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CANADIAN CONTRACT RECORD

A Weekly Journal of Advance Information and Public Works.

ITS PURPOSE. TO SUPPLY TO CONTRACTORS ADVANCE INFORMATION RESPECTING CONTRACTS OPEN TO TENDER, AND TO ARCHITECTS, ENGINEERS, MUNICIPAL AND OTHER CORPORATIONS, A DIRECT MEDIUM OF COMMUNICATION WITH CONTRACTORS.

ITS MERIT: ECONOMICAL AND EFFECTIVE SERVICE.

Vol. 2.

Toronto and Montreal, Canada, November 7, 1891.

No. 39

THE CANADIAN CONTRACT RECORD,

A Weekly Journal of Advance Information and Public Works,

PUBLISHED EVERY SATURDAY

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

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C. H. MORTIMER, Publisher,

14 KING ST. WEST, - TORONTO, CANADA.
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 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."

The publisher desires to ensure the regular and prompt delivery of this Journal to every subscriber, and requests that any cause of complaint in this particular be reported at once to the office of publication. Subscribers who may change their address should also give prompt notice of same, and in doing so, should give both old and new address.

NOTICE TO BUILDERS.

Tenders will be received by the undersigned up to Monday, the 9th inst., for the purchase of seven unfinished brick-cased dwelling houses on the east side of Bartlett avenue, Toronto, being houses numbered from 107 to 119. These properties will be sold at a bargain. Highest tender not necessarily accepted.

Further particulars given by
KINGSTONE, WOOD & SYMONS,
18 King St. West, Toronto.
Toronto, 3rd Nov., 1891.

The woods chiefly used by the Greeks and Romans were the cedar, ash, oak, yew, lotus, citron and ebony.

To measure plumber's work, says Lockwood's "Builders' Price Book," take the lead as cut and laid, by the superficial foot; the quantity of feet multiplied by the weight of the lead per foot, and divided by 112, will give the required weight.

CONTRACTS OPEN.

ENTERPRISE, ONT.—A Methodist Church is to be erected here.

BRANTFORD, ONT.—The Bain Waggon Works are to be enlarged.

WALKERTON, ONT.—Mrs. Hartley has decided to erect a dwelling.

SHERBROOKE, QUE.—The G. T. R. will build a branch line to Entismines.

HARGNAIS, MAN.—Messrs. Crowe intend building a grain warehouse.

EDGAR, ONT.—The Michigan Central Railroad has decided to build a station here.

YOUNG'S POINT, ONT.—Mr. C. Young is contemplating the erection of a new grist mill.

AMHERSTBURG, ONT.—The ratepayers have carried the by-law to purchase an electric light plant.

SARNIA, ONT.—A by-law will be submitted to the ratepayers to raise \$15,000 to extend the water works.

HUNTSVILLE, ONT.—A R.C. Church, to cost about \$2,000, is to be erected here, a site having been purchased.

WINNIPEG, MAN.—The Government will rebuild the Deaf and Dumb Institute recently destroyed by fire.

KINGSTON, ONT.—A movement has been commenced for the erection of an Episcopal church on Grennell Island Park.

DESERONTO, ONT.—A company is being organized for the erection of a creamery and cheese factory. Mr. John McCulloch is at its head.

DUBY, N. S.—The Board of School Commissioners will receive tenders until the 9th inst. for heating the new public school building with hot air.

CARLETON PLACE, ONT.—A by-law was carried by the ratepayers on Monday to borrow \$3,000 to purchase a site for a town hall and fire station.

NEW WESTMINSTER, B. C.—The Dominion Government is asking for tenders for the construction of a line of mattresses at the mouth of the river.

TORONTO JUNCTION, ONT.—The erection of three solid brick houses on Quebec avenue are about to be commenced by Messrs. Phillips & Edwards.

OWEN SOUND, ONT.—The ratepayers have carried the by law granting a loan of \$15,000 to J. G. & A. B. Hay for the establishment of a chair factory.

PETERBORO, ONT.—The Street Railway Committee of the City Council have recommended that the Edison Company be given the franchise for an electric street railway.

THESSALON, ONT.—A by-law was passed by the township of Thessalon on the 3rd inst., appropriating \$1,400 for the erection of a school house in school section No. 1.

GLENCOE, ONT.—The congregation of St. John's church have decided to erect a new church. The building is to have a seating capacity of 200, and will cost between \$4,000 and \$5,000.

VICTORIA, B. C.—A bill will shortly be submitted to Parliament providing for a loan of

\$50,000. The money is to be employed in the construction of railways and other productive works.

AMIGARI, ONT. E. Coulthurst will receive tenders until the 10th inst. for piping and fitting the Oddfellows' Hall, International Bridge, with the object of lighting the building with natural gas.

TAVISTOCK, ONT.—J. G. Field, chairman of building committee, invites tenders until 1st Dec. for the erection of a brick Presbyterian Church. Plans may be seen and all information obtained from Dr. Steele, Tavistock.

VANCOUVER, B. C.—Mr. J. Whitty is about to construct an addition of two storeys to the Waverley Hotel. The ground is being prepared for the new C. P. R. station. The building will be four stories high, with granite foundations and brick walls.

BRANDON, MAN.—John C. Kerr, city clerk, will receive tenders until 12 o'clock on the 16th inst. for heating the city hall and civic offices. Plans and specifications may be seen at the office of Thos. Worswick, consulting engineer, care John Inglis & Sons, Toronto.

HALIFAX, N. S.—The Nova Scotia Telephone Company are issuing bonds to the extent of \$35,000 for the erection of a new fireproof building on Salter street.—The Commissioner of Public Works will receive tenders until the 10th inst. for additions to the Victoria General Hospital, Henry Busch, architect.

OTTAWA, ONT.—A company is applying for incorporation for the purpose of developing mines, etc., in the vicinity of the Rocky Mountains, and also for building smelting works in the Northwest.—The Dominion Government is asking tenders for the construction of a telegraph line between Nanaimo and Comox, B. C., a distance of 65 miles.

HAMILTON, ONT.—A permit has been granted to George Jones for two 2-storey brick dwellings on Markland street, between Caroline and Hess streets, cost \$3,000.—Engineer Barrow is preparing a plan of the proposed water main extension under the G. T. R. tracks.—Prof. Hand has purchased a site on Hamilton road and will erect a building to be used as a branch of his fireworks factory.

MONTREAL, QUE.—The Protestant School Commissioners have decided to alter the specifications and call for new tenders for wiring the High School building for electric light.—The Grand Trunk Railway Company have commenced the erection of their new station at Montreal Junction. Over \$17,000 has been subscribed towards the erection of a monument to the late Sir John A. Macdonald. C. Clift, architect, is calling for tenders for the erection of a curling rink on St. Urbain street.—The Taylor Decarbonized Iron and Manufacturing Co. is applying for incorporation, having in view the erection of furnaces and machine shops. The applicants are: F. D. Taylor, mining engineer; F. K. Workman, merchant; Thos. Pringle, millwright, W. T. Costigan, merchant; and John Greer, insurance agent, all of this city.—Plans have been prepared for the extension of Sherbrooke street from Papineau avenue to the city limits east. It is proposed to bridge the C. P. R. tracks.

TORONTO, ONT.—Mr. Wm. Calvert, of McCaul St., has purchased a lot and is having plans prepared for a residence which he proposes to erect in Deer Park.—Mr. Wm. Ince, of the firm of Perkins, Ince & Co., wholesale grocers, proposes to erect a residence on Huron St., to cost about \$20,000. Messrs. Darling, Curry, Sprout & Pearson, architects, are preparing the plans.—It is stated that Mr. Robert Cook has determined on the erection of a commodious skating and curling rink in the northern part of the city.—The Separate School Board have requested the School Management Committee to provide additional accommodation for St. Mary's school.—The time for receiving tenders for the reclamation of Ashbridge's Bay has been extended to the 1st of December.—The O'Keefe Brewing Company intend enlarging their premises on the corner of Gould and Victoria streets.—The town council of North Toronto will construct a sidewalk on the east side of Yonge street, at a cost of \$1,000.—The City Engineer has recommended the extension of the Simcoe street sewer into deep water in the bay, by laying 120 feet of steel pipe.—A joint stock company is being formed to explore for natural gas at Mimico. They will commence in a few days to sink a well 1,300 feet deep, at a cost of \$7,000.—The annual report of the Infants' Home and Infirmary contains a recommendation that an addition be erected to the present building, at an estimated cost of \$4,000.—At the next meeting of the Public School Board a motion will be presented requesting the Sites and Building Committee to have plans prepared for a twelve-room school on Winchester street.—Mr. T. P. Whitlam, 56 First avenue, wants tenders for plastering and plumbing of two houses on Cawthra Square.—Messrs. Knox & Elliott, architects, will receive tenders until 10 a.m. on Tuesday, 10th inst., for the plumbing and steam fitting required for the Confederation Life Association buildings.—Tenders are wanted at 344 Parliament street for excavating.—Tenders are invited at 111 Ossington avenue for plumbing, slating, gas fitting, tinsmithing and painting.—Building permits have been granted as follows: Marshall & Pinkerton, pr. s. d. 2-storey and attic bk. dwellings, w. side Brunswick Ave., 600 feet n. of Bloor St., cost \$6,000; Geo. Burry, det. 2-storey and attic bk. dwellings, n. side Euclid Ave., s. of Lennox St., cost \$4,500; H. & E. Hudson, two pr. s. d. 2-storey and attic bk. dwellings, w. side Euclid Ave., 40 feet n. of Lennox St., cost \$14,000; Dr. Cassidy, alterations n. e. cor. Church & Queen Sts., cost \$4,000; J. M. Stares & Co., 26 Toronto St., three att. 3-storey bk. stores, 143-5 Victoria St., cost \$5,500; G. Eldridge, 3-storey bk. store and dwelling, and two att. 3-storey bk. dwellings, n. w. cor. Britain and Sherbourne Sts., cost \$9,600.

FIRES.

The two-story brick building of John B'os, merchant tailor, Mount Forest, Ont., was burned on the 2nd inst. Loss, \$4,000; insurance, \$3,500.—The Western Hotel stable, Sarnia, Ont., was burned recently. Loss, \$2,000.—Mr. John Frederick's large flouring mill at Holloway, Ont., was burned on the 3rd inst. Loss, \$22,000.—A brick residence at Smith's Falls, Ont., owned by Mr. Haley, was burned on October 30. Loss, \$4,000.—A fire at Kingsville, Ont., on the 2nd inst., destroyed McKay's hardware store, and a number of other frame buildings. Loss, \$12,000.—The saw mill, planing mill and sash and door factory belonging to L. C. Dick, at Fordwick, Ont., were burned on the 3rd inst. Loss, \$3,500; insurance, \$2,200.—Fire at Port Dover, Ont., on the 3rd inst. destroyed the Eric Hotel and the residence of J. Johnson.—On the 1st inst., the Hochelaga Cotton Mills at Montreal were totally destroyed by fire. Loss, \$30,000.

CONTRACTS AWARDED.

GUELPH, ONT.—The Council have accepted the tender of the Guelph Gas Co. for lighting the streets by electric light at 2½ cents per light per night for 300 nights in the year.

LONDON, ONT.—Contracts have been awarded as follows for the erection of St. Joseph Hospital: Masonry and brick work, Flory & Co.; cut stone, J. Mathewson; carpentering, Wm. Tyler.

WOODSTOCK, ONT.—The House of Refuge Committee of the City Council have accepted the tender of Mr. Thos. McClay for the erection of the new building, at the price of \$11,977. Work will be commenced in the spring.

TORONTO, ONT.—The Toronto Athletic Club Association have accepted the tender of Mr. Walter Page for the stone work of their new building.—The City Council have accepted the tender of the Constructing and Paving Company of Toronto for covering the present Toronto St. pavement with asphalt.—Major Stuart & Co., of Ottawa, have been given the contract for the new Toronto drill hall. Their price is \$250,000. Construction will begin at once.

MONTREAL, QUE.—The Building Committee of the Board of Trade have accepted the tender of Messrs. Forde & Casey for the erection of their new building. The contract price is \$354,000. Sub-contracts have been awarded as follows: Iron work and elevators, Lomer & Rose; stone work, H. Hutchinson; brick work, A. Cowan; plumbing and heating, Charles Garth & Co.; marble work, Robert Reid; roofing, G. W. Reed; painting and glazing, Castle & Son; plastering, W. J. Cooke; lighting and apparatus, Edison Electric Light Company.—A. F. Dunlop, architect, has awarded the contract for seven houses on Hutchison street for Mr. J. D. Adams, as follows: Mason, J. Lewis; bricklayer, A. Wand; carpenter, Labrecque & Mercure; plasterer, Thos. Phillips; painter, D. Couchon; plumber, McCrae & Watson; roofer, G. W. Reid.—The same architect has awarded the following contracts for a residence for W. Clendenning, Jr., on Dorchester street: Mason, W. Morrison; carpenter, H. Kneen; other trades not let yet.

USEFUL HINTS.

Some interesting experiments were recently made in the famous granite quarries of Quincy, Mass., with an Edison electric percussion drill designed for quarry work. The generator was placed on the edge of the quarry, 350 feet from where the drill was to work and 100 feet above it, and holds one and one-half inches diameter were drilled two and three-fourth inches deep per minute.

In excavating at Kouyundjik and Nimroud, Layard found a number of drains covered over with pointed and elliptical arches, each layer or band of stones being built, not in a vertical plane, but slanting, so that it rested on that immediately beneath it. This method of building renders a timber center or scaffolding to support the stones until the keystone is in position unnecessary, and experiments have been recently made with it at Columbia College, New York. Its simplicity is recommended to builders and civil engineers having long stretches of vaulting to construct. There are good illustrations of the plan in Perrot and Chipiez's "History of Chaldea and Assyria."

At a recent meeting of the Civil Engineers' Club, of Cleveland, Ohio, Mr. James Ritchie read a paper describing a design for a built plate girder to span a 60-foot store front and carry the floors above of a heavily loaded building. The depth of the girder is the height of the second storey and has openings in the web so that ordinary windows are not interfered with. The main difficulty is the transmission of shear on account of the web being interrupted by the window

openings. This is overcome by forming the bottom flange partly of a 42" plate securely riveted at the pilasters so that the load concentrated there is transmitted through the rivets and the 42" plate as if the latter were the full depth of web.—*American Engineer.*

Fortifications built in 24 ft. of water, and covering about 16 acres, call for some interesting work at "Middelgrund," near Copenhagen. These works are about 3 miles from the coast and include breakwaters on the north covering an arc half a mile long and rising 8 ft. above the water. To form the foundation and to protect the base of the walls 240,000 cu. yds. of stone were required. On this stone, timber caissons 45 ft. long were floated into position and then sunk by filling with stone. On these caissons concrete blocks were set, extending from 3 ft. below low water to 1½ ft. above, and on this a granite wall 12 ft. thick at the base. The pier at the south end is built of concrete blocks, 18 ft. thick, and is protected on the outside by rip-rap. A basin 60 ft. wide and 9 ft. deep for torpedo boats has been formed inside. The forts proper cover 9 acres, and the material for filling has been obtained by dredging the south entrance to Copenhagen. The guns, 17 in number, will be elevated 45 ft. above the water and be protected by armor shields. Behind the battery, earthworks rise to a height of 70 ft. above sea level and a lighthouse 20 ft. high tops this.—*Engineering News.*

A new application of a combined construction of concrete and iron has been made in Germany, where a considerable number of bridges have been built, consisting of arches of concrete, in which a number of iron wires or iron rods have been imbedded, near each surface. The theory of arches shows that such structures generally fail by the opening of the joints, either at the extrados or the intrados, according to the form of arch and the manner of loading. It is found that the use of a good cement in the joints aids powerfully in preventing the rupture of the arch, and it is a natural inference that the reinforcement of the resistance at the inner and outer surface by the tensile strength of iron would still further increase the security of the whole. Experiment has shown that this theory is correct; and an arch of concrete, formed as heavily as possible to exclude the line of pressure in the middle third of its thickness, and containing, near the intrados and the extrados, a network of strong wire, is found to have a surprising resistance. The most important bridge of the sort, as we learn from *Le Genie Civil*, seems to be a foot-bridge over a river at Bremen; but the Southern Railway of Austria has recently constructed, with permission of the Government, several highway bridges in the same manner. As nothing in the way of materials is needed but the centering, the wire, and sufficient Portland cement, sand and gravel, the construction is easy and cheap. In the German examples, cross bars were combined with longitudinal wires, to form a sort of gridiron, but, in practice, it seems as if a wire netting could be made, which would be cheaper, more easily put in place, and equally good. Obviously, the same construction might be adapted to making floor arches, or vaulting spaces of any sort; and architects will do well to keep it in mind.—*American Architect.*

VITRIFIED STREET PAVING BRICKS MUST POSSESS TOUGHNESS.

There are some vitrified brick that are so brittle that when the wheels of loaded vehicles come in contact with them they wear off very rapidly.

Toughness means the tempering which is given to the clay while in the firing or burning process, whereby the life, grain and tenacity of the brick are not destroyed.

The fact that a brick is vitrified does not of itself make a good paver, as there are a large number of clays which will burn to a state of vitrification and yet make into bricks not suitable for street paving because they lack the necessary toughness.

STEEL CHIMNEYS.

Steel chimneys are being erected in connection with some of Chicago's tall buildings. The Fair Building has at present the tallest under construction. The chimney, when completed, will be 250 feet high, being considerably higher than any other in the city, the highest at the present time being said to be the one at the Gottfried Brewing Company's plant, which is 175 feet.

A SHORT SIGHTED POLICY.

Members of the Plasterers' Union in Philadelphia refuse to work with the boy graduates of the Philadelphia builders' training school. The incident is one of the many where the trades unions have gone beyond their legitimate field by a short sighted policy of preventing American youths from learning and practising a useful trade.

gent and highly trained skill, which, ultimately, would strengthen the unions themselves.

Our American trades unions are afflicted with large moieties of half trained labor, which the unions decree shall receive the same uniform price as the best trained professional. It is not only grossly unjust to the employer, but equally unjust to the best workman, and the tendency is to lower the status of the whole trade to the level of inefficiency of the poorest.

TO BUILDERS.

ALEX. MACLEAN, 9 Victoria Street, Toronto,

Offers to builders, on advantageous terms, lots on Elizabeth St., Westmoreland Ave., Spencer Ave., Shaw St., Wellesley St. and Spadina road.

To Builders, Investors and Speculators.

Offers are invited to purchase that magnificent business site at the intersection of Dundas and Arthur streets and Ossington Ave. The lot has a frontage of 100 feet on Dundas and 120 feet on Arthur St., and is undoubtedly the best business corner west of Yonge St.

J. A. NESBITT,

ESTATE AND FINANCIAL AGENT AND ARBITRATOR.

Office: 9 Adelaide St. East, - TORONTO. Office Telephone 1631. House Telephone 3692. Money advanced on mortgage. Fire insurance at lowest rates. Values carefully estimated.

Prices of Building Materials.

LUMBER.

CAR OR CARGO LOTS.

Table with 2 columns: Description of lumber (e.g., 1 1/2 inch and thicker clear picks, Am. ins.) and Price per unit (e.g., \$30 00 @ 32 00).

Metallic Roofing Co. of Canada :

Table with 2 columns: Description of roofing materials (e.g., Eastlake steel shingles (galvanized)) and Price per square (e.g., \$5 25 to \$5 75).

Canada Galvanizing & Steel Roofing Co.

Table with 2 columns: Description of roofing materials (e.g., Corrugated Iron, galvanized, 26 W.G.) and Price per unit (e.g., 5 cts, 5 1/2).

YARD QUOTATIONS.

Table with 2 columns: Description of yard materials (e.g., Mill cull boards and scantling, Shipping cull boards) and Price per unit (e.g., 10 00, 13 00).

B. M.

Table with 2 columns: Description of materials (e.g., 1 1/2 inch flooring, dressed, F. M., 1 1/2 inch flooring rough, B. M.) and Price per unit (e.g., 28 00, 31 00).

BRICK - B. M.

Table with 2 columns: Description of bricks (e.g., Common Walling, Good Facing) and Price per unit (e.g., \$7 50, 9 00).

Pressed Brick

Table with 2 columns: Description of pressed bricks (e.g., Plain brick, f. o. b. at Milton) and Price per unit (e.g., \$18 00, 14 00).

Stone.

Table with 2 columns: Description of stone (e.g., Common Rubble, Large flat) and Price per unit (e.g., 14 00, 18 00).

Slate: Roofing (7 1/2 square).

Table with 2 columns: Description of slate (e.g., red, purple, untinting green) and Price per unit (e.g., 18 00, 9 00).

Sand:

Table with 2 columns: Description of sand (e.g., Per Load of 1 1/2 Cubic Yards) and Price per unit (e.g., 1 25).

PAINTS. (1/4 oil, 3/4 lb.)

Table with 2 columns: Description of paints (e.g., White lead, zinc, Red lead, Eng.) and Price per unit (e.g., 6 25, 6 50).

CEMENT, LIME, etc.

Table with 2 columns: Description of cement and lime (e.g., Lime, Per Barrel of 2 bushels, Plaster, Calcined) and Price per unit (e.g., 40, 55).

HARDWARE.

Table with 2 columns: Description of hardware (e.g., Cut Nails: American Pattern, Canadian Pattern) and Price per unit (e.g., 3 00, 3 10).

MONTREAL PRICES.

Lumber, Etc.

Ash, 2 to 4 in, M.	\$13 00	18 00
Birch, 2 to 4 inch, M.	15 00	25 00
Basswood	12 00	20 00
Walnut, per M.	35 00	100 00
Butternut, per M.	20 00	40 00
Cedar, flat.	20 04	00 06
Cherry, per M.	60 00	80 00
Elm, Soft, 1st.	15 00	17 00
Elm, Rock.	25 00	30 00
Maple, hard, M.	20 00	21 00
Maple, Soft.	16 00	18 00
Oak, M.	40 00	100 00
Pine, select, M.	35 00	40 00
Pine, 2nd quality, M.	22 00	25 00
Shipping Culls.	13 00	16 00
Mill Culls.	8 00	10 00
Lath, M.	1 50	1 90
Spruce, 1 to 2 inch, M.	10 00	12 00
Spruce Culls.	4 50	6 00
Shingles, 1st quality.	1 50	3 00
and "	1 25	1 50

Cement, etc.

Portland Cement, per barrel.	\$ 2 70	3 00
Roman "	2 70	3 00
Fire Bricks, per M.	20 00	30 00

Cut Nails:

Hot-cut Am. or Can. pattern, 3 inch and above.	2 75	\$2 85
Hot-cut Am. or Can. pattern, 2 1/2 inch and above.	3 00	3 25
Hot-Cut Am. or Can. pattern, 2 1/4 and 2 inch.	3 25	4 20
Am. pattern, 1 1/2 and 1 3/4 inch hot-cut 1 1/2 inch.	3 50	5 60
Can. Pattern, cold-cut, 1 1/4 and 1 1/2 inch.	3 25	4 45
Finishing Nails, per 100 lb. keg, 1 1/4 and 1 1/2 inch.	4 50	
Finishing Nails, per 100 lb. keg, 1 1/2 to 1 3/4 inch.	3 85	
Finishing Nails, per 100 lb. keg, 2 inch and up.	3 50	

Paints, etc.

White Lead, pure, 25 to 100 lb. kegs.	6 00	7 00
" No. 1.	5 25	5 50
" No. 2.	4 50	5 00
" No. 3.	4 00	4 50
dry.	5 25	5 75
Venetian Red, English.	1 50	1 75
Yellow Ochre, French.	1 25	3 00
Whiting, London, washed.	0 65	0 75
Paris, "	1 15	1 25

Oils:

Linseed, raw.	0 63	0 55
boiled.	1 16	0 58
Olive, pure.	1 10	1 15
" machinery.	95	1 05
" extra, qt., per case.	3 00	3 25
" 1/2 pt., "	2 75	3 10
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Maguire, William.	v
McNally & Co.	iv
Rathbun Co.	viii
Rowe, Geo.	ii

BUILDING STONE DEALERS.

Adamson, J. S.	I
Brodie, James.	II
Brodigan & Co., J.	ii
Morrison & Co., T. A.	iv
Rathbun Co.	viii

BUILDERS' HARDWARE.

Aikenhead & Crombie.	xiv
Rice Lewis & Son.	IV
Samuel, Benjamin & Co., M. & L.	ix
Vokes, M. & J. L.	ix

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Adamant Mfg. Co.	viii
Adamson, Jos.	I
McNally & Co., Wm.	iv
Maguire, William.	v
McRae & Co.	iv
Morrison & Co., T. A.	iv
Rathbun Co.	viii
Terry, Edward.	iv
Wright & Sons, C. B.	ii

CHURCH AND SCHOOL FURNITURE.

Canadian Office & School Furniture Co.	x
Office Specialty Co.	xiv
The Globe Furniture Co.	IV

CHIMNEY TOPPING.

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Dick, James, sr.	vi
Dagenals, J Benjamin.	vi
Hood & Co., C.	II
Hancock, Thomas.	II
Hamilton, Edward.	vi
Lyll, Peter.	iii
Mortimore, Geo. T.	II
Murison & Burge.	vi
Roberts, William.	II
Thomas & Howell.	II
Turner & Co., G. W.	vi
Webb & Claxton.	II

CUT STONE CONTRACTORS.

Adamson, Jos.	I
Curtis & Rowe.	II
Hibbard, H. & T.	II
Isaac Brothers.	II
Oakley & Holmes.	II

ELECTRIC LIGHTING.

Royal Electric Co.	I
Toronto Electrical Works.	ix

DERRICK BUILDERS.

Rowe, Geo.	ii
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ELEVATORS.

Ives & Co., H. R.	IV
Leitch & Turnbull.	I

ENGRAVERS.

Canadian Photo-Eng Bureau.	xiii
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FIRE BRICK AND CLAY.

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Colman-Hamilton Co.	iii
Wright & Sons, C. B.	ix

GALVANIZED IRON WORKS.

Baird Bros.	II
Douglas & Plunkett.	II
Hedges & Lankin.	II
Ormsby, A. B.	xvi
Tucker & Dillon.	II

GRATES AND TILES.

Holbrook & Mollington.	xii
Rice Lewis & Son.	IV
Vokes, M. & J. L.	ix

HEATING.

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Garth & Co.	xv
Gurney Co., E. & C.	xi
Howard Furnace Co.	xii
Ives & Co., H. R.	IV
King & Son, Warden.	xvi
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Miller Bros. & Toms.	xii
Ormsby, A. B.	xvi
Pease Furnace Co.	xiv
Toronto Radiator Mfg Co.	xi
Waterous Engine Works Co.	x

IRON FENCES.

Ives & Co., H. R.	IV
Toronto Drop Forge Co.	ii

IRON PIPE.

Ives & Co., H. R.	IV
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LIME AND STONE.

Wright & Sons, C. B.	ix
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LEGAL.

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MANTELS AND OVERMANTELS.

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Hynes Terra Cotta & Brick Co.	viii
Wright, Jas.	III

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Gilmor & Casey.	II
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Toronto Plate Glass Importing Co.	vii

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Bennett & Wright.	II
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Garth & Co.	xv
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Sanitas Mfg. Co.	v
St. Johns Stone Chinaware Co.	iii

ROOFING MATERIALS.

Canada Galvanizing & Steel Roofing Co.	
Merchant & Co.	x
Metallie Roofing Co.	ii

ROOFERS.

Baird Bros.	v
Duthie & Sons, G.	II
Forbes, Duncan.	II
Metallie Roofing Co.	ii
Hutson, W. D.	II
Ormsby, A. B.	xii
Rennie & Son, R.	II
Saulter, Wm.	II
Shales, John H.	II
Stewart, W. T.	II
Toronto Roofing Co.	II
Williams & Co., H.	II

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McNally & Co., W.	vii
Maguire, William.	v
McRae & Co.	iv
Terry, Edward.	iv
The Ontario Terra Cotta Pressed Brick & Sewer Pipe Co.	iii
The Colman-Hamilton Co.	iii
Wright & Sons, C. B.	iv

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Booth & Son.	v
Sanitas Mfg. Co.	v
Ives & Co., H. R.	IV
Malcolm, W. B.	i
St. Johns Stone Chinaware Co.	iii

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STAINED AND DECORATIVE GLASS.

Castle & Son.	v
Dominion Stained Glass Co.	iv
Elliott & Son.	I
Faircloth Bros.	
Grimson, G. & J. E.	iv
Longhurst & Co., H.	iv
Lewis, R.	v
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The Hynes Terra Cotta & Brick Co.	viii
Toronto Pressed Brick & Terra Cotta Co.	iii
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Rathbun Co.	viii
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Gillett & Johnston.	ii
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WALL PAPER AND CEILING DECORATIONS.

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WALL PLASTER.

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Boynon Wall Plaster Co.	vi
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