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# THE Canadian Contract Record

A Weekly Journal of Advance Information and Public Works.

Vol. 1.

Toronto, Canada, May 3, 1890.

No. 12

## 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."

Subscription Price of "Canadian Architect and Builder" (including "Canadian Contract Record") \$2 per annum, payable in advance.

**C. H. MORTIMER, Publisher.**

14 KING ST. WEST, TORONTO, CANADA.

The purpose of this journal is to supply Contractors, Manufacturers and Dealers throughout Canada, with advance information regarding contracts open to tender, and to furnish Architects, Municipal and other Corporations with a direct medium of communication with Contractors.

*Information from any part of the Dominion regarding contracts open to tender will be gratefully received.*

### 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 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.*

### THE CUBIC CONTENTS IN CEMENT BARRELS.

In our issue of Feb. 8 a correspondent puts a question concerning the cubic capacity of Portland cement barrels as placed on the market by various makers. The fact is that there is no fixed standard of size of barrel, and each manufacturer of cement makes a barrel that will hold a fixed quantity of his cement, as measured by the "struck bushel." And as cements vary much in weight, the barrels to hold this cement must be proportioned accordingly.

The query referred to has brought several replies, and giving these as sent us, and tabulating them, we have the following for barrels of various brands :

Brand.	Weight.	Bushels.	Cubic contents.
Keene's Portland	400 lbs.	3½	(loose) 4.25 cu. ft.
Francis "			3.38 "
White Bros "			3.16 "
Johnstone "			3.38 "
Improved Anchor Copely Co.			3.32 "
Saylor's American Portland.			2.85 "
Alsens, German Portland.			3.33 "
Louisville, natural cement.			3.75 "

A well-known manufacturer of cement writes us that in this country cement is packed in barrels ranging from 15 to 18 in. in diameter at the head. Cement is also sold by the "barrel," but the weight may vary from 265 to 300 lbs. net per barrel. He says the western cements, such as Louisville, Akron and Utica are sold at 280 lbs. gross, and 265 lbs. net per barrel; the Potomac cements at 300 lbs. gross, and 280 lbs. net, and the Rosendales of New York and Pennsylvania, the heaviest of natural cements, at 320 lbs. gross, and 300 lbs. net per barrel.

The size of the barrel, while generally larger for the lighter

cements, may also be made so, owing to hand-packing and the absence of proper machinery for compressing the cement in the barrels. This is often the case in smaller works; and the same rule applies to Portland cements, where a light-burned Portland, weighing 100 lbs. to the struck bushel, will require a larger barrel to give the consumer 380 lbs. net weight, than if a heavy-burned Portland were used weighing 118 lbs. to 125 lbs. per struck bushel. In the trade, 380 lbs. net constitutes a "barrel" of Portland cement.—*Engineering News.*

### EQUALIZING TABLES OF AREAS OF PIPES.

The accompanying table is a useful one for engineers and steam fitters. It gives the extreme number of small pipes that are equal in area to one larger pipe. Its practical use is learned quickest by giving an example. Suppose that instead of having one 3" pipe, it was thought better to have a number of ½" pipes, giving in all the same area as the area of the 3" pipe. Looking at the table we find at the top of the eighth vertical column 3", and immediately underneath this and on the horizontal row of figures with ½" we find 24, which is the number of ½" pipes required to give the same area as the 3" pipe.

The internal area of the 3" pipe is given at the bottom of the vertical column, as 7.388. The internal area of ½" pipe is .3048, which, multiplied by 24, is .3048 × 24 = 7.315.

Column.	12.	11.	10.	9.	8.	7.	6.	5.	4.	3.	2.	1.	Internal Areas of Pipes.
Sizes of Pipes.	5-in.	4½-in.	4-in.	3½-in.	3-in.	2½-in.	2-in.	1½-in.	1¼-in.	1-in.	¾-in.	½-in.	
	65.	52.	41.	32.	24.	15.6	11.	6.6	4.9	2.8	1.7	1.	
	37.	30.	23.	18.	13.8	8.9	5.2	3.8	2.6	1.6	1.	1.	
	23.	18.	14.	11.	8.5	5.5	3.8	2.3	1.7	1.	1.	1.	
	13.	10.	8.	6.6	4.9	3.1	2.3	1.3	1.	1.	1.	1.	
	9.7	7.7	6.2	4.8	3.6	2.3	1.3	1.	1.	1.	1.	1.	
	5.3	4.7	3.6	2.9	2.2	1.4	1.	1.	1.	1.	1.	1.	
	4.1	3.3	2.6	2.	1.5	1.	1.	1.	1.	1.	1.	1.	
	2.7	2.1	1.7	1.3	1.	1.	1.	1.	1.	1.	1.	1.	
	1.6	1.2	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	
	1.2	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	
	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	
	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	
	19.99	15.93	12.73	9.887	7.388	4.783	3.355	2.038	1.196	.8627	.5333	.3048	

Example 2. Suppose, instead of one 5" pipe, a number of 1" pipes is wanted. The area of 5" is given as 19.99. Under the 5" vertical column, No. 12, and on the horizontal row of figures with 1", we find 23.

The internal area of 1" pipe is .8627, which, multiplied by 23, is .8627 × 23 = 19.84.—*American Engineer.*

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

CALENDAR.																														
1890							1890							1890							1890									
Jan.	Tue.	Wed.	Thurs.	Friday	Saturday	Sunday	Jan.	Tue.	Wed.	Thurs.	Friday	Saturday	Sunday	Jan.	Tue.	Wed.	Thurs.	Friday	Saturday	Sunday	Jan.	Tue.	Wed.	Thurs.	Friday	Saturday	Sunday			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

# CONTRACTS

## CONTRACTS OPEN.

**THAMESVILLE, ONT.**—A fire hall will be erected.

**NAPANEE, ONT.**—Mr. John Thompson will erect a brick residence.

**MAGOG, QUE.**—F. E. Culis is having plans prepared for a hotel building.

**SPRINGHILL, N. S.**—A new school building will be erected here at a cost of \$3,500.

**VICTORIA, B. C.**—Pandora St. Presbyterian Church is to be enlarged at a cost of \$6,000.

**PORTAGE LA PRAIRIE, MAN.**—Messrs. Martin and Curtis talk of erecting an opera house.

**SHERBROOKE, QUE.**—Mr. H. A. Odell will erect a terrace of dwelling houses on Melbourne street.

**WOODSTOCK, N. B.**—Mr. John Graham is preparing to build a brick block on the south side of Queen street.

**BOTHWELL, ONT.**—It is expected that the Erie & Huron Railway Co. will spend \$30,000 in improvements here.

**ACTON, ONT.**—Messrs. W. H. Storey & Son, glove manufacturers, contemplate an addition to their buckskin tannery.

**WINNIPEG, MAN.**—A syndicate of capitalists will erect an opera house near the post office, at an estimated cost of \$40,000.

**GUELPH, ONT.**—Mr. John H. Kydd has bought a site on Glasgow street for a fine residence which it is his intention to erect this season.

**WOODSTOCK, ONT.**—A committee of prominent citizens has been appointed to secure subscriptions towards the erection of a public hospital.

**OTTAWA, ONT.**—A new Episcopal church will be erected here, as the result of some differences of opinion in the congregation of St. George's church.

**BRAMPTON, ONT.**—The ratepayers have voted for the expenditure of \$14,000 to purchase a site for a branch factory for Messrs. R. W. Young & Co., of Hamilton.

**QUEBEC.**—A new hospital to cost upwards of \$100,000 is to be erected immediately between Palace Hill and Rampart street. It will be under control of the ladies of the Hotel Dieu.

**W. TORONTO JUNCTION.**—Mr. J. A. Ellis, architect, has in course of preparation plans for a residence for Mr. D. W. Clendennan, three houses for Mr. Farquhar, of the Junction, and a store for Mr. Sullivan, Port Anhur, Ont.

**HAMILTON, ONT.**—The Hamilton Vinegar Company will erect a large storehouse.—The City Engineer recommends the immediate construction of an asphalt sidewalk on the north side of King St. between Ferguson Avenue and Cathcart St.—The Hannah Street Methodist Church will be enlarged at an estimated cost of \$7,000.

**LONDON, ONT.**—St. George's church, London South, has purchased a lot from the Peters estate adjoining their present property. The building committee has decided to proceed with the new church as soon as possible.—A sewer will be constructed on Horton St. and a block pavement on King St. from Clarence to Richmond St.

**BRANTFORD, ONT.**—The ratepayers have voted \$163,233 to be expended as follows: For construction of electric fire alarm system, Collegiate Institute purposes and Police Court buildings, \$13,223; \$80,000 for construction of sewerage system and \$30,000 for extension of water works; \$40,000 for construction of new Central School building.

**BROCKVILLE, ONT.**—A Toronto architect has just submitted plans for a handsome residence which Mr. Anson Jones purposes erecting on his river bank property opposite Smith's Island.—Tenders for sewer pipe are invited by the City Engineer until Thursday the 8th inst.—At Carlton Island W.

H. Gray, of Springfield, Mass., and C. M. Stanley, of Ithaca, N. Y., are to put up handsome cottages. Congressman R. P. Flower, of New York, Gen. Curtis, of St. Lawrence Co., Jefferson Brockway, of Watertown, and P. Stearns, of Kingston, also contemplate building fine summer residences on the lots purchased by them last August. Capt. Sweeney, of Wheeling, West Virginia, will probably erect ten handsome cottages the present spring. Several parties are talking of building a hotel there.

**TORONTO, ONT.**—The butchers of the city have signified approval of the city council's proposal to erect a public abattoir.—Plans for a branch library building on College street have received the approval of the Public Library Board. Tenders will be called for the work after the plans shall have been considered by the Property Committee of the city council. The library management also recommend the erection of a fire-proof reference library at an estimated cost of \$30,000.—The plans prepared by Mr. Dick, architect, for the restoration of Toronto University buildings have been approved by the University authorities.—The following building permits have been granted: Michael Martin, pr. 1-storey and mansard bk. fronted dwells., Berkeley St., north of Queen, cost \$2,400; Geo. Pudsey, three att. 1-storey and mansard bk. fronted dwells., Duchess St., east of Berkeley, cost \$1,500; W. D. Hutson, 2-storey and attic bk. dwell. and additions north side Cecil St., nr. Spadina Ave., cost \$4,000; Clark Bros., 2-storey r. c. stable, south side Hayden St., cost \$1,500; W. Brand, 2-storey and attic bk. dwell., 45 Gloucester St., cost \$3,500; Scott & Cross, 3-storey bk. factory, Hayter St., cost \$6,500; R. J. Irwin, 4-storey bk. warehouse, 74 Adelaide St. west, cost \$12,000; Mrs. McPeak, 1-storey and mansard bk. fronted dwell., 64 McGill St.—The Berkeley St. fire station will be enlarged.

**MONTREAL, QUE.**—The Road Committee intend paving the following streets this season:—William street, from McCord street to Canning street; Craig street, from Lacroix street to DeLorimier avenue; Craig street, from Victoria Square to St. James street; Victoria Square, from St. James street to Jurois street; St. James street, from Victoria Square to Railroad street; St. Peter street, from Craig street to St. James street; St. Peter's street, from Notre Dame street to Commissioners street; St. Catherine street, from D-Lorimier avenue to Panet street; St. Catherine street, from Amherst street to St. Denis street; St. Catherine street, from University street to Guy street; St. Lawrence street, from Craig street to Lagauchetiere street; Papineau Square and Road, from Notre Dame street to St. Catherine street; Notre Dame street, from Monarque street to Frontenac street; St. Lambert Hill, from Craig street to St. James street; Place d'Armes Hill, from Craig street to St. James street; Wellington street, from St. Patrick street to Mullins street; Sherbrooke street, from St. Denis street to Union avenue.—Provisional officers of the Montreal Bridge Company have been appointed, consisting of Henry Hogan, president; Hon. J. R. Thibauudeau, vice-president; C. N. Armstrong, managing director; Robert Watson, secretary. Immediate steps will be taken to obtain stock subscriptions and also the necessary plans and detailed estimates for the construction of the bridge, which are expected to be ready by the first week in June.—It is intended to entirely renovate St. Lambert station and make a new waiting room.—The Roads Committee recommends that St. James street be widened from Bonaventure depot to Fulford street, the estimated cost being \$115,000.—The Mayor of Cote St. Louis will take immediate steps to extend the municipality main sewer.

## CONTRACTS AWARDED.

**WILLIAMSVILLE, ONT.**—The contracts for the Methodist church have been awarded as follows: Mason work, J. Gray; carpentering, W. H. Rogers. The building will cost \$2,000.

**MONTREAL, QUE.**—The Roads Committee have accepted tenders as follows: Tamarac floats, 70 cents, Mr. J. B. Grier; white pine, one inch boards, tongued and grooved, \$14 per 1,000 feet; white pine, one inch boards, rough, \$11.75 per 1,000 feet; spruce, \$10.50, and yellow pine, \$31.56, Mr. G. A. Grier; spikes, wrought iron, Messrs. Peck, Benny & Co., \$3.15 per 100 pounds. Coal, Scotch steam, delivered at the quarry, \$4.10 per ton, and delivered at the yard in the city, \$3.50; anthracite (turnace size, screened), \$3.15; smith's coal, \$5.50, Mr. T. W. Torrance. Portland cement, Mr. J. Brissette, 500 barrels, 79 cents per 100 pounds; Messrs. W. & F. P. Currie & Co., 1,300 barrels, 62½ cents per 100 pounds. Iron castings, Messrs. Garth & Co., \$1.84 per pound. Shovels, Messrs. Frothingham & Workman. The remainder of the hardware contracts will be considered at next meeting.

**TORONTO, ONT.**—The contract for laying the water works mains for the present year was awarded to Burns & McCormack, provided the mileage is laid in accordance with last year's procedure. The contract will amount to \$24,777.34.—Tenders for water works supplies have been accepted as follows: Cast iron pipe, St. Lawrence Foundry; stop valves, John Perkins; special casting, Treloar, Blackford & Co.; pig lead, M. & L. Samuel, Benjamin & Co., lead pipe, Ontario Lead and Barb Wire Co.; hydrants, John Perkins; iron stopcock boxes, St. Lawrence Foundry Co.; valve and meter chambers, William Stoilery; rubber valves and packing, Gutta Percha and Rubber Manufacturing Co.; lumber, Bryce Bros.; oak stops, Chas. Bates; lubricating oils, Samuel Rogers & Co., and McColl Bros. & Co. (divided); brass castings, Wilson & Cousins; check valves, 6 and 12 inch, John Abell; fence at Rosehill reservoir, Joseph Shore; bar iron and steel, Rice Lewis & Son.



<b>Stone.</b>		
Common Rubble, Per Toise, delivered	14	00
Large flat " "	18	00
Foundation Blocks, " Cubic Foot..		35
<b>Slates: Roofing (9 square).</b>		
" red.....	16	00
" purple.....	9	00
" unslating green.....	9	00
" black slate.....	7	50
Terra Cotta Tile, per sq.....	85	00
Ornamental Black Slate Roofing.....		8 00
<b>Sand:</b>		
Per Load of 1 1/2 Cubic Yards.....	1	25
<b>PAINTS. (In oil, 5 lb.)</b>		
White lead, Can.....	6 25	6 50
" zinc, Can.....	6 1/2	7 50
Red lead, Eng.....	5 1/2	6 1/2
" vermilion.....	1 50	1 75
" vermilion.....	90	1 00
" Indian, Eng.....	10	15
Yellow ochre.....	5	25
Yellow chrome.....	7	12
Green, chrome.....	7	12
" Paris.....	25	40
Black, lamp.....	15	25
Blue, ultramarine.....	15	25
Oil, linseed, raw (8 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
Sicenna, burnt.....	15	20
Umber, ".....	8 1/2	12
<b>CEMENT, LIME, etc.</b>		
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.....	3 00	3 50
" Thorold, ".....		2 50
" Queenston, ".....		1 50
" Napanee, ".....		1 50
" Hull, ".....		1 50
<b>HARDWARE.</b>		
<b>Cut Nails:</b>		
American Pattern, 1 1/2 inch, per keg.....	4	40
" " 1 1/2 to 1 3/4 inch, per keg.....	3	65
Canadian Pattern, 1 1/2 inch, per keg.....	3	90
" " 1 1/2 to 1 3/4 inch, per keg.....	3	30
" " 2 to 2 1/2 inch, ".....	3	40
" " 2 1/2 to 3 inch, ".....	3	15
" " 3 inch and larger.....	2	90
Steel nails roc. per keg extra.....		5 90
Finishing nails, 1 inch, per keg.....		5 20
" " 1 1/2 ".....		4 95
" " 1 3/4 " and larger.....		4 20
<b>MONTREAL PRICES.</b>		
<b>Lumber, Etc.</b>		
Ash, 1 to 4 in, M.....	\$13 00@18 00	
Birch, 1 to 4 inch, M.....	12 00	25 00
Basswood.....	20 00	20 00
Walnut, per M.....	50 00	100 00
Butternut, per M.....	60 00	40 00
Cedar, flat.....	60 00	60 00
Cherry, per M.....	15 00	17 00
Elm, Soft, 1st.....	25 00	30 00
Elm, Rock.....	20 00	21 00
Maple, hard, M.....	16 00	18 00
Maple, Soft.....	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
" " 2nd.....	1 25	1 50
<b>Cement, etc.</b>		
Portland Cement, per barrel.....	\$ 70@ 5 00	
Roman.....	7 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	\$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.....	3 50	5 60
" " 1 1/2 inch.....	4 25	5 20
Can. Pattern, cold-cut, 1 1/2 and 1 3/4 inch.....	3 25	4 45
" " 1 1/2 inch.....	3 75	5 95
Finishing Nails, per 100 lb. keg, 1 1/2 to 1 3/4 inch.....	75 cents	advance on
Hot-cut Nails.....		
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	2 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 3	0 55
" " boiled.....	0 60	0 58
Olive, pure.....	1 10	1 15
" " machinery.....	95	1 05
" " extra, qt., per case.....	3 00	3 25
" " pts.....	2 50	2 60
" " 1/2 pts.....	2 75	3 10
Spirits turpentine.....	0 67	0 70

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