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A Weekly Journal of Advance Information and Public Works.

ITS PURPOSE: TO SUPPLY TO CONTRACTORS ADVANCE INFORMATION RESPECTING CONTRACTS OPEN TO TEN DER, 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, September 12, 1891.

No. 31

THE CANADIAN CONTRACT RECORD.

A Weekly Journal of Advance Information and Public Works.

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64 Temple Building, - Montreal.
Bell Telephone 2249.

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 Quebeo 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 INCOMD affords us a direct communication with the Contractors, Resolved, that we pledge our support to it by using its columns when co...ing for Tenders."

The publisher of the "Canadian Contract Record" desires to ensure the regular and prompt detivery of this Journal to every subscriber, and rejucts 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.

Tenders will be received by the undersigned up to 5 p.m. on

FRIDAY, THE 25TH INST., for a SEPARATE SCHOOL BUILDING at BROCKTON.

BROCKTON.

Each tender must be accompanied by a marked cheque, equal to 10 per cent of its amount, made payable to the order of the Chairman of the Sites and Building Committee, cheque to be forfeited of the parties tendering fail to carry out the contract when called upon to do so. All tenders must bear the born fide signatures of the contractor and his sureties, or they will not be entertained.

entertained.

The plans and specifications can be seen on and after Thursday, the 17th inst., at the office of the undersigned.

POST & HOLMES, Architects, Manning Arcade, Toronto. TO CARPENTERS AND BUILDERS.

Young married man, thorough carpenter and stairbuilder, comprisent to take off quantities, draw plans, etc., wants tituation, at a reasonable salary. Apply Box 100, office Canadian Architeker and Builder.

TENDERS WANTED.

Tenders will be received by the undersigned up to SATURDAY, THE 19TH INST., for the several trades required in the erection and completion of Heydon House, Toronto Junction, The lowest or any tender not necessarily accepted.

J. A. ELLIS, Architect, Peake's Block, Toronto Junction.

THE INFLUENCE OF HEAT ON THE STRENGTH OF IRON. Professor Martens, of Berlin, has pub-

lished in the Mittheilungen aus den Kaniglichen technischen Versuchanstalten zu Berlin, a report of some experiments on the strength of steel at various temperatures between 20 degrees C. and 600 debrees C. The material used consisted of mild steek having a tensile strength of 23 tons, 27 tons and 30 tons per square inch. The bars from which the test pieces were cut were 1.5 inches in diameter and were thoroughly annealed. A number of bars of the same quality of metal were all tested in the usual way, both after annealing, and as received from the makers, so as to form a standard of comparison for the other bars. The temperature of the bars, is obtained by placing in a bath and testing them there. For the low temperature tests the baths was filled with a freezing mixture, and for the high temperature tests, with paraffin, up to 200 degrees C., beyond which alloys of lead and tin were used. The contents of the bath were warmed by gas gets, and stirred during the course of the experiments. The clongations of the bar up to the yield point were taken on a length of 8.1 inches by means of a mirror apparatus, the diameter of the tested portion being .79 inches, and autographic diagrams were also taken of each specimen. The results of the experiments showed that the clastic limit of the material became lower as the temperature rose, though the falling off was not very serious up to 200 degrees C., but beyond that point it lowers somewhat rapidly, and finally seems to disappear. The maximum stress decreases from 20 de grees C. up to 50 degrees C., but after wards rapidly rises to a maximum somewhere between 200 degrees and 250 degrees C. Taking the strength of the specimen at 20 degrees C. as the maximum stress for the 23 ton steel is 1.34 greater, and the maximum breaking stress is 1.62. For the 27-ton steel the figures

are 1.27 and 1.45, and for the 30 ton steel 1.25 and 1.50. The contraction of area for all the specimen was least at about 300 degrees C.— Engineering Record.

COVERING POWER.

Summarizing a long article on this subject, Dr. C. B. Dudley and F. N. Pease say:

First. As has already been discussed, the fineness has an important influence on the covering power, and this is entirely within the control of the paint manufacturer in his grinding. The finer he grinds the paint the greater the covering power of the paint, whatever the pigment he may use, and this applies, we think, equally well to the pigments which are inferior in covering power as well as those which are better in this respect.

Second.—We find by actual experiment that a certain percentage of pigment of good covering power, mixed with a certain percentage of pigment of inferior covering power, gives a resulting pigment which has almost as good covering power as the better one. We have been somewhat astonished at the results obtained. For example, 20 per cent, of zinc white with 50 per cent, of sulphate of lime, carefully and finely ground, will give very fair covering power, and in fact almost as good as all white zinc. The same thing seems to be approximately true of white lead and talc or white lead and baryties.

Third.—There is still another variable which can be made use of to improve the covering power in inferior pigments, and that is to diminish the amount of oil used when the paint is spread on a surface. A good paint has a ratio of pigment to liquid, when fit for spreading, of about one-third pigment to about two-thirds figuid by volume. This ratio may vary considerably either side of these figures, but this is an approximation based on quite a number of experiments. If now the volume of the pigment is increased in comparison to the volume of the oil, the covering power, all other things being the same, will be improved. The limit, of course, is the stiffness of the paint during application We are, of course, assuming a paint in which there is very little turpentine. On the other hand, it is quite possible to mix a paint for spreading by using turpentine or some other volatile dilutant, so that when the paint is dry on the surface it will not have the ratio of one-third pigment and two-thirds oil, but possibly one-half pigment and one-half of dry oil, or even two-thirds pigment and one-third dry oil.

CONTRACTS OPEN.

SARNIA, ONT.—The erection of a House of Refuge is being discussed.

SYDNEY, C./B.—Steps are to be taken to erect a commodious summer hotel.

BROCKVILLE, ONT.—A new hotel will be built at Long Island Park this winter.

WALLACEBURG, ONT.—A system of water works for the town is badly needed.

ELMVALE, ONT.—Mr. Thos. Copeland intends erecting a new residence on Park street.

BRYSON, QUE.—Work has commenced on the foundations of the new county buildings.

FORT ERIE, ORT. - Mr. Waldron intends erecting new stores and workshops shortly.

MEYERSBURG, ONT.—The corner stone of a new Methodist Church was laid on the 9th inst.

JACKSONVILLE, N. B.—A suitable building for a cheese factory will be erected in the spring.

COOKSHIRE, QUE,—The Cookshire Machine Company intend to erect new workshops immediately.

GALT, ONT.—Messrs, Cranston & Scringer intend building a breakwater to prevent damage to their mill by spring floods.

GANANOQUE, ONT.—Messrs, Turner & Gibson are talking of creeting a tannery on the banks of the St. Lawrence river.

ROCKWOOD, QUE. — Mr. Scott, a Montreal broker, intends building a residence next summer on a site recently purchased.

AMHERST, N. S.—A scheme is on foot to purchase a site for the erection thereon of a brick building to be used as a first-class hotel.

BELLEVILLE, ONT. — The promoters of the natural gas project have decided to bore a well at Massassaga Point, two miles from this city.

DUNDAS, ONT.—James Moore, Town Clerk, will receive tenders until the 18th inst., for lighting the streets of the town with gas or electricity.

MERRITTON, ONT.—A: Committee has been appointed by the vestry of St. James' Church to proceed at once with the erection of a new church.

DARTMOUTH, N. S.—Mr. A. C. Johnston will receive tenders until the 19th inst., for the excavating of about two miles of trench for the water works.

NEW WESTMINSTER, B. C.—The Dept. of Public Works intends placing a clock in the tower of the new school, to be illuminated by electric light.

CARTHAGE, ONT.—The R. W. & O. R. have purchased a site extending from Furnace street to Brown street, on which it is said a new depot will be erected.

LEAMINGTON, ONT.—The tenders for the new Presbyterian Church were too high, and the architect will be asked to modify his plans and call for new tenders.

OAK LAKE, MAN.—Roblin & Armitage intend erecting a new elevator at once.—The old Campbell building has been removed to make room for Mr. John White's new building.

HAMILTON, ONT.—Mr. Jas. Balfour, architect, invites tenders until the 15th inst., for the crection of a brick dwelling on James street south. Plans to be seen at Mr. Balfour's office,

St. John, N. B.—A scheme is on foot by the St. John Summer Resort Company to acquire the property at Duck Cove and Harding's Point for a summer resort. In connection with the scheme a number of cottages will be erected.

BRANTFORD, ONT.—Mr. H. Yates, C. E., has completed surveys of a proposed loop line of railway to connect with the G. T. R. main line at Lynden.—A tower is to be erected for Grace Church, at a cost of \$5,000. A set of chimes will be purchased, to cost about \$2,000.

VANCOUVER, B. C.—Mr. G. S. McConnell intends to shortly erect a cottage on a site he has purchased at the junction of the Cheakamus and Squannish rivers.—A by-law has been introduced in the council providing for the raising of \$50,000 to

for sewage purposes,—The British Columbia Iron Works are about to make extensive additions to their present buildings,

MONTREAL, Que.—Mr. Lusher, Manager of the Street Railway Company, is erecting a fine residence at Montreal Jucction, at a cost of \$4,000. Mr. Amess is the architect.—The City Hall Committee have decided to ask for tenders for the painting of the roof of the City Hall.

PETERBORO', ONT.—Mr. Kennedy, civil engineer, of Owen Sound, was in town recently taking observations for the purpose of preparing plans for the new dam to be constructed by the Water Company just north of the town.—Plans are being prepared for the enlargement of the Nicholls hospital.

OTTAWA, ONT.—E. F. E. Roy, Secretary Department of Public Works, will receive tenders until the 2nd of October, for the several works required in the creetion of a post office, etc., at Vancouver, B. C. Plans to be seen at the Department of Public Works, this city, and at the office of C. O. Wickenden, architest, Vancouver.

WINNIPEG, MAN. — Mr. J. A. Campbell, representing a syndicate of eastern capitalists, has made a proposition to the city council to build an electric railway eight miles in length, to be completed before 1st September, 1892.—The Government has notified the Board of Trade that some steps will immediately be taken towards the construction of drains in the Brokenhead district.

HALIFAX, N. S.—The Intercolonial Bridge spanning the harbor was damaged by a hurricane to the extent of \$50,000 recently.—Tenders are invited by W. B. McNutt until the 14th instr-for repairs to the city fish market and boat slip.—A report will be sent to the city council recommending that the property of Alex. Stephen be purchased as a site for the proposed Inebriates' Home.—Wm. Dinnis has purchased two building lots on Cobourg road.

CHATHAM, ONT.—The Board of Trade have appointed a Committee to formulate a plan for the construction of a beet root sugar factory.—Tenders will be received by Mr. T. J. Rutly, architect, until the 14th inst., for the erection of the First Presbyterian Church, corner of Fifth and Wellington streets.—A Committee has been appointed by the Board of Trade to wait upon the town council with a view to persuading them to take steps to explore for natural gas.

Kingston, Ont.—The council has decided to extend the water works suction pipe 1,200 feet further into the lake.—The School Board will press the council to submit the by-lay asking for \$42,000 with which to erect a new public school on Union street.—A party of New York Central capitalists recently visited Alexandria Bay regarding the building of the rulroad from Redwood to Alexandria Bay, a distance of seven miles.—Mr. Mooers states that he will commence the erection of his flour mill as soon as the council takes action regarding the taxation of the site.

Toronto Junction, Ont.—The High School Committee of the town council have recommended that a site be purchased in the neighborhood of St. John's church, corner of Dundas and Louisa streets, for the erection of a High School.—Mr. Ellis, architect, is preparing plans for a suburban public school to be erected at Mount Dennis. The building will be of brick and stone, with stained glass and heated by steam. The cost will be about \$6,000.—Mr. A. Heydon is about to erect an hotel, of brick and stone, with stained glass, and heated by steam, at a cost of \$10,000. The architect is Mr. J. A. Ellis, of this place.

London, Ont.—At a meeting of the Official Board of the London East Methodist Church held recently, it was resolved that the Queen's Park Church property be the site for the new church.—Tenders will be received by the City Engineer until 5 o'clock to-day for a furnace for the county jail.—Work on the new St. Joseph's R. C. hospital will be begun at once. Mr. Fred Henry is the architect.—The Renwick property on the corner of Victoria and Richmond streets, has been purchased as a site for

the erection of a building for aged women and men. The building will be 100 feet long, 60 feet wide and four stories high. Mr. Thos. McConnack has donated \$10,000 towards the project. Messrs. McBride & Jones are the architects.

TORONTO, ONT .- Mr. F. H. Herbert, architect, is preparing plans for two store fronts at Nos. 490-92 College street, for Mr. Geo. H. Dunn, to contain plate and stained glass.—The City Treasurer has been instructed to report funds for the following works. Sewers-Birtle avenue, Jones avenue to west end, cost \$1,164; Lynd avenue, College to Dundas street, \$2,728; Gerrard street, Broadview avenue to Don river. \$2.100: Royce avenue, Edwin avenue to T. G. & B. Railway, \$876; Springhurst avenue, Cowan avenue to Jamieson avenue, \$1,894; lane, Albert street to Louisa street, \$375. Cement sidewalks College street, south side, Markham street to Augusta ave., Excelsior, \$12,400; Yonge street. east side, Carlton street to Wood street, Eureka. \$1,500; Bloor street, south side, Yonge street to Sherbourne street, Eureka, \$5,600; Queen street, north side, Berkeley street to Parliament street, Eureka, \$1,880. Boulevard and kerbing-Bismarck avenue, Yonge street to Gwynne avenue, \$1,200. Cedar pavement-Delaware avenue, Bloor street to Van Horne street, \$11,200. Kerbing-Claremont street, Queen to Robinson street. \$300. Asphalt pavement-Victoria street, King to Adelaide street, \$300. Widening of pavement -King street, Strachan avenue to the subway, \$2,300. - The Kemp Manufacturing Co. are building a four-storey brick addition to their works at the corner of Gerrard and River streets. at a cost of 12,000, -A new Methodist Church is being erected at the corner of Bloor street and Westmoreland avenue, at a cost of \$6,000. Mr. H. G. Paull is the architect .- The City Engineer has reported that a steel pipe across the Don river at the Eastern avenue bridge would cost \$1,858. The distance would be 665 feet, 220 feet of which would be lengths of steel pipe crossing the bridge, and the balance cast iron with two 12-inch valves and chambers.-A report will be forwarded to the Board of Works recommending that Toronto street be covered with a sheet of asphalt, at a cost of 3,000.—The C. P. R. have asked the city council for the privilege of constructing a shunting track over the Don improvements, between King and Winchester streets, at a cost of \$7.500.-In a limited competition for an Episcopal church, guild hall and rectory at Muskegon, Mich., the plans of Messrs. Post & Holmes, architects, of this city, have been accepted, and instructions have been given them to carry out the work .- The Mayor has requested the City Engineer to prepare an estimate of the cost of straightening and deepening the river Don south from the G. T. R. bridge to the lake. -C. F. Fraser, Commissioner of Public Works for Ontario, will receive tenders until the 16th inst, for the construction of the following works: Farm house and lodge at Mimico asylum; cottage, fencing and water tank at Hamilton asylum; sewage works at Bellevil'e institute; hall, laboratory and greenhouse at Agricultural College, Guelph, and registry office at Rat Portage, Man. Plans to be seen at the Hamilton asylum. Belleville Institute, Agricultural College, sheriff's office at Rat Portage, and at the Department of Public Works, this city.—Building permits have been granted as follows: Geo. Pardie, pr. s. d. 2-storey and attic bk. dwellings, w. side Concord Ave., just n. of Hepbourne St., cost \$3,400; L. Richey & Son, six det. 2 storey and attic bk. dwellings, c. side Cowan Avc., s. of King St., cost \$15,600; W. H. White, one det. and two s. s. d. 2-storey and attic b. f. dwellings, w. side Westmoreland Ave., n. of Hallam St., cost \$8.500; H. Nafe, det. 2-storey and attic bk. dwelling, s. c. cor. Leopold and Maynard Ave., cost \$3,000; Ontario Coal Co., 2-storey coal shed, Esplanade St., foot of Church St., cost \$8,000; John Hudson, pr. s. d. 2-storey and attic bk. dwellings, c. s. Spadina Rd., 500 feet north of Bloor St., cost \$12,000; S. Wicks, pr. s. d. 2storey and attic bk. dwellings, e. side Macdonnell

Ave., 80 feet north of Marion St., cost \$7,000; W. Abercombie, two s. d. 2-storey and attie bk. dwellings, Earnsbridge St., cost \$6,000. S. J. Weeks, one det. and two pr. s. d. 2-storey and attie bk. dwellings, n. side Cumberland St., cost \$10,500: J. H. Stokes, two pr. det. 2-storey and attie bk. dwellings, e. side Pape Ave., n. of Dagmar Ave., cost \$8,000; G. W. Hunter, det. 2-storey and attie bk. dwelling, w. side St. George St., nr. Bernard Ave., cost \$4,000.—Mr. J. M. Macdonald, 64 Wellington stret west, wants ten ders for grading, drauning and sodding the new grounds for the Toronto Lacrosse Club in Rosedale.

FIRES.

CHELMSFORD, ONT.—Bennett & Irving's mills were burned last week.

SARNIA, ONT. -- The W. C. T. U. coffee house was burned on the 10th inst.

FORT ERIE, ONT.—The Erie Beach hotel was destroyed on the 3rd inst. Loss \$16,000.

SAULT STE MARIE, ONT.—The Albion hotel was burned on the 3rd inst. Loss \$3,000.

KINGSTON, CNT.-Offord's block, on Brock street, was destroyed by fire on the 3rd inst.

OTTAWA, ONT.—The residence and barns of Mr. D. Rooney, of Nepcan, were burned recently.

DRAYTON, ONT.—Mr. F. W. Schwendiman's planing mill was burned on the 2nd inst. Loss \$5,000.

YALE, B. C.—The Hudson Bay Company's dwelling house was destroyed by fire on August 25. Loss \$3,000.

HALIFAX, N. S.—Mr. Alex, Stephens' residence at Northwest Arm was partially destroyed by fire on the 5th inst.

MONTREAL, QUE. - The shops of Messrs Day & Deblois, iron founders, were damaged to the extent of \$15,000 recently.

LONDON, ONT.—The premises of the Magee Manufacturing Company, corner of Adelaide and Bathurst streets, was destroyed by fire on the 10th inst. Loss \$3,000.

CONTRACTS AWARDED.

VANCOUVER, B. C.—D. McLaughlin has the contract for the addition to the Begbie street fire hall.

LONDON, ONT.—The contract for cedar block paving Queen's avenue has been awarded to S. Barfitt at 63½ cents per yard.

GALT, ONT,—Mayor Lutz has let the contract for his new brick residence to be erected on the Blain property, to Mr. Wm. Lapsley.

BRAMPTON, ONT.—H. Hill has the contract for the brick work, and W. A. McCulla the carpenter work of the addition to the Queen's hotel.

INTERNATIONAL BRIDGE, ONT. — Messrs. Edgeworth & Rogers, of Stevensville, have been given the contract to erect the new parsonage, and work will be commenced at once.

LUNENBURG, N. S.—The contract for the erection of the new court house has been awarded to Mr. James Reed. The building will cost \$23,000. Mr. Henry Busch, of Halifax, is the architect.

NEW WESTMINSTER, B. C.—The contract for the erection of the large brick block on the corner of Lorne and Columbia streets for Messrs. T. J. Trapp & Co., has been awarded to Mr. E. Burns.

TORONTO, ONT.—The Water Works Committee have awarded the contract for the new pumping house to Newman Bros., of St. Catharines, at the price of \$11.957. — Mr. E. J. Lennox, architect, has awarded the contract for exeavating for the Toronto Athletic Club building on College street to Mr. J. Williams, at 14 cents per cubic yard.—The contract for the excavator, drainage, mason and bricklayer work for a mansoleum for Mr. H. A. Massey at Mount Pleasant Cemetery, has been awarded to Mr. W. D. McIntosh, at the price of \$15,000. Other trades not let yet. Mr. E. J. Lennox is the architect.— 'The Toronto Pressed Brick Co. have been

awarded the contract for the supply of pressed brick required for the new Gooderham building at the junction of Wellington and Front streets.

USEFUL HINTS.

When ordinary putty becomes very hard, it may be softened for the purpose of easy removal by keeping it moist for a short time with caustic soda potash, or, if the putty be painted, with nitric or muri atic acid it will be softened in about an hour.

Insoluble cement which is hard enough to withstand boiling sulphuric acid is obtained by gently melting india rubber and adding 8 per cent, tallow while stirring. Sufficient slaked time should be added to give the compound the consistency of soft paste; 20 per cent, of vermilion is now added, which causes the mass to harden immediately.

STRENGTH OF CAST IRON BEAMS.— The strength of cast iron beams of a given area depends very much upon their section or shape. Thus, taking beams of the same area or cross section, one circular, 2.26 inches in diameter; another rectangular 2.3 x 9.75 inches, and another of cross section 3 x 4 inches, with a thickness of 0.64 inches, it was found by actual experiment that the tensile strength of the three was as one to .924 and .918 for the cross shaped as against the two specimens of rectangular, and as one to 1.054 in favor of the circular as against the cross shaped.

Prices of Building Materials.

LUMBER.

CAR OR CARGO LOTS.

11 and thicker clear picks, Am. ins	\$30	00	(32	œ
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1 and thicker, pickings, Am ins			27	00
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Metallic Roofing Co. of Canada:

	Per Sq	
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Eastlake steel shingles (painted) Improved Broad Rib Roofing, (gal-	3 75	4 00
vanized)	5 00	5 75
Improved Broad Rib Roofing (painted)	3 50	4 00
North Western steel siding (painted)	3 25	3 50
Manitoba steel siding (nainted)	3 25	3 50
Metallic Finished Brick	3 25	3 50
vanized)		6 29
Tower or Mansard shingles (painted)		4 50
Metabic Terra Cotta Tiles		7 00
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Canada Galvanizing & Steel Roofing Co.

Canada Galvanizing & Steel Roofing	; Co, :
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Northwestern steel siding, patented,	3 50
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Sand: Per Load of 11/2 Cubic Yards	1 25
PAINTS. (In oil, & tb.) White lead, Can "rinc, Can Red lead, Eng. "venetian "vermillion "Indian, Eng. Vellow other Yellow chrome "Paris Black, lamp. Blue, ultramarine Oil, linsced, raw (& Imp. gallow). "boiled "refined, Putty Whiting, dry Paris white Eng., dry Litharge, Am., Sienna, bunt. Umber,	6 25 6 50 6 37 7 50 5 36 6 37 1 60 1 75 90 1 00 10 12 5 10 7 12 25 40 15 20 7 12 25 40 15 20 7 12 25 40 15 20 15 20 15 20 15 20 15 20 16 88 63 78 88 24 24 75 1 00 66 88 67 28 88 78 88
CEMENT, LIME, etc. Lime, Per Barrel of a bushels, Grey. "White Plaster, Calcined, New Brunswick. "Nova Scotia Hair, Plasterer's per bag. Cement, Portland, per bbl "Thoroid, "Queenston, "Napanee, "Hull, "HARDWARE.	40 55 200 200 100 300 350 150 150
American Pattern, 134 inch, per keg	
American Pattern, 14 inch, per keg 13 to 14 inch, per keg. Canadian Pattern, 14 inch, per keg. 14 to 14 inch, per keg. 15 to 24 inch, " 2 to 24 inch, " 3 inch and larger Steel nails 10c. per keg extra. Vinishing nails, 1 inch, per keg 14 inch, " 15 inch, "	3 90 3 10 7 40 2 95 2 65 2 40 5 40 5 40

MONTREAL PRICES.		BUILDERS' HARDWARE.		Painters.	
Lumber, Etc.		Alkenhead & Crombie	×	Dill & O'Hearn	11
Ash, 1 to 4 in , M \$13 000 Birch, 1 to 4 inch, M 15 00	918 00	Rice Lewis & Son	ĮV	Gilmor & Casey	11
Birch, 1 to 4 Inch, M	25 00	Samuel, Benjamin & Co., M. & L	ıχ	Hatch, W. J	
Walnut, per M	100 00	CEMENTS,	•••	Polito, T	ĭĬ
Buttemut, per M	40 00	Adamant Mfg. Co	viii iv	•	
Charge par M. 60.00	80 00	Maguire, William		PAVING,	
	17 00 30 00	McRae & Co., Morrison & Co., T. A.,	įv	Excelsior Pavement Co	ix
Maple, hard, M 20 00	21 00	Morrison & Co., T. A.,	ív :	Forsyth, Robert,	xiii IV
Maple, Soft	18 00	Rathbun Co	viii iv		- '
Pine, select, M	40 00	Wright & Sons, C. B.	ix	Pi.Asterers.	_
Pine, and quality, M 23 00	25 00	CHURCH AND SCHOOL FURNITURE.		Hynes, W. J.	Ţ
Shipping Culls	10 00	Canadian Office & School Furniture Co	x	Littleford & Thorne	II II
Lath, M	190	Office Specialty Co			
Spruce Cuils 4 50	6 00	The Globe Furniture Co	IV	PLATE GLASS.	
Shingles, 1st quality 1 50	3 00	CHIMNEY TOPPING.		McCausland & Son.	V
2110	1 50	Hansen, Harald M	×	Toronto Plate Glass Importing Co	vii
Coment, etc.		CONSULTING ENGINEER.		PLUMBERS.	
Portland Cement, per barrel \$ 2 70@ Roman 2 70	300	Barry, A. B	×	Bennett & Wright	H
Fire Bricks, per M 20 00	30 00	CONTRACTORS AND BUILDERS.		McCnie & Watson	Vi
Out Nails:		Davidson & Kelly	11	PLUMBING SUPPLIES.	
Hot-cut Am. or Can. pattern, 3 inch		Dick, James, sr	vi	Booth & Son	γ
and above # 75	\$2 8 ₅	Dagenais, J Benjamin	vi	Garth & Co. Malcolm, W. B.	xv i
Hot-cut Am. or Can. pattern, 21 inch and above 3 00	3 25	Hood & Co. C	11 11	Sanitas Mfg. Co	v
Hot-Cut Am. or Can. pattern, 21/4 and	3 23	Hamilton, Edward	vi	St. Johns Stone Chinaware Co	iii
2 inch	4 20	Lyall, Peter	iii	ROOFING MATERIALS.	
Am. pattern, 1½ and 1½ inch hot-cut 3 50 1½ inch 4 25 Can. Pattern, cold-cut, 1½ and 1¾ inch 3 25 1½ inch 3 75 Finishing Nails, per 100 lb. keg, 1½	5 60 5 80	Mortimore, Geo. T	11	Canada Galvanizing & Steel Roofing Co.,	ii
Can. Pattern, cold-cut, 1 3 and 1 3 inch 3 25	4 45	Murison & Burge	vi II	Merchant & Co	ııï
Finishing Nails, per 100 lb. keg, 13/	5 95	Roberts, William	ii	Merchant & Co	ii
	4 50	Turner & Co., G. W	vi	Roofers.	
Finishing Nails, per 100 lb. keg 11/2	3 85	Webb & Claxton	11		
Finishing 1 sile, per 100 lb. keg, 2 inch		CUT STONE CONTRACTORS.		Baird Bros	ΙΪ
and up	3 50	Curtis & Rowe	11	Forbes, Duncan.	ii
Paints, etc.		Hibbard, H. & T	11	Metallic Roofing Co	ii
White Lead, pure, 25 to 100 lb. kegs. 6 00	7 00	Isaac Brothers	11	Hutson, W. D.	11
No. 2 4 50	5 50 5 00	Oakley & Holmes	11	Ormsby, A. B. Rennie & Son, R.	xii II
", No. 3 4 00	4 50	ELECTRIC LIGHTING.		Saulter, Wm	ii
dry	5 75 1 75	Royal Electric Co	.1	Saulter, Wm. Shales, John H.	П
Xellow Ochre, French 1 25	3 00	Toronto Electrical Works	ix	Stewart, W. T	II
Whiting, London, washed 0 65 Paris, 1 2 25	0 75 1 25	ELEVATORS.	777	Toronto Rooting Co	11 11
Cils:	,	Ives & Co., H. R., Leitch & Turnbull,,,,,,	IV I		••
Linseed, my	o 55		-	Sash Balance	
" boiled 0 66	૦ન્ડ8	Engravers. Canadian Photo-Eng Bureau	viii	Hargreaves, John	vii
Olive, pure 1 to machinery 95	1 15	. **	~1111	SANITARY APPLIANCES,	
" extra, qt., per case 3 00	3 25 2 60	FIRE BRICK AND CLAY. Colman-Hamilton Co	iii	Booth & Son	v
" extra, qt., per case	2 60 3 10	Wright & Sons, C. B	ix	Sanitas Mig. Co	v
Spirits turpentine 0 67	0 70			Ives & Ca., H. R	IV
		GALVANIZED IDON WORKS		Malaalm W D	
		GALVANIZED IRON WORKS. Roind Bros	vii	Malcolm, W. B.	ij
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