormock has offered to build a cotton mill in lieu of a bonus of \$50,000.—Power & Son, architects, want tenders by noon of the 14th inst., for additions and alterations to residence, corner Ontario and Princess streets.—It is said that a flour mill will be erected in connection with the Montreal Transportation Co.'s grain elevator.—Additions will be made to the hotel at Westminster Park.

CHATHAM, ONT.—The Fire and Light Committee has been authorized to secure tenders for an electric fire alarm system. The proposal for a new market will shortly be considered by the Market Committee.—The municipalities of Chatham and vicinity will shortly hold a meeting to consider the question of protection from spring freshets.—Powell & Carswell, architects, will receive tenders until Saturday, 15th inst., for the erection of two frame houses on Cross street, this town, also for a veneered brick residence for Robert McNaughton, of Harwich, with basement, drains and hot air heating.

STRATFORD, ONT.—The trustees of Knox church will mortgage the property to the extent of \$7,000 to cover the cost of proposed improvements.—At a meeting of the Market, Police and Citizens' Committee held on the 5th inst., it was resolved to ask for plans for the rebuilding of the city hall on the old walls, to invite tenders therefor, and to submit the estimated cost of rebuilding, as well as of an entirely new building, to a public meeting for its decision.—Powell & Wideman, architects, of this town, are reported to have won the competition for plans for

the Bruce County house of refuge, to be built at Walkerton.

LONDON, ONT.—At the last council meeting the petition of the Board of Education for \$16,300 of debentures for new schools was considered.—The Hospital Committee have still under consideration plans for a new city hospital. At a recent meeting five sets of plans by local architects were submitted and explained, but no definite action was taken.—The following building permits have been granted: Centennial Methodist church trustees, brick veneer parsonage, cost \$2,000; J. B. Henry, brick cottage on Maitland street, cost \$1,000; J. J. Vining, two storey brick residence on Princess street.

HAMILTON, ONT.—In last issue the name of the architect of the factory and office building on Victoria avenue north should have been given as Robert Clohocy.—The City Council has given notice of its intention to construct stone curbing and cement sidewalks on several streets.—The following building permits have been issued: Ontario Rolling Mills Co., steel building with corrugated iron roof, cost \$14,000; Wm. Wark, two-story brick dwelling on Rebecca street, cost \$1,300.—The Finance Committee has decided to recommend the City Council to purchase the Beckett Mountain Drive for \$12,000, conditional on the building of the Hamilton, Chedoke and Ancaster Electric Railway three miles beyond Ancaster.—The Board of Trade, at a recent meeting, discussed the proposed establishment of stock yards.

ST. JOHN, N. B.—The congregation of the North End Presbyterian mission have decided to erect a new church, of wood, 85 by 40 feet, with seating capacity of 375, including gallery. Rev. Mr. Morton is pastor.—It is the intention of the C.P.R. to spend considerable money on improvements to the road in this vicinity. Between St. John and Megantic some 53 miles of heavy steel rails will be laid and about 90 miles will be rebalasted.—W. Wheeler has abandoned the idea of erecting a large block of tenement houses on Chipman Hill. The site will be occupied by the new factory of the F. C. Colwell Candy Company.—The Free Public Library commissioners recently considered the proposal to erect a public library building. Resolutions in favor of proceeding with the work were passed.

VANCOUVER, B. C.—B. B. Johnson & Co. have sold to Henry Towne a lot on Hastings street on which a new building will be erected.—C. W. DeBeck will proceed at once with the erection of a three storey stone and brick block on Hastings street, adjoining the Metropolitan Club.—The Golden Cache Mines Co. recently invited tenders for water wheel and governor, electrical machinery, compressor plant, drills, etc.—The Board of Works has recommended an appropriation of \$27,500 for new sewers.—Plans have been completed or are in course of preparation for the following: A new building for the Molson's Bank; Skinner block on Hastings street; Leckie block, east side of Granville street bank; building for the Merchant's Bank of Halifax, and a large block at southwest corner of Granville and Pender streets. The Donald A. Smith block, corner Georgia and Granville streets, will also be remodelled, at a cost of \$6,000. The architect is W. G. Grant.

WINNIPEG, MAN.—Work will shortly be commenced on the new edifice to be built by the congregation of Wesley church.—Mr. Jas. A. Smart, Deputy Minister of Interior, states that the Dominion government will erect a hospital building, besides smaller buildings at Dauphin and Yorkton.—The Vulcan Iron Co. have invited tenders for the erection of a warehouse and office building.—Alloway & Champion will receive tenders until the 16th inst. for

erecting brick and stone building on McDermott street east. Plans at office of James H. Cadham, 88 Adelaide street.—Joseph Greenfield, architect, has invited tenders for a frame dwelling, on stone foundation, for C. Gleason.—The city is seeking legislation in connection with the proposal to construct a waterworks system. The Winnipeg Water Works Company contend that the city cannot begin the construction of a waterworks system until their twenty years' franchise has expired. The City Council hold a contrary view, and will apply to the legislature for authority to proceed.

ST. THOMAS, ONT.—A joint committee from the county councils of Elgin and Norfolk has recommended that a new steel bridge, 100 feet long, on steel cylinders, be constructed over the Big Otter creek, between the townships of Bayham and Middleton.—A petition is being circulated asking the council to construct a steel bridge across the ravine at the end of Railway street.—It is probable that a vote of the ratepayers will be taken on a by-law to grant a bonus of \$20,000 to the Lake Erie and Detroit River Railway, on condition that the road be extended to this city and workshops erected costing not less than \$20,000.—The City Council has decided to grant the sum of \$36,000 to the Board of Education for rebuilding the Central and Balaclava street schools.—A committee has been appointed by the city council to meet representatives of the township of Yarmouth to consider the question of rebuilding Hughes street bridge.—No. 2 committee has recommended the purchase of a stone crusher, also that Talbot street be paved with vitrified brick, in accordance with a petition presented.

MONTREAL, QUE.—It is the intention of the directors of the Montreal Amateur Athletic Association to make extensive improvements at the association grounds. It will probably be found necessary to build a new track.—Edward Maxwell, architect, has been commissioned to prepare plans for a new fire-proof building to be erected by the London & Lancashire Life Assurance Co., at the corner of St. James and St. John streets, to be six stories high and constructed of stone.—The Jacques Cartier Pulp & Paper Company has secured its charter from the Dominion government. It is the intention to construct pulp and paper mills on the Jacques Cartier river. Wm. Curry and Robert Law, of this city, are interested.—The Finance Committee has decided to appropriate \$76,600 for street improvements and sidewalks. Of this amount \$40,000 will be devoted to repairing the pavement on Craig street and \$5,000 to small sewers.—It is probable that an agreement will be reached between the City Council and the manager of the G. T.R. by which the latter will erect a large office building in some central location in this city.—Mesnard & Daoust, architects, have called for tenders for two houses to be built on Dorchester street for B. Deslauriers.—Robert Findlay, architect, has called for tenders for residences to be built on Roslyn avenue, Westmount, for G. E. Blackwell.—L. R. Montbriant, architect, is preparing plans for a three storey house to be built on Cadieux street for M. Fortin, for which tenders will be invited shortly.—Vice-president Shaughnessy, of the C. P. R., announces that the company will double track its line to Toronto, for which purpose surveys will commence at once.—W. Vaughan, secretary of McGill University, is prepared to receive applications for the position of assistant professor of civil engineering.—J. O. A. Laforest will receive tenders until noon of the 19th inst., for the supply of bricks, cement, lime, hardware etc., required by the Waterworks Department.

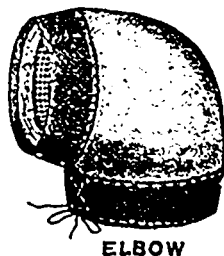
OTTAWA, ONT.—Mr. Frank contemplates making improvements in the Vic-

toria Park auditorium.—Hugh Alexander, proprietor of the Grand Union Hotel, has arranged to erect a hotel on the shore of Meach's Lake, to contain 30 rooms, with modern improvements.—E. F. E. Roy, secretary Department of Public Works, will receive tenders until Monday, 25th inst., for erecting a greenhouse on the Parliament grounds.—Tenders are wanted by the Department of Railways and Canals up to April 30th for widening, straightening and deepening the upper entrance of the Cornwall canal and the river reaches between Cornwall and Coteau Landing. Plans at above department and at engineer's office, Cornwall; marked cheque for \$17,000 to accompany tender.—The Sisters of the Precious Blood are negotiating for the purchase of the Guertin property, corner Cumberland and St. Andrews streets, for the purpose of extending the present stone building.—Jas. Mather, architect, wants tenders for the erection of three brick houses on Slater street.—A new plan for the proposed main building has been adopted by the Exhibition Association, to carry out which will occasion an expenditure of \$30,000.—Separate school supporters are urging that a new school be built on the Glebe property, south of the Canada Atlantic tracks.—Hon. T. M. Davy, Sir Charles Ross and others are applying to the British Columbia legislature to build a railway from the head of steambot navigation on the Skeena river to the Yellow Head Pass.—The ratepayers of Dalhousie ward are agitating for a bridge over the canal at the south end of Concession street. Should this bridge be built by the government, the township of Gloucester agrees to build a bridge over the Rideau river.—Mr. E. Rainboth last week surveyed the property on Victoria street on which the new soap factory will be erected.—A. Benoit, secretary Department of Militia and Defence, will receive tenders until Monday, 18th inst., for the construction of stop butts, markers, etc., at the proposed rifle range at Rocklife.—The Grey Nuns have made another proposition to the City Council for the purchase of Porter's Island, agreeing to erect and maintain the building at a cost not exceeding \$35,000.—It is probable that the ratepayers will be asked to vote on a by-law to raise \$50,000 for the erection of school buildings.—The Ottawa Rowing Club, Limited, has been formed, to take over the property of the Ottawa Rowing Club and to rebuild and improve the boat house.—W. D. Morris, Chairman Board of Works, will receive tenders until Wednesday, 27th inst., for the construction of artificial stone pavements during the year.—The Main Drainage Committee met last week and considered plans for the drainage of the city. The city engineer submitted some plans revised from those of Mr. Rudolph Hering. The cost of the different sections was given as follows: Western division, \$74,953; eastern division, Hemlock Lake outlet, \$419,437; John street, \$401,118; Governor's Bay, \$428,716.

TORONTO, ONT.—Mr. A. W. Campbell, Provincial Road Instructor, will shortly visit Orillia, Parry Sound, Fort William, Georgetown, and other places, to instruct the authorities as to road improvement.—Mr. Musselman intends to remodel and enlarge his dwelling at Thornhill.—The Baptist congregation of

East Toronto have purchased property, corner Gerrard street and Enderby road, on which a church, to cost \$2,500, will be erected during the coming summer.—Mr. F. V. Philpott, of East Toronto, reports having sold a lot on Gerrard street east, a short distance west of Norwood road, on which a building will be erected shortly. It is also said that A. McLeod will build another residence on Sandwich avenue.—The Independent Order of Foresters have purchased property, 30 by 70 feet, north of the Temple building on Bay street, with the intention, it is understood, of erecting thereon a large restaurant.—Chester D. Massey intends erecting a summer residence on Dentonia Park Farm, East Toronto.—At the last meeting of the York township council a deputation asked that the bridge at the fourth concession of East York be replaced by a new structure. The engineer will report.—Alderman Burns last week had a consultation with Engineer Williams regarding the preparation of plans for a bridge or other means of crossing the western channel. The methods discussed are a travelling bridge, a drawbridge, and a scow operated by chains.—At a recent meeting of the Separate School Board, the building of a new school and improvements in St. Patrick's school were decided upon. The new school will be built on Caer-Howell street. The committee of management recommend that a suitable system of heating be introduced into St. Paul's school.—The Ontario government authorities have already taken steps to rebuild the portion of the Central Prison destroyed by fire last week. It may be found necessary to provide further fire protection.—The Public School Board has been asked to invite tenders for two new schools, one in the district of Gerrard street east, and another in the vicinity of Kew Beach.—At a meeting of the Board of Health held last week, it was decided to have plans prepared for a new Isolation Hospital. The question of building the same will be considered at an early date.—In his fortnightly report to the Board of Works last week, the city engineer recommended the construction of the following pavements: Cedar block pavement on Leonard avenue, from Bellevue place to Nassau street, cost \$3,290; brick pavement on Carlton street, from Parliament to Sackville, cost \$5,770; macadam road on Bernard street, from Avenue road to Bernard place, cost \$2,580; asphalt pavement on Spencer avenue, from King street to Spinghurst avenue, cost \$11,470; asphalt pavement on Station street, from York to Simcoe, cost \$11,200. In connection with the Rosedale street railway loop line, the city engineer estimates that the track allowance pavements will cost \$4,160. In view of the fact that a new pavement may be constructed on Queen street west, he recommends the renewal of the cast iron mains between Yonge and Soho streets, at a cost of \$8,610, and the laying of a 12 inch main between Bathurst and Niagara streets. A petition has been received for a brick pavement on Carlton street, from Parliament to Sackville streets.—The Property Committee has referred back the scheme for a \$10,000 wharf at the foot of Brock street.—Mr. J. Francis Brown, architect, Board of Trade building, is preparing plans for a brick building, about 130 x 60 feet in size, to be

(Continued on page 4.)



ELBOW

MICA BOILER AND STEAM PIPE COVERINGS

The Highest Non-Conductor and the Cheapest Covering on the Market.

Full Particulars from

The Mica Boiler Covering Co. - 9 Jordan St., Toronto
MONTREAL WINNIPEG

erected by Firstbrook Bros. at their factory, King street east, containing office, etc.—Mr. D. B. Dick, architect, will award contracts this week for alterations to the Richardson building, Winnipeg, for the Bank of Hamilton.—Building permits have been granted as follows: Henry Wood, two two storey brick dwellings, 602 and 604 Spadina avenue, cost \$8,000; C. J. Gibson, architect, repairs and alterations to warehouse, 35 and 37 Wellington street east, cost \$5,000, Bedford Bros., contractors; also 2-story and attic brick and stone residence, north side Elm ave., near Sherbourne, cost \$5,000; W. J. Chick, contractor; Worthington Estate, 4-story brick warehouse, 27 Front street east, cost \$7,000, M. Hall, architect, Nicholson & Pettigrew, contractors.—The Allen Manufacturing Company have purchased property, No. 97-101 Pearl street, on which to erect the proposed building referred to in a former issue.

FIRES.

The Central Prison in Toronto was damaged by fire on Monday of last week to the extent of \$8,000. The loss on building is \$5,000.—Other fires of the past week are as follows: Dry kiln in connection with the Alvinston Stone and Heading Works, Alvinston, Ont.; loss \$1,000. Burdett's hardware store at Emerson, Man. Philip Lawson's residence, three miles south-east of Brighton, Ont.; insurance \$500. Large frame building on B. thurst street, London, owned by Fortis & Hawkins; loss on building, \$4,000; partially insured. Cameron's block at Buckingham, Que., loss \$6,000. Post-office at Lachlan, Victoria County, Ont. Large five-story wooden building at Peterboro', Ont., owned by The Dickson Company and occupied by J. W. Green's wood-working factory. loss on building, \$4,000; on machinery, \$4,500. Residence of M. J. Dee near Sandwich, Ont.

CONTRACTS AWARDED.

THORNHILL, ONT.—Brick residence for Albert Quantz, 2nd concession of Markham. Jas. Martin, contractor.

ALMONTE, ONT.—\$2,000 4½ town debentures: Ontario Mutual Life Assurance Co., highest tenderers, \$2,080; accepted.

ST. THOMAS, ONT.—About \$50,000 of city debentures: H. O'Hara & Co., Toronto, successful tenderer; total premium, \$1,62.04.

LONDON, ONT.—Granolithic and sand finish artificial stone walks: A. Graham, contractor; price 15¼ and 11¼ cents respectively.

HAMILTON, ONT.—Steel building with corrugated iron roof for Ontario Rolling Mills Co. Hamilton Bridge Co., contractors; cost \$14,000.

CORNWALL, ONT.—Bridge at South Lancaster, to be built by township of Charloteenburg: Williams & Fallon, of this town, contractors.

GUELPH, ONT.—Guelph Pavement Co. have secured contracts for 37,000 square feet of granolithic walks for town of Aylmer, at 11½ cents.

SMITH'S FALLS, ONT.—It is reported that the Smith's Falls and Rideau Railway Company have given the contract to build the road to an American syndicate, at \$8,000 a mile.

OTTAWA, ONT.—Buoys in St. Lawrence river, between Quebec and Montreal: Narcisse Paul, of Montreal, successful tenderer.—Mr. Fautaux has se-

cured the contract to build a wing, 160 feet by 50 feet, to St. Charles Home, stone, four stories, cost \$25,000.

WOODSTOCK, ONT.—The town council has finally decided to purchase a road roller from the Buffalo Pitts Co., through their Canadian agents, the Waterous Engine Co., of Brantford.

GALT, ONT.—Improvement to J. Y. Graham's residence: P. Nichol, carpenter work; C. Dando, bricklaying; Booth & Veitch, plastering; Allan & McKenzie, tinsmithing; Swain, painting.

COLLINGWOOD, ONT.—The successful tenderer for woodwork for J. B. McFadden's stables is the Bryan Manufacturing Company, instead of Wilson Bros., as reported in issue of 23rd March.

CHATHAM, ONT.—City supplies. Granolithic walks and crossings, Thomas Kime; flagstone walks, Thomas Stanton; asbestine walks, J. J. Couzens; cement and sand, J. & J. Oldershaw; sewer pipe, J.

& J. Oldershaw; porous tile, James Cornhill; brick, Thomas E. Fielder; wire nails, Westman Bros.; oak plank, D. R. McGarvin; pine and cedar, S. Hadley & Company.

LONDESBORO, ONT.—Methodist church: Buchanan & Rhynas, of Goderich, general contractors. Sub-contractors: Brickwork, plastering and stonework, Haywood & Pryor, of Clinton; painting, Mr. Steinhoff, of Blyth.

DUNDAS, ONT.—Large stables for Cap. J. J. Grafton: Charles Mills, Hamilton, architect; J. H. Bowman & Co., carpenter work; L. Hickey, stone and brickwork; R. Williams, plastering; William Mitson, painting and glazing.

WINNIPEG, MAN.—New building for Wesley church congregation: T. M. Harrington, contractor, \$8,000. Sub-contracts as follows: Stone work, brickwork and plastering, Spencer Bros.; carpenter work, T. M. Harrington, painting, J. W. Morley; leadlights and glazing, Bell &

THE PHOENIX BRIDGE & IRON WORKS

Civil Engineers and Contractors

BLACKSMITHS AND MACHINISTS

STEEL AND IRON STRUCTURAL AND ARCHITECTURAL WORK

Beams, Channels, Angles and Tees always in stock.

29 to 49 McGill Street,

P.O. Box 893.

MONTREAL

CHARLES HUGHES - Milton West, Ont.

All Kinds of Municipal Work

CURBING, CROSSING, CHANNELLING, FLAGGING, ETC.

Rough Heavy Lime-stone for Breakwater Cribbing, Etc.

Credit Valley Grey Dimension, any size, Sills, Steps, Coursing, Bridge Blocks, Engine Beds.

— Estimates Given for All Kinds of Cut Work —

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

For Artificial Stone Pavements, Roofing Gravel, Concrete, Etc.

USE "CRUSHED QUARTZITE"

LAURENTIAN SAND & GRAVEL CO.

Telephone 2491.

MONTREAL

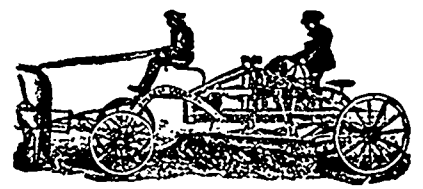
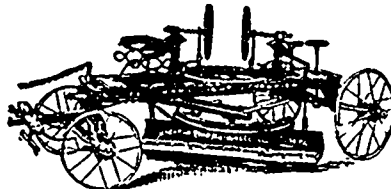
18 St. Alexis Street.

Write for Prices delivered In your town.

Good Roads Machinery

HERE'S A PAIR OF

CHAMPIONS



Steel CHAMPION Reversible. American CHAMPION Reversible.

SIMPLE IN CONSTRUCTION. STRONG IN EVERY PART. EASY TO OPERATE. THE MOST POWERFUL AND DURABLE ROAD GRADERS MANUFACTURED.

GOOD ROADS MACHINERY CO. - Hamilton, Canada

MUNICIPAL DEBENTURES wanted for foreign clients. We can place Debentures direct with foreign clients without charge to municipalities.

: : : Commission allowed to persons introducing new business : : : :

ÆMILIUS JARVIS & CO. (Member Toronto Stock Exchange) 23 King St. West, TORONTO

ELECTRIC RAILWAY BONDS PURCHASED.

STOCK EXCHANGE ORDERS PROMPTLY EXECUTED

Co.; furnace and tinwork, W. Irwin & Co.

QUEBEC, QUE.—Waterworks supplies for city: Iron work, Terreau and Recine; brass work, pig lead, lead pipe and malleable iron work, J. E. Martineau; forge work, Jaboury & Loranger; cement and vitrified clay pipe, G. M. Webster & Co.

HALIFAX, N. S.—Coast Railway of Nova Scotia: Nova Scotia Development Co., of Philadelphia, Pa., contractors. This line will extend from Yarmouth to Halifax.—Brick store on Argyle street for Frank Reardon: Contractor, Mr. Saunders; cost \$8,000.

TORONTO, ONT.—Mr. F. H. Herbert, architect, has awarded contracts for a new residence to be erected on Elm avenue, Rosedale, for Mrs. Mary E. Davis, as follows: Brick work, Wickett Bros.; carpenter work, Robert Wilson; plastering, George Rudler; painting, J. W. Knott; galvanized iron, A. B. Ormsby & Co.; roofing, Duthie & Son; plumbing and heating, The Bennett & Wright Co. Same architect has accepted following tenders for a new hotel on Jarvis st. for the McFarlane Estate: Brickwork, John McGlue; carpentry, H. Martin; plastering, W. S. Hynes; painting, H. W. Johnston; galvanized iron, Wheeler & Bain; roofing, R. Rennie & Sons; plumbing and heating, Fiddes & Hogarth.—The Metallic Roofing Co. have secured the contract for placing ornamental metal ceiling in Walker House, and also for elaborate ceiling in retail grocery store of Michie & Co., King st. west, this city.—The Fensom Elevator Works have secured the contract for an electric elevator for the Mail Building in this city.

MONTREAL, QUE.—Saxe & Archibald, architects, have let the following contracts: Residence on Columbia avenue, Westmount, for A. Davidson—Masonry, John Quinlan; bricklaying, F. E. Riordan; carpentry, Bulmer & Bulmer; roofing, E. C. Mount & Co.; plastering, H. Contant; plumbing, Geo. E. Blackwell; electric wiring, G. E. Scott. Alterations to Knox Presbyterian church on Dorchester street—Plumbing, E. C. Mount & Co.; concrete work, A. F. Morn & Co. Alterations to M. S. Foley's house, corner Metcalfe and St. Catherine streets—Carpentry and painting, E. Duhamel; plumbing, E. C. Mount & Co.—Jos. Venne, architect, has accepted the following tenders for six houses, stone and brick, on St. Denis street, for Emanuel St. Louis: Masonry, E. St. Louis; carpentry, W. Pauze & Fils; iron work, H. A. Gauthier; plastering, G. Leveille; painting, C. T. Charlebois; plumbing, D. Oumet; bricklaying, Joseph Beland.—Hutchison & Wood, architects, have let contracts as below for a house on Pine avenue for A. Hodgson: Masonry and bricklaying, Wighton, Morrison & Co.; carpentry and joinery, L. Paton & Son; roofing, G. W. Reed & Co.; plumbing and heating, James Ballantyne; painting and glazing, A. Craig; iron work, Dominion Bridge Co.—L. A. Montbriant, architect, has let the contract for remodelling a store on St. Catherine street for A. Racine to C. Cadotte.

BIDS.

TORONTO, ONT.—The following tenders were received for elevators for new municipal buildings and for electric plants for operating same. Electric elevators—No. 3 Sprague, \$25,000; No. 5 Otis, \$32,500; No. 7 Fensom, \$24,000. Hydraulic—No. 4 Standard, \$39,200; No. 5 Otis, \$35,500; No. 7 Fensom, \$33,000. Electric generating plant—W. A. Johnson Electric Co., \$15,766; Canadian General Electric Co., \$14,965; Toronto Electric Motor Co., \$15,100. The architect recommends that none of the present tenders be accepted.

Henry Beaumont and Arthur A. Ward have formed a partnership in Montreal as contractors, under the style of Beaumont & Ward.

DEBENTURES BOUGHT

Municipalities saved all possible trouble.

G. A. STIMSON & CO.

Investment Dealers

24 and 26 King St. W. - TORONTO

ARTIFICIAL STONE PAVEMENTS

SIDEWALKS A SPECIALTY

CORPORATIONS Will do well to consider our work and prices before letting contracts

The Silica Barutic Stone Company of Ontario, Limited.

WALTER MILLS, General Manager.

Head office: INGERSOLL, ONT.

SEE THAT Your Specifications Call For

ST. LAWRENCE VALVES, HYDRANTS, STOP COCK BOXES, VALVE BOXES AND PIPE

Valves from 2" Upwards. Manholes, Covers, etc.
Pipe from 3" Upwards. Architectural Iron and Steel Work.

ST. LAWRENCE FOUNDRY CO. of TORONTO, Limited
TORONTO, CANADA

THE HAMILTON AND TORONTO SEWER PIPE CO.
(LIMITED.)

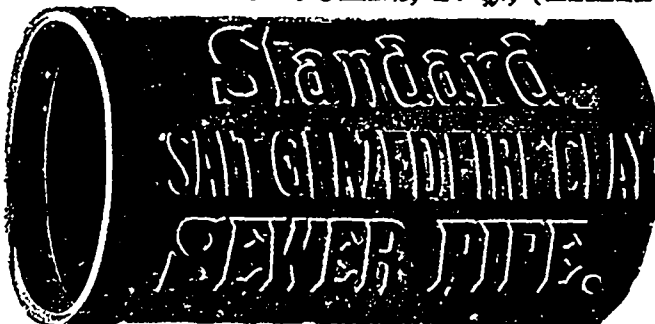


—FOR—
SEWERS,
CULVERTS
AND
WATER PIPES.
INVERTS
For Brick Sewers

Write for Discounts

HEAD OFFICE AND FACTORY: HAMILTON, CANADA

THE STANDARD DRAIN PIPE CO.
OF ST. JOHNS, P. Q., (LIMITED)



Manufacturers of
Salt-Glazed
Vitrified
SEWER
PIPES

Double Strength
Railway Culvert Pipes,
Inverts, Vents,

AND ALL KINDS OF FIRE CLAY GOODS

WATER WORKS

Excellent Pumps in First-Class Condition, Low in Price, on Easy Terms, and Built for Water Works Service.

Municipalities contemplating the installation of Water Works Plants will do well to communicate with us, as we can offer several

THE NORTHEY MFG. CO.

(LIMITED)

King Street Subway,

TORONTO, ONT.

MUNICIPAL DEPARTMENT

CLEANING THE STREETS OF TORONTO.

The city of Toronto has the distinction of being among the cleanest and healthiest municipalities on the continent. Its sewage service is not perfect; its water service might be improved upon, but the cleaning of its streets and lanes, the disposal of garbage and all street rubbish is performed in a thorough manner and at a small cost in proportion to the population. On this surface work alone New York annually spends between three and four million dollars. Toronto, with one-tenth of the population, but with only about 100 miles less extent of streets, has the actual work of cleaning and scavenging performed for \$104,000, while street watering costs \$20,000 more. A fairer comparison, however, is with Detroit, where, though it is a much better paved city than Toronto, the street cleaning costs about double the money.

In Toronto the work is done under the supervision of Mr. John Jones, Street Commissioner, and to his energy and ability is due in a large measure the economy of the work. The city is divided into two districts, and four sweepers are allotted to each district. Hand-sweepers are also employed on the principal streets, who are charged with keeping the asphalt streets in a clean condition.

Some idea of the magnitude of the work will be gained from the fact that last year 1,867 miles of streets were cleaned, and 45,921 loads, each of which averaged a cubic yard, were lifted and taken away. The sweepings are largely sought after as a fertilizer for lawns and gardens, but the greater portion of the refuse of the centre of the city, the district bounded by Bathurst street, Coilege and Carlton, Sherbourne and the bay, is taken to the water-front, where it is used as filling. This disposal of it will be made until a level is reached satisfactory to the City Engineer. The staff which is permanently engaged on the work is not large considering the results, but in cases of sudden emergencies it is augmented by temporary employes, who are now engaged through the Labor Bureau.

For scavenging, the city is divided into 30 districts. Every lane is overhauled at least once a week, and in the more thickly populated parts three times. The ashes are taken to one of the city dumps, as they make excellent filling material, and the offal is consumed. There are three lane inspectors and two foremen in this department, but, besides this, the carters are sent out in contingents of six, with one of the number in charge of the rest. Each cart bears a number, so that in case of inefficiency or any other misdemeanor the offender is easily discovered. So thoroughly, however, is the work performed

that last year the department had not 50 complaints in all.

The only branch of the department which remains for mention is the watering of the streets. This is divided between the street railway and the city, though the latter bears the whole cost. The railway company keeps three sprinklers, each of which holds 2,500 gallons of water, and for the work they receive 16¼ cents per mile of double track. Last year they covered 18,591 miles, and used over 37,000,000 gallons of water, the whole costing the city \$3,021. The city sprinklers proper are also three in number; two of them are of the capacity of 2,800 gallons, and the third of 2,500 gallons. For this work, too, the city is divided into subdivisions, and the number of sprinklings is determined by the class of pavement. The season for street watering begins generally on the 1st of April, and usually lasts until about the 1st of November.

LEGAL DECISIONS AFFECTING MUNICIPALITIES.

CHAUSEE VS. CITY OF MONTREAL.

—The action was for \$3,000 damages, brought by the plaintiff, who is the owner of a house on Amherst street, for damages caused to him by the city interfering with the flow of water from the higher levels, by raising the level on Napoleon street. The plea of the city was to the effect that it executed works of public utility, and that it had caused no damage to the plaintiff. The facts as they appeared in evidence were that the lot of land on which the plaintiff had built his house formed part of a larger extent of land, bounded by Duluth Ave., Amherst and Montana streets; that the level of this land had been lowered, since the opening of the latter streets, by the proprietors removing sand from the surface; that Napoleon street was traced on the plan of the city when the plaintiff, in February, 1893, commenced to build his house, and that he could not be ignorant that the land which was to serve as the site for Napoleon street would necessarily be raised, as in fact it was during the following autumn, this land being on the same level as that of the plaintiff. The court held that the plaintiff in building under these conditions assumed the risks of the particular situation of his property, and that it was incumbent on him to take immediately the necessary steps to protect it against the dangers to which the property owners on the higher lands exposed him. It was proved that the adjoining proprietors who were exposed to the same dangers as the plaintiff, placed drains in their yards connecting with the street drain in front, by which the surface water was easily carried off. The plaintiff should have taken the same

precautions. As his land fronted on Amherst street, he might easily have drained into the sewer on that street. The court came to the conclusion that there was no negligence or want of skill on the part of the city, and, under the circumstances, the defendant was not responsible for damages. The action was therefore dismissed.

PELLETIER VS. CITY OF QUEBEC.—

Judgment has been rendered in the Superior Court against the City of Quebec, which teaches a lesson to city corporations that dabble in political demonstrations. The plaintiff in this case sues the defendants as tutor to his minor child, Joseph Pelletier, aged 13, and by his declaration alleges that in the month of June last his son was standing on Fabrique street, opposite the Central Fire Station, watching the procession given on the occasion of Hon. Mr. Marchand's victory, pass by; that, owing to the neglect of the firemen, who were setting off fireworks opposite the station, his son was struck by a flying rocket on the right cheek and eye, and that the eye had to be extracted, and that he is threatened with total blindness. He therefore claimed \$500 for damages and \$311.50 for medical attendance and loss of time. To this action the defendants pleaded in substance that the city of Quebec was not responsible inasmuch as the wounds inflicted on the plaintiff's son were not caused by rockets fired by any of its employees with the knowledge or sanction of the city, nor in the execution of any duty devolving on them as city employees. In rendering his judgment Judge Andrews remarked that it was sufficiently proved that the city hall and fire stations on the evening in question were illuminated, that there was a stage erected by the firemen of No. 1 station, where rockets were fired during the evening by members of the fire brigade, and narrowly escaped killing plaintiff's son; that the firing of said rockets was performed in an unskilful, dangerous and reckless manner by members of the brigade not possessed of the requisite experience in such matters, many of the rockets taking a horizontal direction and striking adjoining buildings; that the said illumination of the said fire stations and the said firing of rockets was part of a public demonstration in which the city fire brigade took a prominent part under and by the express orders of its chief, and in a manner impossible if the city authorities had not acquiesced, concurred and promoted it; and further, that up to the moment of his examination as a witness in this cause, the propriety of the act of the chief in so ordering said illumination and firing of rockets had never been questioned by such city authorities. Judgment was for the amount claimed with costs.

BELLHOUSE, DILLON & CO., 30 St. Francois Xavier St., Montreal
Sole Agents for the Compagnie Generale des Asphaltes de France (Rock Asphalt).

PORTLAND CEMENT NORTH'S CONDOR

Paving and Fire Brick a Specialty

SITTING LION and WHITE CROSS Brands

NORTH'S "CONDOR" BRAND AWARDED FIRST PRIZE AND GOLD MEDAL AT THE ANTWERP EXHIBITION

MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS

ENGINEERS

WILLIS CHIPMAN

B. A. Sc. (McGill).
Mem. Civ. Soc. C. E.

Mem. Am. Soc. C. E.; M. Am. W. V. Ass'n.

Civil and Sanitary Engineer
TORONTO

WM. NEWMAN, C. E.

A. M. Can. Soc. C. E., M. Am. W. Wks. Assn.

CITY ENGINEER OF WINDSOR.

Civil and Sanitary Engineer
Waterworks, Sewerage, Drainage, Pavements, &c.
Fleming Block - WINDSOR, ONT.

VAUGHAN M. ROBERTS

Civil and Sanitary Engineer

Waterworks, Sewers, Electric Light,
Electric Railways.

Plans and Specifications prepared.—Work
Superintended. 18 Ontario Street,
ST. CATHARINES

Flush Your Sewers with

THE MILLER
AUTOMATIC SYPHON

(PATENTED)

Received HIGHEST AWARD at the World's Columbian
Exposition for

- (1) SIMPLICITY OF CONSTRUCTION.
- (2) EFFECTIVENESS. (3) RELIABILITY

Write for Prices and Particulars.

VICTOR HILL, 301 Huron St., TORONTO.
General Agent.

SCORIA PAVING BLOCKS are the Best
All-Round Paving Material yet discovered.

W. H. KNOWLTON & CO.,
Dealers in Contractors' Supplies, 36 King St. E., Toronto

Advertise in the CONTRACT RECORD.

E. A. WALLBERG, C.E.

BRIDGE ENGINEER

Bell Telephone Building, MONTREAL

Bridges, Buildings, Foundations Plans,
Specifications, Superintendence and Report
Reports on existing structures

J. McDOUGALL, C. E.,

ENGINEER OF THE COUNTY OF YORK

GENERAL MUNICIPAL ENGINEER

Consulting Engineer for Municipalities in regard to
Electric Railway and other Franchises.
Specialties: Bridges, Foundations, Electric Railways,
and Roads. Surveys made; Plans, Specifications and
Agreements prepared, and work superintended.

COURT HOUSE, - TORONTO.

DAVIS & VAN BUSKIRK

Graduates Royal Military College of Canada.

CIVIL ENGINEERS

SPECIALTY. Municipal Engineering, including
Drainage, Sewerage, Sewage Disposal, Water-
works, Roadways and Bridges.
W. F. Van Buskirk, A. M. Can. Soc. C. E., Stratford
Wm. Mahlon Davis, M. Can. Soc. C. E., Woodstock.

Paving Granite

Granite Sets for Street Paving. - CURBING cut
to any shape ordered. - Fine Rich Colors for
Building and Monumental Purposes.

Quarries, St. Philippe d'Argenteuil, P. Q.

Address all communications to

JOS. BRUNET - COTE DES NEIGES, MONTREAL

MONTREAL PIPE FOUNDRY CO., Limited

Successors to
DRUMMOND McCALL PIPE FOUNDRY CO., LTD.
Manufacturers of

CAST IRON WATER and GAS PIPES

and General Water and Gas Special Castings.

Prices on Application.

Offices, Canada Life Building, MONTREAL.

THE JENCKES MACHINE CO.

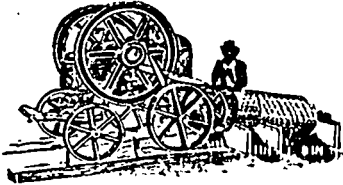
30 Lansdowne Street, SHERBROOKE, QUE.

Builders of

STONE AND ORE CRUSHERS
and Macadamizing Machinery.

Complete Plants Planned and Erected.

Write us for Catalogue No. 5, relating to Crushing Machinery



THE THREE RIVERS IRONWORKS CO.

Montreal Office: IMPERIAL BUILDING.

THREE RIVERS, P. Q.

MANUFACTURERS OF

Cast Iron Water and Gas Pipes

of best quality, from 2 inches in diameter.

HYDRANTS, VALVES and GENERAL CASTINGS.

CAST IRON WATER PIPES

From 4 in. to 42 in. Diameter.

BELL AND SPIGOT • FLANGED, TURNED AND BORED
AND EVERYTHING NECESSARY FOR

A Complete Water or Gas System

SUPPLIED BY—

The LONDONDERRY IRON CO., Limited

LONDONDERRY, NOVA SCOTIA

THE MOST COMPLETE IRON WORKS IN CANADA (ESTABLISHED 1852.)

Send for Drawings and Estimates of our work.

ALL PIPES CAST VERTICALLY

WE MAKE

- PIG IRON
- WATER PIPES
- BAR IRON
- PUDDLLED BAR
- HYDRANTS, VALVES
- PIPE SPECIALS
- HEAVY CASTINGS
- IRON RAILS
- STRUCTURAL WORK
- MACHINE WORK
- CORPORATION SERVICE
and VALVE BOXES

ALEX. GARTSHORE, President. J. G. ALLAN, Secretary and Treasurer. JAS. THOMSON, Vice-President and General Manager.

THE GARTSHORE-THOMSON PIPE & FOUNDRY CO.
LIMITED.

Manufacturers of:::

Flexible and Flange Pipe,
Special Castings and all kinds of
Waterworks Supplies.



3 inches to 60 inches diameter.

For Water, Gas, Culvert and Sewer

HAMILTON ONT.

Prices of Building Materials.

INDEX TO ADVERTISEMENTS

In the "Canadian Architect and Builder."

LUMBER.

YARD QUOTATIONS.

Toronto. Montreal.

Table listing lumber prices for various types of wood, including Mill cull boards, Hemlock, and various sizes of flooring and shingles.

BRICK—M

Table listing prices for Common Walling, Good Facing, and Sewer bricks.

SAND.

Table listing price for Per Load of 1/2 Cubic Yards.

STONE.

Table listing prices for various types of stone, including Common Rubble, Large flat Rubble, and Granite.

OHIO FREESTONE.

Table listing prices for Ohio Freestone in various dimensions and finishes.

CREDIT VALLEY STONE.

Table listing prices for Credit Valley Stone in various dimensions.

LONGFORD STONE.

Table listing prices for Longford Stone in various dimensions.

Large index table listing various building materials and services such as Architects, Cements, Lime, Roofers, Plasterers, and Painters.

Toronto. Montreal.

Table listing prices for various materials like Hydraulic Cements, Slate, Paints, and Iron Pipe, with separate columns for Toronto and Montreal.