

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

Coloured pages/
Pages de couleur

Covers damaged/
Couverture endommagée

Pages damaged/
Pages endommagées

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

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

Cover title missing/
Le titre de couverture manque

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

Coloured maps/
Cartes géographiques en couleur

Pages detached/
Pages détachées

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

Showthrough/
Transparence

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

Quality of print varies/
Qualité inégale de l'impression

Bound with other material/
Relié avec d'autres documents

Continuous pagination/
Pagination continue

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

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

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

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.

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:

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 OF

PUBLIC WORKS • TENDERS • ADVANCE INFORMATION • AND MUNICIPAL PROGRESS

EVERY THURSDAY

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. 6.

MAY 23, 1895

No. 16.

THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY THURSDAY

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 2362.

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.

TENDERS

Tenders will be received at the office of the Engineer of the London and Port Stanley Railway, London, Ontario, up to 6 o'clock on SATURDAY, 15TH JUNE, for

TWO STEEL BRIDGES

over Kettle Creek and Mill Creek. Specifications and profiles may be had on application to the Engineer.

ORMSBY GRAYDON,
Resident Engineer, L. & P. S. R. London, Ont.

TENDERS

Tenders will be received up to 6 o'clock on SATURDAY, 5TH JUNE, for the construction of

Two Stone Culverts and Embankments

on the London and Port Stanley Railway near St. Thomas. Specifications, profiles, &c., may be obtained from undersigned.

ORMSBY GRAYDON,
Resident Engineer L. & P. S. R.
London, May, 1895.



TENDERS

FOR

STEAM ROAD ROLLER

Tenders will be received by registered post only, addressed to the City Engineer, Toronto, up to 11 o'clock a.m. on SATURDAY, THE 1ST DAY OF JUNE, 1895, for a

12 TON STEAM ROAD ROLLER, WITH COMPOUND ENGINES.

Forms of tender may be obtained at the office of the City Engineer on and after Wednesday, the 15th of May next. A marked cheque, payable to the order of the City Treasurer, for the sum of 2½ per cent. on the amount of the contract price, must accompany each and every tender, otherwise it will be ruled out as informal.

Lowest or any tender not necessarily accepted.

DANIEL LAMB,
Chairman Committee on Works.

Works Dept., City Hall, Toronto, May 10th, 1895.

TENDERS WANTED

Tenders addressed to the Town Clerk, Berlin, will be received up to noon, May 29th, 1895, for

ELECTRIC LIGHTING

of the streets of the Town of Berlin, for a term of years. Each bidder must make his own proposition as to number of lights, service, etc.

The lowest or any tender not necessarily accepted. For further information apply to the undersigned,
HENRY WILDFONG,
Chairman Fire and Water Committee
Berlin, May 14th, 1895.



Notice to Contractors

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to 11 o'clock a.m. on SATURDAY, JUNE 1ST, 1895, for the construction of the following

CONCRETE WALKS.

On Leader Lane, from King Street to Colborne Street.

On Church Street, west side, from King Street to Wellington Street.

On lane off Leader Lane, easterly.

Specifications may be seen and forms of tender obtained at the office of the City Engineer, Toronto, on and after Saturday, May 25, 1895.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 5 per cent. on the value of the work tendered for under \$1,000, and 2½ per cent. for the work tendered for over that amount, must accompany each and every tender, otherwise it will not be entertained.

All tenders must bear the bona fide signatures of the contractor and his sureties (see specifications) or they will be ruled out as informal.

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

DANIEL LAMB,
Chairman of Committee on Works.

Committee Room, Toronto, May 21, 1895.

CONTRACTS OPEN.

PERTH, ONT.—D. Kippen is preparing plans for a new bridge to be built here.

POND MILLS, ONT.—Ed. Kendrew will rebuild his flour mill here recently burned.

BERLIN, ONT.—Tenders are asked for excavating and other work on the new park here.

RENFREW, ONT.—The Government will be asked to provide a suitable post-office building.

FAIRVILLE, N. B.—The Baptist congregation intend remodelling and extending their church.

EXETER, ONT. Dr. Anderson has purchased two lots on Elgin street and will erect a residence thereon.

L'ASSOMPTION, QUE.—The Sisters of Providence will erect an extension to their convent, at a cost of \$10,000.

SOUTHAMPTON, ONT.—The Dominion Government has been requested to dredge the mouth of the Saugeen river.

BRANTFORD, ONT.—The Waterous Engine Works Co. have decided to build their new premises on Market street.

WOODSTOCK, ONT.—Tenders are invited until the 29th inst. for the erection of a brick building at the House of Refuge.

THREE FORKS, B. C.—It is reported that the C. P. R. will build an electric tramway from this place to Sandon and Cody Creeks.

OIL SPRINGS, ONT.—John Hartley, Sec. Building Committee, will receive tenders until the 25th inst; for the erection of a brick church.

CLARKSBURG, ONT.—The Underwriter's Association have requested the Council to erect a fire-proof pumping house and fire hall.

SHERBROOKE, QUE.—The Royal Paper Mills Company propose to erect a saw mill on an extensive scale. F. B. Buck is president of the company.

TILSONBURG, ONT.—Proposals are invited by E. C. Jackson, Town Clerk, until June 1st for the purchase of \$12,800 of local improvement debentures.

MERRICKVILLE, ONT.—The ratepayers will vote on a by-law on the 14th of June to raise the sum of \$2,000 for erecting an addition to the public school.

GALT, ONT.—T. Buchanan, Chairman Board of Works, will receive tenders until the 31st inst. for laying 800 yards of pine plank walk and 2,300 yards of asphalt walk.

WINDSOR, ONT. New city and county buildings are to be erected here this summer, at a cost of \$50,000. Windsor will provide the site and pay three-fifths of the cost.

MANIWAKI, QUE.—A deputation from this place have requested the Dominion Government to make a grant towards the erection of a bridge over the Gatineau river here.

DORCHESTER, N. B.—R. C. J. Dunn, architect, of St. John will have plans completed in a few days for the new hotel to be erected here by the Dorchester Hotel Company.

VICTORIA, B. C.—Tenders will be called by the City Council for the construction of a cofferdam at Elk Lake.—The British Columbia Fertilizer and Manufacturing Company propose to erect a factory at Quatsino.

LOCHIEL, ONT.—Major McLellan, M. P., for Glengarry, has presented a petition to the Dominion Government from the Municipal Council of Lochiel, asking that the sum of \$3,000 be placed in the estimates for the deepening of Spring Creek.

PORTAGE LA PRAIRIE, MAN.—Tenders are asked by the Department of Public Works at Ottawa until Friday, the 7th of June, for the erection of a post-office in this town. Plans may be seen at the Department of Public Works, Ottawa, at the Public Works office, Winnipeg, and at the office of Mr. Wm. Miller, in this town.

MONCTON, N. B.—D. Pottinger, General Manager Intercolonial railway, invites tenders until the 27th inst. for the supply of oil required by the railway for one year from 1st July next.

BELLEVILLE, ONT.—H. C. Hunt will receive tenders until the 30th of May for the erection of a dwelling. Plans may be seen at the office of S. Burrows, Front street.—The Board of Education will build a new school on Station road this summer. Estimated cost \$5,000.

ELMVALE, ONT.—A new residence will be erected this summer for Chas. Copeland, the architects being Kennedy & Co., of Barrie. The stonework has been given to John Kennedy, but the other trades are not yet let. Estimated cost not yet let.—A. E. McGinnis is erecting a limehouse 40 x 50 feet in size.

CARBERRY, MAN.—Tenders are invited by the Board of School Trustees, addressed to the Chairman, until Monday, the 27th inst., for the erection of a brick school building in this town. Plans may be seen at the offices of G. Barrett, solicitor, Carberry, and W. Shillinglaw, architect, of Brandon.

BRUSSELS, ONT.—Whole or separate tenders are invited by the Public School Board, addressed to R. Ross, Secretary, until Saturday the 1st of June, for the erection of a six-roomed public school in this town, from plans prepared by H. J. Powell, architect, of Stratford, and which may be seen at this office.

VANCOUVER, B. C.—The school board have accepted the plan of W. T. Dalton for a four-roomed school building at Fairview.—The plans submitted by Garden, Hermon & Burwell for Robson street, extension, have been adopted, and the City Engineer will prepare an estimate of the work.—The City Clerk is asking for tenders until 4 p. m. to-day (Thursday) for supplying pipe for the shore ends of the new submerged main across the narrows.

COLLINGWOOD, ONT.—A deputation from the town last week interviewed the Minister of Public Works at Ottawa urging the deepening of the harbor here to 16 feet. It is thought an appropriation for the work will be granted.—Fred. T. Hodgson, architect, is asking for tenders until the 27th inst. for building a brick wing to the Collingwood Marine Hospital.—Mr. Geo. White-Fraser, of Toronto, has prepared plans and specifications for an electric and steam plant, and tenders will be called shortly.

KINGSTON, ONT.—Mr. A. T. Drummond, of Montreal, is said to have been successful in floating the bonds of the Kingston and Smith's Falls railway, and Mr. C. S. Gildersleeve has ordered a survey of the property between P. Blake's farm and Kingston mills, and a tract of land four miles in length near Morton.—The City Council have appointed a delegation to visit Youngstown, Ohio, to secure information and examine the plans of the proposed iron and steel works to be constructed here.

ST. JOHN, N. B.—The vestry of St. Jude's church have decided to take steps to secure the building of a church to replace the one destroyed by fire some time ago.—The directors of the Exhibition Association are making arrangements for the erection of new buildings.—The rooms now occupied by the St. John Law Society, and the equity and probate courts, being required for other purposes, it is understood that the Council of the Law Society have under consideration the erection in the near future of a new building suitable for their purposes.

CHATHAM, ONT.—A by-law has been passed by the City Council providing for the acquirement by the city of the Chatham Waterworks Company's plant, and the question will be submitted to a vote of the electors. Mr. John Galt, C. E., of To-

ronto, recently made surveys and estimates of cost of a suitable waterworks system, which was as follows: for a filtered river supply, \$157,000; for a Lake Erie supply, \$242,000, and for a Chenal Ecarte supply, \$342,000. The present plant of the company is valued at \$131,000, and it is estimated that it could be adapted to filtration at a total cost of \$141,000.

HAMILTON, ONT.—It is proposed to reconstruct the old House of Refuge, at a cost of \$4,000 to make it suitable for a home for incurables. The changes involved are the removal of the upper storey the laying of new floors throughout and putting in new heating apparatus.—A sewer will be constructed on King street, between John and Catherine streets.—The following building permits have been granted: H. W. Bustin, two-story brick dwelling on Queen street south, cost \$1,200; Thomas Allen, two story brick dwelling on Jackson street east, cost \$1,200; Henry Robson, two-story brick dwelling on Walnut street, between Jackson and Hunter streets, cost \$1,100.

GUELPH, ONT.—The Waterworks Committee have decided to recommend the submission of a by-law to the rate-payers to raise funds to lay a new main from the pumping house to the Grand Trunk railway depot. The estimated cost is \$9,600.—All the stock for the proposed rolling mills has been subscribed, and a meeting of directors of the company will be held shortly to decide upon plans for the buildings. The name of the company is the Guelph Norway Steel Iron Company, and Mr. James Watt is president.—Contracts are about to be let for the electric street railway, of which Mr. Sleeman is the promoter. The consulting engineer is Mr. Geo. White-Fraser, of Toronto.

WINNIPEG, MAN.—The electors sanctioned the by-law on the 16th inst., to raise the sum of \$65,000 for the erection of new school buildings.—The Committee on Works have recommended the construction of the following work: 18 ft. granolithic walk on Main street, cost \$1,800; sewer on St. Mary avenue, cost \$1,000; plank walk on Assiniboine ave., cost \$1,170. The cost of a stone arch bridge over Colony Creek at Portage avenue was given as \$9,000, and the committee recommended that the present bridge be repaired, at a cost of \$800.—The Building Committee of the Masonic Temple shareholders have decided to recommend the plans of Mr. Geo. Browne, for the temple structure. The plans provide for a building 65 x 75 ft., and 40 feet in height. It will be three stories, fronting on Donald street, the north side facing Knox church.

OTTAWA, ONT.—The Central Fair Executive Committee have decided on the erection of a new grand stand and a new entrance at Bank street. Geo. Bailey, architect, has prepared the plans.—Ald. Champagne, Davis, McGuire and the City Engineer have been appointed a committee of the Board of Works to visit Montreal and report on the subject of asphalt roadways. The City Engineer favors the use of scoria blocks instead of granite.—Surveyors have been engaged during the last week locating a site at Hawkesbury for a bridge over the Ottawa river for the Great Northern railway, which is to connect with the Canada Atlantic railway at that point, and which is proposed to run from Quebec city through the northern countries of Quebec. Some hundred miles of the line are yet to be built.—The third ten miles of the Parry Sound railway from Louk Lake west will be put under contract at an early date.—The Canada and Michigan Tunnel and Bridge Co.'s bill to permit of the construction of a railway bridge between Detroit and Windsor has received the assent of the Railway Committee of the House of

Commons. The bridge must be commenced within five years, and finished within seven. It will be a cantilever, with a drawbridge in the centre, having a span of 1,000 feet. The drawbridge will be forty-five feet above the level of the river. It was originally the intention of the company to build a tunnel, but this idea has been abandoned. A. D. Provand, M. P., on behalf of the Chignecto Marine Transport Railway, has asked the cabinet to grant a two years extension of time for the completion of the enterprise, in order to secure the Dominion subsidy of \$170,602 per annum for 20 years. The railway, which extends from Tidnish, in the Bay of Fundy, is practically completed, but an expenditure of about \$1,500,000 is required for making the docks at either end, putting in hydraulic lifts, etc.

MONTREAL, QUE.—The municipality of St. Louis du Mile End has determined to float a \$100,000 loan, to meet obligations for local improvements.—St. Lawrence street is to be paved, and new drains are to be built on St. Louis and St. Joseph streets.—A proposal is on foot to erect a Congregational church at Westmount. It is said that a suitable lot has been procured and that the erection of a church will be pushed forward rapidly.—The City Surveyor has reported that the sum of \$16,000 would be required for flagstone crossings and repairs to permanent sidewalks and pavements, and \$10,000 for repairs to shafts. The items have been sent to the Finance Committee.—The Catholic School Commissioners of St. Henri are negotiating a loan of \$130,000 with a view of consolidating the present debt and building two new schools.—Messrs. A. W. Ogilvie, Louis Tourville, Thos. Pringle, Joseph S. Bousquet, of Montreal, and Mr. J. A. Normand, of Three Rivers, have applied to the Dominion Parliament for a bill of incorporation for the South Shore Suburban Railway Company, which proposes to construct a railway from Longueuil to a point near St. Johns, in Sherville county, and to erect a general traffic bridge over the St. Lawrence river at St. Lambert or Longueuil. The capital stock of the company is placed at \$1,000,000, but it is proposed to issue bonds to the extent of \$2,000,000 in aid of construction. The bridge is to be completed within two years of the completion of the guard pier.—Mr. A. J. Cooke, architect, is preparing plans for a residence on Melbourne ave., Westmount, for Mr. Howard Ransom.—Building permits have been granted as follows; W. C. McDonald, rebuilding tobacco factory cor. iberville and Ontario sts., 4 storeys high in brick; A. Hammond, two-storey brick residence, St. Urbain street, cost \$2,700; estate C. Boyer, store and dwellings, St. Catharine street; stone front, cost \$55,000; M. Martin, one 4 storey stone tenement building, Sherbrooke street, cost \$9,000.

TORONTO, ONT.—Tenders are invited by the Separate School Board, addressed to James Ryan, Chairman Sites and Building Committee, until 5 p. m. on the 27th inst., for sundry carpenter work, painting, reglazing, reslating, blackboards, etc., required in the various schools throughout the City. Specifications may be seen at 28 Duke street.—The new factory and salesrooms to be built this summer by Mr. A. R. Williams, of the Soho Machine Works, will be five stories high, with a frontage of 75 feet and a depth of 150 feet.—At a meeting of the Provincial Board of Health held in this city last week, sewage schemes proposed to be undertaken by Galt and Belleville, and waterworks schemes by Port Hope and Orangeville were approved of.—Tenders for painting the brickwork of the old portions of the Union Station are invited by the Grand Trunk Railway Company until Friday, the 31st inst., addressed to Edmund Wragge, local manager.—The

Board of Works have decided to request the City Engineer to prepare plans and specifications at once for a suitable water-works system for the Island. The cost is estimated at \$15,000. The City Engineer recommended to the Board of Works on Monday last, the construction of permanent pavements as local improvements, to the value of \$200,000. The following is the list, as passed by the Board: asphalt, Huron, from College to Sussex avenue, cost \$23,240; Charles, from Church to Jarvis, cost \$6,140; Harbord, from Huron to St. George, cost \$3,850; Berkeley, from Gerrard to Carlton, cost \$5,630; Brunswick avenue, from College to Ulster, cost \$11,370; Victoria, from Adelaide to Queen, cost \$10,900; Huntley, from Bloor to Earl, cost \$10,700. Brick, Amelia, from Sumach to Parliament, cost \$11,900; Selby, from Sherbourne, to Huntley, cost \$3,720; Division, from Spadina avenue to Huron street, cost \$2,120; Buchanan, from Yonge to Terauley, cost \$3,340; Dovercourt road, from Queen to Dundas streets, cost \$17,700. Cedar blocks, Gladstone avenue, from Queen to Dundas, cost \$5,970; Brookfield, from Queen to Humbert, cost \$1,440; Argyle, from Dundas to Gladstone avenue, cost \$5,240. Concrete walks are recommended by the City Engineer on the east side of St. George street, from Bloor to Hoskin, and on Front street, north side, from West Market to Church street.—The new departmental store of R. Simpson, corner Yonge and Queen streets, will be six storeys high, of fireproof construction throughout, 118 feet by 157 feet in size. The probable cost is estimated at \$200,000. Burke & Horwood are the architects.—A four-roomed brick school will be erected in East Toronto.—A deputation will wait on the City Council on Thursday next, requesting a grant of \$35,000 to enlarge the House of Industry.—Building permits have been granted as follows: Mrs. Fuller, May Place, two story and attic det. brick residence, 9 Dunbar road, cost \$3,200; R. Saxby, 2 story brick dwelling, 65 Walker ave., cost \$2,000; F. H. Herbert, two-story and attic bk. dwelling, Huron street, west side, cost \$5,500; J. Wilson Gray, det. 2 story and attic bk. dwelling, 59 Langley ave., cost \$3,500.—Messrs. Post & Holmes, architects, are building a rectory at Bambridge, Ont., to cost \$60,000.—Mr. E. J. Lennox, architect, is receiving tenders for a residence on Jarvis street for Mr. W. K. Johnston.

FIRES.

Murray & Taylor's dry goods store at Kingston, Ont., has been damaged by fire to the extent of \$7,000. The building is owned by the Wilson estate.—Bolidere Lodge at Quebec, Que., owned by Ralph Lamb, was destroyed by fire last week. Insurance on building, \$3,200.—J. Creighton's furniture store at Owen Sound, Ont., was damaged by fire to the extent of \$4,500 last week, covered by insurance.—The residence of Peter Grusbrecht, at Gretna, Man., was burned last week.—Samuel Patterson's steam saw mill at Shanklin settlement, St. John County, N. B., was destroyed by fire on the 6th of May. The mill was well equipped with machinery and the loss is heavy. Mr. Patterson intends rebuilding.—The Eby house at Warton, Ont., owned by Mr. Rogers, was damaged by fire last week to the extent of \$1,000, covered by insurance.—The fruit and confectionery establishment of Lally & Cavanagh, at Cornwall, Ont., was destroyed by fire recently. The loss is placed at \$3,000 and insurance at \$1,900.—At Aylesford, N. S., on the 16th inst., the warerooms and a tannery building owned by L. O'Neilly & Co., were consumed by fire. Loss, \$8,000; insurance \$1,500.—On Sunday last fire destroyed the wharf, freight sheds, and coal-pier at Richmond, N. S., together with several railroad cars. The pier was

repaired a few years ago, at a cost of \$75,000, and the total cost is placed at a quarter of a million dollars.—The large flouring mills and elevator at Simcoe, Ont., belonging to W. B. Browne & Co., were completely destroyed by fire on Thursday last. The loss is nearly covered by insurance.—The Union Furniture factory at Wingham, Ont., was destroyed by fire on Tuesday last. Loss, \$42,000; insurance, \$13,600.

CONTRACTS AWARDED.

ST. JOHN, N. B.—The Globe Furniture Co., of Walkerville, Ont., are furnishing the pews for the new Baptist church here.

MONCTON, N. B.—The tender of the Bank of Montreal, for the city loan of \$350,000 has been accepted by the Council, at 96 1/4.

OSHAWA, ONT.—Ahearn & Soper, of Ottawa, have sub-let a portion of the railway construction contract to Contractor Hartnett, of Toronto.

LONDON, ONT.—Rogers & Doss, of this city, have been awarded the contract for electric wiring and fixtures for the First Methodist church, St. Thomas.

BARRIE, ONT.—Thos. Kennedy & Co., architects, have awarded contracts as follows for a residence for Thos. McCulloch. carpenter work, R. E. Fletcher, Barrie; masonry, Orr Bros., Toronto.

HALIFAX, N. S.—The City Council have accepted the tender of A. E. Jarvis, of Toronto, for a loan of \$157,000, at 100.15 per 100, and that of J. C. Mackintosh, for a loan of \$12,553, at 100.025 for bonds bearing 4 1/2 per cent, and 98.025 for those bearing 4 per cent.

SEAFORTH, ONT.—Contracts for the erection of an hotel to replace the Commercial were let last week as follows: carpenter work, painting and glazing, John H. Broadfoot, \$3,800; mason work, F. Guttridge, \$3,400; iron work and plumbing, S. Mullet & Co.

(Continued on page 4)

MERRIFIELD & WESTCOTT . . .
 ENGINEERS and CONTRACTORS
 — FOR —
WATER WORKS AND GAS PLANTS
 269 Front Street East, TORONTO.

WILLIS CHIPMAN, B. A. Sc.,
 M. Can. Soc. C. E.; M. Am. Soc. C. E.;
 M. Am. W. W. Ass'n.
CIVIL AND SANITARY ENGINEER
 Water Works - Sewerage
 Sewage Disposal
 103 BAY STREET - TORONTO.

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.

JOHN D. EVANS, O.L.S.
 MEM. CAN. SOC. C. E.
LAND SURVEYOR
Civil Engineer : Architect
 and Patent Solicitor.
 Special attention given to Consulting and
 Municipal Work.
 GRASS' BLOCK, FRONT ST., TRENTON, ONT.

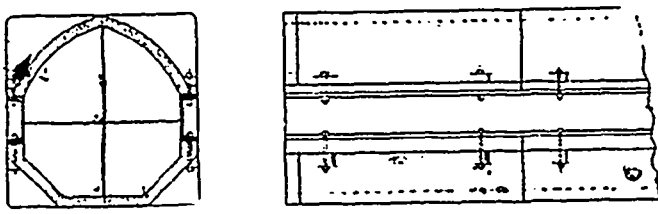
JOHN GALT, C.E.&M.E.
 (Member Can. Soc. C. E.)
Consulting Engineer and Expert
 Specialties:
 Water Supply and Sewerage, etc.
 Electric Power, Lighting, Railways, etc.
 Offices:
 Canada Life Building - TORONTO

GOOD ROADS
ALAN MACDOUGALL
 Member Ontario Good Roads Association.
CIVIL AND SANITARY ENGINEER
 32 East Adelaide St. - TORONTO

Surveys and estimates prepared for all classes of road improvement, macadam, telford, gravel and mud roads. Construction superintended.

GEO. WHITE-FRASER
 C.E., D.T.S., A. AM. INST. ELEC. ENG.
CONSULTING
ELECTRICAL ENGINEER
 Electric Railways and Electric Light.
 SPECIALTY: Specification and Superintendence of
MUNICIPAL PLANTS.
 18 Imperial Loan Building - TORONTO

HERCULES INDESTRUCTIBLE CULVERT 20 per cent. more water-
 than circular form.
 Unrivalled for
Strength . Durability
Cheapness.
 Made in sizes of 20 in., 24 in., 30
 in., 3 ft. 4 in. and 5 ft.
 Write for prices to
EDWIN W. SMITH
 344 Garth St., Hamilton, Ont.



ARTIFICIAL
STONE
PAVEMENTS. 
SIDEWALKS
A
SPECIALTY. 
CORPORATIONS
 Will do well to consider our work and prices before
 letting contracts.
THE SILICA BARYTIC STONE COMPANY OF ONTARIO, LTD.
Head Office: Ingersoll, Ont.
 WALTER MILLS, General Manager.

MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS

TORONTO, ONT. The Board of Works have accepted the following additional tenders for waterworks supplies: general stores, F. W. Unitt; filling in trenches and laying water pipes, Burns & McCormack; lumber, J. B. Smith & Co.; iron and steel, Aikenhead Hardware Company, steel \$11.45 and iron \$1.55 to \$2.80 per 100 lbs.; rubber valves and packing, Toronto Rubber Company for foot valves at 75 cents per lb.; other rubber goods, Gutta Percha and Rubber Manufacturing Company.—The Toronto Radiator Mfg. Co., of this city, have secured the contract for heating the county buildings at Brantford, Ont.

MONTREAL, QUE.—The Canadian Bridge Co. have secured a contract from the Atlantic and Lake Superior Railway Company for all the ironwork required on the bridges to be constructed along their line between Chaudiere Junction and Yamaska. The amount involved in the contract is said to be about \$250,000.—Robert Findlay, architect, has awarded contracts as follows: residence on Upper Stanley street, for Mr. H. R. Miller: masonry, Whighton & Morrison; brick, Amos Cowen; carpenter and joiner's work, Geo. Roberts; roofing, Montreal Roofing Co.; plumbing and heating, J. Date; other trades not let. Residence on Metcalf avenue, Cote St. Antoine, for Mr. R. Harvie: masonry, Labelle & Payette; carpenter and joiner's work, Forde & Casey. Residence on Metcalf street for Mr. F. G. Hart: masonry, R. Wilson; brick, A. Cowen; carpenter and joiner's work, John Allan; roofing, Montreal Roofing Co.; plastering, J. McLean.—Mr. C. St. Jean, architect, has awarded contracts for a presbytery at St. Jerome to Gognon & Desrosiers, contractors, of Louisville.—A. J. Cooke, architect, has awarded contracts for Westmount Methodist church as follows: masonry and brick, W. J. B. Fraser; carpenter and joiner's work, D. D. Smith; roofing, Geo W. Reed. Other trades not let.—A. Prefontaine, architect, has awarded contracts for a school house on Roy street, for the Sisters of the Congregation of Notre Dame: masonry, O. Martineau; brick work, P. Brunet; carpenter and joiner's work, Cote & Bernard; plumbing and heating, Blouin, Desforges & Latourelle; painting, Gagné & Lefebvre; plastering, Jos. Chamberland.—H. R. Falbord, architect, has awarded contracts for a church at St. Laurent as follows: masonry and brick work, carpenter and joiner's work, plastering and painting, Magnan & Mennier; plumbing, heating and roofing, Lamarche & Leclerc.

NEW COMPANIES.

NORLAND, ONT.—Providence Gold Mining Co.; incorporated; capital \$40,000; incorporators, G. Tomlinson, G. Arnold, T. W. Rye, and others.

ST. CATHARINES, ONT.—Lundy's Lane Electric Street Railway Co.; incorporated; capital, \$50,000; promoters, H. C. Symmes, J. A. Lowell, J. G. Cadham and G. R. Symmes.

VICTORIA, B. C.—Kootenay Hydraulic Mining Co., of Rochester, N. Y.; registered in this city; capital, \$50,000; to acquire and operate gold and silver mines in the province of British Columbia.

TORONTO, ONT.—Collins Manufacturing Co.; capital, \$40,000; applying for incorporation; to carry on business as heretofore as manufacturers of metal ceilings and roofing, corrugated sheet iron, etc.

Dennis Keliher, contractor, Guelph, Ont., is dead.

The liabilities of J. B. Rose & Co., metal merchants, Montreal, have been placed at \$43,207, and assets at \$17,000.

DEBENTURES PURCHASED

Municipalities issuing debentures, no matter for what purpose, will find a ready purchaser by applying to G. A. STIMSON, 9 Toronto Street, Toronto. Any assistance required in computing calculations in connection with sinking fund, etc., will be gladly given. N.B.—Money to loan at lowest rates on first mortgage.

Imperial Trusts Company of Canada

39 CHURCH STREET, TORONTO
Capital, \$400,000.

The Company is ready at all times to purchase MUNICIPAL DEBENTURES and has always such Securities on hand for sale. Allows 4% interest per annum on money, and takes charge of Sinking Funds on special terms. J. S. LOCKIE, Manager.

The London and Canadian Loan and Agency Co., Ltd.

Capital, \$5,000,000.00.

MUNICIPAL DEBENTURES PURCHASED.
MORTGAGES PURCHASED.
MONEY TO LOAN AT CURRENT RATES.
103 Bay St., Toronto. - J. F. KIRK, Manager.

Paving Granite

Granite Sets for Street Paving.

CURBING cut to any shape ordered.

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

Address all communications to

JOS. BRUNET - COTE DES NEIGES, MONTREAL

Fire Bricks and Cement

DRAIN AND WATER PIPES

SANITARY EARTHENWARE

LONDON PORTLAND CEMENT

GUARANTEED GENUINE.

Paving and Scoria Bricks for Stables, Sidewalks, Yards, etc.

Large quantities on hand and to arrive. We handle only the best quality. Prices lower than ever.

F. HYDE & CO.

31 Wellington Street, - MONTREAL,

Sole Agents for

THE "CRAHTRYX" SMOKE TEST AND DISINFECTING MACHINE.

Drummond McCall Pipe Foundry Company,

MONTREAL

MANUFACTURERS OF

CAST IRON WATER AND GAS PIPES

WORKS: LACHINE, QUE.

PRICES ON APPLICATION.

Cast Iron Pipe • Special Castings

HYDRANTS AND VALVES

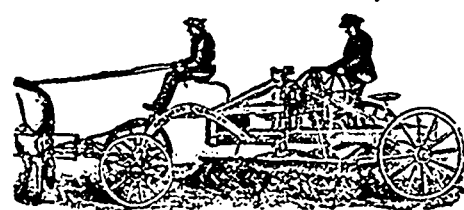
MANUFACTURED BY

THE WM. CLENDINNENG & SON CO., Ltd.

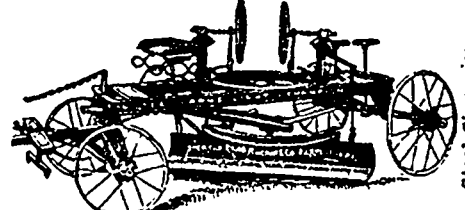
Correspondence solicited.

Montreal and St. Henry.

THE COPP BROS. CO., LTD. Hamilton, Canada, Manufacturers of both these Road Machines.



American Champion.



Steel Champion.

THE G. & J. BROWN MFG. CO.

Railway and Contractors' Plant.

BRIDGE BUILDERS

BELLEVILLE, ONT.

DEBENTURES PURCHASED.

WE will pay the highest price for MUNICIPAL DEBENTURES. We tender our services to those not having books to make for them the calculations necessary when issuing debenture: payable in annual instalments JEMILIUS JARVIS & CO. (Member Toronto Stock Exchange), 23 King St. W., Toronto.

EUREKA CONCRETE () PAVING COMPANY

FOR SIDEWALKS,
STABLE FLOORS,
CELLAR FLOORS,
BREWERY FLOORS, ETC.

A. GARDNER & CO.

17 Yonge St. Arcade - TORONTO
Telephone 2147

CEMENT

We
Manufacture
the

THOROLD
HYDRAULIC
CEMENT

the best
and
cheapest

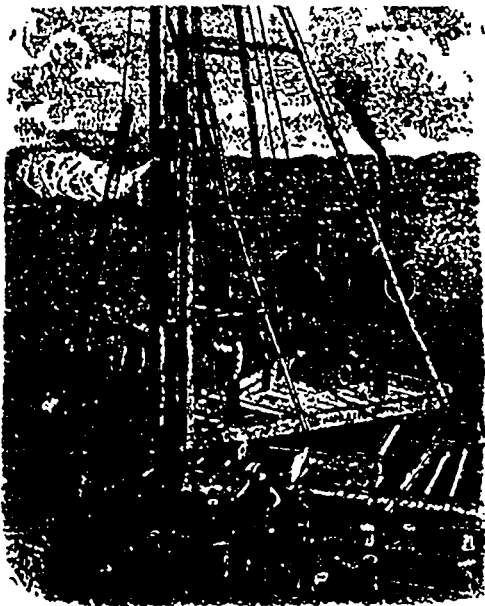
for all kinds of Masonry work.
Used on all Government and
Municipal works, also on the
Grand Trunk Railway.

Write us for prices
or any other information
required.

ESTATE OF JOHN BATTLE

THOROLD, ONTARIO

MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS



PILE DRIVING

on land or water by Steam Pile Drivers or Drop Hammers

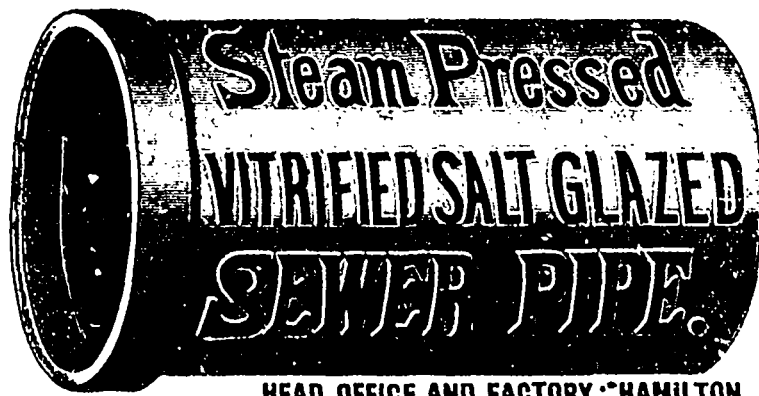
Portable Boilers, Pumping and Hoisting Machinery to Let.

WM. HOOD & SON
CONTRACTORS

10 Richmond Sq. - MONTREAL.

Municipal Officers, Contractors and others are requested to mention the CONTRACT RECORD when corresponding with advertisers.

HAMILTON AND TORONTO SEWER PIPE CO.



FOR SEWERS, CULVERTS, AND WATER PIPES. INVERTS Fire Brick Sewers

Write for Discounts.

HEAD OFFICE AND FACTORY: HAMILTON, CANADA.

THE STANDARD DRAIN PIPE CO.

OF ST. JOHNS, P. Q., (LIM.)



Manufacturers of Salt-Glazed Vitrified SEWER PIPES

Double Strength Railway Culvert Pipes, Inverts, Vents,

AND ALL KINDS OF FIRE CLAY GOODS.

STEAM AND POWER

FOR ALL DUTIES



NORTHEY CO. LTD.

TORONTO, ONT.

THE LAURIE ENGINE CO., MONTREAL
Sole Agents for Province of Quebec.

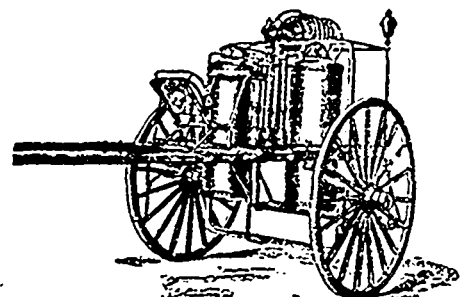
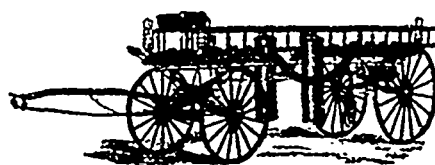
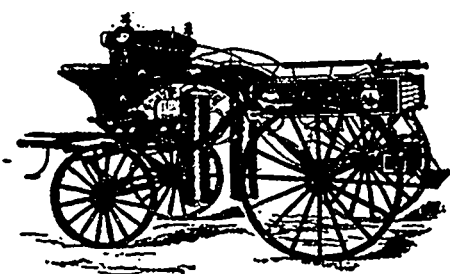
Kingston Chemical Fire Engine Co.

KINGSTON, ONT.

MANUFACTURERS OF THE

WILSON PATENT

CHEMICAL FIRE ENGINE



This machine is the most powerful fire fighter. It has two cylinders, 40 gallons capacity each. The combination of chemicals will not freeze, renders material with which it comes in contact non-inflammable, and will not corrode when not in use. For full particulars, write to the Head Office of the Company at Kingston.

D. D. WILSON, Managing Salesman.

JOHN BREDEN, Sec.-Treas., KINGSTON, ONT.

For reference address H. YOULDEN, Chief Fire Department, Kingston.

MUNICIPAL DEPARTMENT

MUNICIPAL ELECTRIC LIGHTING.

NO. IV.

BY GEORGE WHITE-FRASER, A. AM. INST. ELEC. ENGRS.

THE system after which records of operation of the lighting station is kept, is a very important factor in keeping down expenses, and in contributing towards general efficiency. It is necessary, in order to keep a grasp on the entire business as a whole, to keep a watchful eye on every detail, and to allow no little local faults to develop. It is above all things necessary in a steam station, to utilize every possible unit of heat that the fuel contains; for every heat unit that is not made use of is wasted, and that means wasteful expenditure. It is impossible to do this without keeping a series of exact observations, as to the amount of heat "drop" at various points, and the amount of electrical drop at others. To illustrate: A certain quantity of coal or wood is consumed every ten or twelve hours, and the question arises as to whether this fuel has produced a fair amount of electricity or not. One person says that too much fuel has been consumed, and that in another power station they generate the same amount of current for half the fuel. Where is the waste? Is the damper too loose? Are the valves set right? Is the feed water heater in good condition? Are the grates adapted to the kind of coal? Perhaps the carbon in the coal is not thoroughly consumed, in consequence of insufficient air? Perhaps there is a large drop in pressure and considerable radiation in the steam pipes? Or again, there may be a leak on the lines; or a "ground" on the lightning arrester; or a score of other things. But the difficulty is to tell just where this waste is taking place. The engine "cut-off" may have shifted, so that it is taking far more steam than necessary, and exhausting at considerably above atmospheric pressure. This would account for a large waste, and would be quite impossible of detection, unless cards were taken periodically. A slight rearrangement of piping, etc., might result in raising the temperature of the feed water by several degrees, but unless the temperature were observed frequently this reconstruction might not occur to any one as advisable. There might be a very considerable leak on the lines somewhere, but unless a record be kept, not only of the amount of electricity consumed and paid for, but also of the amount generated, it will not be evident. And if it be not evident that there is a leak somewhere, then it will not occur to anyone to look for one. So that really a very large amount of current may be running to waste all the time, and nobody will be the wiser.

In order to keep track of the operation,

each night's run should be properly recorded; taking particular and exact account of quantity of fuel used; quantity of water used; temperature of feed at different times; steam pressures; vacuum records; maximum and minimum ampere readings (these for purely commercial reasons) and an exact record of the watt-hours generated at each dynamo terminals. With these data, and the times of starting and stopping, the efficient manager will be able to figure up for each run, what it has cost to generate one watt-hour, or lamp-hour, or any other assumed unit. He will compare the results of one run with those obtained for another, night by night, week by week, month by month. He will at once notice any regular increase of this cost, and the date will indicate the cause. Comparing the total output of the station for the month (as obtained from the nightly watt-meter readings) with the amount of money received for lamp rentals during the same time, will at once show whether more current was generated by the dynamos than consumed in the lamps; thus a leak can be detected on the lines; and a careful analysis and consideration of the nightly, weekly, and monthly watt-meter readings, and ampere readings will very frequently suggest such an alteration in the general policy of the lighting committee, with respect to rates, rebates, &c., as will materially increase earnings. It may seem that everything is going along as well as can be; everything in good order, and no grumbling, and yet an investigation might shew that it cost a very little more fuel than necessary to generate a unit. Suppose even that it was found that half a pound of \$4 coal was so wasted for every horse power per hour. This is a very small quantity, quite unnoticeable unless it be looked for; and yet in a 1,000-light station it will cause an unnecessary yearly expenditure of about \$200. And this half-pound waste can be caused by any of the defects mentioned above. There are very few stations that can afford to lose \$200 every year, especially municipal plants, and the slight trouble of keeping the records is well repaid by increased economy. The trouble is, that the "electrician" in charge does not know anything about the management of the business, and so long as the armature doesn't burn up, or the lines fall down, or the engine stop still, he concludes that everything is quite satisfactory. The Waterworks Superintendent generally has the charge of the electric plant, which is of course a saving, but at the same time an excellent waterworks mechanic is by no means necessarily fitted to run an electric light business. To him, a leak is indicated by a wet place, and his eyes show him everything that is out of order. Now, an electric leak has no outward and visible sign, and the eyesight is a poor guide around electric machinery. Let the W. W. Superintendent do what he can, but keep the records all the same, and have them worked up carefully.

M. S. Gough has been re-elected City Clerk of Nanaimo, B. C.

SEWAGE DISPOSAL IN ONTARIO.*

By R. W. THOMSON, B.A.Sc.

(Continued from last issue.)

This statement has been strongly supported by subsequent evidence in the way of costly litigation between municipalities and others. Only a few months ago we had a case in point in Ontario, where the municipality of Peterborough issued an injunction to prevent the town emptying its sewage unpurified into the Otonabee river. The courts have not yet decided the matter.

At this date there is in Ontario no statute setting any direct restrictions on the method of disposal or on the quantity or quality of sewage discharged at the outlet, whether that outlet be a lake, river, small stream, or mud puddle. The power of regulating these details is vested in a Provincial Board of Health by the following statute (sec. 30, ch. 205, R.S.O., 1887): "Whenever the establishment of a public water supply or system of sewerage shall be contemplated by the council of any city, town or village, it shall be the duty of the said council to place itself in communication with the Provincial Board of Health, and to submit to the said board before their adoption all plans in connection with said system.

"It shall be the duty of the Provincial Board of Health to report whether, in its opinion, the said system is calculated to meet the sanitary requirements of the inhabitants of said municipality, whether any of its provisions are likely to prove prejudicial to the health of any of the said inhabitants, together with any suggestion which it may deem advisable, and to cause copies of said report to be transmitted to the Minister of the department to which the said Provincial Board of Health is attached, and to the clerk of the municipal council, and to the secretary of the local board of health of the district interested.

"No sewer or appliance for the ventilation of the same shall be constructed in violation of any of the principles laid down by the Provincial Board of Health, subject to appeal to the Lieutenant-Governor in Council."

Since, then, all questions of sewage disposal are to be governed by principles laid down by the Provincial Board of Health, it is well to know what these principles are. At a meeting of the Association of Executive Health Officers of Ontario, held in Trenton, August 20th, 1891, the report of a special committee on sewage disposal was adopted, which contains the following extracts relating to sewage disposal: "That in all places having or constructing systems of sewerage it is desirable that the sewage be delivered at its outfall separately from storm water, in order, among other reasons, that the economical and profitable utilization of it may be possible. Therefore, it is recommended that the separate system or the restricted separate system of sewerage be adopted whenever practicable.

(To be Continued.)

*Abstract of paper read before the Engineering Society of the School of Practical Science, Toronto.

**CENTRAL BRIDGE AND
ENGINEERING COMPANY,
(LIMITED)**

Peterborough, Ont.

WM. H. LAW - Manager and Engineer.

MANUFACTURERS OF

**RAILWAY AND HIGHWAY
BRIDGES**

Viaducts, Piers, Roofs, Turntables. Girders
and Architectural Work.

CAPACITY: 5,000 TONS PER ANNUM.

Water Works

Fire Hydrants

Stop Valves

3" to 36"

BOILERS, TOWERS & C, ENGINES AND GENERAL WORK

JNO. PERKINS CO'Y

Toronto Engine Works TORONTO

Artificial

Granite Stone

. . Pavements

. . . FOR . . .

STREETS, SIDEWALKS, BASEMENT
FLOORS, ETC.

The attention of municipalities and others inter-
ested is called to the excellence of this material.

A. GRAHAM

Sole Proprietor and Patentee

226 Piccadilly St., - LONDON, ONT.

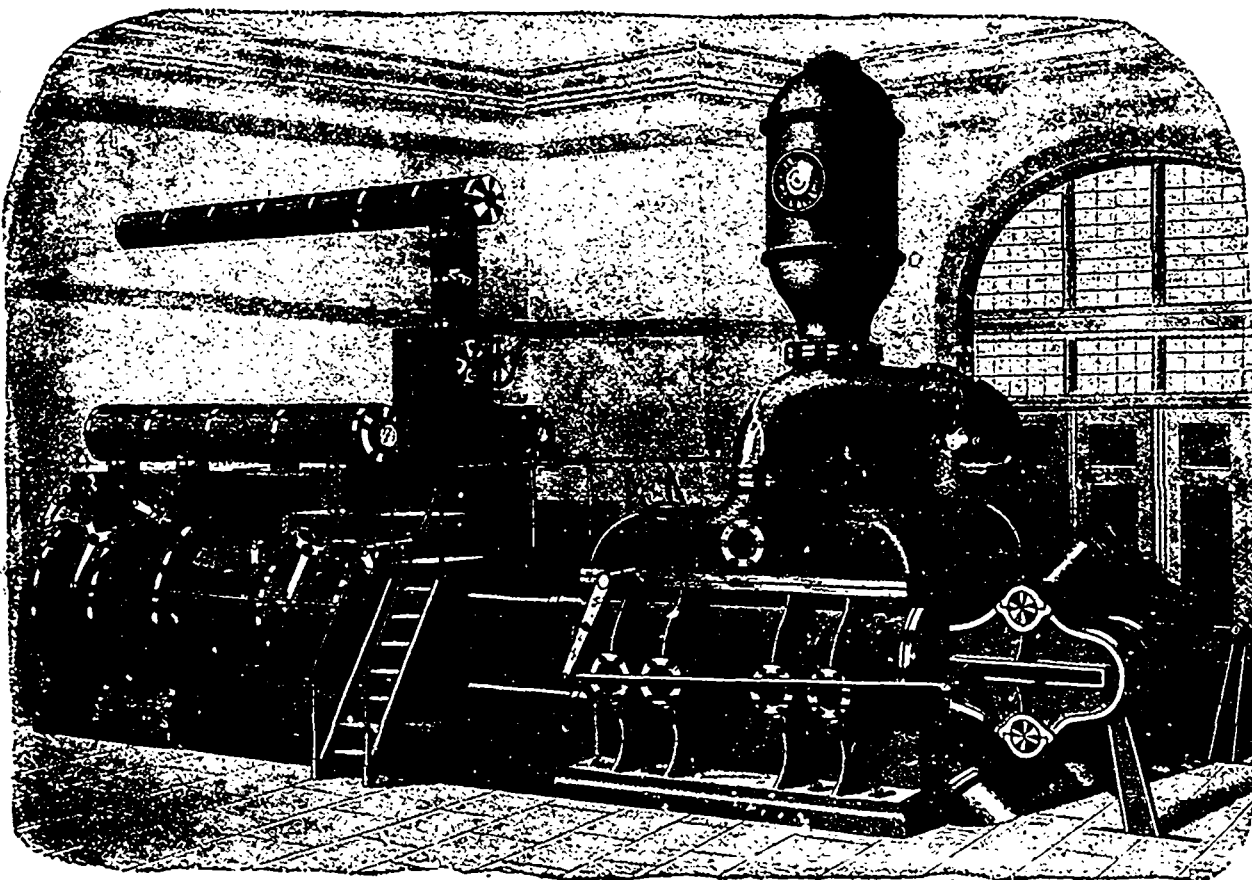
INDEX TO ADVERTISEMENTS

In the "Canadian Architect and Builder."

<p>Architects. Ontario Directory III Quebec Directory ii Architectural Sculptors and Carvers. Holbrook & Mollington i Architectural Iron Work. Dominion Bridge Co. I Lea, Jos. vi Shipway Mfg Co. II Whitfield, John III Art Woodwork. Knechtel, S. III Brioles (Pressed) Beamsville Pressed Brick Co. viii Burlington Pres'd Brick & Terra Cotta Co. vi Dartnell, E. F. i Port Credit Pressed Brick & Terra Cotta Co., Limited ix Builders' Supplies. Bremner, Alex. xi Currie & Co., W & F.P. xiv Clatworthy, Geo. iii Maguire Bros. i Ontario Lime Association xi Rice Lewis & Son IV Springer, O T. iii Building Stone Dealers. Carroll, Vick & Co. vii Clark, Wm. viii Dartnell, E. F. i Fish, C. E. viii Hood & Son, Wm. xiv Builders' Hardware. Rice Lewis & Son IV Croosote Stains Cabot, Samuel. IV Church and School Furniture. Can. Office & School Furniture Co. iv Globe Furniture Co. iv Snider, J. B. iv Contractors' Plant and Machinery Rice Lewis & Son IV</p>	<p>Cements. Bremner, Alex. xi Currie & Co., W & F.P. xiv Dartnell, E. F. i Maguire Br.s. i Owen Sound Portland Cement Co. III Rathbun Co., The. ix Out Stone Contractors. Isaac Bros. III Oakley & Holmes. III Chimney Topping. Bremner, Alex. xi Currie & Co., W & F.P. xiv Drain Pipe Bremner, Alex. xi Currie & Co., W & F.P. xiv Hamilton and Toronto Sewer Pipe Co. xiv Maguire Bros. i Standard Drain Pipe Co. II Dumb Waiters King & Son, Warden xi Electric Wiring Rogers & Doss. IV Elevators Fensom, John IV Leitch & Turnbull. I Miller Bros & Toms. vi Williams, A.R. xiv Engravers. Can. Photo-Eng Bureau iii Fire Brick and Clay Bremner, Alex. xi Currie & Co., W & F.P. xiv Maguire Bros. i Standard Drain Pipe Co. II Floor Deafener Lazier & Sons, S. A. ii Galvanized Iron Workers. Tucker & Dillon viii Douglas Bros. viii Ormsby & Co., A. B. I Grates and Tiles. Holbrook & Mollington i Rice Lewis & Son IV Granite Brunet, Jos. III</p>	<p>Heating. Clare Bros. & Co. ix Clendinning & Son Co., Wm. x Gurney Foundry Co. 11 King & Son, Warden xi McEachren, J. D. x Ormsby & Co., A. B. I Pease Furnace Co. xi Toronto Radiator Mfg Co. xv Williams, A. R. xv Lime. Currie & Co., W & F.P. xiv Ontario Lime Association xi Legal. Bentley & Co., W. B. ii Denton & Dods. ii Mortar Colors and Shingle Stains. Cabot Samuel. IV Maguire Bros. i Muirhead, Andrew. i Ornamental Plasterers. Baker, J. D. vi Hynes, W. J. viii Paints & Varnishes. Muirhead, Andrew. i Paintors. Gilmor & Casey. III Plasterers Hynes, W. J. viii Plumbing Supplies Campbell & Purvis. xiii Dominion Sanitary Pottery Co. xiii McRae & Co. ii Sanitas Mfg Co. xiii Plate Glass Hobbs Mfg. Co. iv McCausland & Son. iv The Consolidated Plate Glass Co. ii Parquetry Floors Elliott & Son. I Elliott, W. H. vi Plumbers Ballantyne, James. ii Reflectors Frink, I. P. III Roofing Materials Metallic Roofing Co. viii Pedlar Roofing Co. viii</p>	<p>Roofers Douglas Bros. viii Duthie & Sons, G. viii Hutton, W. D. viii Rennie & Son, R. viii Stewart, W. T. viii Tucker & Dillon viii Williams & Co., H. viii Sanitary Appliances Campbell & Purvis. xiii Dominion Sanitary Pottery Co. xiii McRae & Co. iii Sanitas Mfg. Co. xiii Toronto Steel Clad Bath & Metal Co. vii Shingle Stains Cabot, Samuel. IV Stained and Decorative Glass Castle & Son. iv Dominion Glass Co. iv Elliott & Son. I Hobbs Mfg. Co. iv Horwood & Sons, H. iv McCausland & Son. iv McKenzi's Stained Glass Works iv Longhurst, H. iv Lyon, N. T. iv Quesnel, Sharpe & Co. iv Shingles and Siding Collins Mfg. Co. xiii Metallic Roofing Co. viii Pedlar Roofing Co. viii Terra Cotta Rathbun Co., The. ix Wall Paper and Ceiling Decorations Elliott & Son. I Elliott, W. H. vi Wire Manufacturers Shipway Mfg Co. II Wall Plaster Albert Mfg. Co. xii Hannford Bros. Mfg. Co. xii Nowell & Co. B. L. IV Rathbun Co., The. ix Vokes Hardware Co. xii Windsor Plaster Co. xii Window Blinds Clatworthy, Geo. iii Seaman, Kent & Co. iv</p>
---	--	--	---

JOHN McDOUGALL

• • Caledonian Iron Works • •



OFFICE:
Corner William and
Seigneurs
Streets,
MONTREAL

**HYDRAULIC
MACHINERY**
CONDENSERS
AND
WATERWORKS
SUPPLIES
WATER METERS

and Meters for all
services

MANUFACTURERS
OF

Machinery for Elec-
trical Work, etc., etc.
Boilers, Engines . . .
Forgings, Girders,
Castings, Shafts, Pul-
leys, Gears, Bearings,
etc.

AGENTS IN CANADA FOR THE

Famous Worthington Pumps

Prices of Building Materials.

CONDITION OF THE MARKET.

TORONTO: During the past week trade has been steadily improving, particularly in the city. A few changes in quotations have taken place, Portland cement having dropped about 10 cents per barrel. The arrivals of imported cement are large. Firebricks are quiet and unchanged. Galvanized iron and iron pipe are moving freely, shipments of the latter having arrived during the week. Stocks of glass are low, and arrivals are expected daily.

MONTREAL: The volume of business for this season of the year is in excess of the same period last year. Builders' hardware maintains a fair degree of activity, there being a good demand for wire and cut nails. A fair trade is doing in plumbers' supplies, with no special feature to note. Business in firebricks is good, and prices steady. A good demand is reported for cement for future delivery. Glass is quoted at \$1.15 to \$1.20 for first break, and \$1.25 to \$1.30 for second.

LUMBER.

CAN OR CARGO LOTS.

Table with columns for Toronto and Montreal prices for various lumber types like clear picks, Am ins., etc.

VALID QUOTATIONS.

Table listing valid quotations for mill cull boards, shipping cull boards, hemlock scantling, etc.

B. M.

Table listing B. M. prices for flooring, dressing, sawn lath, etc.

Toronto, Montreal.

BRICK—Per M

Table listing brick prices for Common Walling, Good Facing, Sewer, Pressed Brick, etc.

SAND.

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

STONE.

Table listing stone prices for Common Rubble, Large flat Rubble, Foundation Blocks, etc.

OHIO FREESTONE, FROM THE GRAFTON STONE CO.'S QUARRIES.

Table listing Ohio freestone prices for No. 1 Buff Promiscuous, No. 1 Blue Promiscuous, etc.

SLATE.

Table listing slate prices for Roofing, Terra Cotta Tile, Ornamental Black Slate Roofing, etc.

PAINTS. (In oil, per lb.)

Table listing paint prices for White lead, Zinc, Red lead, Venetian, etc.

CEMENT, LIME, etc.

Table listing cement and lime prices for Portland, German, London, Newcastle, etc.

Toronto, Montreal.

Table listing cement prices for Belgian, Canadian, Roman, Parian, Superfine, etc.

HARDWARE.

Table listing hardware prices for Cut nails, Steel, Cut nails, Fence and cut spikes, etc.

FINE BLUED NAILS.

Table listing fine blued nails prices for 3d, 2d, etc.

CASING AND BOX, FLOORING, SHOOK AND TOBACCO BOX NAILS.

Table listing casing and box, flooring, shook and tobacco box nails prices for 12d to 30d, etc.

FINISHING NAILS.

Table listing finishing nails prices for 3 inch, 2 1/2 inch, etc.

SL TING NAILS.

Table listing sl ting nails prices for 5d, 4d, 3d, 2d, etc.

COMMON BARREL NAILS.

Table listing common barrel nails prices for 1 inch, 3/4 inch, etc.

CLINCH NAILS.

Table listing clinch nails prices for 3 inch, 2 1/2 inch, etc.

SHARP AND FLAT PRESSED NAILS.

Table listing sharp and flat pressed nails prices for 3 inch, 2 1/2 inch, etc.

STEEL WIRE NAILS.

Steel Wire Nails, 75, 10 and 5 % discount from printed list.

Iron Pipe:

Table listing iron pipe prices for Iron pipe, 1/2 inch, per foot, etc.

Lead Pipe:

Table listing lead pipe prices for Lead pipe, per lb., Waste pipe, etc.

Galvanized Iron:

Table listing galvanized iron prices for Adam's—Mar's Best and Queen's Head, etc.

Structural Iron:

Table listing structural iron prices for Steel Beams, channels, angles, etc.