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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 THROUGHOUT CANADA.

Vol. 5.

JANUARY 3, 1895

No. 48

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.

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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. 30 and 31, 1890, 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 M. 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.

Notice to Contractors

CANADIAN CONTRACTOR'S HAND-BOOK

A new and thoroughly revised edition of the Canadian Contractor's Hand-Book, consisting of 150 pages of the most carefully selected material, is now ready, and will be sent post-paid to any address in Canada on receipt of price. This book should be in the hands of every architect, builder and contractor who desires to have readily accessible and properly authenticated information on a wide variety of subjects adapted to his daily requirements.

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Confederation Life Building, TORONTO.

A. T. A. Chagnon and L. T. Frigon, of Montreal, have formed partnership as contractors under the style of Chagnon & Frigon.

NOTICE

Time for receiving tenders for the various trades required in the restoration and addition to St. Andrews church, Belleville, has been extended up till noon, JANUARY, 12TH, 1895. Lowest or any tender not necessarily accepted.

DARLING, SPROATT & PEARSON,
Architects, Mail Building, Toronto.

TO CONTRACTORS

Tenders will be received by the undersigned up to 12 o'clock noon on SATURDAY, THE 12TH JANUARY, 1895, for the performance of CARPENTERING, PLASTERING, PLUMBING, PAINTING and other work necessary in the re-erection of Hotel at Toronto Island (formerly known as Hotel Hanlan).

For plans, specifications, details and for all information apply to A. R. DENISON, architect, 20 King St. West.
The lowest or any tender not necessarily accepted.

R. A. SMITH,
Secretary, Toronto Ferry Co., (Ltd),
18 King St. West.



TENDERS FOR BORING TEST HOLES.

Notice is hereby given that sealed tenders addressed to the City Engineer and endorsed "Tenders for Borings" will be received by Registered Post only, up to the hour of 11 o'clock a. m. on

Saturday, the 6th of January, 1895,

for the work of boring test holes for the proposed new tunnel under Toronto Bay.

Plans and specifications may be seen at the City Engineer's Office. A deposit, cash or marked cheque, of \$100.00 must accompany each tender. The lowest or any tender not necessarily accepted.

DANIEL LAMB,
Chairman Committee on Works.
City Hall, 24th December, 1894.

EXTENSION OF TIME.

The time for receiving tenders for the above work has been extended until the hour of eleven o'clock a. m. on SATURDAY, 12TH JANUARY, 1895.

DANIEL LAMB,
Chairman Committee on Works.

LONG DISTANCE HOUSE MOVING.

A curious case of house moving was recently witnessed in Oregon: A man who owned a residence at Seattle, which cost him \$5000 to erect, removed to Olympia and did not have sufficient funds to build another house. He bought a lot and concluded to remove the building he owned at Seattle. Everyone laughed at him, but he persisted. Rolling the house down to the river, he loaded it upon a scow, and it was soon at Olympia, a distance of about 60 miles. Then he had it rolled upon his lot and strange to say, not a timber was strained nor even a piece of furniture broken, although he had not removed the contents before starting the house upon its unusual journey. — Scientific American.

CONTRACTS OPEN.

KINGSTON, ONT.—Dupont & Wilson propose enlarging their works in the spring.

GORE BAY, ONT.—The ratepayers will shortly vote on the question of constructing a system of waterworks.

ST. JOHN, N. B.—Troop & Co., managers of the Bay of Fundy Steamship Company, will receive tenders until the 15th inst. for the supply of 3,000 tons of steam coal.

COLLINGWOOD, ONT.—The voting on the by-law to expend the sum of \$10,000 for extending the electric light and waterworks systems takes place on Monday, the 7th inst.

GOWER POINT, ONT.—Demassa Gervais, of this place, will receive tenders until the 1st of February, for the erection of a brick school house in the village of Lapasse. Plans may be seen at the office of M. Gorman, architect, of Pembroke.

LONDON, ONT.—Friends of the Y. M. C. A. are urging upon the public the need for the early erection of the proposed new building. So far the directors have secured a desirable site, which is paid for, and have raised a building fund of \$5,575.

BRANTFORD, ONT.—The President of the Waterous Engine Works Company states that should the by-law to purchase their present site be carried by the ratepayers, a new site will be selected at once, and building operations in connection with their new works be proceeded with early in the spring.

MONTREAL, QUE.—Four United States capitalists, one of whom is Mr. Charles Vandal, of New York, are said to contemplate the erection of a new theatre in this city, at a cost of \$200,000. The deal is said to have been closed, the lessee being Mrs. Henry Thomas. Work is expected to be commenced early in the spring.

GUELPH, ONT.—Wm. Hearn has decided to build four stores on Quebec street, between the stores now occupied by Messrs. W. Watson and T. Fenwick. The work will be commenced the 1st of March. Tenders for the excavating and brick and stone work, will be asked at once.

HALIFAX, N. S. The Coast Railway Company, of Nova Scotia, has given notice that application will be made at the next session of the Provincial Parliament for an act empowering the building of a narrow gauge line from Lockport, in the County of Shelburne, to this city, and a branch line to Greenfield and Kempt.

LISTOWEL, ONT. Messrs. Binning & Baxter, architects, have prepared plans for a pressed brick residence for Mr. F. W. Hay, of this town, to have stone trimmings, slate roof, first-class plumbing, mantels, grates, etc. A combination of hot air and water will probably be used for heating. Total cost, about \$2,700. They have also prepared plans for a two-story farm house for James Cumberland, of Wallace, to be built of red brick, and

for a two roomed brick school house, with basement for furnace and fuel room, to be erected at Cranbrook, Grey Tp. Contracts will be awarded shortly.

TORONTO, ONT.—A building permit has been granted the Sheppard Publishing Co., for a six story building, 24 Adelaide st. w., cost \$15,000. E. B. Jarvis, architect.

CALGARY, N. W. T.—The plans of the works proposed to be constructed to irrigate 21,200 acres of land lying along the north bank of the Elbow river, have been deposited with the Department of Interior at Ottawa, for approval. The works will consist of a main canal 30 miles in length, 15 feet wide at bottom and 23 feet at water line, with the necessary head gates, flumes and distributing ditches. The solicitors of the company are Loughheed & Carter.

WINDSOR MILLS, QUE. Tenders are being sought by the Canada Paper Co. for the construction of a new dam at their works here, to give a motive force of between 3,000 and 4,000 horse power. This power is to be used to establish an electric plant, from which electricity will be supplied to the town of Windsor Mills, and to the works of the company. The outlay involved by the improvements contemplated by the company will be in the vicinity of \$200,000.

OTTAWA, ONT. The Capital Lacrosse Club will probably form an athletic association and erect a club house, to cost from \$10,000 to \$20,000. The Canada and Michigan Tunnel Company will apply to the Dominion Parliament at its next session for power to construct a railway bridge under the Detroit river. It is the intention to construct a draw bridge, the intervals between the piers on which the draws will rest to be not less than 1000 feet. The height of the arches and bridge above the river will be not less than 45 feet.

HAMILTON, ONT.—Tenders are invited by the Department of Public Works, Ottawa, until Thursday the 10th inst., for the construction of the pivot pier and abutments of a swing bridge over the Burlington canal near this city. The bridge is to be 262 feet in length, with 161 feet over the canal end and 101 feet over the land end. Plans may be seen at the Custom House, this city, 36 Toronto st., Toronto, and at the Department of Public Works, Ottawa. The Canadian Underwriters' Association has recommended that the necessary improvements be made to the waterworks system to afford additional pressure.

WINNIPEG, MAN. A meeting of prominent members of the Masonic fraternity was held last week to further consider the erection of a Masonic temple. Several offers of sites were received. The promoters are hopeful of financing the scheme, and another meeting will be held the early part of this month. Mr. M. Sweetnam, inspector of Dominion post-offices, will recommend improvements to the post-office in this city.—The Ogilvie Milling

Company are receiving tenders for the erection of six new grain elevators in different parts of the province and for the enlarging of their flour mill in this city. The tenders will be opened on the 15th inst.—The Northern Elevator Company are also said to contemplate erecting ten or twelve new elevators throughout the province and a large one in this city with a capacity of 200,000 bushels.

FIRES.

The Carding Mill at Grondines, Que., owned by Irene Trotter, was destroyed by fire last week. There was little insurance on the mill. The residence of Wilson Montrose, at Kingsville, Ont., was burned on the 27th ultimo; partially insured.—A large flour mill at Thedford, Ont., owned by James Calvert, was consumed by fire a few days ago. Loss, \$7,000; insurance \$6,000.—The Presbyterian church at Woodville, Ont., was damaged by fire recently to the extent of \$1,500. The loss is covered by insurance.—A. E. Alexander's shingle mill near Campbellton, N. B., was burned last week. Loss, \$2,000; no insurance. The mill will be rebuilt.—The residence of Andrew Hayes, on Colborne street, London, was destroyed by fire on the 28th of December. Total loss, \$2,000; partially insured.—Fire at Maple Creek, Man., on the 30th ultimo, destroyed the residence of John Dixon.—The Methodist church at Canning, N. S., was damaged by fire last week to the extent of \$2,000; covered by insurance.

CONTRACTS AWARDED.

CHATHAM, ONT.—The Bell Telephone Company have been awarded the contract for an electric fire alarm system for the town, to cost \$1,210.

TORONTO, ONT.—Messrs. Darling, Sproatt & Pearson, architects, have awarded the contract to the Dominion Ornamental Iron Co., of Montreal, for elevator car and enclosure for the Imperial Bank building in this city.

LISTOWELL, ONT.—Messrs. Binning & Baxter, architects, of this town, have awarded the contract for the erection of a Presbyterian church at Whitechurch, to J. H. Gay, of Dungannon, Ont. The building is to be of white brick, with composition stone trimmings, leaded cathedral glass windows, hot air heating, modern style of seating, etc. Frink reflectors to be used for lighting.

ANTIQUITY OF THE CARPENTER'S PLANE.

A very interesting discovery has been made at the Roman city of Silchester. The excavators came across a dry well which, on being explored, proved quite a little museum of antiquity. Some fifteen feet down, a Times correspondent says, the diggers found an urn-shaped pottery vase about a foot in length, quite intact, and curiously enough protected by lumps of chalk built around it. The vase, which probably originally contained some precious substance, was, however, quite empty. Above it were deposited a great number of iron implements, most of which were in a wonderful state of preservation. They seem to have been the tools of a carpenter and coppersmith, or silversmith, with some miscellaneous objects of blacksmith's work thrown in. The principal specimen is a carpenter's plane of quite modern type, although unquestionably more than five hundred years old; three or four axes, retaining their fine cutting edges, and still quite serviceable; a number of chisels and gouges, of all shapes and sizes; hammers, adzes, saws, files, etc. In the smith's department may be specified a brazier for burning charcoal, quite complete; two or three anvils of different sizes and shapes; a fine pair of tongs, adapted for lifting crucibles; a curious tripod candelabrum lamp, or candlestick; and several other curious objects, the precise use of which has not yet been determined. In addition there are several large bars of iron, a couple of plover's

and a broken sword. Probably more will be found deeper down in the well. This is undoubtedly the most important find at Silchester since the discovery of the bronze Roman eagle, now at Strathfield-saye, some time ago.

THE WORTHINGTON PUMP.

The firm of John McDougall, proprietor of the Caledonian Iron Works, Montreal, announce in this issue of the CONTRACT RECORD that they have been appointed by Messrs. Henry C. Worthington & Co., of New York, agents and manufacturers in Canada of the celebrated Worthington pumping and hydraulic machinery. This machinery ranks among the highest in point of economy and efficiency. The Canadian agency has been placed in most capable hands; there is thus a guarantee that the machinery manufactured in Canada will be fully up to the standard reached by the original manufacturers.

"APPRECIATION OF THE RECORD."

Mr. J. W. Holmes, Town Clerk of Dunville, Ont., writes: "I am very much pleased with the CANADIAN CONTRACT RECORD, and greatly appreciate the articles in the 'Municipal Department.'"

RUBBER-HEADED NAILS.—Rubber stud blocks are being experimented with on the steps of cars used by the Glasgow and Southwestern railroad, with a view of testing their suitability as a preventive to slipping on entering and leaving the car. These blocks consist of inch square iron plates with rubber on one side and nail points on the other. They are readily driven into the wood.

MUNICIPAL DEPARTMENT.

UNIFORMITY IN PAVING BRICK SPECIFICATIONS.

Writing on this subject in the Clayworker, Mr. Daniel W. Mead says: There is really comparatively little known about the essential qualities of paving brick which can be set down in specifications in such a manner that an engineer or inspector, unfamiliar with the material, can readily decide where the limit, between a paving brick which is just good enough for use, and one which is a little too poor for use, should be drawn. Unquestionably both classes of brick are usually taken to some extent at least, from the same kiln.

All know that a first class paving brick is a brick which placed in the pavement will stand the traffic for a long term of years without disintegration from frost or traffic. The difference between an unquestionably good and an unquestionably bad brick is wide and easily defined. The limiting case is where the difficulty arises.

The question which remains to be answered is then, how, in the limited time to be devoted to the construction of a pavement, can those qualities be unquestionably developed. The writer cannot answer that question at this time and believes it is at present unanswerable. Will chemical analyses, or physical tests for compression, transverse strength, absorption or abrasion give the necessary information? Unquestionably they will in the extreme cases, but not at present in the limiting case; although they may ultimately do so when their relation to each other and to the wearing qualities of the brick are better known.

What is necessary is to show the relation under various circumstances between the tests which can readily be made and the actual staying qualities of the brick.

The test for compressive and transverse strength undoubtedly has a value in determining the qualities of a brick, but just what relations there are between either one and durability is unknown. These qualities at present can hardly be claimed to define the limiting case. Neither can absorption be so considered. The writer

is familiar with brick, which, while absorbing four or five per cent. of water, will still withstand frost; while brick of a different manufacture and made from a different clay, will go to pieces with frost if they absorb two or three per cent.

The common rattle test is perhaps of more value than any other, if rightly conducted, as it comes nearer the actual condition of use. As often conducted, however, it gives little information. It is usually made under such widely varying circumstances as to be of no value whatever, as a means of comparison with other tests at other places. These tests are all of value as indicative of the general character of the brick but do not define the limiting case. Uniformity in making these various tests, whatever the specifications might be, or however much they might vary, would certainly accumulate much valuable data which could in such case be compared. Much definite information would thus gradually be accumulated and definite conclusions could be ultimately drawn.

CONSTRUCTION OF SMOKE FLUES IN BUILDINGS.

The municipal authorities of Atlanta, Georgia, have just passed an ordinance regulating the building of stove flues within the city limits, which might be followed with advantage by some other places in the country. The law is to the effect that all stove flues hereafter built in the city of Atlanta shall be constructed of hard burned or fire clay brick, lined inside with fire clay pipe, and so placed as to rest on iron or other non-combustible material, no wood whatever being placed in them. A section of the city code is amended so as to render any owner, builder or contractor violating the provisions of this section of the ordinance liable on conviction to a fine not exceeding \$100 or imprisonment for not more than 30 days for each offence. In commenting upon this ordinance the Southern Architect states that the law is of vastly more than local interest, as it shows a disposition to improve methods of building, and with better methods of construction will be sensibly lessened the fire risk to life and property.

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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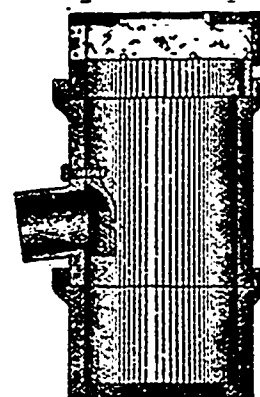
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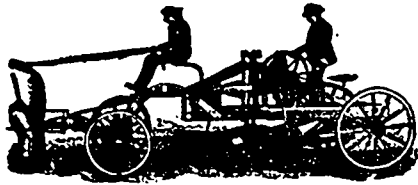
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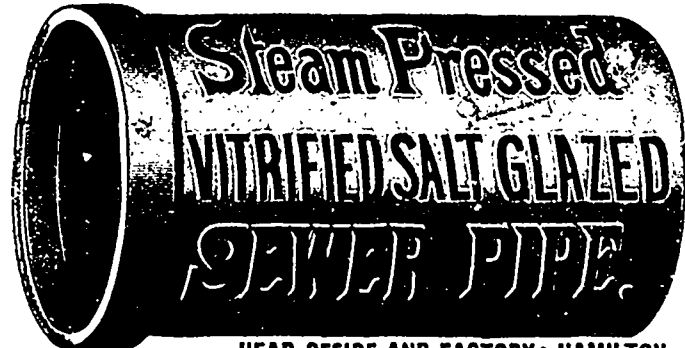
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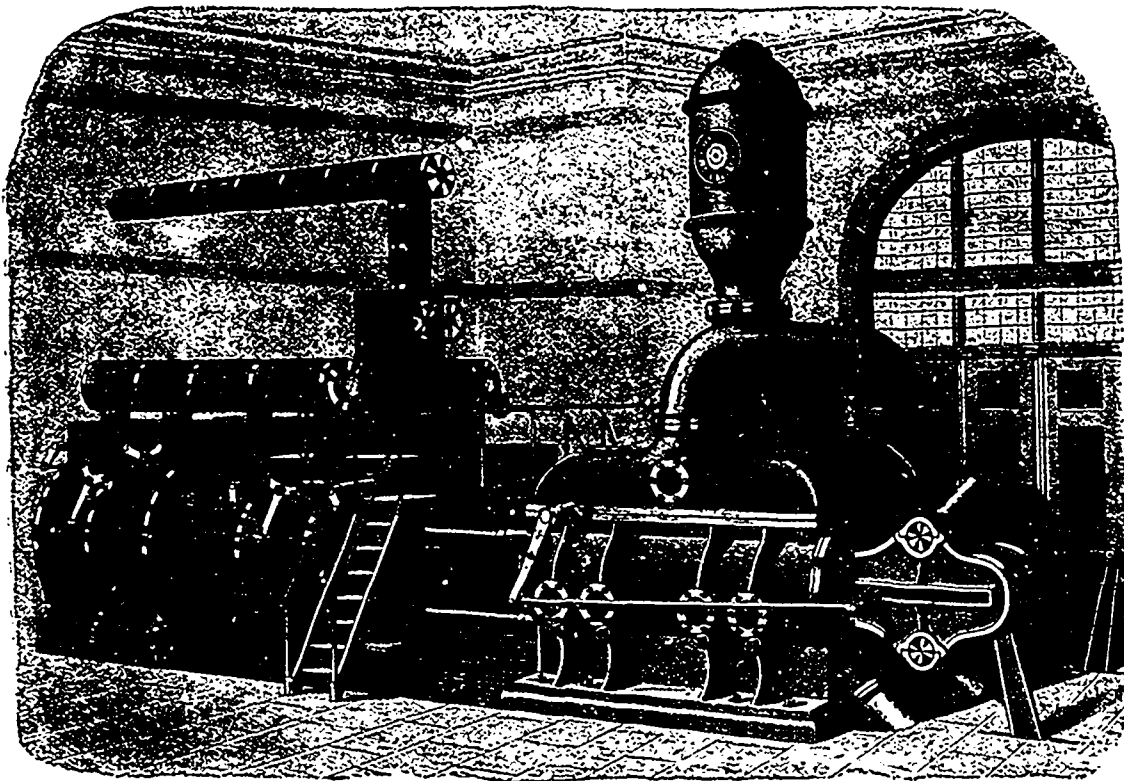
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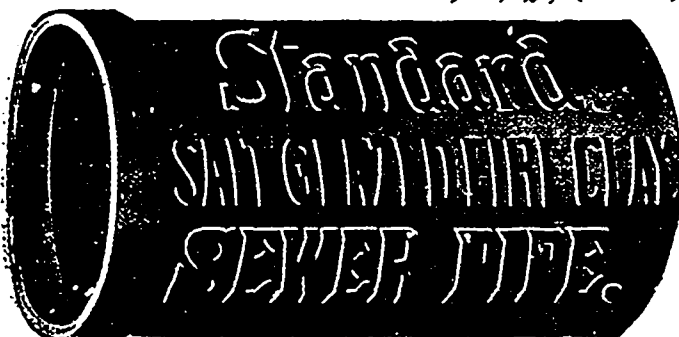
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CONDITION OF THE MARKET.

TORONTO: The improvement noted in the hardware business has been maintained, and numerous orders are reported from the upper lakes, to be shipped by boats before the close of navigation.

MONTREAL: The market for builders' supplies remains quiet, and no renewed activity is looked for until the spring. Small lines of hardware are moving freely, and travellers report a brighter feeling among the country dealers.

LUMBER.

CAR OR CARGO LOTS.

Table with columns for Toronto and Montreal prices for various lumber types like 1 1/2 to 2 clear picks, 1 1/2 to 2 three uppers, etc.

YARD QUOTATIONS.

Table with columns for Toronto and Montreal prices for mill cull boards, shipping cull boards, Hemlock scantling, etc.

B. M.

Table with columns for Toronto and Montreal prices for 1 1/2 in. flooring, 1 1/2 inch flooring, etc.

Table with columns for Toronto and Montreal prices for White ash, Black ash, Dressing stocks, Picks, American inspection, Three uppers, Am. inspection.

BRICKS—M

Table with columns for Toronto and Montreal prices for Common Walling, Good Facing, Sewer.

Pressed Brick, Per M:

Table with columns for Toronto and Montreal prices for Red, No. 1, f.o.b. Beamsville, Buff, Brown, Roman Red, etc.

Table with columns for Toronto and Montreal prices for Red 'A' f.o.b. Don Valley, Red 'B', Red 'C', Trojan and Corinthian, etc.

Table with columns for Toronto and Montreal prices for 1st quality, f.o.b. at Port Credit, 2nd, 3rd, Hard building brick, Ornamental.

SAND.

Table with columns for Toronto and Montreal prices for Per Load 1/2 Cubic Yards.

STONE.

Table with columns for Toronto and Montreal prices for Common Rubble, Large flat Rubble, Foundation Blocks, etc.

LUMBER.

CAR OR CARGO LOTS.

Table with columns for Toronto and Montreal prices for 1 1/2 to 2 clear picks, 1 1/2 to 2 three uppers, etc.

YARD QUOTATIONS.

Table with columns for Toronto and Montreal prices for Mill cull boards, shipping cull boards, Hemlock scantling, etc.

B. M.

Table with columns for Toronto and Montreal prices for 1 1/2 in. flooring, 1 1/2 inch flooring, etc.

Table with columns for Toronto and Montreal prices for Cement, Belgian, Canadian, Roman, Parian, Superfine, etc.

Table with columns for Toronto and Montreal prices for Keene's Coarse 'Whites', Calcined plaster, Fire Bricks, Lime, Plaster, Hair, Plasterers', etc.

HARDWARE.

Table with columns for Toronto and Montreal prices for Cut nails, Steel, 40d, hot cut, 20d, 16d and 12d, hot cut, etc.

FINER BLUED NAILS.

Table with columns for Toronto and Montreal prices for 3d, per 100 lbs., 2d, 1 1/2.

Table with columns for Toronto and Montreal prices for CASING AND BOX, FLOORING, SHOOK AND TOBACCO BOX NAILS.

Table with columns for Toronto and Montreal prices for 12d to 30d, per 100 lbs., 10d, 8d and 6d, 6d and 7d, 4d to 5d, 3d.

FINISHING NAILS.

Table with columns for Toronto and Montreal prices for 3 1/2 to 2 1/2, 2 to 2 1/2, 1 1/2 to 1 1/4, 1 1/4 to 1 1/2, 1 1/2.

SLATING NAILS.

Table with columns for Toronto and Montreal prices for 5d, per 100 lbs., 4d, 3d, 2d.

Table with columns for Toronto and Montreal prices for COMMON BARRREL NAILS, 1 inch, per 100 lbs., 3/4, 3/8.

Table with columns for Toronto and Montreal prices for CLINCH NAILS, 1/2 and 3/4 inch, per 100 lbs., 2 and 2 1/2, 1 1/2 and 1 1/4.

Table with columns for Toronto and Montreal prices for SHARP AND FLAT PRESSED NAILS, 3, 2 1/2 and 3/4, 2 and 2 1/2, 1 1/2 and 1 1/4, 1 1/4.

Table with columns for Toronto and Montreal prices for STEEL WIRE NAILS, Steel Wire nails, 75, 10 and 5% discount from printed list.

Table with columns for Toronto and Montreal prices for Iron Pipe, Iron pipe, 1/2 inch, per foot, 3/4, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 24, 28, 32, 36, 40, 48, 60, 72, 84, 96, 108, 120, 144, 168, 192, 216, 240, 288, 324, 360, 408, 456, 504, 576, 648, 720, 800, 900, 1000.

Table with columns for Toronto and Montreal prices for Black wrought iron pipe, Galvanized, Cast and soil.

Table with columns for Toronto and Montreal prices for Lead Pipe, Lead pipe, per lb., Waste pipe, per lb., Discount, Toronto and the West, 30% off in small lots; 30 and 10% off in ton lots; points east of Toronto, 35 and 10% off.

Table with columns for Toronto and Montreal prices for Galvanized Iron, Adam's—Mar's Best and Queen's H-add, 16 to 24 gauge, per lb., 26 gauge, 28, Gordon Crown—16 to 24 gauge, per lb., 26 gauge, 28.

Table with columns for Toronto and Montreal prices for Structural Iron, Steel Beams, per 100 lbs., channels, angles, tees, plates, Sheared steel bridge plate.

INDEX TO ADVERTISEMENTS

In the "Canadian Architect and Builder."

Large index table listing various services and companies such as Architects, Cement, Heating, Roofers, Roofing Materials, Sanitary Appliances, etc.