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CANADIAN CONTRACT RECORD

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

EVERY SATURDAY

Vol. 3.

Toronto and Montreal, Canada, December 24, 1892.

No. 46

THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY SATURDAY

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

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C. H. MORTIMER, Publisher,

CONFEDERATION LIFE BUILDING, TORONTO.
Telephone 2362.

64 Temple Building, Montreal.
Bell Telephone 2299.

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

ADVERTISING RATES ON APPLICATION.

At its Convention held in Toronto, Nov. 20 and 21, 1889, the Ontario Association of Architects signified its approval of the CANADIAN CONTRACT RECORD, and pledged its members to use this journal as their medium of communication with contractors with respect to advertisements for Tenders.

The following resolution was unanimously adopted at the First Annual Meeting of the Province of Quebec Association of Architects, held in Montreal, Oct. 10th and 11th, 1890: "Moved by H. Perrault, seconded by A. F. Dunlop, that we the Architects of the Province of Quebec now assembled in Convention being satisfied that the CANADIAN CONTRACT RECORD affords us a direct communication with the Contractors,—Resolved, that we pledge our support to it by using its columns when calling for Tenders."

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 WANTED.

Sealed tenders addressed to the undersigned will be received until JANUARY THE 5TH, 1893, for the various works required in the erection of SEVEN STORES AND DWELLINGS on St. Catherine Street. The lowest or any tender not necessarily accepted. Contractors will have to give sufficient guarantee for carrying out of the work.

CHRIS. CLIFT, Architect.

180 St. James St., Montreal.
December 20th, 1892.

NOTICE OF DISSOLUTION.

Notice is hereby given that the partnership heretofore subsisting between us, the undersigned, as builders and contractors in the city of Toronto and elsewhere, has been this day dissolved by mutual consent. All debts owing to the said partnership are to be paid to Michael Murphy, the undersigned, at the said city of Toronto aforesaid, and all claims against the said partnership are to be presented to the said Michael Murphy, by whom same will be settled. Dated at Toronto this 17th day of December, A. D. 1892.

THOMAS HERBERT,
MICHAEL MURPHY

Witness: E. T. Malone, Barrister-at-Law

Mr. Charles Berger, one of the contractors for the improvements to the Montreal court house, has presented to the Quebec government a claim for \$167,000 for extras and damages caused by delay on the part of the government.

CONTRACTS OPEN.

LONDONDERRY, N. S.—Mr. L. Peppard will build a sawmill.

LANARK, ONT.—The Methodist congregation has decided to erect a new church.

CHARLOTTETOWN, P. E. I.—Mr. P. Hogan will build a planing mill at this place.

FIVE ISLANDS, N. S.—Messrs. Lewis & Sterritt contemplate the erection of a sawmill.

BEAMSVILLE, ONT.—The Presbyterians contemplate the erection of a new church.

THORNHILL, MAN. Mr. Jas. Stoddart will erect a 25,000 bushel elevator at this place.

REVELSTOKE, B. C.—Messrs. Robinson & Seen will erect a new sawmill at a cost of \$10,000.

THILSONBURG, ONT.—It has been decided to erect a new High School building, at a cost of \$6,000.

WALKERTON, ONT.—The County Council has granted the sum of \$500 for a new iron bridge in Bradbury.

NANAIMO, B. C.—Proposals are asked for a suitable site on which to erect a Masonic Hall. C. C. McKenzie, secretary.

BRANTFORD, ONT.—United States capitalists will probably establish a factory here for the manufacture of pearl buttons.

TEMPLETON, ONT.—The sum of \$4000 has been placed in the Government estimates for a bridge across the Boom Creek.

HESPELER, ONT.—Debentures have recently been sold to the amount of \$4,500, the money to be used for the purchase of a fire engine.

LACHUTE, QUE.—Mr. J. C. Wilson, of this place, has purchased property at Point Fortune on which he intends shortly to erect a paper mill.

QUEBEC, QUE.—The Montmorenci Falls have been purchased by the Quebec and Lewis Electric Light Company, who will utilize the water power for the manufacture of electricity.

WINDSOR, ONT.—The Windsor and Walkerville street railway has been purchased by Charles W. Harrah, of Detroit. In the spring the motive power will be changed to electricity.

FORT WILLIAM, ONT.—Mr. W. J. Ross, of Winnipeg, has in view the erection of a large addition to the Commercial block in this town. The new building will be built of brick and will front on Simpson street.

PARRY SOUND, ONT.—Engineers have completed the final survey and location of the western end of the Parry Sound Colonization Railway, and the directors will shortly award the contract for the completion of the line.

SMITHS FALLS, ONT.—Much dissatisfaction seems to prevail regarding the site chosen for the new post office. A delegation recently waited on the Minister of Public Works with a view to selection of a more favorable site.

PENETANGUISHENE, ONT.—Mr. C. Beck, President of the Beck Manufacturing Company, is the promoter of a proposed electric railway to connect Penetanguishene and Midland. The cost of the scheme is estimated at \$40,000.

WINNIPEG, ONT.—Mr. R. D. Richardson has purchased the property on the corner of Notre Dame and Arthur streets, and will erect a large

wholesale stationery house thereon in the spring. —On the recommendation of the City Engineer the Council has decided to proceed at once with the laying of pipe sewers on Clarke street, Bell street and 13th avenue.

KINGSTON, ONT.—It is reported that Prospect Park has been purchased by an American syndicate, who intend to erect a large hotel there next season. —Rev. Dr. Smith, of Queens University, is meeting with success in canvassing for subscriptions for the new science building to be erected in connection with the university.

ST. JOHNS, QUE.—Mr. Chapman, of Montreal, representing some wealthy English capitalists, recently visited this town, with a view of establishing gasworks. The council will be asked to grant a site on which to erect suitable buildings, and should the request be granted, the company will put in a plant costing about \$5,000.

OTTAWA, ONT.—The Department of Public Works will shortly call for tenders for the work of improving the harbors of Goderich and Port Albert. —The Department of Public Works has extended the time for receiving tenders for hot water heating apparatus for post-offices at Port Arthur and Petrolia to the 30th inst.

DUBLIN, ONT.—Mr. E. M. Groot, of Syracuse, N. Y., will erect a frame summer residence at this place. It will be two stories high, with kitchen annex, hot air heating, hardwood finish, mantels, grates, etc., probable cost \$5,000. The work will be in charge of Mr. D. G. Baxter, architect, of Stratford, and contracts will be awarded about the 10th of January.

BELLEVILLE, ONT.—Messrs. W. H. Biggar, M. P. P., H. Corby, M. P., John Bell, Q. C., M. E. Thompson, D. M. Waters and Thomas Ritchie, leading capitalists of this town have subscribed \$30,000 towards the erection of a first-class hotel to be equipped with all modern improvements. Plans are now being prepared by Messrs. Gillen & Gillen architects of Kingston, and tenders will be called for in a few days.

NIAGARA FALLS, ONT.—The Board of Education of this town has decided to proceed with the erection of a high school and a committee has been appointed to secure a site for the proposed building. —At a meeting of the Niagara Railway Suspension Bridge Company held this week, the directors took into consideration the general repair painting and strengthening of the bridge, the work to be done before next spring.

HAMILTON, ONT.—A building permit has been granted to Thomas Webb for a two-story brick dwelling on Murray street, west of Wellington street, to cost \$1,200. —It is said that as a result of the survey of the proposed mountain drive just completed, the city engineer will estimate the cost of construction at \$200,000. One cut at the head of James street will cost \$50,000. —In response to the request of the directors of the Central Fair Agricultural and Industrial Company for a grant towards the erection of new buildings, the cost of which is estimated at \$50,000, the Finance Committee of the City Council has decided to hold a special meeting on Tuesday next to consider the question.

MONTREAL, QUE.—At a recent meeting of the City Council, it was decided to grant the sum of \$60,000 to the Fire Committee for a new station

in the West Ward. The road committee asked for \$13,000 to rebuild the old bridges over the tail race, near Ogilvie's and Shearer's mills, in iron and stone. The report was referred to the city attorney for an opinion as to whether the government should not build them. Sites have been selected for the new fire stations to be erected in St. Lawrence and Hochelaga wards. —At a special meeting of the St. Jean Baptiste society, the directors were authorized to borrow \$100,000 on debentures, for the completion of the "Monument National." —The following is a list of streets throughout the city to be paved during the coming year: Sherbrooke, from Amherst to Union avenue, asphalt; portions of Ontario from Bleury to St. Lawrence and Frontenac to Papineau, asphalt; St. Catherine west from end of existing paving to city limits, asphalt; Dorchester, ditto asphalt; Common and Colborne streets to Wellington street, block stone; St. Etienne street, block stone; the remainder of Centre street asphalt; McCord, throughout asphalt; Jacques-Cartier square, block stone; Delormier, Craig to St. Catherine, asphalt; Papineau, from St. Catherine to Sherbrooke, asphalt, with block stone on hill; Bleury and Park avenue, from Craig to Pine, asphalt, with block stone on hills. —The inhabitants of the village of Bordeaux, are about to organize a dramatic club and erect a hall capable of seating 800 people.

TORONTO, ONT.—Messrs. Denison & King, architects, have prepared plans for a factory to be erected in the rear of 112 and 114 Adelaide street west, for T. G. Elgie. —Mr. W. E. Allen, of 8 Queen street west, intends to erect stables adjoining his new hotel at the corner of Yonge street and Shaftesbury avenue, to cost \$2,000. It is said that the erection of the proposed Union Station will be commenced about the 1st of March. —On the 30th inst. the ratepayers will vote on a by-law to provide the following sums for the erection of school buildings: \$10,000 for four additional rooms to Bolton avenue school, \$35,000 for a 12-roomed school in the neighborhood of Bathurst street school and a site therefor, \$10,000 for a 4-roomed school on Fern avenue site. The contract has been signed between the village council of East Toronto and the Toronto & Scarborough Electric Railway and Lighting Company for the construction of a street railway and a system of electric lighting. —The estimates of the Fire and Light Committee for 1893 contain items of \$4,000 for the purchase of a fire engine and \$1,100 for 1,000 feet of hose. —A syndicate has made a proposition to the City Council for the reclamation of the water front along the Lake Shore Road. They propose to extend the land out into the bay 600 feet and build a 66-foot esplanade. The sum of \$50,000 is to be expended the first year. —The City Commissioner has reported that the proposed alterations to the Registry Office not satisfactory, and has recommended that the two departments, east and west, be made entirely separate. The cost of making the alterations now proposed is estimated at \$20,000. The Property Committee decided to recommend the additional expenditure. —The Technical School Board are considering the erection of a new building suitable for its purpose. At a recent meeting of the Board it was decided to obtain the cost of erecting such a

building according to plans which had already been prepared.—The Local Board of Health has decided to recommend to Council the erection of a crematory in the west end, at a cost of \$15,000.—Building permits have been granted as follows: Wm. Murray, 34 Wright ave., four det. 4 story and attic bk. dwellings, 163-69 Close ave., cost \$12,800; C. H. Hubbard, 2 story and attic bk. dwelling, 69 Grosvenor st., cost \$6,500; S. Sanderson & Co., s. w. cor. Bloor and Dundas sts., 2 story and attic and basement bk. hotel, cost \$6,000; J. J. Graham, 306 Dovercourt road, pair s. d. 2 story and attic bk. dwellings, e. side Huron st., 175 feet south of Dupont st., cost \$16,000.

FIRES.

The new steam grist mill at Harrietsville, Ont., which was erected three months ago, was destroyed by fire on Saturday morning last. The mill was owned by Messrs. Hatton & Jenkins. The loss will be between \$8,000 and \$9,000; insurance \$3,000.—The Toronto Canoe Company's boathouse on Esplanade street, Toronto, part of which was occupied as a box factory by R. G. Elgie, was almost completely destroyed by fire on Monday evening last. The building was owned by Messrs. T. G. and R. G. Elgie, who estimate their loss at \$18,000; insurance \$14,000. The loss on machinery and plant of the box factory is \$8,000.—The factory of the Ontario Box Company on Main street east, Hamilton, was entirely destroyed by fire on Tuesday last. The loss will be between \$10,000 and \$15,000, which is covered by insurance.—The public school building at Oak Hills, Ont., was destroyed by fire on Thursday last. The loss is \$1,400, partly covered by insurance. A house belonging to Mr. Leon Chatner, at Aylmer, Que., was totally destroyed by fire on the 21st inst. The building was valued at \$1,400.—The woollen mills at Thurso, Que., owned by Messrs. J. and G. Black, were burned to the ground on the 21st inst. Loss \$10,000, partly covered by insurance.

CONTRACTS AWARDED.

LONDON, ONT.—The contract for painting the new addition to the Collegiate Institute has been awarded to Mr. A. H. Cook, at the price of \$375.
TORONTO, ONT.—In the issue of the RECORD for December 3rd, the tender of the Standard Drain Pipe Company for 12 inch and 15 inch sewer pipe was given as 22 cents. The price for 15 inch pipe should have been quoted at 32 cents
OTTAWA, ONT.—The Department of Public Works has awarded the following contracts: For

steam superheating apparatus at Lawlor's Island, Halifax harbor, Messrs. Carrer, Laine & Co., of Quebec, are successful tenderers. The disinfecter will be a fac simile of the one just erected at Grosse Isle; Messrs. McGuire & Bird, of Toronto, have been awarded the contract for supplying the steam heating apparatus for the public building at Orillia.—The Department of Railways and Canals has awarded the contract for the super structure of the new bridge over the Lachine canal at Wellington street, Montreal, to the Dominion Bridge Company. The contract price is in the vicinity of \$35,000.

PEMBROKE, ONT.—The following are the tenders received by the Town Council for the construction of a system of waterworks, intake pipe and pumping well—A. McNaughton, Ottawa, \$26,917; G. A. Dana, Brantford, \$6,977; engine house, boiler house, chimney, foundations, etc.—R. Lester, Ottawa, \$7,500; pumping machinery, boilers, etc.—W. Hamilton, Peterboro', \$4,200 and \$540 extra for large boiler; Waterous Co., Brantford, \$3,950 with \$440 extra for large boiler; John Inglis, Toronto, \$4,250 with \$460 for large boiler; furnishing and laying of distribution pipe—A. McNaughton, Ottawa, \$10,217; W. Murray & Co., Pembroke, \$24,900; G. A. Dana, Brantford, \$25,977; Perry & Co., Ottawa, \$28,840; water tower, valves and connections—John Inglis, Toronto, \$7,400; W. Hamilton & Co., Peterboro', \$7,500. The following are the tenders for the entire work: W. Murray & Co. \$44,920; J. H. Armstrong, Toronto, \$44,937; Garson, Purcer & Co., St. Catharines 47,850; J. G. Dana, Brantford, \$51,777; F. E. Fortun, Pembroke, \$54,750; J. Bourke, Hull, \$57,250; John Inglis, Toronto, \$62,770; J. G. Brigham, Ottawa, \$66,727.

PERSONAL.

Mr. H. B. Salvin, a successful contractor on the Panama canal, is a brother of Dr. Salvin, of Orillia.

Mr. H. N. Smith late Treasurer of the Hynes Terra Cotta Co., Toronto, has been appointed agent for the American Soapstone Finish Co., of Chester Depot, Vermont.

BUSINESS DIFFICULTIES.

Messrs. Frost & Wood, of Montreal, who have been extensively engaged in building operations in that city, have called

their creditors together. A committee has been appointed by the creditors to look into the condition of the estate. It is said that if an extension is granted a surplus of \$100,000 could be realized.

STRENGTH OF TIMBER.

A correspondent of the *Manufacturer and Builder*, asks: 1. Can you give me the comparative figures of the strength of timber of various kinds of wood used in building? How will these compare with cast iron? 2 Does the strength of wood follow in the order of hardness—that is, are the strongest woods the hardest?

Answer. 1. The following figures give the transverse strength of several of the commonly used kinds of timber and of cast iron. The test piece in each case is supposed to be a bar one inch in cross-section and one foot long between supports:

Materials.	Breaking weight in pounds.	Weight carried with safety.
Hickory (seasoned)	270	90
White oak	240	80
Ash (seasoned)	175	55
Chestnut (seasoned)	172	54
Yellow pine (seasoned)	150	50
White pine (seasoned)	135	45
Cast iron	5,781	1,927

2. Generally speaking, yes, as the following enumeration will exhibit. If hickory be taken as 100, then we will have pignut making 96; white oak, 84; white ash, 87; dogwood, 75; scrub oak, 73; white hazel, 72; apple, 70; red oak, 69; white beech, 65; black walnut, 65; black birch, 62; yellow and black oak, 60; hard maple, 56; white elm, 58; red cedar, 56; cherry, 55; yellow pine, 54; chestnut, 52; yellow poplar, 51; butternut and white beech, 43; and white pine, 35.

In view of the constant liability of any locality to the occurrence of wind storms of destructive violence and unknown force, very tall buildings should be assumed to be subject to a wind pressure of 40 pounds per square foot of exterior wall surface and be braced to resist this with iron or steel rods or stiff braces strained not over one-third their ultimate strength.

MUNICIPAL DEPARTMENT.

HOT WATER FOR A SOU.

The little metal columns bearing the inscription "Eau Chaude" will soon become a distinctive feature in the streets of Paris. Eighty are in course of construction, although one is actually working. Judging from the numbers who avail themselves of it, the useful little edifices will be a popular innovation. A sou placed in the slot yields a supply of eight litres, an ordinary pailful of hot water, and the accommodation is not dear at a half-penny. The exterior envelope of the structure consists of two skins of sheet iron, the space between them being filled with powdered charcoal to hinder the dissipation of heat. The apparatus contains, however, neither fire nor water, at least in a state of permanence. Both come through tubes communicating directly with the water and gas mains, so there is no danger of the fountain drying up. The water is heated almost instantaneously by means of an ingenious contrivance. Over a star-shaped gas burner is coiled a quantity of fine copper tubing, no less than 107 metres in length. The fall of the coin and the pressure of a button act upon a lever which opens the valves connected with the mains. The gas escapes from the burner, and is lit by contact with a perpetual lamp, the water rushes through the multiple circulations of the serpentine tubing, and, owing to excessive conductivity of the copper, it is sufficiently heated by the time it has traversed them. The passage of eight litres takes about a minute, at the end of which the valves close automatically, the gas ceases to burn, the water to flow, and the apparatus reposes until the introduction of another five centime piece awakens it to renewed activity. An uninterrupted succession of clients would naturally cause the water to acquire a higher temperature, through the accumulated heat of the tubing; but the minimum is sufficient for all ordinary domestic purposes. Hot water fountains will be established at all the cab stands, and it is to be hoped that the opportunity thus afforded to the cabmen will tend to render the announcement *voiture chauffee* less delusive than it has often proved to be hitherto.

The Stratford Water Supply Company offer to sell out to the city for \$100,000.

A successful test was made on the 10th inst., of a new Northey pumping engine for the water works at Fredericton, N. B.

The ratepayers of Peterboro', Ont., will vote on a by-law on the 2nd of January to purchase the waterworks. Mr. Alan Macdougall, C. E., of Toronto, has prepared an estimate of the probable cost.

The Ontario government is creating a new branch in connection with the department of agriculture for the purpose of collecting additional municipal statistics. Mr. G. P. Graham of Morrisburg, has accepted charge of this branch.

To purify the town water supply of Hamburg, the local authorities propose to erect machinery for the heating of the water in pipes to the boiling point before allowing the water to pass along the distributing mains for consumption by the people. Both typhoid and cholera bacilli are killed before even this temperature is attained, and by the adoption of this method it is expected that the risks of either disease would be reduced to a minimum.

R. McDOWALL.
A. M. C. E.
ONTARIO LAND SURVEYOR
GRADUATE IN
CIVIL ENGINEERING.
Ontario School of Practical Science
Engineer for the Town of
Owen Sound

Owen Sound, November 28th 1892

C. H. Mortimer Esq.

The Canadian Contract Record

Dear Sir

In reply to your letter of the 25th inst. I have much pleasure in stating that the Board of Works of this town recently advertised in the Canadian Contract Record and also in two Toronto dailies for tenders for a pipe sewer. The only outside tender received (among which was the successful one) came from the advertisement in the Record and I am certain that by reason of inviting tenders from outside contractors, the town effected a large saving in the cost of the work.

Yours truly
R. McDowall
Town Engineer

MUNICIPAL ENGINEERS, CONTRACTORS, AND MATERIALS.

An expensive blunder in the arrangement of pumping plants which appears to be not uncommon, was discussed at the recent meeting of the American Society of Mechanical Engineers. It seems to be a common idea that a pump must not have its suction side under any considerable pressure. In a case cited the water supply for the pumping station of a town water-works was piped to the pumping station under a head of about 60 ft. Instead of utilizing this head to assist the pumps, the pipe was allowed to empty into a receiving well at the pump station and the pump suction was taken from the well. The engineer who had the temerity to suggest that the supply main might be connected directly to the suction with a large decrease in the load on the pump had a hard fight to get his plan carried into effect. Other cases were reported where large sums were expended to make pumps and reservoirs for pumps to draw from and avoid placing any pressure on the suction side of the pump plunger. The only reason cited for this wasteful method of working is that the suction valves would not seat, were the suction under a head; but this is apparently pure theory. The real reason, probably, why a prejudice exists against pressure on the suction side of the pump is the water hammer which is apt to accompany it. This is easily obviated by placing an air chamber on the suction side, and indeed, this is a benefit to any pump where the suction main is of any considerable length. The necessity of an air chamber on the force main seems to be easily comprehended; but the advantages of a similar cushion on the suction main escape the attention of all but a very few. A large proportion of the troubles with water hammer, in pumps could be obviated by a proper arrangement of air chambers. That placing an air cushion on the suction is far preferable in point of economy to the frequently practiced plan of snifling in air or ever forcing it in by an air compressor will hardly be denied. *Engineering News.*

DEBENTURES WANTED.

Municipalities issuing debentures, no matter for what purpose, will find a ready purchaser by applying to **G. A. STIMSON, 9 Toronto Street, Toronto.** N.B.—Money to loan at lowest rates on first mortgage.

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WELLAND CANAL ENLARGEMENT,
RESIDENT ENGINEER'S OFFICE,
WELLAND, April 17th, 1884.

JOHN BATTLE, Esq., Thorold

Dear Sir,—Yours of yesterday, relative to Thorold Hydraulic Cement, is received. In reply, I beg to say that my tests of the Thorold Hydraulic Cement have extended over a period of twenty-eight years, and have been on a large scale, as exemplified in the locks, bridges, culverts and other masonry on the Welland Canal and Welland Railway, and that the record, which has been invariably satisfactory, is to be found in examination of the structures. The necessary tearing down of masonry and concrete, during the Welland Canal Enlargement, has afforded abundant evidence of the reliability of the Thorold Hydraulic Cement, both in masonry and concrete, and above and under water. I desire no better cement for the class of work referred to

I am, dear sir, yours truly,

W. G. THOMPSON,
Resident Engineer.

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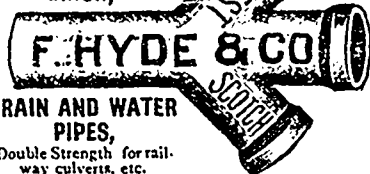
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should see to it that in the erection of town and city PUBLIC BUILDINGS, the installation of water works plant, etc., the advantages of

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are made use of for deadening sound in floors and partitions, insulation of heat and cold, fireproofing, etc., also SECTIONAL MINERAL WOOL COVERING for steam pipes, boilers, exposed water pipes, etc.

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HAMILTON AND TORONTO SEWER PIPE CO.

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SEWERS,
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WATER PIPES.

INVERTS
Fire Brick Sewers

Write for Discounts.



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Drummond McCall Pipe Foundry Company,

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MANUFACTURERS OF

CAST IRON WATER AND GAS PIPES

WORKS: LACHINE, QUE.

PRICES ON APPLICATION.

THE STANDARD DRAIN PIPE CO.

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AND ALL KINDS OF FIRE CLAY GOODS.

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Double Strength
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Architectural Ironwork a Specialty.

Pleased to furnish estimates.

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STABLE, COACH HOUSE, BOILER HOUSE, BREWERY FLOORS AND YARDS,
Also all places of heavy and light traffic.

The only Genuine Vitrified Brick. The best in the world for Sidewalks & Street Crossings

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RAILWAY AND HIGHWAY BRIDGES Viaducts, Piers, Roofs, Turntables and Girders in Steel and Iron. Tention members forged with welds. Riveting done by hydraulic or compressed air machines.

St. George's Patent Sectional VITRIFIED CLAY SEWER

CAST IRON STREET GULLEY.

Over 5000 Gulleys are now in use in the following towns: Montreal, Toronto, Ottawa, Quebec, St. Cune-gonde, St. Henri, Peterboro, Owen Sound, Samia, Cote St. Antoine, Sherbrooke, London, New Glasgow, N. S. A saving of \$22 on each gulley over the brick gulleys.



LEWIS SKAIFE, Engineer and Contractor, New York Life Building, - MONTREAL. AGENT.

Prices of Building Materials.

Table of lumber prices for various types of wood (spruce, fir, hemlock) and mill products (boards, shingles, etc.) with prices in Toronto and Montreal.

Table of building materials for Toronto and Montreal, including sections for Brick, Sand, and Slate, listing items like Common Rubble, Bricks, and Slate with their respective prices.

Table of building materials for Toronto and Montreal, including sections for Cement, Lime, Plaster, Hair, Cut Nails, Steel, and Structural Iron, listing various products and their prices.

Table of building materials for Toronto and Montreal, including sections for GALVANIZED IRON WORKS, ROOFING MATERIALS, and other iron products, listing items like sheet piling and roofing materials.

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

Index of advertisements listing names of various firms and their addresses across different categories: Architects, Cement, Galvanized Iron, Plumbing Supplies, Iron Pipes, Laundry Tubs, Lime and Stone, Contractors, Builders, etc.