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*The Canadian Institute
46 Richmond*

THE 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. 1. Toronto and Montreal, Canada, September 13, 1890. No. 31

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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Information from any part of the Dominion regarding contracts open to tender sent exclusively to this journal for publication, 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, signed 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 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.

NOTICE OF REMOVAL.

Hammond & Williams, contractors, of 306 Spadina Avenue, have removed their private residence to 365 Dupont street. Workshops still at 310 Spadina Ave.

TENDERS

Will be received up to noon of THURSDAY, SEPT. 13TH, for the various works required in the erection of FOUR DOUBLE TENEMENTS on corner of Major and Alexander Streets, Montreal. The lowest or any tender not necessarily accepted.

WRIGHT & SON, Architects,
224 St. James Street, Montreal.

TENDERS

Will be received at the office of the undersigned until Saturday noon, 20th September, 1890, for the several works required in the erection of a brick-stone residence for J. T. Jackson, West Toronto Junction. The lowest or any tender will not necessarily be accepted. Contractors will be required to furnish satisfactory evidence of their ability, financial and otherwise, to properly execute the work. JAS. A. ELLIS, Architect,
Room 7, Dundas Chambers, W. Toronto Junction.

TO BUILDERS.

Scaled tenders will be received up to Friday, September 13, 1890, at noon, for the alterations and additions to the Registry Office for the County of York, situated on Richmond street east, in the City of Toronto.

Plans and specifications can be seen at the office of the undersigned, to whom all tenders are to be addressed. No tender necessarily accepted.

By order,

JOHN T. STOKES,
County Engineer.

County Engineer's Office,
Court House, Toronto, Sept. 9, 1890.

SLAG CEMENT.

In a recent article on slag cements *Le Genie Civil* states that these cements are made by finely grinding blast furnace slag and mixing it with a suitable proportion of fat lime. The grinding has to be very fine, because as the cement is made by a simple mixture it is necessary that the surface on which the two constituents, the lime and the slag, react on each other should be as large as possible if proper chemical combination is to ensue. The density of slag cements is much less than that of Portland, weighing bulk for bulk, but from .8 to .88 times as much. In general, this cement also sets somewhat more slowly than Portland, but when hardened, has, in many cases, a greater strength, particularly at early dates after setting. In some experiments still unfinished, the following results were attained with a slag cement from the Department of Iseré:

Age	1 week.	1 month.	3 months.
Breaking load, lbs.			
per sq. in.	473.5	568.8	678.3

These figures are higher than any attained in the tests made on Portland cements for the new Croton Aqueduct. Experiments have also been made with slag cement mortar mixed with, and allowed to harden in, sea water, and gave the following results; the mortar consisted of six parts by weight of cement to ten of sand:

Age.	Breaking Weight, lbs.		per sq. inch.	
8 days.	252.0	319.9	275.1	273.0
28 "	375.4	327.0	327.0	248.4
			341.2	

The main objection to slag cement seems to be that if it is allowed to harden in dry air its strength is very materially reduced, and it is then liable to crack. In the town of Villefranche-sur-Soane (Rhône), it has been largely used for paving footpaths, some 4,800 square yards having been laid there with the most satisfactory results.

Graphite has been found an excellent substitute for red lead in making joints and connections in steam and gas fittings. The graphite, mixed with the best boiled oil, makes a much better joint, and, it is claimed, will remain tight three months or three years, and will then yield to the ordinary pressure of the tongs, whereas the red lead once set, it is next to impossible to open the joint without damage to the pipe or tongs. The graphite should be pure and of the right grade of fineness. —*Progressive Age.*

BRICK-DUST CEMENT.

Ordinary brick-dust, mixed with lime and sand, affords a tolerably good substitute for hydraulic cement, the brick-dust mortar being decidedly, though not strongly, hydraulic. In his "Engineer's Pocket-book" Trautwine recommends its employment in all cases where hydraulic cement cannot be obtained. In experiments made by him with mixtures of brick-dust and quicklime, he found that blocks of one-half inch in thickness, after immersion in water for four months, bore without crushing, crumbling or splitting a pressure of 1,500 pounds per square inch. He appears to have been thoroughly convinced of its merits, since he recommends the addition of small quantities of it to ordinary cement and mortar. He believes that the addition of even as small a proportion as one-tenth as much brick-dust as sand to our ordinary mortars would prevent the disintegration so generally visible in the mortars used in the masonry of many of our public works. We have similar testimony as to the value of this material from quite independent sources. The use of brick-dust with lime and sand is said to be very generally and successfully practiced in the Spanish dominions as a substitute for hydraulic cement. F. B. Miles, now in Philadelphia, but who has spent a number of years in Cuba, engaged in engineering work, and who has had an abundant opportunity of testing the merit of the material, states, as his experience that it is in all respects superior to the best Rosendale hydraulic cement for culverts, drains, tanks or cisterns, and even for roofs, whether for setting flat tiles or for making the usual tropical flat roof. It is known in that country as a regular article of commerce. The proportions used in the manufacture are approximately one of brick-dust, one of lime and two of sand, mixed together dry and tempered with water in the usual way. Mr. Miles expresses the opinion in a communication on this subject some years ago, that as this material could be produced at a lower cost than cement, it should prove a profitable plan to utilize the waste and broken bricks by setting up pulverizing mills in all large brick yards. This suggestion we regard as a very practical one, and commend it to the notice of enterprising manufacturers as worthy of their serious consideration. —*Manufacturer and Builder.*

The "Canadian Contractors' Handbook," 50 cents to RECORD subscribers.

CONTRACTS OPEN.

PETROLIA, ONT.—A street railway is talked of for this place.

GLENCOR, ONT.—It is proposed to organize a Congregational church here.

MADOC, ONT.—Electric street lighting is under consideration of the Council.

BRANDON, MAN.—The Council have purchased a site for a new city hall.

CHIPPICWA, ONT.—The Presbyterians will erect a new church on the old site.

GANOQUE, ONT.—A water-works by-law will be voted on by the ratepayers a few days hence.

QUEBEC.—Competitive designs for the new hotel proposed to be erected by the Fortress Hotel Co. are to be in by the 15th inst.

LAMITON, ONT.—Louis Sliegman, Buffalo, representing a syndicate in that city, has bought a large tract of land along the river, presumably for manufactories.

ST. MARY'S, ONT.—A special joint committee of the council and board of trade are considering the preliminaries in connection with a new town hall and market building.

BELLEVILLE, ONT.—An offer has been made by capitalists to erect a fine hotel, on condition that the city shall keep the assessment on the same below \$15,000 for a period of ten years.

WINNIPEG, MAN.—A meeting of the City Council was called for last night to consider three propositions received from American companies for the building of electric street railways.

GUELPH, ONT.—A meeting of the congregation of St. James parish is to be held this (Saturday) evening to inspect plans for a new church. If satisfactory, tenders will be at once called for.

CALGARY, N. W. T.—There is said to be no doubt that the Calgary and Edmonton railroad will be built south as far as Macleod next season. All the money has been provided for building 300 miles of road, from Edmonton to Macleod.

LONDON, ONT.—The Council has given notice of its intention to construct sewers on English, Dundas, and Glebe streets, at an estimated cost of \$2,237.50; also to block pave Richmond street, between Fullerton and Ann streets, at an estimated cost of \$15,000.—The Council will ask tenders for the erection of an electric light station.

PORT ARTHUR, ONT.—Operations are about to commence by the syndicate which is to carry out extensive improvements at Kakabeka Falls. A branch line from the Port Arthur, Duluth & Western railroad will likely be built to the foot of the Falls, a distance of 15 miles. In the utilization of the power it is stated that a large electric plant will be put in.

KINGSTON, ONT.—It is the intention of the manufacturers of oil cloth to enlarge their factory to double its present size.—Tenders will be asked for the construction of sewers on Brock and Collingwood streets.—There is urgent demand for increased school accommodation.—Dr. Crabb has leased the Old Orchard house lot, Cape Vincent, for a long term of years, and will soon build a residence and office on the site of the old Dr. Webb house.

VANCOUVER, B. C.—A by-law will be introduced authorizing the Council to purchase and operate electric light plant.—The competition for suitable designs for a public library to cost \$19,000 has resulted in the adoption of the plans of Mr. G. W. Grant, Mr. W. R. King being awarded second prize, and Clow & McClure, third.—The plans of Mr. T. Hooper, architect, for a new Y. M. C. A. building have been approved, and tenders for construction will be immediately called for.—A building for the manufacturing of confectionery is to be erected.—The Sisters of the Good Shepherd are collecting subscriptions for the erection in this city of a Home for Fallen Women.

HAMILTON, ONT.—While it is admitted that there is great necessity for the erection of a Home for Incurables, the proposal that it should be under the management of one religious denomination is generally condemned. Public opinion favors its erection and support out of the public funds.—James Ballour, architect, will receive tenders up to noon on the 16th inst. for the construction of a granary for the Hamilton Street Railway Company.—Mr. Albert Pane has purchased 136 x 105 feet on the south-west corner of Main and Bay sts., it is presumed with the intention of erecting buildings thereon.—Geo. Bauer has obtained a building permit for the erection of a 2-storey brick house on Bay st., between York and Peter, cost \$1,000.

OTTAWA, ONT.—A preliminary survey is being made by the superintendent of the Rideau Canal, with the object of reclaiming a large area of drowned land between Brewer's Lock and Kingston Mills. A cut of nearly three miles extends westerly from Brewer's Locks, and here it is proposed to build a new lock, reducing the water-level about nine feet and doing away with one of the present four locks at Kingston Mills.—It is said the plans of the late Mr. Page for the enlargement of the Morrisburg Canal will be abandoned, and engineers sent out to make a new survey, with the view of the adoption of plans differing in some important respects from those of the late engineer, and that when these are received and specifications prepared, new tenders will be called for.

MONTREAL, QUE.—The City Surveyor gives notice that it is proposed to construct a sewer on St. Lawrence Market street, from St. Lawrence to St. Dominique street.—The following building permits have been granted:—Miller Bros. & Co., factory, stone and brick, cost \$3,000. Nelson & Clift, architects; Mrs. Geo. Swinborn, 2-storey wood and brick dwelling, Bagg St., cost \$1,000; Luparie Sudin, 2½-storey wood and brick dwelling, Darling St., cost \$1,500; P. McGorven, two 2½-storey wood and brick dwellings, St. Charles Borromie St., cost \$2,500; S. D. Vallans, 3-storey stone and brick tenement, Hutchinson St., cost \$3,005; Jos. Amioth, tenement house, wood and brick, 3-stories, St. Catharine St., cost \$2,500.—Ald. Prefontaine, who has just returned from New York, states his belief that the company incorporated at the last session of the Legislature for the purpose of constructing an elevated railroad, will begin the work early next year with a line along Craig street.

TORONTO, ONT.—Mr. Tennant, lumber merchant, will probably dispose of his present property on Harbord street, and erect a new residence on St. George street.—Mrs. Campbell will make extensive improvements, principally in the decorative line, in the interior of her residence, corner of Church and Carlton streets.—The Benchers of the Law Society are to have a meeting to-day to consider plans which have been prepared for a building to accommodate the Law School, the cost of which is estimated at \$50,000.—The construction of an asphalt pavement beneath the new covering of St. Lawrence market, at an estimated cost of \$6,000 is recommended.—The Executive Committee has been asked to provide funds for the construction of a railway along the Don improvement for the use of the Belt Line railway, at an estimated cost of \$20,000.—An asphalt pavement is to be constructed on Gerrard street, between Jarvis and Sherbourne streets.—A building permit has been granted the Bell Telephone Co. for the erection of a 3-storey bk. office building on Temperance street, to cost \$35,000.—The Militia Department has completed the plans and specifications of the Toronto drill shed, and as soon as the site is available the Public Works Department will be ready to ask for tenders.—The Property Committee of the High School Board have adopted the plans for the new High School in the north-western part of the city as amended by the Educational Depart-

ment.—An elaborately fitted up musical warehouse, containing professors' rooms, etc., is to be fitted up at the corner of Queen and Yonge sts by the manufacturers of the Karn piano, Woodstock, Ont.

CONTRACTS AWARDED.

WATERLOO, P. Q.—The contract for the Crinkshank factory has been let to Mr. W. R. Lefevre for \$4,000.

HARRISTON, ONT.—W. J. Davidson, of Drayton has secured the contract for building the new bridge across the Maitland river.

BELLEVILLE, ONT.—The contract for dredging the harbor has been awarded to the Weddel Dredging Company, of Trenton.

ST. THOMAS, ONT.—Mr. P. Meehan has let the contract for the mason work of three brick houses on the corner of Alma and Talbot streets to Horton Bros., cost \$1,800 each.

HAMILTON, ONT.—The Sewers Committee have awarded the contract for finishing the east end sewer to Joseph Kent at \$7,884. J. G. Pocock also tendered at \$11.70 per foot, which amounted to a lump sum of \$10,000.

W. TORONTO JUNCTION.—Mr. J. A. Ellis, architect, on September 5th awarded the contracts for the erection of factories for the Vermilyea Corset Co. and the Strachan Shoe Co., to Mr. Geo. R. Cumming, at \$3,730 and \$1,700 respectively.

The Rathbun Co. have received contracts for supplying porous terra cotta fireproofing for the following buildings:—Freehold Loan & Savings Company's building, Toronto; new Board of Trade building, Toronto; the Biological Library, Toronto; Y. M. C. A. building, Montreal; Sun Insurance Company's building, Montreal; The Nickel wing, Kingston Hospital.

MONTREAL, QUE.—The Water-Works Department has opened and awarded tenders as follows:—For seventy-five tons of pig lead—H. McLaren & Co., \$77.95; Thos. Robertson & Co., \$77.84; W. E. Gower, \$78.77; Jas. Robertson, \$80.50; B. J. Coghlin, \$78.00; Montreal Rolling Mills, \$79.22; awarded to Thos. Robertson & Co. For seventy-five nozzle hydrants—Miller Bros. & Toms, \$72.50; E. Chanteloup, \$78.00; Garth & Co., \$67.50; J. McDougall, \$70.00; W. E. Gower, \$69.25; awarded to Garth & Co. For the supply of special castings—Estate Chanteloup, \$48.00; Anesse, \$45.00; J. McDougall, \$45.00; Thos. Scanlan, \$44.75; H. R. Ives & Co., \$43.80; awarded to H. R. Ives & Co.

TO REMOVE STAINS FROM GRANITE.

A correspondent of the *Building News*, (London, England,) writes to that paper asking for information as to how best to get stains out of granite. Several correspondents reply. "Elbow Grease," says, "You have a troublesome job before you in attempting to get smoke and soot stains out of granite. Try this—A paste of 1 ounce ox-gall, 1 gill of strong solution of caustic soda, 1½ tablespoonful of turpentine with enough pipeclay to make it thick and consistent; scour well." "A Mason" is of opinion that "Washing is about as useful in getting stains of soot out of granite as tickling with a feather or fixing an electric belt round the window sill. Pick out a place where the stain is worst, and as a sample apply the following:—Mix together ¼ pound whiting, ¼ pound soft soap, 1 ounce of washing soda, and a piece of sulphate of soda as big as a walnut. Rub it over the surface you propose to treat, let it stand four-and-twenty hours, and then wash off. If it succeeds try another portion." "G. D. M." replies that "Smoke and soot stains can be removed with a hard scrubbing brush and fine sharp sand, to which add a little potash."

BLACKENED CEILINGS.

It is generally supposed, says *Industries*, that the use of the incandescent electric lamp completely obviates the blackening of ceilings. This is a mistake, however, as incandescent lamps do to some extent cause blackening. It is probable that the blackening from a gas lamp is not due to unconsumed carbon, but to the deposition of particles from a current of hot air. The incandescent lamp causes a current of hot air, which also deposits black particles; but, unless the lamp is near the ceiling it is not easily observed, as the current of air is, of course, smaller. It may be noticed in connection with this subject, that the mica guards and glass bells arranged over gas burners do not themselves blacken, and do not appreciably lessen the blackening of the ceiling. It is therefore probable that the deposit only takes place from hot air to a cold surface.

A PECULIAR LEAK IN A WATER-WORKS MAIN.

A peculiar leak in a cast-iron water main recently occurred at Greenville, Mich., and is described by E. H. Neff in *The Technic* for 1890.

A 12-inch main was laid across Flat River, and through the lowlands at one side it passed mostly through quicksand. Eighteen lengths of pipe were lowered by means of jack screws, and as a precaution against the springing of the joints but little yarn was used and the bell was run full of lead and thoroughly calked.

The pipe had been under a pressure of from 40 to 160 lbs. for about two months when bubbles arising near one of the banks betrayed a slight leak. Owing to press of work and the smallness of the leak immediate steps were not taken for its repair until about two weeks, when the water in the stream began to boil up furiously with a noise that could be heard for some distance. Upon examination it was found that the original leak had been through a series of blow-holes in the interior of the bell, while on the exterior was apparently perfectly sound. On reaching the outer edge the lip of the bell deflected the water, so that a stream about one-eighth of an inch in diameter struck the spigot about a half inch from the face of the bell, and this jet of water, with the sand at that point, had cut a hole in the top of the pipe about a half-inch in diameter, the pipe here being about a half-inch thick. In addition to the hole cut entirely through the pipe there was a groove about the hole some 1/4 x 3 1/2 inches. This piece was cut out and the break repaired by first inserting a cast-iron plug, and then bolting together and over the break a collar of flat iron 1/2-inch thick and 3-inches wide, having a recess over the hole. The lead about the small hole in the bell was cut away, the collar pressed close to the face of the bell, and finally the space in the bell and in the recess over the break were filled with lead and thoroughly calked. The repairs proved effectual.

SPECIFICATIONS FOR HARDWARE.

In view of the radical change now taking place in the character of the hardware used in all buildings of the better class, the older forms of descriptions hereto used in architects' specifications are generally inapplicable.

The practice of many architects at the present time is to stipulate in contracts that the hardware is to be properly fitted and secured in place by the contractor, but is to be furnished by the owner. It is suggested that this reservation is at present the best disposition of the matter, and that in no other way can the architect so fully insure for his client the obtaining of metal work suited in design and finish to its surroundings, and contributing its due share to the artistic effects of the building. The following form is submitted as giving effect to this suggestion:

HARDWARE. The following hardware to be furnished by the owner to the contractor, when reasonably required, viz: All locks, butts and trimmings for doors; all sash fasts and lifts for windows; all butts, catches, knobs and pulls for closets, cupboards, bookcases and drawers; all fixtures for French window sashes and for transom lights, and, in general, all metal work of ornamental character required for the trimming of the woodwork of the building. All hardware that is supplied by the owner to be carefully and properly fitted and attached in place by the contractor, special care being taken to protect the finished work from injury or soiling. All other hardware required to be furnished by the contractor.

A separate specification and form of contract to cover the hardware may reasonably be required in the case of important buildings to enable the owner to have the benefit of competitive bids. A specification of this kind should be drawn by some one familiar with modern hardware and well informed as to the character and style of work desired by the owner or selected by the architect. Unless such specifications are carefully drawn, the door is opened to the substitution of inferior goods.—*The Trefoil.*

Prices of Building Materials.

LUMBER.

CAR & CARGO LOTS.

1 1/2 and thicker clear picks, Am. ins.	\$30 00 @ 32 00
1 1/2 and thicker, three uppers, Am. ins.	37 00
1 1/2 and thicker, pickings, Am. ins.	27 00
2 x 10 and 12 dressing and better	18 00 20 00
2 x 10 and 12 mill run	13 00 14 00
2 x 10 and 12 dressing	14 00 16 00
2 x 10 and 12 common	12 00 13 00
2 x 10 and 12 spruce culls	10 00 11 00
2 x 10 and 12 maple culls	9 00
2 inch clear and picks	28 00 30 00
2 inch dressing and better	16 00 20 00
2 inch siding, mill run	14 00 16 00
2 inch siding, common	11 00 12 00
2 inch siding, ship culls	\$10 00 \$12 00
2 inch siding, mill culls	8 00 9 00
Cull scantling	8 00 9 00
1 1/2 and thicker cutting up plank	22 00 25 00
1 inch strips, 4 in. to 8 in. mill run	14 00 15 00
1 inch strips, common	11 00 12 00
1 1/2 inch flooring	14 00 15 00
1 1/2 inch flooring	14 00 16 00
XXX shingles, sawn	2 30 @ 2 35
XX shingles, sawn	1 30 1 35
Eastlake galvanized steel shingles, 24 W. G., per square	6 00
Eastlake galvanized steel shingles, 26 W. G., per square	5 00

Eastlake painted steel shingles, per sq.	4 00
Round pointed galvanized steel shingles, per sq.	6 00
Round pointed painted steel shingles	4 75
Round pointed, unpainted, Terno tin shingles	4 00
Manitoba galvanized, steel siding, per square	5 00
Manitoba painted steel siding, per sq.	3 50
Painted sheet steel pressed brick	3 50
Painted crimped steel sheeting	3 40
Price of Copper shingles according to weight.	

YARD QUOTATIONS.

Mill cull boards and scantling	10 00
Shipping cull boards, promiscuous widths	13 00
Shipping cull boards, stocks	14 00
Hemlock cantling and joist up to 16 ft.	11 00 12 00
" " " 18 "	12 00 13 00
" " " 20 "	13 00 14 00
Scantling and joist, up to 16 ft.	14 00
" " " 18 ft.	15 00
" " " 20 ft.	17 00
" " " 22 ft.	19 00
" " " 24 ft.	21 00
" " " 26 ft.	23 00
" " " 28 ft.	25 00
" " " 30 ft.	27 00
" " " 32 ft.	29 50
" " " 34 ft.	31 00
" " " 36 ft.	33 00
" " " 40 to 44 ft.	36 00
Cutting up planks, 1 1/2 and thicker, dry	23 00 26 00
Cedar for block paving, per cord	13 00 22 00
Cedar for Kerbing, 4 x 14, per M.	5 00 14 00

B. M.

1 1/2 inch flooring, dressed, F. M.	28 00 31 00
1 1/2 inch flooring rough, B. M.	18 00 22 00
1/4 " " dressed, F. M.	23 00 28 00
" " " undressed, B. M.	18 00 19 00
" " " dressed	18 00 22 00
" " " undressed	12 00 15 00
Beaded sheeting, dressed	22 00 35 00
Clapboarding, dressed	12 00
XXX sawn shingles, per M, 16 in.	2 65 2 75
Red oak	2 00 2 20
White	30 00 40 00
Basswood, No. 1 and 2	15 00 45 00
Cherry, No. 1 and 2	18 00 20 00
White ash, No. 1 and 2	70 00 70 00
Black ash, No. 1 and 2	25 00 25 00
Dressing stocks	20 00 30 00
Picks, American inspection	16 00 22 00
Three uppers, American inspection	40 00 50 00

BRICK—M

Common Walling	\$7 50
Sewer Facing	9 00
Sewer	8 50 9 00
Pressed Brick:	
Plain brick, f. o. b. at Milton, per M.	\$17 00
" " " 2nd quality, per M.	13 00
" " " 3rd " " "	10 00
Hard Building	8 00
Moulded and Ornamental, per 100	\$3 10 10 00
First quality, f. o. b. at Campbellville, per M	15 00
2nd " " " "	13 00
3rd " " " "	10 00
Hard Building	8 00
Ornamental, per 100	\$3 10 10 00
Tiles	24 00

Stone.

Common Rubble, Per Toise, delivered	14 00
Large flat " " Cubic Foot.	13 00
Foundation Blocks, " "	35

Slate: Roofing (per square).

" red	16 00
" purple	9 00
" unslating green	9 00
" black slate	7 50
Terra Cotta Tile, per sq	25 00
Ornamental Black Slate Roofing	8 00

Sand:

Per Load of 1 1/2 Cubic Yards	1 25
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PAINTS. (In oil, per lb.)

White lead, Can.	6 25 6 50
" zinc, Can.	6 1/2 7 50
Red lead, Eng.	5 1/2 6 1/2
" venetian	1 60 1 75
" vermilion	90 1 00
" Indian, Eng.	10 12
Yellow ochre	5 10
Yellow chrome	15 20
Green, chrome	7 12
" Paris	25 40
Black, lamp	15 25
Blue, ultramarine	15 25
Oil, linseed, raw (per Imp. gallon)	68 70
" " boiled	72 75
" " refined	78 80
Putty	2 1/2 2 1/2
Whiting, dry	75 1 00
Paris white Eng. dry	90 1 25
Litharge, Am.	6 1/2 8
Sienna, burnt	15 20
Umber,	8 1/2 12

CEMENT, LIME, etc.

Lime, Per Barrel of 2 bushels, Grey.	40
" " White	55
Plaster, Calcined, New Brunswick	2 00
" " Nova Scotia	2 00
Hair, Plasterers', per bag	1 00
Cement, Portland, per bbl.	2 80 3 00
" Thorold, "	1 50
" Queenston, "	1 50
" Napanee, "	1 50
" Hull, "	1 50

HARDWARE.

Out Nails:

American Pattern, 1 1/2 inch, per keg..	4 05
" " 1 1/2 to 1 3/4 inch, per keg	3 30
Canadian Pattern, 1 1/2 inch, per keg...	3 55
" " 1 1/2 to 1 3/4 inch, per keg	3 05
" " 2 to 2 1/2 inch, "	3 05
" " 2 1/2 to 3 inch, "	2 80
" " 3 inch and larger.....	2 55
Steel nails 10c. per keg extra.	
Finishing nails, 1 inch, per keg.....	5 65
" " 1 1/2 inch, "	4 95
" " 1 3/4 " " " " " " " "	4 40
" " 1 1/2 " " " " " " " "	4 15
" " and larger.....	3 90

MONTREAL PRICES.

Lumber, Etc.

Ash, 1 to 4 in, M.....	\$13 00@18 00
Birch, 1 to 4 inch, M.....	15 00 25 00
Baswood.....	12 00 20 00
Walnut, per M.....	50 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, 2nd quality, M.....	20 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.....	2 00 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

Out 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 1/2 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 inch.....	75 cents
Finishing Nails, per 100 lb. keg 1 1/2 inch.....	advance on
and 1 1/2 inch.....	Hot-Cut
nishing Nails, per 100 lb keg, 2 inch and up.....	Nails.

Paints, etc.

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

Oils:

Linseed, raw.....	0 3 0 55
" " boiled.....	0 66 0 68
Olive, pure.....	1 10 1 15
" " machinery.....	95 1 05
" " extra, qt., per case.....	3 00 3 25
" " pis.....	2 50 3 60
" " 1/2 pis.....	2 75 3 10
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