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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, March 28, 1891.

No. 7

## 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,

24 KING ST. WEST, - TORONTO, CANADA.  
Telephone 2362.

62 Temple Building, - Montreal.  
Bell Telephone 279.

Information from any part of the Dominion regarding contracts open to tender, sent exclusively to this journal for publication, and not elsewhere published, will be liberally paid for.

### 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. Ferrault, 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 of the "Canadian Contract Record" 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.

## TENDERS WANTED.

Tenders will be received by the undersigned until SATURDAY, APRIL 27th, INST., for the several works required in the erection of a Residence to be erected on Sussex Ave., Toronto.

The lowest or any tender will not necessarily be accepted.

E. B. JARVIS, Architect,  
Traders' Bank Chambers, 63 Yonge St.

## TO BUILDERS.

Tenders will be received by the undersigned till 5 p.m. on Thursday, April 2nd, for the erection of Additions to a pair of Houses on Jarvis Street.

LANGLEY & BURKE, Architects,  
Canada Life Building.

## TO BUILDERS.

Tenders will be received by Malcolm C. Munro, Esq., Kilmartin P.O., until April 18th, for Brick and Stone Church. Plans may be seen at above address after April 1st.

FRED. HENRY, Architect,  
Masonic Temple, London.

## USEFUL HINTS.

An expert in such matters says he has found the following the best thing he has tried for making joints against fluid pressure:

- 5 pounds Paris white.
- 5 pounds yellow ochre.
- 10 pounds litharge.
- 5 pounds red lead.
- 4 pounds black oxide manganese.

The whole is to be well mixed, and a little asbestos and boiled oil added. This, he says, soon becomes nearly as hard as the iron itself.

As of interest in the matter of anti-fouling coatings for submerged iron and steel surfaces, it may be stated that an experiment is now being tried by the Government at the Brooklyn, N. Y., navy yard, with two plates of iron and steel covered with a species of Japanese lacquer. The plates are each four feet square and will remain submerged for three months. While primarily intended to test the merits of the lacquer for the protection of submerged portions of hulls of vessels, the trial obviously has a wider range of interest. — *Engineering Record.*

To prevent the paint on iron or wood from scaling off when exposed to the weather, first thoroughly wash the parts to be painted and then brush over the surface with hot linseed oil. By following this method, especially with iron articles, no scaling of the paint will occur. In cases where the articles to be painted are small and can be readily heated, it is better to heat them and plunge them into the oil. The thin liquid oil when hot enters into the pores of the metal, absorbs the moisture, and the paint then applied so firmly adheres that frost, rain or air cannot effect a separation.

A FRENCH METHOD OF GIVING COHESION TO SAND.—The want of cohesion in that most useful material, sand, has often been observed to limit its utility, especially when it is employed in making moulds, &c. This difficulty can be got over by heating it with a mixture of coal-tar and asphalt, which causes the gran to agglutinate, and at the same time does not diminish the power of resisting high temperatures. The tar and asphalt are mixed together in any convenient proportions, and then heated in order to reduce them to a homogeneous fluid condition. While still hot this mixture is poured into the sand, which, in a short time, without further trouble, becomes thoroughly im-

pregnated with it. The simplicity and inexpensiveness of this process is sure to recommend it to the notice of many English manufacturers who have experienced difficulties through the natural want of cohesiveness in sand.

The *Locomotive* directs attention to a very dangerous practice in fitting steam gauges attached to house-heating boilers. It says: We often find steam gauges so arranged that their indications are necessarily a number of pounds in error, owing to the static pressure of water of condensation in the connections. While error does not ordinarily exceed two or three pounds, it sometimes is far greater than this, and becomes of grave importance, especially in low-pressure systems. We met with a case recently in which an ordinary heating boiler was in the basement, and the gauge was in the owner's room on the third floor, fully twenty-five feet above. The piping was so arranged that it was an easy matter for it to fill up with water condensed from the steam, so that the indication of the gauge might be as much as ten pounds less than the actual pressure in the boiler. Such a gauge, it need hardly be said, is no better than none at all. In fact, it becomes a positive source of danger.

At a recent meeting of the members of the East of Scotland Engineering Association, Mr. A. R. Bennett read a paper on "Lightning Conductors." He showed that a good deal of uncertainty as to the action of lightning conductors prevailed among those who, not being professed electricians, were called upon to erect lightning rods. Having given the physical explanation of lightning, and described by analogy the functions of a lightning conductor, he finished by giving some general recommendations for the prevention of lightning shocks to buildings. These were that buildings should have at least one metal point in as perfect connection with the earth as possible, preferably by several paths, raised above all stone, wood, or other non-conducting portions; that all pipes, bell-wires, and other masses of metal in the house, should be connected with the conductor, and that the conductor, should have as good an "earth" as possible. If such precautions were general, he said, we would hear less of mysterious fires than we do now, and one thing had been brought out again and again with regard to lightning conductors—that ordinary workmen were quite untrustworthy in fitting them up.

**CONTRACTS OPEN.**

**CALGARY, N.W.T.**—A 4-storey addition is to be built at once to the Alberta Hotel.

**LEAMINGTON, ONT.**—The Town Clerk will receive tenders until April 10th, for the construction of a system of water works.

**NEW WESTMINSTER, B. C.**—Plans have been prepared by Mr. G. W. Grant for an expensive residence for Mr. Arthur Rand.

**ST. THOMAS, ONT.**—Tenders are invited by Mr. Jas. A. Bell, City Engineer, until April 6th, for lighting the streets with gas and electric light.

**WEST TORONTO JUNCTION, ONT.**—The Council has granted a right of way through the town to the proposed Davenport Electric Railway Co.

**HALIFAX, N. S.**—The Board of Health recommends the building without delay of a sewer on Rottenburg St., and the erection of a garbage crematory.

**PORTAGE LA PRAIRIE, MAN.**—It is said to be the intention of the Government to place the sum of \$10,000 in the estimates for the erection of a new wing to the Home for Incurables.

**NELSON, B. C.**—A company has been organized here with a capital of half a million dollars to build complete reduction works, provided a suitable site is granted by the Government.

**OTTAWA, ONT.**—Mr. Adolph Peterson, the owner of the present Opera House, and others, are considering a scheme for re-modeling and enlarging the present Opera House building.

**PETERBORO', ONT.**—The Y. M. C. A. have purchased a site 60 x 104 ft. at the corner of George and Murray streets on which to erect a new building, for which plans are now being prepared. The estimated cost is \$22,000.

**ST. HYACINTHE, QUE.**—The Council has decided to grant a free site and a bonus of \$50,000 to a Belgian syndicate which proposes to establish a bridge manufactory. The consent of the rate-payers will be asked on the 10th April.

**ST. JOHN, N. B.**—Tenders will be received at the office of Morrison & Lawlor, (Smythe St.), for the erection of coal sheds, up to the 5th of April. Plan and specification to be seen at the office of R. C. John Dunn, Pugsley Building.

**PORT ARTHUR, ONT.**—The by-law recently passed appropriating \$75,000 for the construction of an electric railway between this place and Fort William has been found to be illegal, and will, therefore, have to be again submitted to the rate-payers.

**HAMILTON, ONT.**—Mr. Wm. Stewart, architect, will receive tenders until the evening of Tuesday, the 31st inst., for the erection of a four storey dry goods house for Thos. C. Watkins, at the corner of King and Hughson Sts.—The project for the erection of a Maternity Hospital is almost certain to be carried out.

**FREDERICTON, N. B.**—A syndicate of Maine capitalists, who lately purchased 55,000 acres of land on the Keswick and its tributaries, intend in the near future to erect a large pulp mill at the north forks of the Keswick, near Zealand station on the northern division of the C.P.R.

**NICOLA, B. C.**—Messrs. J. F. Allison, A. E. House and others are applying for a charter to construct a railway from a point on the Canada Pacific railway along the Niagara river, touching Princeton to Lake Osayooos; also from a point on the Coldwater to Kamloops.

**CHARLOTTETOWN, P.E.I.**—Hon G. W. Howland and Mr. Palmer have been commissioned by the local Government to proceed to England to further the project for the construction of the proposed tunnel to connect the Island with the main land. Sir Douglas Fox is understood to be engaged in preparing detailed estimates of the undertaking based on the report of his engineers.

**LONDON, ONT.**—The City Engineer will receive tenders until the evening of the 2nd April for plank sidewalks, gravel and stone, lumber for repairs, nails for repairs, and paving.—Mr. Thos. Huston will erect a residence on the site of the present Salvation Army property on King street.

—The City Engineer invites tenders until the 3rd inst. for glazing in the Public Schools.

**LINDSAY, ONT.**—Tenders will be received by Mr. Fred. Knowlson, Town Clerk, until April 10th, for the construction of water works, or for the formation of a company to construct and operate water works. The town requires 6½ miles of 6 to 12 inch pipe, with stand pipe and 67 hydrants. Power must be guaranteed to supply 1,500,000 gallons daily, and to furnish a constant pressure of 100 lbs.

**NIAGARA, ONT.**—Application is to be made to the Dominion Government by the Niagara Central Railway Co. for power to extend their road across the Niagara River.—Incorporation has been applied for by the Queenston & Niagara River Bridge Co., with the object of constructing a bridge and railway across the Niagara River and building a railway between Queenston, Niagara Falls and St. Catharines.

**MONTREAL, QUE.**—The G. T. R. Co. will shortly begin the erection of new rolling mills in connection with the Company's shops at Point St. Charles.—The Provincial Government proposes to erect a fire-proof building at the western end of the Court House for the accommodation of the registrars.—Plans prepared by Messrs. Taylor & Gordon, architects, of this city, for the rebuilding of the portions of Bishop's College, Lennoxville, recently destroyed by fire, have been approved by the management of that institution.

**VANCOUVER, B. C.**—A new business block will shortly be erected for Messrs. Gravely & Spinks at the corner of Carrall and Oppenheimer streets. The materials will be brick and stone, plate glass windows, iron roof, pressed brick. Mr. R. McKay Tripp, architect, invites tenders for the erection of the building.—A committee has been appointed by the St. Andrew's & Caledonian Society to arrange for the formation of a limited liability company to purchase land and erect a building suitable for the requirements of the Society.

**WINNIPEG, MAN.**—Negotiations have been resumed for the improvement of the water power of the Assiniboine river at this place.—The president of the C.P.R. has stated that railway construction will be commenced towards Battleford this summer.—The Rev. Thos. Clarke has undertaken to erect an Indian Memorial Chapel to the memory of the late Dr. McLean, Bishop of Saskatchewan. It will be erected in South Battleford.—An American gentleman who owns property on Portage avenue, near Main street, has instructed his agent here to call for tenders for the erection of a brick block.

**KINGSTON, ONT.**—The Public School Board has appointed a delegation to visit London, Hamilton, and Toronto, for the purpose of examining the systems of heating and ventilation in operation in the Public Schools. Information thus gained is to be applied in the heating and ventilating of the proposed new school building here.—The City Engineer invites tenders until the evening of the 31st inst. for the following materials, etc.: 300,000 feet b. m., more or less, 2 and 1½ inch planks for walks; 70,000 feet lineal, more or less, of 5 x 4 cedar sleepers for walks; 12,000 pieces, more or less, of cedar blocks for crossings; hardware, etc.—The Congregationalists have approved of plans prepared by Mr. Reid, for the rebuilding of their church, and have instructed a committee to procure tenders.

**TORONTO, ONT.**—The following sums have been included in the estimates of the Provincial Government to be expended in the erection and improvement of public buildings:—Reformatory, Penetanguishent, \$7,730; Central Prison, Toronto, \$4,415; Deaf and Dumb Institute, Belleville, \$14,700; Blind Institute, Brantford, \$16,426; Agricultural College and Experimental Farm, Guelph, \$8,500 for a convocation hall and gymnasium with heating, etc., and \$10,000 for a laboratory, green and propagating houses, etc.; School of Practical Science, \$16,900 for the general equipment of engineering department; Ottawa Normal School, \$20,000 for additions to the assembly and class rooms; Orillia Idiots

Asylum, \$23,200 for completing the new buildings, putting in steam heating, etc., and \$14,750 for furniture and furnishings; Hamilton Asylum, \$15,000 for new buildings, barn and stables, root-house, etc., and \$14,000 for annexes for six dining rooms, main building; London Asylum \$13,000 to complete central boiler house, pigery, duplicate pumps, etc.; Mimico Asylum, \$33,000 to complete cottages under contract, sewage disposal, etc.; \$36,000 for two cottages for refractory patients (50 in each), and \$11,000 for furniture and furnishings; Osgoode Hall, Toronto, \$8,400.—The Water Works Committee will ask tenders for the building of new pumping engines.—It is the intention of the Methodist authorities to let contracts next year for the erection of a college residence which will accommodate from 75 to 100 students.—The City Engineer recommends the construction of cedar block pavements on Bismark Ave., Harris St., and Dupont St., at an estimated cost of \$2,000, \$2,150, and \$1,150 respectively.—The Legislation Committee of the Council has been instructed to see by what means the necessary funds may be obtained for the widening and re-construction of the Queen street subway, at an estimated cost of \$200,000.—Tenders will be asked for the construction of three cottages in connection with the Boys' School at Mimico, also for three cottages for the Girls' Industrial Home.—Preparations are being made for commencing the work of erecting the proposed new Law School building.—The Confederation Life Association will immediately let contracts for the interior woodwork of their new building.—The following building permits have been granted: W. J. Kirby, three att. 2-storey brick fronted dwellings, e. side Ossington Ave., near College St., cost \$4,500; George A. Elliott, pr. s. d. 2-storey bk. dwellings, e. side Bedford Rd., near Boswell Ave., cost \$7,000; T. A. Lytle, det. 2-storey bk. dwelling, southwest cor. Huron and Bernard Sts., cost \$3,500; Rogers Bros., pr. s. d. and one det. 2-storey bk. dwellings, Spadina, cor. Washington Ave., cost \$10,500; A. McCabe, three att. 2-storey bk. dwellings, n. side D'Arcy street, cost \$5,000; Geo. Hardy, pr. 3-storey bk. stores, w. side Bathurst St., near Arthur St., cost \$5,000; Thos. McMullen, pr. s. d. 2-storey and attic bk. dwellings, s. side Caer Howell, near McCaul St., \$4,200; Geo. McMurren, pr. s. d. 2-storey and attic bk. dwellings, w. side Bedford Rd., near Tranby Ave., cost \$9,500; C. D. Delworth, 1-storey bk. store, w. side Bathurst St., near Dupont St., cost \$1,000.

**CONTRACTS AWARDED.**

**ST. THOMAS, ONT.**—Contracts have been let for the new *Journal* building at the corner of Talbot and Hiawatha streets.

**NIAGARA FALLS, ONT.**—It is stated that the C.P.R. have let the contract for a new bridge over the Niagara river at this point.

**WALCERVILLE, ONT.**—The Globe Furniture Co. have been given the contract for seating the new Methodist Church at Victoria, B. C., for \$2,479.

**GUELPH, ONT.**—The County Commissioners have awarded the contract for a new bridge over the Conestoga river at Glen Allan, to Mr. Richard Boyle, at the price of \$1,054.

**MONTREAL, QUE.**—Contracts have been let for the construction of a new Roman Catholic Church in Hochelaga to cost about \$25,000. Construction will begin as soon as the snow leaves the ground.

**TORONTO, ONT.**—Contracts have been awarded for the new Victoria College Buildings as follows: Masonry and excavating, Brown & Love, \$115,680; carpentering, J. C. Scott, \$29,450; roofing, G. Duthie & Son, \$4,480; copperwork, John Douglas & Co., \$1,855; plastering, Caius Rundle, \$8,879; ironwork, St. Lawrence Foundry, \$8,582; plate glass, Faircloth Bros., \$6,435; mineral wool and asbestos deadening, Gast & Atchison, \$1,720; heating, Smead, Dowd & Co., \$5,850.

The Canadian Contractors' Hand-Book, 50 cents to RECORD subscribers.

USEFUL HINTS.

The American Machinist says that vaseline is one of the best things for preventing bright iron work from rusting.

The heart of the oak begins to rot at about the age of 300 years. The holly oak alone escapes this law, it is said, and there is a specimen of this age, 410 years, in existence near Aschaffenburg, Germany.

At a test of steel manufactured at the Carpenter Steel Works, Reading, Pa., a one-inch bar broke at a strain of 238,833 pounds, being about 20,000 pounds in excess of the highest record authoritatively known.

A good waterproof glue can be made by boiling 8 parts of common glue with 30 of water until a strong solution is obtained; add 4 1/2 of boiled linseed oil, and let the mixture boil 2 1/2 minutes, stirring constantly.

Paint can be made to stick to zinc by first using the following wash (recommended by Boettger):—Chloride of copper, 1 part; nitrate of copper, 1 part; sal ammoniac, 1 part; water, 64 parts. This wash coat is to be left for 24 hours before applying to the paint.

Aluminum bronze of ten per cent., it is claimed, has a working strength of 310,000 pounds, as against 80,000 pounds for steel; hence, when the time comes, which cannot be far distant, for building bridges of aluminum or its alloy, we shall have a structure about one-third the present weight, and much stronger.

The lacquer used on chandelier work is made of shellac and 95 per cent. of alcohol, very thin, and slightly colored with dragon's blood to give it an orange color. The lacquer should stand for a few days for the insoluble part of the gum to settle; the clear lacquer should then be poured off and filtered.

The following varnish will maintain its transparency, and the metallic brilliancy of the articles will not be obscured: Dissolve 10 parts of clear grains of mastic, 5 of camphor, 5 of sandarach, and 5 of elemi in a sufficient quantity of alcohol, and apply without heat.

In Germany wood with a mirror polish is coming into use for ornamental purposes in place of metal. The wood is first submitted to a bath of caustic alkali for two or three days at a temperature of about 175 degrees Fah., then dipped into hydro-sulphate of calcium for 24 to 39 hours, after which a concentrated solution of sulphur is added. After another dip in an acetate of lead solution at about 100 degrees a shining metallic surface is given by polishing when dry with lead, tin or zinc.

Slating is estimated by the "square," which is the quantity required to cover

100 square feet. The slates are usually laid so that the third laps the first three inches. Therefore to compute the number of slates of a given size required per square: subtract three inches from the length of the slate, multiply the remainder by the width, and divide by two. This will give the number of square inches covered per slate; divide 14,400 (the number of square inches in a square) by the number so found, and the result will be the number of slates required,

Prices of Building Materials.

LUMBER.

Table listing lumber prices for various types like 'CAN OR CARGO LOTS', '1 1/4 and thicker clear picks', '1 1/4 and thicker, three uppers', etc.

Table titled 'YARD QUOTATIONS' listing prices for 'Mill cull boards and scantling', 'Shipping cut boards, promiscuous widths', etc.

Table listing prices for 'B. M.' materials like '1 1/4 inch flooring, dressed, F. M.', '1 1/4 inch flooring rough, B. M.', etc.

Table titled 'BRICK—M' listing prices for 'Common Walling', 'Good Facing', 'Sewer'.

Table titled 'Pressed Brick' listing prices for 'Plain brick, f. o. b. at Milton, per M.', 'Hard Building', etc.

Table titled 'Stone' listing prices for 'Common Rubble, Per Toise, delivered', 'Foundation Blocks, Cubic Foot'.

Table titled 'Slate: Roofing' listing prices for 'red', 'purple', 'untinting green', 'black slate'.

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

Table titled 'PAINTS. (In oil, @ lb.)' listing prices for 'White lead, Can.', 'zinc, Can.', 'Red lead, Eng.', etc.

Table titled 'CEMENT, LIME, etc.' listing prices for 'Lime, Per Barrel of 2 bushels, Grey', 'Plaster, Calcined, New Brunswick', etc.

Table titled 'HARDWARE' listing prices for 'Cut Nails: American Pattern, 1 1/4 inch, per keg', 'Canadian Pattern, 1 1/4 inch, per keg', etc.

Handwritten letter from G. H. Mortimer Esq., Montreal, October 14, 1890, addressed to the Canadian Contract Record. The letter discusses a resolution adopted at the First Annual Meeting of the Province of Quebec Association of Architects.

Table listing prices for '1 1/4 inch flooring', '1 1/2 inch flooring', 'XXX shingles, sawn', etc.

Table titled 'Metallic Roofing Co. of Canada' listing prices for 'Eastlake steel shingles (galvanized)', 'Improved Broad Rib Roofing', etc.

Table titled 'Canada Galvanizing & Steel Roofing Co.' listing prices for 'Corrugated Iron, galvanized, 26 W.G.', 'Corrugated Iron, galvanized, 28 W.G.', etc.

MONTREAL PRICES.

<b>Lumber, Etc.</b>		
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.	30 00	100 00
Butternut, per M.	22 00	40 00
Cedar, flat.	00 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	25 00
Maple, Soft.	16 00	18 00
Oak, M.	40 00	95 00
Pine, select, M.	35 00	40 00
Pine, and quality, M.	20 00	25 00
Shipping Culls.	13 00	16 00
Mill Culls.	8 00	10 00
Lath, M.	1 50	1 75
Spruce, 2 to 2 inch, M.	10 00	12 00
Spruce Culls.	4 50	6 00
Shingles, 1st quality.	2 00	3 00
and	1 25	1 50
<b>Cement, etc.</b>		
Portland Cement, per barrel.	\$ 2 70	3 00
Roman	2 70	3 00
Fire Bricks, per M.	20 00	30 00
<b>Cut Nails:</b>		
Hot-cut Am. or Can. pattern, 3 inch and above.	2 75	3 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 1/2 and 1 3/4 inch 1 1/2 inch.	3 25	4 45
Finishing Nails, per 100 lb. keg, 1 1/2	75 cents advance on Hot Cut Nails.	
Finishing Nails, per 100 lb. keg 1 1/4 to 1 1/2 inch.		
Finishing Nails, per 100 lb. keg, 2 inch and up.		
<b>Paints, etc.</b>		
White Lead, pure, 25 to 100 lb. kegs.	6 50	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 50	0 65
" Paris,	1 15	1 25
<b>Oils:</b>		
Linseed, raw.	0 63	0 55
" boiled.	0 66	0 58
Olive, pure.	1 10	1 15
" machinery.	95	1 05
" extra, qt., per case.	3 00	3 25
" 1/2 pts., "	2 50	2 60
" 1/4 pts., "	2 75	3 10
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<b>ART WOODWORK.</b>	
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Rice Lewis & Son.	IV
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Hynes Terra Cotta & Brick Co.	vi
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Brodie, James.	II
Lyall, Peter.	ii
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Adams, Joseph.	I
Morrison & Co., T. A.	iv
Maguire, William.	iv
McNally & Co.	xi
Rathbun Co.	vi
Vokes, M. & J. L.	xi
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McNally & Co., Wm.	xi
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McRae & Co.	iv
Morrison & Co., T. A.	iv
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Canadian Office & School Furniture Co.	ii
Office Specialty Co.	iii
Pennington & Baker.	vii
<b>CHIMNEY TOPPING.</b>	
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Amess, James.	39
Davidson & Kelly.	II
Davie, George.	II
Dick, James, sr.	39
Dagenais, J Benjamin.	39
Hood & Co., C.	II
Hancock, Thomas.	II
Hannah Bros.	II
Humphrey, T. R.	II
Hamilton, Edward.	39
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Murison & Co., John.	39
Thomas & Howell.	II
Turner & Co., G. W.	39
Webb & Claxton.	II
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Curtis & Rowe.	II
Hibbard, H. & T.	II
Isaac Brothers.	II
Johnson & Son, Wm.	II
Oakley & Holmes.	II
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Douglas Bros.	v
Douglas & Haines.	v
Douglas & Co., John.	v
Hedges & Lanckin.	v
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Tucker & Dillon.	v
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Littleford & Thorne.	II
Wright, Jas.	II
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Dill & O'Hearn.	II
Gilmor & Casey	II
Hatch, W. J.	II
Polito, T.	II
Taylor, W. J.	II
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Muirhead, Andrew.	ii
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Forbes, Duncan.	II
Hutson, W. D.	II
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Saulter, Wm.	II
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Stewart, W. T.	II
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