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CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL

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.

SEPTEMBER 6, 1894

No. 31

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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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 M. Perrault, seconded by A. F. Dunlop, that 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, be resolved, that we pledge our support to it by using its columns when calling for Tenders."

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.

Price, \$1.50; to subscribers of the CANADIAN ARCHITECT AND BUILDER, \$1.00. Address

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BARTER AND EXCHANGE.

This department has been opened for the speedy barter and exchange of second-hand plant or material, or small lots of new or second-hand materials by builders and others not regularly engaged in the sale of such articles. Advertisements other than those of the above description will not be inserted.

RATES—12 words and under, 15 cents; each additional word, 1 cent (three figures count one word); on two or more subsequent insertions a discount of 10 per cent. will be allowed. Not more than four insertions of an advertisement can be granted.

Replies to advertisements may be addressed to a box at this office, in which case necessary stamps must be sent for re-mailing replies. Advertisements for this department must be prepaid.

FOR SALE—Wood and glass partition, 9 feet high, 18½ feet long, including door 3 x 3 feet. Pine, natural finish, ground glass in panels. In use little more than a year. Cost over \$50. will be sold at a sacrifice. Box 50, CONTRACT RECORD office.

FOR SALE.

About 500 loads of first-class Gravel, on the Weston Road, 144 yards east of St. Clair Avenue, Toronto Junction. Apply to

WILLIAM McLEOD,
Georgetown, Ont.

TO ENGINEERS AND CONTRACTORS

Plans and specifications, with approximate price thereon, are invited by the Corporation of the Town of Port Hope on or before

September the 10th, Inst.,

for a proposed extension and improvement of the present system of waterworks now in use. All information with reference to the same can be had from J. B. White, Chairman of Fire, Water and Light Committee. The said Corporation do not bind themselves to accept any plan that may be submitted, but in the event of any such plan being accepted, the Corporation will pay for the same at such price as may be agreed upon.



Sealed Tenders, addressed to the undersigned, and endorsed "Tender for Additions, Changes, Fittings, &c., to Post Office, Stratford, Ont.," will be received at this office until TUESDAY, 12TH SEPTEMBER, 1894, for the several works required in the erection of additions, changes, fittings, &c., to Post Office, Stratford, Ont.

Plans and specifications can be seen at the Department of Public Works, Ottawa, and at the Post Office at Stratford, on and after Saturday, 1st September, and tenders will not be considered unless made on the form supplied, and signed with the actual signatures of tenderers.

An accepted bank cheque payable to the order of the Minister of Public Works, equal to five per cent. of amount of tender, must accompany each tender. This cheque will be forfeited if the party decline the contract, or fail to complete the work contracted for, and will be returned in case of non-acceptance of tender.

The Department does not bind itself to accept the lowest or any tender.

By order,
E. F. E. ROY,
Secretary.

Department of Public Works,
Ottawa, 30th August, 1894.



Sealed Tenders addressed to the undersigned, and endorsed, "Tender for Hot Water Heating Apparatus at Rideau Hall, Ottawa," will be received until MONDAY, 10TH SEPTEMBER, for the construction of a Hot Water Heating Apparatus at Rideau Hall.

Plans and specifications can be seen and form of tender and all necessary information obtained at this Department on and after Thursday, 5th August.

Persons are notified that tenders will not be considered unless made on the form supplied and signed with their actual signatures.

Each tender must be accompanied by an accepted bank cheque, made payable to the order of the Honourable the Minister of Public Works, equal to five per cent. of the amount of the tender, which will be forfeited if the party decline to enter into a contract when called upon to do so, or if he fail to complete the work contracted for. If the tender be not accepted the cheque will be returned.

The Department does not bind itself to accept the lowest or any tender.

By order,
E. F. E. ROY,
Secretary.

Department of Public Works,
Ottawa, August 29th, 1894.



Notice to Contractors

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to 11 o'clock a.m. on TUESDAY, SEPTEMBER 11TH, 1894, for the following works:—

A SEWER

On Preston avenue, from Northumberland avenue to Dupont street.

AN ASPHALT PAVEMENT

On Adelaide street, from Yonge street to Church street.

Specifications may be seen and forms of tender obtained on and after Thursday, September 6th, 1894, at the office of the City Engineer.

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 they 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, Committee on Works.

Committee Room, Toronto, August 31, 1894.

CANTILEVER PRINCIPLE IN FOUNDATION.

A rather novel use of the cantilever principle has been employed, says Carpenter and Building, in connection with the foundations of the 13-story annex to the Hotel Savoy, now in progress of erection at Fifth avenue and Fifty-ninth street in this city. The cellar area of the extension was so small that a foundation of masonry capable of sustaining the superstructure to be erected would have left comparatively little room available, so that it was necessary to economize space. This was accomplished by the application of the cantilever principle, and it is said that this is the only building in the city having a foundation similarly constructed. In the first place four piers were built, each consisting of four blocks of granite set in a bed of concrete. On these piers were placed two iron girders weighing about 25 tons each, the ends of the girders extending beyond the piers and resting on the brick walls lining the excavation. At the front and rear of the piers are smaller piles supporting smaller girders in the same manner as described above. The main girders are said to be among the heaviest ever used in a building in this city and in transporting them to the site 20 horses were required to draw the truck.

Send for a copy of the second edition of the CANADIAN CONTRACTOR'S HAND-BOOK. Price, \$1.50; to subscribers, \$1.

CONTRACTS OPEN.

CARLETON PLACE, ONT.—A match factory is shortly to be established here.

PORT LAMBTON, ONT.—McDonald's store, burned last spring, is to be rebuilt.

FLEMING, N. W. T.—J. Rogers has purchased a lot and will erect a new residence.

GATINEAU POINT, QUE.—Mrs. Latour has decided to rebuild the hotel recently destroyed by fire.

HOCHELAGA, QUE.—A portion of the wharf at this place gave way last week. It will cost about \$5,000 to repair.

BRANDON, MAN.—It is proposed to grant a bonus to Alexander, Kelly & Co. to enable them to rebuild their flour mill.

PARRY SOUND, ONT. A by-law has been passed by the Town Council providing for the raising of \$6,500 for the erection of a new school.

COLCHESTER SOUTH, ONT.—John Stocker will shortly erect a fireproof storehouse and shed. Charles Bell has purchased a lot and will erect a brick office.

GRANDY, QUE.—The Catholic school commissioners have completed arrangements with the Sisters of the Presentation for the erection of a spacious school building.

PRINCETON, N. W. T. A company of local capitalists has been formed to build a brewery here. The capital stock is \$10,000. Operations will be commenced at once.

KINGSTON, ONT. The sum of \$16,000 has been raised towards the erection of carriage works in this city. Abraham Shaw will erect a new residence at the corner of Young and Barric streets.

TRENTON, ONT. A by-law will be voted on by the ratepayers on the 22nd inst. authorizing the Council to raise the sum of \$6,000 for the erection of a power house in connection with the development of the water power of the Trent river.

OTTAWA, ONT. The Government engineers have made their last survey of the proposed St. Clair and Erie canal. P. G. Keyes, of the Department of Interior, has purchased a lot on the corner of Rideau and Nelson streets.

HAMILTON, ONT. The Hospital Committee has made arrangements for furnishing the House of Refuge as soon as completed. At a recent meeting of the shareholders of the Hamilton and Dundas Railway Company, it was decided to postpone for a time the conversion of the road into an electric system.

COLLINGWOOD, ONT. The Northern Transit Co. will build a new steamer here next winter. Fred Hodgson, architect, is preparing plans and specifications for a residence to be built for Frank Nettleton, jeweller, Collingwood. The house is to be faced with pressed brick, two stories high, and to be fitted with all modern improvements, including electric light and hot water heating. Estimated cost \$5,000.

ST. HYACINTHE, QUE.—Contracts will be awarded this week for a new hotel to be erected here, to cost \$50,000.

SOREL, QUE.—A deputation of residents will interview the Minister of Public Works at Ottawa at an early date asking financial assistance towards the construction of an iron bridge across the Richelieu river at this place, estimated to cost \$250,000. The Government will be asked to make a grant of \$50,000. The erection of a new station by the Montreal and Sorel Railway Company may also be included in the undertaking.

PORI DOVER, ONT.—Col. Tisdale, M. P., recently had an interview with the Minister of Public Works at Ottawa regarding the commencement of the work of dredging the harbor at this place in connection with the railway ferry across Lake Erie. The work is not likely to be commenced this year, but it is stated that next spring the necessary docks and harbor works, as well as the dredging, will be prosecuted with the utmost dispatch.

LONDON, ONT.—The City Engineer has granted the following building permits: John Agar, residence on the old St. Paul's cemetery grounds, Dundas street east, cost \$3,000. H. C. McBride, architect, J. B. Brincombe, two-story brick residence on Waterloo street, between Oxford and St. James, cost \$1,500; John Coote, office on the south side of York street, west of Richmond, cost \$1,200; Rev. Mr. Guillemet, brick office and residence, west side Wellington st., between Oxford and Sydenham.

WINNIPEG, MAN.—The Sons of England contemplate the erection of a hall in this city.—The Dominion Gas and Electric Company, which has recently been incorporated, has made a proposition to the City Council for the erection of gas works, to be equipped with a modern plant. Mr. McKenzie, president of the Winnipeg Electric Street Railway Company, is one of the promoters.—Tenders will shortly be asked by the City Council for the construction of a number of catch basins, estimated to cost \$3,500.—A block pavement will be constructed on Notre Dame avenue, from Charlotte to Ellen streets, at a cost of \$4,500.—A local architect is preparing plans for converting the old Wesley Hall gymnasium into a theatre building, with all modern improvements.

MONTREAL, QUE.—Messrs. Brown, Dolan, Jackson and McCormack have been appointed a committee to select plans, location, etc., for the Catholic Young Men's Institute hall. Their report will be presented at a meeting to be held during this month.—Messrs. Perrault & Lesage, architects, are calling for tenders for all trades required in the erection of two stores and dwellings on Notre Dame street west for Mr. B. Charbonneau.—The Grand Trunk Railway will build, on the block bounded by Mountain st., St. James st., Aqueduc st. and the railroad tracks, a large brick building 100x25 ft., for express accommodation.—A petition signed by steamship owners and underwriters has been forwarded to the Governor-General asking for the construction of dry docks at the harbor in this city.—Messrs. Perrault, Mesnard & Venne, architects, are calling for tenders for a wrought iron grille for the entrance to the Banque du Peuple building.

TORONTO, ONT.—Dr. McCully, Yonge street, wants tenders for putting a hot air furnace in house, corner St. Clair ave. and Yonge street. A petition was last week presented to the Property Committee asking that improvements be made to St. Lawrence market, at a cost of \$4,000. The City Council will be asked to provide the funds.—It is reported that a syndicate is being formed for the purpose of erecting a summer hotel in the vicinity of Toronto, to be fitted up with all modern improvements.—Messrs. Jones, Mackenzie & Leonard, on behalf of a client, have written to the Property Committee requesting terms for the lease of 200 feet of land on the Esplanade, presumably for a building site. A petition has been received by the Mayor asking the city to construct an aquatic course on the Island

by connecting Long Pond with Blockhouse Bay and dredging a channel 600 feet wide and three quarters of a mile in length.—An American syndicate is said to be considering the erection of a mammoth pulp and paper mill at the Kakabeka Falls, on the Kamistiquia river, which flows into Lake Superior, the cost being estimated at about one million dollars. Among the gentlemen interested are: E. V. Douglass, F. Douglass and D. F. Lewis, of Philadelphia; F. J. Clerque, of Bangor, Maine, and A. P. Bollein and John Bogart of New York. Messrs. Lewis & Bogart recently visited the proposed location, and are reported as being favorably impressed.—Building permits have been granted as follows: Benj. Kent, 3 story bk. store and office building, 144 Yonge st., cost \$15,000; Jos. Harrington, alterations to 344 George st., cost \$2,000; trustees B. M. E. church, bk. church, w. side Chestnut st., nr. Agnes st., cost \$6,000.

FIRES.

Morrison's saw mill at Petit Roche Station, N. B., has been burned, at a loss of \$3,000.—The boot and shoe establishment of Haines & Lockett, at Belleville, Ont., was burned a few days ago. The building was owned by Mr. Haines, and was insured for \$5,000, which will cover the loss.—The residence of Mr. Barley, at Petrolia, Ont., has been destroyed by fire.—Fire at Kimmount, Ont., on Saturday last, destroyed J. Bowie's hotel, J. Kingsboro's hardware store, W. S. Scott's dry goods store, and J. Cameron's wagon shop. There was no insurance.—Craig's hat factory at Truro, N. S., was completely destroyed by fire on the 3rd inst. The loss will be heavy, which is partially covered by an insurance of \$5,000.—A disastrous fire occurred at Point au Pic, Que., on Sunday last, destroying about \$80,000 worth of property. The following buildings were destroyed: The Central house owned by C. G. Tremblay, Warren's hotel; Mrs. Jos. Bouchard, cottage; Mr. Dubergers, three cottages; Theo. Fred Girard, two houses; David Desbiens, two houses; Francois Tolon, two houses; Wm. Tremblay, house; Louis Tremblay, house; Theodul Tremblay, house; Joseph Gagne, house; John Gagnon, house; Flavin Samson, two houses; Mr. Hamel, house, and the post office. The insurance is said to be small.—The carriage shop of G. Christmas & Son, at Walsingham Centre, Ont., was burned on Tuesday last. Loss, \$1,500; partially covered by insurance.

CONTRACTS AWARDED.

TILBURY EAST, ONT.—J. B. Pike has been awarded the Forbes dredging in Tilbury East, his tender being \$3,885.

GALT, ONT.—The following are the successful tenderers for Mr. Bernhardt's new hotel: Masonry, W. Edmonds; carpentering, W. Hallman; painting, A. C. Bruce; plastering, Verch & Booty; tinwork, Allan & McKenzie. The plumbing, heating and roofing will be awarded at a later date.

MONTREAL, QUE.—Mr. A. Gendron, architect, has awarded the contract for masonry of a villa residence at Notre Dame de Grace for Mr. A. Rastoul to F. Dufresne.—Messrs. Perrault & Lesage, architects, have awarded contracts as follows: Painting and glazing of three stores and dwellings on Notre Dame st. west, for E. Marcell, to Poirer & Arcande; the masonry and excavation of three cut stone front stores on Notre Dame st. west for J. Versailles, to Oumet & Labelle.

PROPORTIONS OF FLOORING BEAMS.

Authorities on the strength of timber are by no means agreed as to the proper ratio of breadth to depth of beams for flooring, the ratio differing for bridging joists, for binding joists and for girders. A writer in Indian Engineering, in a series of articles, has been discussing the subject mathematically, and gives several equations for the best spacings when the ratio of depth and breadth of beam is fixed. The least practicable amount of

material for stiffness is one of the data in regard to problems of this kind, though this element would necessarily vary for the respective purposes mentioned above. It is not necessary to enter into the formula given by the author, but the method of his investigation appears to be a just one. In India, he says, naked flooring is used for the support of flat roofs, which are covered with a thick layer of earth to keep out the heat. Here strength is the chief desideratum, and if, as is often the case, timber is scarce, and the roof must be built at the expense of as little feeling

as possible, the best value for R is $\frac{1}{V_2}$, since this is the ratio of breadth to heights which ensures the strongest beam from a round log. The author then works out the equations for spacing when the least material is used. The writer gives an example of a common arrangement in the East, the value of R being as shown above. "S, the breadth of the flooring, is 20ft.; A is 1 cwt. per square foot; P, three-

quarters of a ton per square inch. Then S² equals spacing of binding joists, equals 58ft., and S³ (spacing of bridging joists) equals 26ft. The main beams should therefore be placed 6ft. apart, and the cross beams 2ft. 6in. Strips of wood $\frac{1}{8}$ in. thick will serve the purpose of boards to support the deep layer of sand and dry earth. This form of roofing, common throughout India and the East, is a very efficient protection against the heat of the sun, though not durable." The problem of design for naked flooring is more intricate where the proportions of the members are predetermined than where stiffness and strength alone are made absolute. The writer says these latter qualities may be different for the different tiers of beams and joists; the main beams may also be made stiffer than the cross beams. For timber structures in the East, the economical distribution of timbers in floors and roofs is of moment to the architect and engineer, and any rules or formulae that can be used to effect a saving in timber or in the construction of floors are of value.

MUNICIPAL DEPARTMENT.

TABLES FOR CALCULATING SINKING FUNDS AND PRESENT VALUES.

Engineers and others connected with municipal work and various industrial enterprises often find it necessary to calculate payments to sinking funds which will provide a sum of money sufficient to pay off a bond issue or other debt at the end of a given period, or to determine the present value of certain annual charges. The accompanying tables were computed

by Mr. John W. Hill, M. Am. Soc. C. E., of Cincinnati, Ohio, for use in his engineering practice. Mr. Hill states that they are more convenient for his purpose than the tables used by insurance companies, and that he has checked them by such tables and independently, and found them to be correct.

Table I shows the annual sum at various rates of interest required to net \$1,000 in from 5 to 50 years, and Table II shows the present value at various rates of interest of an annual charge of \$1,000 for from 5 to 50 years, at five-year intervals and for 100 years.—Engineering News.

Table I - ANNUITY REQUIRED TO REDEEM \$1,000 IN FROM 1 TO 50 YEARS. Table II - CAPITALIZATION OF ANNUITY OF \$1,000 FOR FROM 5 TO 100 YEARS. The tables contain columns for years, annuity, and rate of interest.

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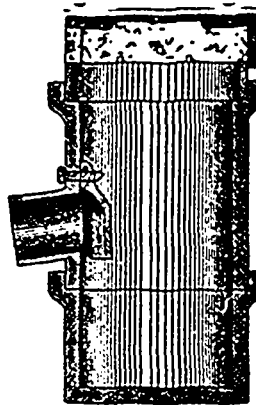
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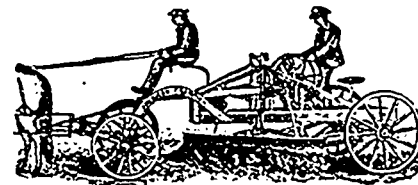
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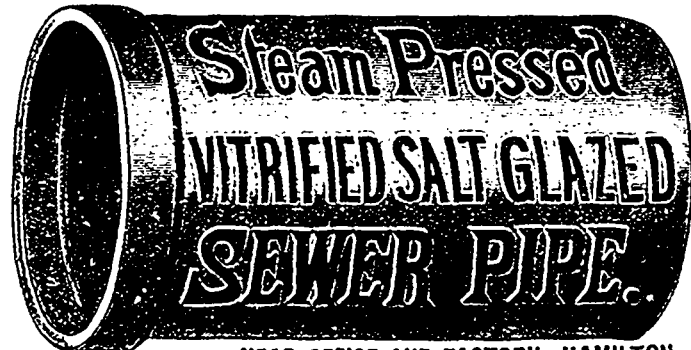
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CAST IRON WATER AND GAS PIPES

WORKS: LACHINE, QUE.

PRICES ON APPLICATION.

HAMILTON AND TORONTO SEWER PIPE CO.

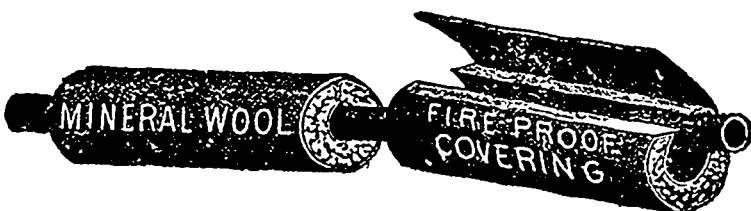


— FOR —
**SEWERS,
CULVERTS,
AND
WATER PIPES.
INVERTS
Fire Brick Sewers**

Write for Discounts.

HEAD OFFICE AND FACTORY: HAMILTON, CANADA.

MUNICIPAL OFFICIALS should see to it that in the erection of town and city PUBLIC BUILD-
INGS, the installation of water works plant, etc., the advantages of . .
MINERAL WOOL



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.

CANADIAN MINERAL WOOL CO., Limited, 122 BAY ST., TORONTO.

Montreal Agent: LEWIS SKAIFE

707 NEW YORK LIFE BUILDING

CANADA PIPE AND FOUNDRY CO. . . .

MANUFACTURERS OF

Cast Iron Pipes and Special Castings

Works: MONTREAL AND ST. HENRI, QUE.

CORRESPONDENCE SOLICITED.

THE STANDARD DRAIN PIPE CO.

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



Manufacturers of
Salt-Glazed
Vitrified
**SEWER
PIPES**

Double Strength
Railway Cul-
vert Pipes,
Inverts, Vents,

AND ALL KINDS OF FIRE CLAY GOODS.

THE G. & J. BROWN MFG. CO.

Railway and Contractors' Plant.

BRIDGE BUILDERS

BELLEVILLE, . ONT.

CENTRAL BRIDGE AND ENGINEERING COMPANY, (LIMITED)

Peterborough, Ont. WM. H. LAW, Manager and Engineer.

RAILWAY AND HIGHWAY BRIDGES

Viaducts, Piers, Roofs, Turntables and Girders in Steel and Iron. Tension members forged without welds.

D. BAER & CO. BUILDERS OF THE

COMBINATION - BRIDGE DOON, ONT.

All communications promptly answered.

Prices of Building Materials.

With the country trade the demand for builders supplies is keeping up fairly well, but there has been no marked improvement in the city trade.

LUMBER.

Table listing lumber prices for various types like 1 1/2 to 2 clear picks, 1 1/2 to 2 three uppers, etc.

VAID QUOTATIONS.

Table listing mill cull boards and scantling prices.

Table listing prices for various types of lumber like 1 1/2 inch flooring, 1 1/2 inch dressing, etc.

Toronto, Montreal.

Table listing prices for White ash, Black ash, Dressing stocks, Picks, American inspection, Three uppers, Am. inspection.

BRICK-P M

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

Pressed Brk, Per M

Table listing prices for Red, No. 1, f.o.b. Beamsville, B ff, Brown, Roman Red, Buff, Brown.

Table listing prices for Sewer, Hard Building, Roof Tiles, Hip Tile, Ridge Tile.

Table listing prices for 1st quality, f.o.b. at Port Credit and 2nd.

SAND.

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

STONE.

Table listing prices for Common Rubble, Large flat Rubble, Foundation Blocks, Kent Freestone Quarries, etc.

SLATE.

Table listing prices for Roofing (per square), Red, Purple, Unfacing green, Black, Terra Cotta Tile, Ornamental Black Slate Roofing.

PAINTS. (In oil, per lb.)

Table listing prices for White lead, Red lead, Venetian, Vermillion, Indian, Yellow ochre, Yellow chrome, Green chrome, Black lamp, Blue, ultramarine, Oil, linseed, raw, Imp. gal., Colored, refined, Putty, Whiting, Paris white, Litharge, Sienna, burnt, Umber.

CEMENT, LIME, etc.

Table listing prices for Cement, Portland, Gernar, London, Newcastle, etc.

Toronto, Montreal.

Table listing prices for Cement, Belgian, Canadian, Roman, Parian, Superfine, Thoroid, Queenston, Napanee, Hull, Keene's Coarse 'Whites', Calcined plaster, Fire Bricks, Newcastle, Scotch.

Table listing prices for Lime, Per Barrel, Grey, White, Plaster, Calcined, N. S., Hair, Plasterers', per bag.

HARDWARE.

Table listing prices for Cut nails, Steel, 40d, hot cut, per 100 lbs, 30d, 20d, 16d and 12d, hot cut, per 100 lbs, 10d, hot cut, per 100 lbs, 8d, 6d, 4d to 3d, 3d, 2d, 4d to 3d cold cut, not polished or blued, per 100 lbs, 3d to 3d cold cut, not polished or blued, per 100 lbs.

CUT NAILS, FENCE AND CUT SPIKES.

Table listing prices for 40d, hot cut, per 100 lbs, 30d, 20d, 16d and 12d, hot cut, per 100 lbs, 10d, hot cut, per 100 lbs, 8d, 6d, 4d to 3d, 3d, 2d, 4d to 3d cold cut, not polished or blued, per 100 lbs, 3d to 3d cold cut, not polished or blued, per 100 lbs.

FINISHING NAILS.

Table listing prices for 3 inch, per 100 lbs, 2 1/2 to 2 3/4, 2 to 2 1/2, 1 1/2 to 1 3/4, 1 1/4.

SLATING NAILS.

Table listing prices for 5d, per 100 lbs, 4d, 3d, 2d.

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

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

CONTRACTORS' PLANT AND MACHINERY.

Table listing prices for Rice Lewis & Son, Rowe, Geo.

Cut Stone Contractors.

Table listing prices for Isaac Bros., Oakley & Holmes.

Chimney Topping.

Table listing prices for Brenner, Alex., Currie & Co., W & F.P., Hamilton and Toronto.

Drain Pipe.

Table listing prices for Brenner, Alex., Currie & Co., W & F.P., Hamilton and Toronto.

Dumb Waiters.

Table listing prices for King & Son, Warden.

Electric and Gas Fixtures.

Table listing prices for Barwell, James.

Electric Wiring.

Table listing prices for Rogers & Doss.

Elevators.

Table listing prices for Fensom, John, Leitch & Turnbull.

Building Stone Dealers.

Table listing prices for Carroll, Vick & Co.

Builders' Hardware.

Table listing prices for Rice Lewis & Son, Toronto Lock Co.

Crossed Status.

Table listing prices for Cabot Samuel, Maguire Bros., Morris, E. D., Standard Drain Pipe Co.

Church and School Furniture.

Table listing prices for Bowtick, Geo. F., Can. Office & School Furniture Co., Globe Furniture Co., Office Specialty Co., Snider, J. B.

Church Reflectors.

Table listing prices for Frink, I. P.

Toronto, Montreal.

Table listing prices for COMMON BARREL NAILS, 1 inch, per 100 lbs, 3/4, 3/8.

CUTTING NAILS.

Table listing prices for 3/8 and 2/8, 2 and 2 1/2, 1 1/2 and 1 1/4, 1 1/4.

SHARP AND FLAT PRESSED NAILS.

Table listing prices for 3 inch, per 100 lbs, 2 1/2 and 2 3/4, 2 and 2 1/4, 1 1/2 and 1 1/4, 1 1/4.

STEEL WIRE NAILS.

Table listing prices for Steel Wire Nails, 75, 10 and 5, discount from printed list.

Iron Pipe.

Table listing prices for Iron pipe, 1/2 inch, per foot, 3/4, 1, 1 1/4, 1 1/2, 2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 24, 30, 36, 42, 48, 60, 72, 84, 96, 108, 120, 144, 168, 192, 216, 240, 288, 336, 384, 432, 480, 540, 600, 660, 720, 780, 840, 900, 960, 1020, 1080, 1140, 1200, 1260, 1320, 1380, 1440, 1500, 1560, 1620, 1680, 1740, 1800, 1860, 1920, 1980, 2040, 2100, 2160, 2220, 2280, 2340, 2400, 2460, 2520, 2580, 2640, 2700, 2760, 2820, 2880, 2940, 3000, 3060, 3120, 3180, 3240, 3300, 3360, 3420, 3480, 3540, 3600, 3660, 3720, 3780, 3840, 3900, 3960, 4020, 4080, 4140, 4200, 4260, 4320, 4380, 4440, 4500, 4560, 4620, 4680, 4740, 4800, 4860, 4920, 4980, 5040, 5100, 5160, 5220, 5280, 5340, 5400, 5460, 5520, 5580, 5640, 5700, 5760, 5820, 5880, 5940, 6000, 6060, 6120, 6180, 6240, 6300, 6360, 6420, 6480, 6540, 6600, 6660, 6720, 6780, 6840, 6900, 6960, 7020, 7080, 7140, 7200, 7260, 7320, 7380, 7440, 7500, 7560, 7620, 7680, 7740, 7800, 7860, 7920, 7980, 8040, 8100, 8160, 8220, 8280, 8340, 8400, 8460, 8520, 8580, 8640, 8700, 8760, 8820, 8880, 8940, 9000, 9060, 9120, 9180, 9240, 9300, 9360, 9420, 9480, 9540, 9600, 9660, 9720, 9780, 9840, 9900, 9960, 10020, 10080, 10140, 10200, 10260, 10320, 10380, 10440, 10500, 10560, 10620, 10680, 10740, 10800, 10860, 10920, 10980, 11040, 11100, 11160, 11220, 11280, 11340, 11400, 11460, 11520, 11580, 11640, 11700, 11760, 11820, 11880, 11940, 12000, 12060, 12120, 12180, 12240, 12300, 12360, 12420, 12480, 12540, 12600, 12660, 12720, 12780, 12840, 12900, 12960, 13020, 13080, 13140, 13200, 13260, 13320, 13380, 13440, 13500, 13560, 13620, 13680, 13740, 13800, 13860, 13920, 13980, 14040, 14100, 14160, 14220, 14280, 14340, 14400, 14460, 14520, 14580, 14640, 14700, 14760, 14820, 14880, 14940, 15000, 15060, 15120, 15180, 15240, 15300, 15360, 15420, 15480, 15540, 15600, 15660, 15720, 15780, 15840, 15900, 15960, 16020, 16080, 16140, 16200, 16260, 16320, 16380, 16440, 16500, 16560, 16620, 16680, 16740, 16800, 16860, 16920, 16980, 17040, 17100, 17160, 17220, 17280, 17340, 17400, 17460, 17520, 17580, 17640, 17700, 17760, 17820, 17880, 17940, 18000, 18060, 18120, 18180, 18240, 18300, 18360, 18420, 18480, 18540, 18600, 18660, 18720, 18780, 18840, 18900, 18960, 19020, 19080, 19140, 19200, 19260, 19320, 19380, 19440, 19500, 19560, 19620, 19680, 19740, 19800, 19860, 19920, 19980, 20040, 20100, 20160, 20220, 20280, 20340, 20400, 20460, 20520, 20580, 20640, 20700, 20760, 20820, 20880, 20940, 21000, 21060, 21120, 21180, 21240, 21300, 21360, 21420, 21480, 21540, 21600, 21660, 21720, 21780, 21840, 21900, 21960, 22020, 22080, 22140, 22200, 22260, 22320, 22380, 22440, 22500, 22560, 22620, 22680, 22740, 22800, 22860, 22920, 22980, 23040, 23100, 23160, 23220, 23280, 23340, 23400, 23460, 23520, 23580, 23640, 23700, 23760, 23820, 23880, 23940, 24000, 24060, 24120, 24180, 24240, 24300, 24360, 24420, 24480, 24540, 24600, 24660, 24720, 24780, 24840, 24900, 24960, 25020, 25080, 25140, 25200, 25260, 25320, 25380, 25440, 25500, 25560, 25620, 25680, 25740, 25800, 25860, 25920, 25980, 26040, 26100, 26160, 26220, 26280, 26340, 26400, 26460, 26520, 26580, 26640, 26700, 26760, 26820, 26880, 26940, 27000, 27060, 27120, 27180, 27240, 27300, 27360, 27420, 27480, 27540, 27600, 27660, 27720, 27780, 27840, 27900, 27960, 28020, 28080, 28140, 28200, 28260, 28320, 28380, 28440, 28500, 28560, 28620, 28680, 28740, 28800, 28860, 28920, 28980, 29040, 29100, 29160, 29220, 29280, 29340, 29400, 29460, 29520, 29580, 29640, 29700, 29760, 29820, 29880, 29940, 30000, 30060, 30120, 30180, 30240, 30300, 30360, 30420, 30480, 30540, 30600, 30660, 30720, 30780, 30840, 30900, 30960, 31020, 31080, 31140, 31200, 31260, 31320, 31380, 31440, 31500, 31560, 31620, 31680, 31740, 31800, 31860, 31920, 31980, 32040, 32100, 32160, 32220, 32280, 32340, 32400, 32460, 32520, 32580, 32640, 32700, 32760, 32820, 32880, 32940, 33000, 33060, 33120, 33180, 33240, 33300, 33360, 33420, 33480, 33540, 33600, 33660, 33720, 33780, 33840, 33900, 33960, 34020, 34080, 34140, 34200, 34260, 34320, 34380, 34440, 34500, 34560, 34620, 34680, 34740, 34800, 34860, 34920, 34980, 35040, 35100, 35160, 35220, 35280, 35340, 35400, 35460, 35520, 35580, 35640, 35700, 35760, 35820, 35880, 35940, 36000, 36060, 36120, 36180, 36240, 36300, 36360, 36420, 36480, 36540, 36600, 36660, 36720, 36780, 36840, 36900, 36960, 37020, 37080, 37140, 37200, 37260, 37320, 37380, 37440, 37500, 37560, 37620, 37680, 37740, 37800, 37860, 37920, 37980, 38040, 38100, 38160, 38220, 38280, 38340, 38400, 38460, 38520, 38580, 38640, 38700, 38760, 38820, 38880, 38940, 39000, 39060, 39120, 39180, 39240, 39300, 39360, 39420, 39480, 39540, 39600, 39660, 39720, 39780, 39840, 39900, 39960, 40020, 40080, 40140, 40200, 40260, 40320, 40380, 40440, 40500, 40560, 40620, 40680, 40740, 40800, 40860, 40920, 40980, 41040, 41100, 41160, 41220, 41280, 41340, 41400, 41460, 41520, 41580, 41640, 41700, 41760, 41820, 41880, 41940, 42000, 42060, 42120, 42180, 42240, 42300, 42360, 42420, 42480, 42540, 42600, 42660, 42720, 42780, 42840, 42900, 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51540, 51600, 51660, 51720, 51780, 51840, 51900, 51960, 52020, 52080, 52140, 52200, 52260, 52320, 52380, 52440, 52500, 52560, 52620, 52680, 52740, 52800, 52860, 52920, 52980, 53040, 53100, 53160, 53220, 53280, 53340, 53400, 53460, 53520, 53580, 53640, 53700, 53760, 53820, 53880, 53940, 54000, 54060, 54120, 54180, 54240, 54300, 54360, 54420, 54480, 54540, 54600, 54660, 54720, 54780, 54840, 54900, 54960, 55020, 55080, 55140, 55200, 55260, 55320, 55380, 55440, 55500, 55560, 55620, 55680, 55740, 55800, 55860, 55920, 55980, 56040, 56100, 56160, 56220, 56280, 56340, 56400, 56460, 56520, 56580, 56640, 56700, 56760, 56820, 56880, 56940, 57000, 57060, 57120, 57180, 57240, 57300, 57360, 57420, 57480, 57540, 57600, 57660, 57720, 57780, 57840, 57900, 57960, 58020, 58080, 58140, 58200, 58260, 58320, 58380, 58440, 58500, 58560, 58620, 58680, 58740, 58800, 58860, 58920, 58980, 59040, 59100, 59160, 59220, 59280, 59340, 59400, 59460, 59520, 59580, 59640, 59700, 59760, 59820, 59880, 59940, 60000, 60060, 60120, 60180, 60240, 60300, 60360, 60420, 60480, 60540, 60600, 60660, 60720, 60780, 60840, 60900, 60960, 61020, 61080, 61140, 61200, 61260, 61320, 61380, 61440, 61500, 61560, 61620, 61680, 61740, 61800, 61860, 61920, 61980, 62040, 62100, 62160, 62220, 62280, 62340, 62400, 62460, 62520, 62580, 62640, 62700, 62760, 62820, 62880, 62940, 63000, 63060, 63120, 63180, 63240, 63300, 63360, 63420, 63480, 63540, 63600, 63660, 63720, 63780, 63840, 63900, 63960, 64020, 64080, 64140, 64200, 64260, 64320, 64380, 64440, 64500, 64560, 64620, 64680, 64740, 64800, 64860, 64920, 64980, 65040, 65100, 65160, 65220, 65280, 65340, 65400, 65460, 65520, 65580, 65640, 65700, 65760, 65820, 65880, 65940, 66000, 66060, 66120, 66180, 66240, 66300, 66360, 66420, 66480, 66540, 66600, 66660, 66720, 66780, 66840, 66900, 66960, 67020, 67080, 67140, 67200, 67260, 67320, 67380, 67440, 67500, 67560, 67620, 67680, 67740, 67800, 67860, 67920, 67980, 68040, 68100, 68160, 68220, 68280, 68340, 68400, 68460, 68520, 68580, 68640, 68700, 68760