

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.

- 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

- Additional comments:/  
Commentaires supplémentaires: Some pages are cut off.

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. 10.

MARCH 29, 1899

No. 9.

## 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

G. H. MORTIMER PUBLISHING COMPANY  
of Toronto, Limited,

Publishers,

CONFEDERATION LIFE BUILDING, TORONTO  
Telephone 2362.

Branch Office:

New York Life Insurance Building, Montreal.  
Bell Telephone 2299.

Information solicited from any part of the Dominion regarding contracts open to tender.

Advertising Rates on application.

Subscribers who may change their address should give prompt notice of same. In doing so, give both old and new address. Notify the publisher of any irregularity in delivery of paper

CONTRACTORS RESPECTFULLY INFORMED that undersigned is prepared to assist in preparing estimates, any department, carpenter in particular. W. FRASER, 21 Cinton Street, Toronto.

## TENDERS WANTED

Tenders will be received by the undersigned up to ten o'clock, a.m., on SATURDAY, APRIL 8th, 1899, for the erection of two Masonry Abutments for a Bridge of two hundred and twenty feet span over the River Thames, at the site of the Meravian Bridge, in the County of Kent, Ontario.

Plans and specifications may be seen at the office of the County Clerk, at Chatham, or specifications may be obtained by applying to him

A marked cheque for five per cent. of the contract price, payable to the Treasurer of the County of Kent, must accompany each tender, which will be returned when the contract is signed.

A marked cheque on a chartered bank for twenty five per cent. of the cost of the work will be required before the contract is signed, as security for the completion of the work

The lowest or any tender not necessarily accepted

J. C. FLEMING,  
Clerk County Kent.

## VILLAGE OF HINTONBURGH

## Tenders for Waterworks

Tenders for constructing a system of Waterworks for the Village of Hintonburgh, sealed, and endorsed "Tenders for Waterworks," will be received until noon of SATURDAY, 17TH APRIL, 1899, addressed to W. A. Mason, Esq., Village Clerk, Hintonburgh, Ontario.

Each tender must be accompanied with an accepted bank cheque for an amount equal to five per cent. of the amount tendered, and made payable to the order of W. A. Mason, Treasurer of the Corporation, which cheque will be forfeited if the contractor declines to enter into a contract when called upon to do so.

The Corporation reserves the right to reject any or all tenders.

Plans and specifications can be seen and printed specifications and forms of tender obtained at the office of the Clerk, Town Hall, Hintonburgh

Dated at Hintonburgh this 23rd day of March, 1899.

(Sgd.) D. H. McLEAN,  
Reeve.

(Sgd.) CHARLES H. KEEFER,  
Consulting Engineer, Ottawa.

## WANTED

Architectural Student or Improver. S. G. CURRY,  
90 Yonge Street, Toronto

## TENDERS

Tenders will be received up to noon on Saturday, the 1st day of April, for the various trades required in the erection of a

### DETACHED RESIDENCE

on Lowther Avenue, for Ambrose Kent, Esquire.  
The lowest or any tender not necessarily accepted  
F. H. HERBERT, Architect,  
9 Toronto Street, Toronto.

## TO CONTRACTORS

## MAIN TRUNK SEWER

OTTAWA, ONT., March 24th, 1899.

Sealed tenders by registered mail, endorsed "Proposal for Main Trunk Sewer," will be received by the undersigned up till noon of FRIDAY, THE 14TH APRIL, 1899, at the City Hall, for the construction complete for the following works:

4,430 lineal feet 7' 0" Circular Brick Sewer.  
7,742 " " 6' 0" " "  
2,860 " " 5' 0" " " Steel Pipe.

Average depth of cutting 20' through earth and rock. Plans and specifications may be seen at the Engineer's office on and after Monday, the 3rd proximo from whom forms of tenders and full particulars can be obtained

Proposals must be accompanied by an accepted bank cheque payable to the order of the City Treasurer, for not less than five per cent. of the tender

The Corporation do not bind themselves to accept the lowest or any tender.

(Signed) S. J. DAVIS, Chairman.

## TENDERS

For the Installation of a

## SYSTEM OF ARC LIGHTING

Sealed tenders, addressed to the Chairman of the Fire Water and Light Committee, for the installation of a System of Arc Lighting including Steam Plant, Dynamometer, Switchboard, Arc Lamps, Line Material, etc., will be received at the office of the undersigned up to 3.30 p.m. on

MONDAY, APRIL 17TH, 1899.

Specifications and forms of tenders may be obtained at the office of the City Engineer, Winnipeg.

Each tender must be accompanied by an accepted cheque or cash deposit for the sum called for in the form of tender supplied, which will be subject to forfeiture in case of failure on the part of the contractor to enter into a written contract if called upon to do so. If an accepted cheque is submitted it must be payable at par in Winnipeg or be for an amount sufficient to cover exchange over the sum called for in the form of tender supplied.

No tender necessarily accepted

C. J. BROWN, City Clerk.

City Clerk's Office, Winnipeg, March 21st, 1899.

When painted woodwork is not too far gone it can be freshened up with a coat of varnish. Before re-varnishing the work should be well cleaned down. Fuller's earth is a good and cheap article for this purpose.

## CONTRACTS OPEN.

TURNERVILLE, ONT.—Henry Shaw will build a brick residence

CARTHAGE, ONT.—John Gamble will build a brick residence.

MELBOURNE, QUE.—A project is on foot to erect a creamery.

FOREST, ONT.—It is said that a new elevator will be built here.

PLERIBORO, ONT.—Offers are invited for a site for a new fire hall.

FENWICK, ONT.—Dr. E. S. Birdsall intends building a new office this spring.

WIARTON, ONT.—Tenders are invited by J. P. Newman for building brick residence.

HARTMAN, ONT.—It is proposed to erect a new Methodist church here this summer.

WYOMING, ONT.—A new hotel will be erected on the site of the Commercial House.

GOWANSTOWN, ONT.—Peter Walter, of the sixth line, is preparing to build a residence.

STRATFORD, ONT.—James Depew & Co. intend building a large tanning factory this spring.

CLAYTON, ONT.—The vestry of Grace church is considering the building of a new edifice.

WINSLOE, ONT.—Chas. Taper wants tenders by April 3rd for building new dairy-factory.

CLINTON, ONT.—John Pickett purposes building a brick house on his farm near this town.

DARTMOUTH, N. S.—The building of a new town hall will likely be undertaken at an early date.

LION'S HEAD, ONT.—Capt. McPherson desires tenders by 18th inst. for building addition to hotel.

PORT DALHOUSIE, ONT.—Plans have been prepared for the new factory for the Toronto Rubber Co.

INGERSOLL, ONT.—A. W. Nagle has purchased property on which to build a residence this summer.

MEDICINE HAT, N. W. T.—A proposal is being considered for the construction of a waterworks system

MARMORA, ONT.—Trustees of the Methodist church have decided to erect a Sunday school building.

NANAIMO, B. C.—The purchase of another steam fire engine for fire protection is being advocated.

DUNNVILLE, ONT.—Steps are being taken looking to the construction of an improved drainage system.

SASKATCHEWAN, N. W. T.—R. F. Ferguson, Reeve, wants offers by 31st inst. for construction of a ferry.

WELLAND, ONT.—E. A. C. Pew states that capital has been subscribed toward the proposed power canal from the Welland river to Ball's falls, on the Jordan river.

**LISTOWEL, ONT.**—Wm McKeever purposes building a house and barn on his farm in Elma township.

**HUMBERSTONE, ONT.**—Residents of S.S. No. 5 have decided to ask the township council for a new school.

**PARRY SOUND, ONT.**—The Conger Lumber Co. will probably refit their saw mill, at a cost of about \$8,000.

**BROOKE, ONT.**—W. G. Willoughby, township clerk, is making preparations for the erection of a brick residence.

**GUELPH, ONT.**—A movement is on foot looking to the construction of an electric railway to Hespeler, Arthur and Erin.

**GRAND MANAN, N.B.**—It is reported that a government engineer will shortly locate sites for breakwaters on the island.

**YARMOUTH, N.S.**—Tenders are wanted by J. K. Rose up to March 31 for the supply of a quantity of stone for a flume.

**CHATHAM, N. B.**—St Andrew's church congregation have resolved to spend \$3,000 on improvements during the coming summer.

**WALKERVILLE, ONT.**—There is a brisk demand for dwellings, and consequently a number of new buildings will be erected this year.

**PORT COLBORNE, ONT.**—Capt. James McCoppen will build a new residence this year, and it is probable that Dr. Neff may build also.

**NELSON, B.C.**—The Hudson Bay Company are about to let the contract for their new block, corner Baker and Stanley streets.

**GRAND FALLS, N.B.**—It is expected that the Grand Falls Power Company will proceed at once with the work of building their canal.

**ST. JOHN, N. B.**—Daniel Connolly has purchased property, corner Mill and North streets, on which to build a store and dwelling.

**HUNTSVILLE, ONT.**—Wm. Rumsley, this town, invites tenders up to the 30th inst., for the erection of summer hotel on the Lake of Bays.

**DOVER, ONT.**—The Dover council has granted the application of the trustees of S.S. No. 11 to borrow \$1,600 for building a new school.

**SUBBURY, ONT.**—The construction of a railway from this town to Lake Tamagaming, in the Nipissing district, is likely to be undertaken.

**ANNAPOLIS, N.S.**—The by-law to raise \$10,000 to build a new school was carried by the ratepayers. Work will be commenced at once.

**KAMLOOPS, B. C.**—C. R. Oldershaw, architect for the C.P.R., has prepared plans for an hotel to be built here, five storeys, 107 x 80 feet.

**MOOSSOMIN, N. W. T.**—Propositions are invited by the School Board up to April 4th, for the purchase of from \$10,000 to \$15,000 of debentures.

**IVY, ONT.**—John Lennox, Secretary Public School Board, desires tenders by Thursday, April 6th for the purchase of \$1,900 of school debentures.

**WINCHESTER, ONT.**—A bill giving the village permission to borrow \$10,000 to aid a pork-packing establishment has passed the Ontario legislature.

**PARIS, ONT.**—James T. Patton has had plans prepared for a brick structure on Broadway street.—S. Appleby and O. R. Whitby are building residences.

**BROCKVILLE, ONT.**—The Brockville Rink Co., whose building recently collapsed, have engaged John Warwick to prepare an estimate of the cost of rebuilding.

**WALLACEBURG, ONT.**—M. Martin has applied to the town council for an electric light franchise.—The engineer has reported to council as to the cost of repairs

to approaches to Duncan street bridge. He recommends concrete as being cheaper than masonry.

**FORT ERIE, ONT.**—The construction of an electric railway from Fort Erie to Point Abino and to Chippewa is to be undertaken this season by Buffalo capitalists.

**WOODSTOCK, ONT.**—The tenders for building the Norwich avenue church were found to be above the estimated cost, and the plans will be modified and new tenders taken.

**GALT, ONT.**—Shurly & Deitrich, saw manufacturers, have purchased property adjoining their factory and intend erecting a large building and removing their works from St. Catharines.

**MIDLAND, ONT.**—Officials of the Canada Iron Furnace Co. are arranging the preliminaries in connection with the proposed smelting works in this town. Ground will likely be broken next month.

**ST. THERESE, QUE.**—A by-law granting a bonus of \$47,000 to J. M. Fortier, cigar manufacturer, of Montreal, to remove his factory to this place, has been carried by the ratepayers. Site of factory not yet selected.

**GODERICH, ONT.**—H. J. Powell, architect, of Stratford, has prepared plans for the proposed Oddfellows Hall in this town. There will be an opera house on the ground floor, with seating capacity for 750 persons.

**DURHAM, ONT.**—A committee, consisting of A. McLachlan, Wm. Laidlaw, C. Knapp and Mayor Halder, has been appointed to solicit subscriptions towards a proposed chair factory. Already \$8,000 has been secured.

**FREDERICTON, N. B.**—J. T. Clarke & Son will erect a building, corner King and York streets, brick, three stories, front of pressed brick and brown stone and ground floor to consist of three stores. Work will be commenced in early summer.

**FREDERICTON, N. B.**—The Premier has announced his intention of purchasing macadamizing machinery for road-making, including rock crushers and road rollers, and to construct sample stretches of roads in different parts of the province.

**CHATHAM, ONT.**—J. L. Wilson & Son, architects, are preparing plans for a brick veneered dwelling for G. A. Fraser, Thamesville, to cost \$1,400, and for remodelling the residence of Judge Bell, corner William street and Stanley avenue, this city.

**PORT HOPE, ONT.**—The Waterworks Commissioners have asked the council for \$5,000 for improvements to the waterworks system, including several new mains and a duplicate pump and engine.—Wm. J. Byers contemplates erecting a residence.

**COBURG, ONT.**—Plans are being prepared for a modern dwelling, 80 x 50 feet, to be built for Mrs. Wells.—Herbert Boggs, chairman Finance Committee, desires tenders by Monday, May 1st, for the purchase of \$144,000 of 4 per cent. debentures.

**BRANTFORD, ONT.**—The county council is securing information prior to deciding upon improvements to the court house here.—Negotiations are still on foot to purchase a suitable site in this city for a building for the Manufacturers Assurance Co. of Toronto.

**NIAGARA FALLS, ONT.**—Plans are out for converting the Howard Block into a first class hotel, with two storey brick addition, 36 x 48 ft., in rear; cost \$12,000. Ellis & Clark, architects.—It is rumored that the Imperial Bank will erect a new building in the near future.

**TRURO, N.S.**—A Halifax architect will submit to the town council an estimate of the cost of building a new fire hall.—The Waterworks Committee have recom-

mended that the town engineer prepare specifications for a 75 horse power return tubular boiler for the pumping station.

**GANANOQUE, ONT.**—A public meeting was held last week to consider the question of building a town hall. The consensus of opinion was that the construction of waterworks and sewerage systems was a greater necessity, and some steps in this direction may be taken at an early date.

**VERDUN, QUE.**—The municipality wants tenders by 1 p.m. of April 3rd for the construction of brick and tile sewers and the laying of water main pipes. McConnell & Marion, New York Life Building, Montreal, are consulting engineers, and tenders are to be addressed to Geo. A. Waid, secretary-treasurer.

**HALIFAX, N.S.**—Plans are being prepared for alterations to the steamer Dartmouth.—A bill has been introduced in the House of Assembly giving the government authority to erect buildings for a provincial agricultural college and experimental farm, to cost \$20,000, exclusive of apparatus and equipment.

**ST. CATHARINES, ONT.**—The Etherington Carpet Co. purpose extending their works, and have asked a bonus from the city.—The Board of Works has recommended that the city clerk call for tenders for the supply of a rock crusher.—The street superintendent has prepared a long list of streets requiring concrete walks.

**ALMONTE, ONT.**—Thomas White has decided to rebuild his premises recently destroyed by fire.—The Board of Education have asked the council to provide \$1,180 for a heating and ventilating system in Martin street school.—An addition, including a large sacristy, will be added to the Catholic church during the coming summer.

**ROSSLAND, B. C.**—The Merchants Bank of Halifax have decided to build here a three storey structure, brick and stone, contracts to be awarded immediately.—A petition is being circulated asking the council to pass a by-law to build a system of waterworks of its own, and to borrow money for that purpose on debentures.

**NORTH TORONTO, ONT.**—The treasurer has been authorized to negotiate a loan of \$4,000.—The town council has decided to take immediate steps to erect a residence for the town engineer.—The Merton street mission property has been purchased by the congregation, and subscriptions are being taken to enlarge and renovate the building.

**VANCOUVER, B. C.**—The city council has purchased property on which to erect a two-storey building, to be used as council chamber and fire hall.—J. Buntzen, manager of the British Columbia Electric Railways Company, has gone to England, where he will lay before the directors plans for proposed improvements and extensions to the system in this city.

**CHARLOTTETOWN, P.E.I.**—At a recent public meeting resolutions were passed requesting the Dominion and provincial governments to make grants towards the construction of the Southern Branch Railway and a bridge across the Hillsborough river.—A new Baptist church will be built by the congregation of Murray River. Rev. W. H. Carter, pastor.

**NAPANEE, ONT.**—At an early date the John R. Scott Co. will commence the extension of their electric transmission line to Yarker.—Greeley Clark, a lawyer and real estate dealer of Chicago, representing a large syndicate, is looking over certain ground in the township back of this town with a view to carrying out an extensive drainage scheme. It is proposed to spend about \$40,000 this year.

**HULL, QUE.**—R. W. Farley, C. E., has submitted to the council plans for a new fire station. The ratepayers will be asked

to sanction the raising of funds for building same.—An additional bridge across Brewery creek, between wards 1 and 2, will likely be built during the present season.—Tenders received some time ago for the municipal street lighting plant will likely be opened and the contract awarded by the council on April 4th.

QUEBEC, QUE.—L. N. Carrier, of Levis, has gone to England in the interest of the proposed abattoir scheme.—J. T. Metcalfe, of Chicago, was in the city last week conferring with the directors of the Great Northern Railway regarding the proposed grain elevator. It will be of one million bushels capacity, and built on the site given by the harbor commissioners. The Canadian Electric Light Company, who are developing a water power at Chaudiere Falls, want a general manager.

BELLEVILLE, ONT.—Plans have been prepared, and tenders will shortly be invited, for the rolling mills to be built by the Abbott-Mitchell Rolling Mills Company. The plans show nail, spike and horse-shoe factory, 264 x 53 ft., brick, with gravel roof; bar iron warehouse, 45 x 64 ft., frame, gravel roof; rolling mills proper, 352 x 150 ft., frame, gravel roof; nail and spike storehouse, 53 x 120, and the office, coal sheds and material sheds on a large scale.

KINGSTON, ONT.—H. P. Smith, architect, is taking tenders for an addition to a residence on Gore street, which includes heating and plumbing.—The Dominion Cotton Mills Co. intend building an addition to their Kingston mill the coming season.—Arthur Ellis, architect, has prepared plans for a three storey brick building to be erected by Miss Gildersleeve. Tenders will be invited in a few days.—The Fire and Light Committee has recommended the purchase of additional fire fighting apparatus, including an aerial truck and ladders.

WINNIPEG, MAN.—Specifications are being prepared for the new school to be erected in ward 6, and tenders will be invited in a few days.—A Minneapolis syndicate contemplate erecting a \$50,000 building, corner of Portage avenue and Smith street, on which tenders are now being taken.—Local capitalists are said to contemplate the erection of two large apartment buildings, after the plan of the tenement blocks in large cities.—C. H. Wheeler, architect, has about completed plans for the Manitoba hotel, and they will be sent to St. Paul this week for approval.

NEW WESTMINSTER, B.C.—Work will shortly be commenced on the new station to be built by the C.P.R.—The report of P. Bowler, city electrician, states that by next autumn the electric light plant will be overtaxed and the purchase of a new dynamo will be necessary.—Libenow & Payne propose to erect in this city a plant for making condensed milk.—J. R. Roy, resident engineer for British Columbia for the Dominion Public Works Department, has returned from Ottawa, bringing with him the plans for the new government building in this city.—The city invites tenders up to March 31st for the purchase of any amount of debentures up to \$150,000.

LONDON, ONT.—The school trustees have asked the council to issue debentures to the extent of \$24,000 for providing school accommodation, as follows: Victoria school, four rooms, and rebuilding portion of present structure, cost \$7,500; rebuilding and enlarging Park street school, cost \$8,500; West London, two-room building and purchase of lot, cost \$4,500; Queen's avenue, rebuild and enlarge present school, cost \$3,500.—Wm. Trafford has been granted a building permit for a two-storey brick veneered dwelling and a brick veneered stable on Maple street south.—The question of rebuilding a waterworks dam is under consideration by the council.—St. An-

drew's church congregation have decided to proceed with the erection of a Sunday school building, to cost \$10,000. The church proper will also be improved. H. C. McBride, architect.

HAMILTON, ONT.—About \$6,500 of the \$8,000 required for the renovation of the Central church has been subscribed.—The B. Greening Wire Co. have had plans prepared for additions to factory.—John Kerner is about to fit up the premises at 18 Main street for hotel purposes.—It is expected that the survey of the proposed electric railway between this city and Galt will be completed by the middle of April.—The city engineer has recommended the construction of macadam pavements on a number of streets, at a cost of \$19,507 if the space between the rails is not dealt with, and \$15,840 extra for curbing. Asphalt, brick or tar macadam pavements are recommended for the following streets. Main street, Macnab to Walnut; Hughson street, Main to Gore; King William street, John to Mary; York street, Macnab to Queen.—The proposal to improve St. Paul's Presbyterian church is likely to be abandoned.

MONTREAL, QUE.—The Board of Chairman has distributed among the various civic committees the \$200,000 borrowed by permission of the government for permanent works. The money will be appropriated as follows. Water Committee—mains, \$15,000; new services, \$20,000; sub-division of new services, \$9,000; reservoirs, \$36,000; metres \$1,056. Road Committee—\$30,000 for sidewalks, \$30,000 for the paving of Craig street, \$3,000 for the paving of Maison neuve street, \$5,000 for sewers, and \$5,000 for valves. Fire Committee—\$1,000 for Wellington street fire station, \$2,000 for the tower and furnace of No. 10 station, and \$400 for the Rachel street station. Health Committee—\$25,000 for a new hospital. The Market Committee will spend its \$13,000 on repairs to the abattoir and St. Lawrence Market.—The Road Committee will ask for \$150,000 for paving streets, the amount to be spent on Craig, Wellington, McCord, St Anne, and Maisonneuve streets.

OTTAWA, ONT.—In this issue tenders are invited for another portion of the main drainage works. In the construction of sections 1 and 2, dredging and piling will be necessary in the Ottawa river.—It is stated that the Bronson & Weston Lumber Co. will erect a large factory in this city for the manufacture of calcium carbide. The members of the company are applying for incorporation as the Ottawa Carbide Co.—It is now stated that it is improbable that the Ottawa electric railway will be extended to the rifle range this summer.—Mr. Conroy, of Alymer, is promoting a scheme to build a board bicycle track at some point along the line of the Hull-Alymer electric road.—The Ottawa Car Company have had plans prepared for a new building, 79,99 feet and three stories high, to replace the one destroyed by fire.—The city engineer is computing how much additional space will be required to accommodate the new pumping apparatus. He is of the opinion that it will be necessary to make the building twice its present size.—The Ontario government has been asked to grant aid towards the construction of a bridge over the Ottawa river between Hawkesbury and Grenville.—The authorities of the Sacred Heart Church have decided to have the plans of the proposed building modified in order to reduce the cost.—The City Clerk has invited tenders for alterations and additions to the city hall, consisting of interior wood fittings, desks, metallic ceilings and painting and glazing. E. L. Horwood, architect.—E. F. E. Roy, secretary Department of Public Works, wants tenders by April 18th for erection of public buildings at Kentville, N. S.

Plans at above department, at office of C. E. W. Dodwell, Halifax, and B. H. Dodge, M.P.P., Kentville.

TORONTO, ONT.—Mr. J. F. Brown, architect, Board of Trade building, is taking tenders this week on two residences on Avenue road, this city.—Mr. S. H. Townsend, architect, has been commissioned by the executors of the estate of the late Senator Macpherson to prepare plans for several houses to be erected on land belonging to the estate on Yonge street north.—Mr. F. H. Herbert, architect, closes tenders on Thursday for a pair of semi-detached houses to be erected on Classic avenue.—Tenders are called, to close at noon on Saturday, for a new detached residence on Lowther ave. for Mr. Ambrose Kent. Mr. F. H. Herbert is the architect.—Extensive alterations will be made to the Dineen and Kent buildings on Yonge st. Mr. F. H. Herbert is preparing the plans, and tenders will be invited shortly.—A temporary bridge is being built at the Humber to be used while the proposed new bridge is being constructed.—In the presentment of the Grand Jury at the General Sessions, it was pointed out that the asylum was overcrowded, to relieve which the fitting up of a wing in the Mercer reformatory was recommended. The request of the authorities of the General Hospital that a special building be erected for the nurses was endorsed. It was also advised that the heating capacity in Grace Hospital be increased.—The authorities of Knox Presbyterian church have placed the property on the market, the legislature having authorized the removal of the church to another site. It is reported that the Robert Simpson Company have made an offer for the property.—The management of the Grand Trunk Railway are considering the advisability of double-tracking the Midland branch.—The city has given notice of its intention to construct concrete cement sidewalks on east side St. George street, from College to Hoskin ave., cost \$1,482, and on Church st., from Queen to Shuter st., cost \$703, and brick pavements on Garden ave., from Roncesvalles to Soraraen ave., cost \$7,211, and on College st., from Spadina to Bathurst, cost \$22,434.—The Industrial Exhibition Association have asked for a grant of \$27,800, to be expended as follows. New dairy building, \$10,300; art gallery, \$10,000; pig pens, \$2,500; building for fire brigade, police, and emergency hospital, \$5,000.—The city engineer has recommended the construction of the following pavements and walks. Asphalt—Huron street, Bloor to Lowther ave., cost \$6,960. Macadam—Grenville street, Yonge street to Surrey place, cost \$7,450. Cedar block—Beatty avenue, King to Queen, cost \$2,170; William street, Queen to Caer Howell, cost \$4,360; De Grassi street, Queen to Gerrard, cost \$4,360; Sackville street, Gerrard to Carlton, cost \$1,790. Brick—Bathurst street, King to Queen, each side of street railway tracks, cost \$8,930; Prince Arthur ave., Huron street to Bedford road, cost \$8,070; Lippincott street, College to Ulster, cost \$6,930. Cement concrete walks—Huron street, east side, Bloor street to Prince Arthur ave, cost \$442; Queen street west, north side, Brock to O'Hara avenue, cost \$1,036; Front street, south side, York to Simcoe streets, thirteen feet wide, cost \$793; Adelaide street, south side, between Yonge and Bay streets, twelve feet wide, cost \$927.—Building permits have been granted as follows: Isaac W. W. Plews, pair dwellings, 306-8 Brunswick avenue, cost \$5,500; Thomas Hurst, three brick-fronted dwellings, 496-8-50c Dufferin street, cost \$3,500; Rev. E. T. Fox, two-storey and attic brick residence east side Walmer road, near Bloor street cost \$6,500; T. G. Brough, two storey brick residence, corner of Bernard ave and Admiral road, cost \$5,500.—Tender

are wanted at 77 Rose ave. for brickwork, lathing and plastering.—At the annual meeting of the Toronto Home for Incurables, held last week, reference was made to the necessity of building a residence for nurses.—The School Board of East Toronto will likely recommend the purchase of the land now occupied by the St. Matthew's school on which to build additional school rooms.—The city engineer has submitted to the Board of Works his estimates for the year, and calls attention in connection therewith to the necessity of proceeding with the improvements to the waterworks system. He asks for \$290,000 for a tunnel, \$70,000 for a steel pipe from the shore crib to the island basin, \$70,000 for a steel pipe from the island basin to tunnel shaft, \$55,000 for new pumping engine and boilers, and \$173,000 for new

(Continued on page 6.)

# WATER WORKS

Municipalities contemplating the installation of Water Works Plants will do well to communicate with us, as we can offer several Excellent Pumps in First-Class Condition, Low in Price, on Easy Terms, and Built for Water Works Service.

## The Northey Mfg. Co'y.

KING STREET  
SUBWAY,

TORONTO

# 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

# W. & F. P. CURRIE & CO.

MONTREAL

Importers of

SEWER PIPES,

CHIMNEY TOPS,

VENT LININGS,

FLUE COVERS,

FIRE BRICKS,

2 1/2 in. FIRE CLAY,

WHITING.



PORTLAND CEMENTS,

HIGH GRADE ENGLISH

B. S. & Co. "ANCHOR,"

ALSO OTHER BRANDS,

PLASTER OF PARIS,

BORAX,

CHINA CLAY.

# The KERR ENGINE COMPANY, Limited

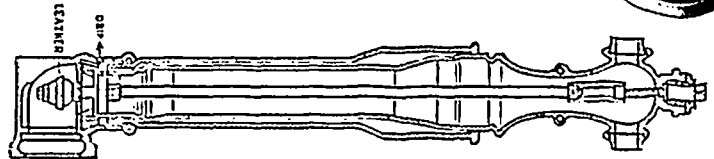
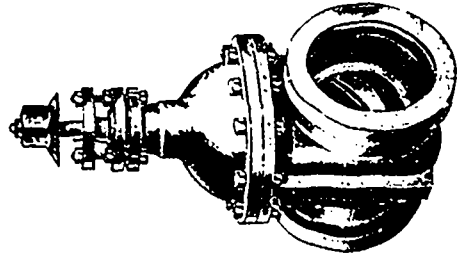
We Manufacture

WATERWORKS PUMPS

HYDRANTS AND WATER GATES

Write for Quotations.

WALKERVILLE, ONTARIO



To Contractors: We have special facilities for the manufacture of all classes of . . . . .

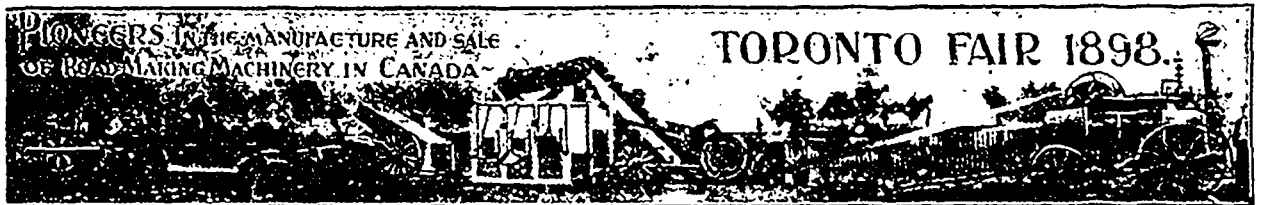
## BRIDGE IRON

Including Rods, Bolts, Nuts, &c. Also Drift Bolts for Breakwaters.

PRICES ON APPLICATION

SWANSEA FORGING COMPANY, SWANSEA (NEAR TORONTO)

# "CHAMPION" ROAD MAKING MACHINERY



Address all enquiries, and send for Descriptive Catalogues, to the

**GOOD ROADS MACHINERY COMPANY,**

**JOHN CHALLEN, Manager,**  
HAMILTON, CANADA.

## MUNICIPAL DEBENTURES BOUGHT

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

MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS

**DEBENTURES BOUGHT**

Municipalities saved all possible trouble by applying to

**G. A. STIMSON & CO.**

Investment Dealers

14 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.

**THE HERCULES CULVERT CO.**

Manufacturers of

Portland Cement

Culvert Pipe

Culvert Arches

ROG-TROUGHS, CURBING, Etc., and GENERAL CONTRACTING and SUPERVISION of all CEMENT AND CONCRETE STRUCTURES. Guaranteeing permanence and satisfaction. For Prices, Estimates and Further Particulars write . . .

The Hercules Culvert Co. - HAMILTON

**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

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, General Agent,

Bewson Bldg. Box 245. NIAGARA FALLS, ONT

**WILLIS CHIPMAN**

Hon. Grad. McGill University.

M. Can. Soc. C.E. M. Am. Soc. C.E.

Mem. Am. W.W. Ass'n.

WATERWORKS, SEWERAGE WORKS, GAS WORKS, ELECTRIC LIGHT AND POWER PLANTS

Reports, Surveys, Construction, Valuations

103 BAY STREET - TORONTO

**RODERICK J. PARKE**

Consulting Electrical Engineer

MUNICIPAL ELECTRIC LIGHTING COMMERCIAL POWER INSTALLATIONS

Isolated Electric Lighting and Power Plants for Manufacturers. Estimates, Specifications, Advice on Tenders. Valuating

310 Temple Building - TORONTO, CANADA

**VAUGHAN M. ROBERTS**

Civil and Sanitary Engineer

Waterworks Sewers, Electric Light, Electric Railways

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

**W. T. ASHBRIDGE, C.E.**

A M. CAN. SOC. C.E.

809 Temple Building, - TORONTO

Special Attention given to

MUNICIPAL IMPROVEMENTS

Sewerage Works, Water Supply, Pavements, Concrete Construction, Etc.

**THE PHOENIX BRIDGE & IRON WORKS**

MANUFACTURERS OF STAY BOLTS AND ALL KINDS OF RIVETS

STEEL AND IRON STRUCTURAL AND ARCHITECTURAL WORK

Beams, Channels, Angles and Tees always in stock.

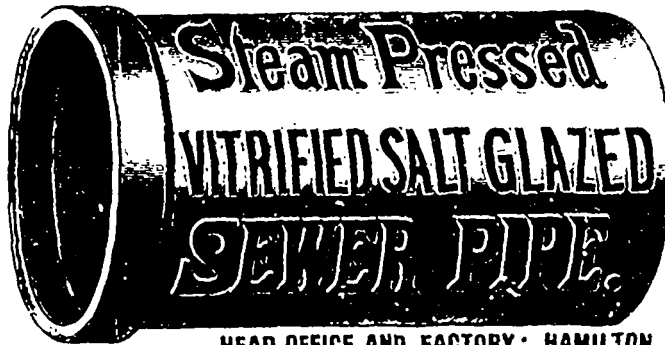
29 to 49 McGill Street,

P.O. Box 893.

MONTREAL

Prices on Application.

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



- FOR -

SEWERS,

CULVERTS

AND

WATER PIPES.

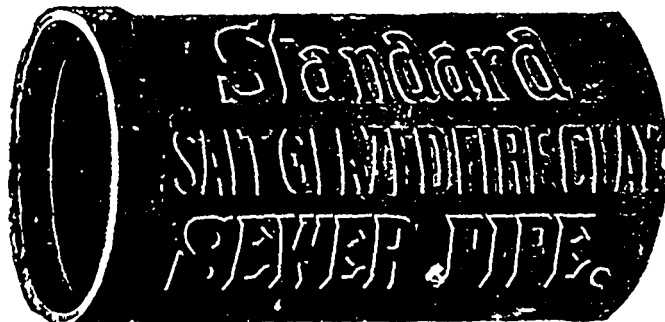
**INVERTS**

For Brick Sewers

Write for Discount

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

**ENSIGN SILICA PORTLAND CEMENT**

For Sidewalks, Pavements, Heavy Masonry and Concrete.

Write for our "ENSIGN" pamphlet, which gives tests, guarantee and other information.

THE RATHBUN COMPANY  
DESERONTO, ONT.

**THE CADWELL SILEX STONE CO'Y SILEX STONE**

WALKS CURBINGS } A SPECIALTY

TO CORPORATIONS. - We can give you the benefit of our ten (10) years' experience in building our Silex Stone Walks.

C. W. Cadwell, Manager, Windsor, Ont.

Please mention the CONTRACT RECORD when corresponding with advertisers.

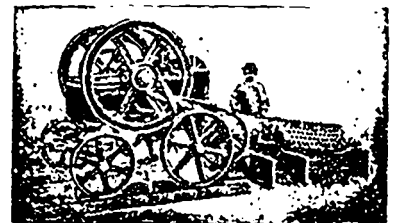
**THE JENCKES MACHINE CO.**

31 Lansdowne Street - SHERBROOKE, QUE.

ORE AND STONE CRUSHERS HOISING MACHINERY RAILWAY SUPPLIES BOILERS AND ENGINES

Prices furnished on application

MARSH & HENTHORN, BELLEVILLE, ONT.



Builders of

**STONE AND ORE CRUSHERS** and Macadamizing Machinery.

Complete Plants Planned and Erected. Write us for Catalogue of Crushing Machinery, and Prices, stating requirements.

mains. The estimates of the Waterworks Department include the following: Renewals—house services, \$5,000; Rosehill reservoir, \$500; main pumping station, \$11,400. Construction—house services \$5,000; laying short lengths of water-mains, valves, and hydrants, \$5,000; waste prevention, \$10,000; 92 new meters, ½-in. to 4 in., \$2,350; concreting Rosehill reservoir, \$20,000; new 10,000,000 pump for main station, \$55,000. In the Works Department there are placed the following sums for roadways and sidewalk repairs: macadam road repairs, \$22,600; gravel road repairs, \$7,700; cedar block repairs, \$8,000; reconstructing street intersections, \$2,000; general repairs to unimproved roadways, \$3,000; asphalt pavement repairs, \$7,000; repairs to pavements between street railway tracks, \$15,000; stone and wooden crossing repairs, \$2,500; sidewalk repairs, \$22,000; eastern stables, \$4,000; northern stables, \$2,000; Humber bridge, \$13,000; sewage disposal, preparing plans, services of experts, etc., \$10,000; steam road roller, \$3,000; dredging slips, \$5,000; piling, foot of Cherry street, \$2,000.

**FIRES.**

Residence near Brighton, Ont., owned by W. H. Walter; practically insured.—Opera house at Nanaimo, B. C.; loss \$20,000, insurance \$10,000.—Building at 122 and 124 Adelaide street west, Toronto, occupied by Douglas Bros., roofers, and Elliott & Brooke, paper box makers, and owned by the Canada Loan and Permanent Co.; loss on building, \$30,000.—R. P. Butchart's dwelling at Shallow Lake, Ont.; insurance, \$3,000.—W. E. Saunders & Co.'s, wholesale drug warehouse at London, Ont., completely gutted.

**CONTRACTS AWARDED.**

**BERLIN, ONT.**—Putting down pipe wells: Fraser & Hardy, of Petrolia, contractors, at \$2.55 per foot, complete; tenders ranged up to \$3 25.

**KINGSTON, ONT.**—The tender of W. Turkington, representing the Standard Drain Pipe Co., of St. Johns, Que., has been accepted for the supply of sewer pipe.

**HAMILTON, ONT.**—The Good Roads Machinery Co., of this city, have received an order from the city of Vancouver, B.C., for one of their No. 5 Champion rock crushers, with elevators and screens.

**CORNWALL, ONT.**—\$55,000 of municipal debentures. H. O'Hara & Co., of Toronto, purchasers, at \$34,303.05.—\$6,633 of local improvement debentures: W. H. Brouse, Toronto, purchaser, at premium of \$152.

**TORONTO, ONT.**—Chas. Rogers & Sons Co. have been awarded contracts for mahogany office fittings of Ontario Bank, corner Yonge and Richmond streets, and stair-case in Telegram building, corner Bay and Melinda streets.

**LONDON, ONT.**—Supplying pipe and laying mains for city: Harding & Leathorn, successful tenderers. Prices: Four-inch mains, 36 cents a foot; six-inch, 51½ cents; eight-inch, 75 cents; iron pipe, \$26.50 a ton; special castings, 2¼ cents a pound.

**MUNICIPAL DEPARTMENT**

**WATER WORKS EXPROPRIATIONS IN CANADA.**

By WILLIS CHIPMAN, C.E.

The following is a list of the cities and towns in Canada that have from time to time acquired their waterworks systems by purchase or by arbitration from the private companies that owned and operated the the works, and the price then paid by the municipality:

Montreal, P.Q.	1845	\$250,000
St. John, N.B.	1855	
Halifax N.S.	1861	275,000
Toronto, Ont.	1873	220,000
Kingston, Ont.	1887	121,000
Niagara Falls, Ont.	1884	17,000
Valleyfield, P.Q.	1887	
Brantford, Ont.	1888	65,000
Owen Sound, Ont.	1890	55,000
*St. Cuneogonde, P.Q.	1891	
*St. Henri, P.Q.	1891	
Brockville, Ont.	1892	138,000
Vancouver, B.C.	1894	
Kincardine, Ont.	1894	40,000
Moncton, N.B.	1894	265,000
Chatham, Ont.	1895	145,000
Cornwall, Ont.	1897	86,500
Sherbrooke, Que.	1897	116,000
Barrie, Ont.	1898	78,000
Berlin, Ont.	1898	102,000

In Ontario an Act of Parliament was passed in 1882 empowering cities and towns to acquire waterworks or gas works by purchase or by arbitration. Six towns have taken proceedings under this statute since 1891, and have acquired their works, three by arbitration and three by mutual agreement.

\* These works were purchased by the municipalities in 1891, but soon afterwards they made arrangements with the Montreal Water and Power Company for a supply of water, and it is now reported that they are owned by this company.

In the Ontario Act, the word "value" is clearly defined as structural value at the time this value is being determined. Ten per cent. is, however, to be added to this valuation by the arbitrators.

The Ontario Act prescribes two methods of procedure:

(a) The municipality may submit a blank by-law to the ratepayers before an offer has been made or a valuation prepared, which, if carried, empowers the council to proceed with the arbitration or to acquire by purchase.

(b) The municipality may proceed with the arbitration and take up the award, then submit a money by-law to the ratepayers for the purchase of the works.

In either case if the works are not taken over, the municipality shall pay all costs of the proceedings.

Berlin is the only place in Ontario that adopted the first method.

In 1898 New Brunswick passed an act similar to the Ontario Act of 1882, but none of the other provinces have any such legislation.

In the Moncton Act, the word "compensation" was used as well as value, but in the Campbellton Act the word "compensation" did not appear, and "value" is not so clearly defined as in the Ontario Act.

In the following cities and towns the waterworks are now owned and operated by private companies:—

Belleville, Cobourg, Ingersoll, Iroquois, Lindsay, Napanee, Peith, Peterborough, Smith's Falls, Stratford, Trenton and Waterloo, in Ontario.

Aylmer, Berthier, Chicoutimi, Cote St. Antoine, Drummondville, Granby, Huntington, La Chute, Richmond, St. Lambert, and Saint Johns, in Quebec.

Lunenburg, N.S.; St. Stephens, N.B.; Winnipeg, Man.; Calgary, N.W.T.; Esquimault, B.C.; and Nanaimo, B.C.—Canadian Engineer.

**Portland Cements...**

HIGH GRADE GERMAN BRANDS FOR GRANOLITHIC AND ARTIFICIAL STONE SIDEWALKS.

**Sewer Pipes, Best English Cements. Best Belgian Cements. Culvert Pipes, &c. W. McNALLY & CO., Montreal.**

**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**

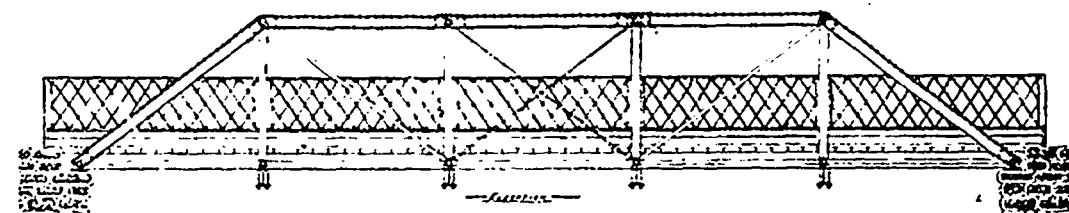
Paving and Fire Brick a Specialty

"DYCKERHOFF" and "WHITE CROSS" Brands

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

**THE HAMILTON BRIDGE WORKS CO., LIMITED, HAMILTON, CANADA**

Manufacturers of **STEEL RAILWAY AND HIGHWAY BRIDGES**



**Steel Roofs and Every Description of Steel Lattice and Girder Work**

Estimates Furnished on Application.





Prices of Building Materials.

INDEX TO ADVERTISEMENTS  
In the "Canadian Architect and Builder."

(Continued.)

Toronto, Montreal.

LUMBER.

Table listing lumber prices for Black Ash, Dressing stocks, Picks, American Inspection, and Three upper, Am. Inspection.

BRICK - W M

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

PRESSBRICK, 1 1/2 IN.

Table listing pressbrick prices for Red, Buff, and Sewer.

P. O. B. BRICK VARIETY.

Table listing various P.O.B. brick varieties like Red A, Red B, Red C, Trojan, Pompeian, etc.

P. O. B. BRICK VARIETY.

Table listing various P.O.B. brick varieties like Peerles Facing, Red, Buff, Brown, Roman Red, etc.

HAND,

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

NTONIC.

Table listing various building materials like Common Rubble, Large flat Rubble, Foundation blocks, Granite, etc.

OHIO PORTLAND CEMENT.

Table listing Ohio Portland Cement varieties like No. 1 Buff, No. 1 Blue, etc.

CREDIT VARIETY STONE.

Table listing credit variety stone prices for Rubble, Brown Coursing, etc.

PORTLAND STONE.

Table listing Portland Stone prices for Rubble, Ashlar, Dimension, Kent Free Stone, etc.

Architects.

Table listing architects like Ontario Directory, Quebec Directory.

Architectural Sculptors and Carvers.

Table listing architectural sculptors like Holbrook & Molling.

Architectural Iron Work.

Table listing architectural iron work like Dominion Bridge Co.

Art Woodwork.

Table listing art woodwork like Southampton Mfg. Co.

Artists' Materials.

Table listing artists' materials like Hearn & Harrison.

Boiler Covering.

Table listing boiler covering like Mica Boiler Covering Co.

Builders' Supplies.

Table listing builders' supplies like Bremner, Alex.

Builders' Hardware.

Table listing builders' hardware like Malleable Iron Co.

Cement.

Table listing cement like Bremner, Alex.

Contractors' Plant and Machinery.

Table listing contractors' plant like Rice Lewis & Son.

Church and School Furniture.

Table listing church and school furniture like Can. Office & School Furniture Co.

Cement.

Table listing cement like Bremner, Alex.

Decorative Stains.

Table listing decorative stains like Cabot, Samuel.

Drains Pipe.

Table listing drains pipe like Bremner, Alex.

Elevators.

Table listing elevators like Fensom, John.

Electrical Apparatus.

Table listing electrical apparatus like Barrie & Co.

Engravers.

Table listing engravers like Can. Photo-Eng. Bureau.

Fire Brick and Clay.

Table listing fire brick and clay like Bremner, Alex.

Galvanized Iron Workers.

Table listing galvanized iron workers like Ormsby & Co.

Grilles and Rallings.

Table listing grilles and rallings like Dennis Wire & Iron Co.

Heating.

Table listing heating like Boston Blower Co.

Interior Decoration.

Table listing interior decoration like Elliott & Son Company.

Lime.

Table listing lime like Currie & Co.

Paints.

Table listing paints like W. I. Lead, Can.

Plaster.

Table listing plaster like Rocking (square).

Roofing.

Table listing roofing like Red, Purple, Untanding green.

Slates.

Table listing slates like Rocking (square).

Stains.

Table listing stains like Cabot, Samuel.

Structural Iron.

Table listing structural iron like Steel Beam.

Supplies.

Table listing supplies like Portland Cement.

Tools.

Table listing tools like Hydraulic Cements.

Woods.

Table listing woods like Redwood.

Decorative Stains.

Table listing decorative stains like Cabot, Samuel.

Drains Pipe.

Table listing drains pipe like Bremner, Alex.

Elevators.

Table listing elevators like Fensom, John.

Electrical Apparatus.

Table listing electrical apparatus like Barrie & Co.

Engravers.

Table listing engravers like Can. Photo-Eng. Bureau.

Fire Brick and Clay.

Table listing fire brick and clay like Bremner, Alex.

Galvanized Iron Workers.

Table listing galvanized iron workers like Ormsby & Co.

Grilles and Rallings.

Table listing grilles and rallings like Dennis Wire & Iron Co.

Heating.

Table listing heating like Boston Blower Co.

Interior Decoration.

Table listing interior decoration like Elliott & Son Company.

Lime.

Table listing lime like Currie & Co.

Paints.

Table listing paints like W. I. Lead, Can.

Plaster.

Table listing plaster like Rocking (square).

Roofing.

Table listing roofing like Red, Purple, Untanding green.

Slates.

Table listing slates like Rocking (square).

Stains.

Table listing stains like Cabot, Samuel.

Structural Iron.

Table listing structural iron like Steel Beam.

Supplies.

Table listing supplies like Portland Cement.

Tools.

Table listing tools like Hydraulic Cements.

Woods.

Table listing woods like Redwood.

Lighting Supplies.

Table listing lighting supplies like Acetylene Lighting Co.

Luxfer Prisms.

Table listing luxfer prisms like Luxfer Prism Co.

Legal.

Table listing legal services like Denton, Dods & Macdonnell.

Mantles, Grates, and Tiles.

Table listing mantles, grates, and tiles like Chat. Rogers & Sons.

Mosaic Marble.

Table listing mosaic marble like Mosaic Marble & Enamel Co.

Roofing Material.

Table listing roofing material like Ormsby & Co.

Sanitary Appliances.

Table listing sanitary appliances like Garth & Co.

Stained and Decorative Glass.

Table listing stained and decorative glass like Horwood & Sons.

Structural Iron.

Table listing structural iron like Steel Beam.

Supplies.

Table listing supplies like Portland Cement.

Tools.

Table listing tools like Hydraulic Cements.

Woods.

Table listing woods like Redwood.

Reverable Windows.

Table listing reverable windows like Duval & Co.

Roofers.

Table listing roofers like Campbell & Gilday.

Roofing Material.

Table listing roofing material like Ormsby & Co.

Sanitary Appliances.

Table listing sanitary appliances like Garth & Co.

Stained and Decorative Glass.

Table listing stained and decorative glass like Horwood & Sons.

Structural Iron.

Table listing structural iron like Steel Beam.

Supplies.

Table listing supplies like Portland Cement.

Tools.

Table listing tools like Hydraulic Cements.

Woods.

Table listing woods like Redwood.