# Technical and Bibliographic Notes / Notes techniques et bibliographiques

copy av	titute nas ailable fo bibliograp	r filming phically	g. Featur unique, v	es of this which ma	copy way alter a	hich			i	ui a é exemp	té pos daire d	sible d qui so	de se p nt peu	ie me procur it-être	er. Le uniqu	es dét ues du	ails de poin	cet t de v	ue
significa	mages in t antly char d below.	-	-			re			r	eproc	luite, e a méth	ou qu	i peu	uvent vent e le de f	xiger (	une m	odific	ation	
1 1	oloured c ouverture		leur							- 1	Coloui Pages (	•	•						
1 1	overs dan ouverture	_	magée								Pages ( Pages (			es					
1 1	overs resto ouverture										_			d/or la t/ou p					
1 3	over title e titre de	_		ue						. / !	_			, stain tache					
1 1	oloured m artes géog	-	es en cou	leur						- 1	Pages ( Pages (								
1	oloured in ncre de co	-				re)				1/ I	Showt Fransp	_							
1 1	oloured planches et				ir					1/ 1	Qualit Qualit			aries/ l'imp	ressio	n			
	ound with elié avec c			ts						•	Contin Pagina			ation/ ue	,				
ald all	ight bindi ong interi a reliure so	or margi	in/							1	nclud Compi			)/ s) inde	ex				
di	storsion le	e long d	e la marge	e intérieu	ire									ken fr te pro					
wi	ithin the t en omitte	ext. Wi	henever p filming/	ossible, t	these hav	ie				1	Fitle p Page d	-		/ livrai	son				
lo m	se peut que ro rs d'une ro ais, lorsque re été film	estaurat ie cela é	ion appar	aissent d	ans le te	xte,				- 1	Captio Fitre d			la liv	raison				
þa	s été film	ees.									Masthe Généri	•	périod	liques	<b>d</b> e la	livrai	ison		
- 1	dditional ( ommentai		•	res:															
	n is filme ment est i																		
10X		14	3×		18X			2	2X				26X		/		30 X		1
	12X			16X			20X				244				<u> </u>				222
	IZĀ			107			ZUX				24X				28X				32X

This paper reaches every week the Town and City Clerks, Town and City Engineers, County Clerks and County Engineers, Purchasers of Municipal Debentures and leading Contractors in all lines throughout Canada.

Vol. 6.

APRIL 4, 1895

No. 9.

#### THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY THURSDAY 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,

CONFRDERATION LIFE BUILDING, TORONTO. Telephone 2362.

New York Life. Insurance Building, Montreal.
Bell Telephone 2299.

Information solicited from any part of the Dominion regarding contracts open to tender.

Advertising Rates on application.

Subscribers who may change their address should give prompt notice of same. In doing so, give both old and new address. Notely the publisher of any irregularity in delivery of paper.

# **Notice to Contractors**

#### CANADIAN CONTRACTOR'S HAND-BOOK

A new and thoroughly revised edition of the Ganadian Contractor's Hand-Book, consisting of 150 pages of the most carefully selected material, is now ready, and will be sent post-paid to any address in Canada on receipt of price. This book should be in the hands of every architect, builder and contractor who desires to have readily accessible and properly authenticated information on a wide variety of subjects adapted to his

on a wide variety of subjects adapted to his daily requirements.

Price, \$1.50, to subscribers of the CANADIAN ARCHITECT AND BUILDER, \$1.00. Address

C. H. MORTIMER, Publisher,
Confederation Life Building, TORONTO.



## NOTICE TO CONTRACTORS

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to 11 o clock a. m. on SATURDAY, APRIL 6, 1895, for the following works:

#### CONCRETE SIDEWALKS

On Lombard street, north side, from Victoria street to Church street.

On Adelaide street, north side, from the post office to Church street, except opposite Nos. 60% and 62.

#### ASPHALT PAVEMENT

On Leader lane, from King street to Colborne street.

Specifications may be seen and forms of tender obtained at the office of the City Engineer, Toronto, on and after March 30, 1895.

A marked cheque payable to the order of the City Treasurer, for the sum of 2½ per cent on the amount of the work tendered for, must accompany each and every tender, otherwise it will be ruled out as informal. The lowest or any tender not necessarily accepted

DANIEL LAMB, Chairman Committee on Works

# **TENDERS**

Sealed tenders, marked "Waterworks," will be re-cei-ed by the undersigned on or before the

1st of May, 1895,

For the construction of

## A SYSTEM OF WATERWORKS AND SEWERAGE IN THE TOWN OF SUDBURY, ONT.

Plans, specifications, etc., can be seen and forms of tender hadat the following places:

Office of Gordon & Rorke, Engineers, Sudbury.

"Montreal Star, Montreal.

"Messis McPherson, Clark & Jarvis, Bar-

Messis McPherson, Clark & Jarvis, Barristers, Toronto.

An accepted bank cheque, equal to 5 per cent. of the amount of tender must accompany each tender. This cheque will be forfested if the party declines to enter into the contract and will be returned in case of non-acceptance of tender.

The house of tender.

The lowest or any tender not necessarily accepted.

March 18, 1895.

A. FERRIS, Clerk Town of Sudbury

# NOTICE TO CONTRACTORS

Sealed tenders will be received by the Chairman of the Board of Works until the

# 26th day of April, 1895

at 7 p.m. for the construction of Cement Sidewalks that may be required to be laid by the corporation of the City of Guelph during the current year.

All proposals must be on the blank forms furnished by the city and must bear the bear fide signatures of the contractor and his sureries, and must be accompanied by a certified check for \$250, drawn on some bank doing business in the city and payable to the order of the Cny Treasurer, as a guaranty that contract will be executed in case of award.

Each hidder is required to make a statement indicating what sidewalk work he has done, or to give references that will enable the Board to judge of his experience and business standing.

Specification, blank forms and all available information will be furnished intending budders on application at the office of the Engineer.

The Board reserves the right to reject any or all tenders.

JOHN NEWSTEAD, Chairman Board of Works, Guelph.

J. HUTCHEON, City Engineer.



# Notice to Contractors

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to 11 o'clock a.m. on SATURDAY, APRIL 6711, 1895, for the

## DREDGING OF WATER SLIPS

Specifications may be seen and forms of tender obtained on and after Monday, April 1st, 1855, at the office of the City Engineer.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 2½ per cent, on the value of the work tendered for must accompany each and every tender, otherwise it will not be entertained.

All tenders must beat the bona fide supratures of the

All tenders must bear the bona fide signatures of the contractor and his sureties (see specifications) or they will be ruled out as informal.

The commutee does not bind itself to accept the

lowest or any tender.

DANIEL LAMB, Chairman Committee on Works

City Hall, Toronto, March 28th, 1805.

# TENDERS FOR DEBENTURES

The Municipal Council of the City of Nanamo invite proposals up to MONDAY, 29111 APRIL, 1895, endorsed "Tender for Debentures," for the purchase of

#### \$10,500.00 DEBENTURES

issued under the authority of the Commercial Filling By-Law, 1894. The Council reserves the right to reject the highest or any proposal.

S. GOUGH, City Clerk.

Nanaimo, B. C., 2and March, 1895.

# **Notice to Contractors**

Sealed tenders, separate or bulk, will be received by the undersigned up to 12 c'clock, moon, WEDNES-DAY, APRIL 1711, 1895, for the Brickwork, Plaster-ing, Carpenter and Joiner's work, Slating and Painting required in the erection of a

#### RESIDENCE

for David Lloyd in the Town of Newmarket, according to plans and specifications prepared for the same by Wm. Bunney, Registered Architect, Newmarket. Plans and specifications can be seen at Mr. David Lloyd's office, Main Street, Newmarket, on and after Tuesday, April 9th, 1895.

The lowest or any tender not necessarily accepted.

DAVID LLOYD.

Newmarket, April 1st, 1895.

STRENGTH OF MORTAR. That the common belief among builders that it is better practice to mix lime mortar and let it lie in a heap some days previous to use is well founded has been proven by recent experiments made in England. In the tests samples of mortar were taken, on successive days, from two separate heaps of large size, briquettes were made therefrom, and, after an interval of some weeks, were broken for estimation of tensile strength. The brick 50 days old, which was made from mortar that had been in the heap three days, showed an average breaking weight of 34.6 pounds; while a brick 45 days old, made from mortar which had been in the heap after mixing seven days, required 41.5 pounds strain.

The Hamilton Bridge Works are applying to the Dominion Government for a charter to acquire the business of the Hamilton Bridge Company, and have elected the following directors: W. Hendric, John S. Hendric, C. S. Murray, John H. Tilden and H. C. Symmes, Niagara Falls South.

A. W. Godson, contractor, of Toronto, has assigned to E. R. C. Clarkson. For some years past he was engaged in contracting for civic works, and recently, in conjunction with Arthur Ardagh and the tate Arthur Leonard, organized the Construction and Paving Company, of which he was president. This company is not affected by the assignment.

Committee Rooms, Toronto, March 25, 1895.

#### CONTRACTS OPEN.

BANDA, ONT. - The Presbyterians will build a new church.

NOVAR, ONT.—A new Presbyterian church is to be built here.

WHITECHURCH, ONT.—A Presbyterian church will be erected here.

SCHONBERG, ONT. A new Baptist church will probably be built here.

GANANOQUE, ONT.—A. M. Gamble intends building an addition to his hotel.

NEW GLASGOW, N. S.—A Y. M. C. A. building, to cost \$10,000, will be erected here this spring.

BARRIEFIELD, ONT.— Mrs. Grange will erect a new residence on the site of the one recently burned.

ST. THOMAS, ONT.—The trustees of the First Methodist church have decided to rebuild on the old site.

OSHAWA, ONT.—The Pedlar Metal Roofing Co. propose making extensive additions to their factory.

BRANTFORD, ONT.—The Waterous Engine Works Company have invited plans for their proposed new works.

HAMILTON, ONT. - The plans prepared by Mr. Reeve, architect, for the proposed city gaol will probably be accepted.

QUEBEC, QUE.—The authorities of the Jeffrey Hale hospital have purchased a site for their proposed new hospital. The structure will cost \$60,000.

CAYUGA, ONT.—A ioint stock company has been formed for the purpose of erecting a three story Masonic block here. Operations will be commenced at once.

SHAWVILLE, QUE.—J. J. Turner, Jas. M. Hodgins and John Caldwell will each erect new dwellings this summer.—Fred. Hodgins contemplates erecting an addition to his store.

KINGSTON, ONT.—The plans submitted by W. Newlands, architect, for the new operating amphitheatre in connection with the general nospital have been accepted. The building will cost about \$3,000.

BRUCEFIELD, ONT.—Tenders are invited until the 10th inst. for building a brick or frame cheese factory for the Brucefield Cheese Manufacturing Company. Address Alex. Mustard for particulars.

ST. JOHN, N. B.—Tenders for lighting the streets with electricity are invited by the City Clerk until Monday, the 15th inst.—White, Colwell & Co., wholesale confectioners, are contemplating the erection of a five-story brick building, 40 × 100 feet in size.

HALIFAN, N. S.—Plans are now being prepared by the Department of Railways and Canals, Ottawa, for coal sheds and other buildings to replace those recently burned here.—Work on the trestle work and wooden crib work for the new coal wharf will be commenced at once.

COLLINGWOOD, ONT.—Plans are being prepared for the erection of a wing to the Collingwood Marine Hospital, by architect Fred. T. Hodgson. The proposed building will be 48 feet long by thirty-four feet wide. Two storey and basement. Hot water system of heating.—The Catholics will build a separate school.

VICTORIA, B. C.—Messrs. Keating, of Toronto, and Haskins, of Hamilton, the experts appointed to examine the plans sent in for the proposed filter beds, have selected the plan of Mr. Jorgenson, of this city, as the most suitable. The plan calls for downward filtration through sand, gravel and rocks. The capacity of the beds is given as two million gallons, and that of the reservoir as 5,500,000 gallons. The cost of the execution is placed at \$60,000.

ANTIGONISH, N. S.—Tenders are invited by D. A. Chisholm, on behalf of the Board of Governors of the College of St. Francois Xavier, until Tuesday the 16th

inst., for the construction of an extension to the College kuchen to be completed this searon, and that on the dwelling house to be commenced in the spring of 1896. Plans may be seen at the College or at the office of J. C. Dumaresq, architect, Halifax; tenders are invited at the same time for heating the above mentioned buildings with steam or hot water, contractors to furnish their own plans.

MONTREAL, QUE.-The building of a new city hall is talked of at St. Cunegonde on the site occupied by the present one.-Messrs. Roy & Gauthier, architects, are preparing plans for alterations and additions to the church of the parish of St. Laurent.- Mr. C. St. Jean, architect, has prepared plans and will shortly call for tenders for a Presbytery at St. Jerome, Que.

WINNIPEG, MAN.—It is understood that a site has been selected for the proposed Masonic temple.—Mr. McGowan, architect. is preparing plans for a solid brick building, on stone foundation, 50 × 90 feet, to be built at the corner of Main and James streets for W. J. Christie and G. Broughall.—S. Frank Peters, architect, will shortly make a tour of several American cities in connection with the proposed change in the interior arrangement of the Claiendon hotel, and with a view of securing the best possible plans.—Five detached houses at the corner of York and Garry streets will be enlarged this spring.

OTTAWA, ONT – The sum of \$15,000 will be expended on waterworks extensions. The following have been decided upon: 12-inch main on Sussex street, between Rideau and St. Patrick; 15-inch main on Somerset street, between Bank and Kent; 5-inch main from Beechwood to Chapleau ave. The main on Rideau street, between Friel and Augusta, will be lowered and 30 new hydrants put in.—Tenders are invited by the Public School Board until Saturday next, the 6th inst., for an addition to Elgin street school, in accordance with plans prepared by M. C. Edey, architect, 51 Sparks street. Tenders are also asked for supplying one or three boilers for heating apparatus. Address, Wm. Rea, Secretary.

LONDON, ONT.-The Medical Health Officer has recommended the erection of a new smallpox hospital.—The City Council will shortly consider the question of permanent pavements on Dundas and Richmond streets. The merits of asphalt and vitrified brick will be discussed. Mr. S. F. Glass, of this city, has bought a lot at Pottersburg, on which he will build this season—Joseph Nicholson will build a two-story brick residence on Piccadilly street.—The vestry of St. John's church have decided to erect an addition to the Sunday school, which will nearly double the seating capacity. Several other improvements to the church are contemplated.—J. D. O'Neil, proprietor of the Gosling hotel, proposes to erect an addition to the hotel. A brick stable will also be built.—Mr. Matthews, architect, has been instructed to prepare plans for a new residence on Central avenue for D. S. Perrin, also for a residence for Joseph Smith, to be built on Princess avenue, near Waterloo street.—The City Engineer has granted the following building permits: George Bonser, brick cottage, corner of Askin and Teresa streets, cost \$1,200; Ald. A. Callahan, two-story bk. dwelling on Piccadilly street, cost \$2,350; Mrs. May, brick cottage on Queen's avenue, between Adelaide and Elizabeth streets, cost \$1,300; Mrs. Joseph T. Burridge, brick cottage on Riverview avenue,

TORONTO, ONT. — Messrs. Darling, Sproatt & Pearson, architects, have prepared plans for a residence to be erected in Elmsley place, for Mr. A. Dickson Patterson, to be built of brick. —

meeting of cit:zens was held last week to consider the question of erecting an art building, and a committee was appointed to act in conjunction with the Art Association Building Committee with a view to carrying out the scheme.—It is Harris Company to build a large addition to their present factory. The building will be a four-storey wing, extending 90 feet north. The bacement will be used for testing malleable castings, the first floor as a tool room, second floor as a pattern and experimental .com, and the top floor as a paint mixing room. large four-storey building at the east end of the moulding shop will be converted into a fire-proof building for the storage of patterns. – The sergeants of the Queen's Own Rifles are considering plans for the erection of a new mess, to cost from \$25,000 to \$30,000. It will be located just north of the new armories, and will be a brick and stone structure, fitted with modern conveniences, including gymnasiums, billiard rooms, bowling alleys, and swimming baths.—The Property Committee at its last meeting adopted the report of the sub committee recommending the remodelling of the Bay street fire hall and the erection of a building in the rear of the Lombard street fire hall in which to store one of the new fire engines. It was decided to engage an architect to prepare plans for the work. - The borings which have been taken by the City Engineer in connection with the proposed tunnel across the bay indicate that no engineering difficulties are likely to be met with, and it is urged by the Mayor that the work should be proceeded with without delay. The engineer's report has been sent to the Board of Works.—The House of Industry will ask the City Council for a grant of \$35,000 for the erection of a new building. The City Countion of a new building. The City Council has given notice of its intention to construct the following works: sewer on Pears avenue, Avenue road to Bedford road, cost \$4,628; asphalt pavement on St. Joseph street, Yonge street to St. Vincent street, cost \$6,900; asphalt pavement on Selby street, Huntley street to Sherbourne street, cost \$4,640; Concrete sidewalk on Church street, King street to Wellington street, cost \$885; concrete sidewalk on church street, es. King sidewalk on church street, e.s., King street to Front street, cost \$1,400.—Mr. W. J. Gage has asked the co-operation of the Board of Trade in securing the erection of a hospital for consumptive patients and a committee has been appointed to act in conjunction with other deputations to interview the Government on the subject.—Tenders are invited by Mr. John Hallam, Chairman Parks and Gardens Committee, until Tucsday, the 9th inst. for a steam boiler for the Island Park electric light station. Specifications may be seen at the office of the Park Commissioner, St. Laurence Hall.—A building permit has been grated to Isabel Gray, for the erection of a five-story bk. warehouse, 24-26 Wellington st., cost \$20,000.

#### FIRES.

The drying house of the Royal City Planing Mills, Vancouver, B. C., was burned last week. Loss on building, \$5,000. It will be rebuilt at once.—Fire at Arna, Ont., last week, destroyed Wm. Fraleigh's hotel, Edwin Brook's hotel, Jas. Ralph's building, Wm. Wyatts two story store and James Grant's dwelling. The loss in each case partially covered by insurance.—Wm. Ewen's residence at Owen Sound, Ont., was damaged by fire last week to the extent of \$1,200.—A two-story frame dwelling at Strathroy, Ont., owned by the Canada Permanent Building Society of Toronto, has been destroyed by the Loss on building, \$1,000.

—The two-story brick residence of Hugh McCartney at Brucefield, Ont., was

burned last week; partially insured.—A block of stores at Chatham, Ont., owned by James Lamont, G. Richardson and G. E. Young, were burned on the 31st inst. The insurance on the buildings amounted to \$11,000 which will nearly cover the loss. A large building owned by M. Houston was also burned. Loss, \$10,000. —A fire occurred at Summerside, P. E. I., on the 30th inst. which destroyed The Journal building, R. C. McLeod's carriage depot and warehouse, J. D. Reid's warehouse, Bank of Nova Scotia, D. Mc-Kinnon's grocery store and warehouse, McIntyre's hotel, J. A. Gourlie's drug store and George Muttart's store. Loss, estimated at \$35,000. Insurance, \$15,000.

A brick building, Nos. 48-50 Lombard street Toronto, was completely gutted by fire on Tuesday last. The loss is placed at \$20,000.—A store and dwelling at Beachville, Ont., owned by J. Fairbairn, of Woodstock, was burned on Monday last.—Bowden's factory at Port Rowan, Ont., which was being converted into a hotel, was destroyed by fire on the 1st inst. Loss \$3,500; insurance \$2,200.—A residence at Foley, Ont., owned by the Trust and Loan Co., of Oshawa, was burned recently. Insurance, \$1,500.—The Court House at Regina, N. W. T., was consumed by fire a few days ago. The building was valued at \$14,000.

#### CONTRACTS AWARDED.

CALGARY, N. W. T .- Thomas Underwood, of this place, has been awarded the contract by the Dominion Government for the erection of the Indian Industrial school here.

FREDERICTON, ONT.—The contract for Hoegg & Co.'s canning factory has been let to Albert Sanderson.—Ald. Limerick has contracted to build a new residence for T. C. Allen.

TORONTO, ONT .- The Fire and Light Committee have accepted tenders for equipments for Bolton avenue fire hall as follows; two horse hose waggons, Wilham Vokes, \$247.60; two one horse hose waggons, \$285.20; hook and ladder truck, Smith Bros., \$418. The tenders for chemical fire engines were referred to a committee for a report.

LONDON, ONT. - Herbert Matthews LONDON, ONT. — Herbert Matthews, architect, has awarded contracts as follows for three dwellings on Richmond street for C. 1!. Tune . masonry, Moran & Ridge; carpentry, Joseph Holmes. The cost of the houses will be about \$1,600 each.—The City Council has accepted the tender of the Gutta Percha & Pubber Co. of Toronto for 1000 feet of Rubber Co., of Toronto, for 1000 feet of Fabric hose, at 90 cents per foot.

LEVIS, QUE.-D. Ouellet, architect, of Quebec, has awarded contracts for the work at the church vestiary and Presbytery of Notre Dame of Levis as follows: Jos. Conture, masonry, \$6,037; O. Michaud, woodwork of vestiary and Presbytery, \$5,800; Jos. Gosselin, woodwork for church pews, etc., \$5,482; Alph. Verreault, painters' work, \$4,777. The contract for carving and gilding will be awarded next week.

OTTAWA, ONT.—The lowest tender received by the Public Works Department for the Peterboro' and Lakefield division of the Trent Valley Canal is from Brown, Love & Aylmer, of Toronto, to whom the contract will probably be awarded. The value of the contract is about \$350,000 for six miles of canal work.—Smith & Haney, of this city, have secured the contract to repair the breaksecured the contract to repair the break-water at Rustico, P. E. I.—The Public Works Department has awarded the contract for improving the channel on the Ottawa River, near Pembroke, to W. J.

WINNIPEG, MAN.—The Fire and Light Committee received only two tenders for lighting the streets with electricity. Mr. Bathgate, representing the company now holding the contract, tendered for 121 lights at 54 cents each per night, and for each additional light from 30 up to 200, at 52 cents. John Ingram tendered at 52 cents each per night for 121 lights, 51 cents each for 30 additional lights, and 50 cents each for 50 or more additional lights. The latter tender has been recommended for acceptance. The Finance Committee of the City Council have accepted the tender of O'Hara & Co., of Toronto, for the purchase of \$50,000 of debentures. The price is \$96.67.

#### BUSINESS NOTES.

A partnership has been registered by Brunet & Frere, contractors, Montreal.

Arthur Lavallee, contractor, Montreal, is reported to be in financial difficulties.

H. Clavel & Fils, painters and decorators, have commenced business in Montreal.

A. C. St. Armour, roofer, Montreal, has assigned, with liabilities of \$8,460 and assets of \$5,972.

John Boyd & Co., plumbers' goods, Vancouver, B. C., have dissolved. W. L. Newsome retires.

Gerome Lecomte, Fils & Cie have formed a partnership in Montreal, as plumbers, roofers, etc.

John and Thos. Glenny have been registered proprietors of John Glenny & Co., painters, Montreal.

Alex, and Thomas Ward have formed a partnership in Montreal as contractors, under the style of A. Ward & Son.

A syndicate is being formed in Ottawa, with a capital of \$100,000 for the manufacture of artificial rock for building purposes.

H. L. Walker has retired from the firm of Walker & Mahoney, plumbers and gas fitters, Guelph, Ont., and the business will be continued under the style of Mahoney Bros.

J. W. Schaub, formerly engineer for the Carnegie Steel Company, Pittsburg, and late chief engineer of the Detroit Bridge Works has been appointed chief engineer and manager for the company.

The firm of McRae & Co., dealers in cement and Contractors' supplies, Ottawa, Ont., are in embarrassed circumstances, and are reported to be seeking an extension of time. The liabilities are placed at \$45,000, and assets show a fair surplus.

# WILLIS CHIPMAN, B.A.Sc.,

M. Can. Soc. C.E.; M. Am. Soc. C. E.; M. Am. W. W. Ass'n.

#### CIVIL AND SANITARY ENGINEER

Water Works - Scwerage Sewage Disposal 103 BAY STREET - TORON TORONTO.

# J. McDOUGALL, C. E.,

GENERAL MUNICIPAL ENGINEER

Consulting Engineer for Municipalities in regard to
Electric Railway and other Franchises.
Specialties: Bridges, Foundations, Electric Railways, and Roads, Surveys made, Plans, Specifications and Agreements prepared, and work superintended.
GOURT HOUSE, - TORONTO.

#### JOHN D. EVANS, O.L.S.

MEM. CAN. SOC. C. L.
LAND SURVEYOR

Civil Engineer : Architect
and Patent Solicitor.

Special attention given to Consulting and
Municipal Work.

GRASS' BLOCK, FRONT ST., TRENTON, ONT.

# JOHN GALT, C.E.&M.E.

(Member Can. Soc. C. E.)

## Consulting Engineer and Expert

Specialties: Water Supply and Sewerage, etc. Electric Power, Lighting, Railways. etc.

Offices:

Canada Life Building - TORONTO

# ALAN MACDOUCALL

M. Can. Soc. C.E. M. Inst. C.E.

#### CIVIL AND SANITARY ENGINEER

32 East Adelaide St. TORONTO

SURVEYS AND ESTIMATES PREPARED for all classes of municipal work, water powers, road improvement. Construction superintended.

#### GEO. WHITE-FRASER

C.E., D.T.S., A. AM. INST. ELEC. FNG.
CONSULTING

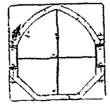
ELECTRICAL ENGINEER

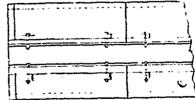
Electric Railways and Electric Light. SPECIALTY: Specification and Superintendence of

MUNICIPAL PLANTS.

18 Imperial Loan Building

#### HERCULES INDESTRUCTIBLE CULVERT





20 per cent more water-way than circular form. Strength Durability
Cheapness.

Made in sizes of 20 in., 24 in, 30 in., 3 ft. 4 in. and 5 ft.

EDWIN W. SMITH

344 Garth St., Hamilton, Ont.

# ARTIFICIAL STONE PAVEMENTS.





# CORPORATIONS

Will do well to consider our work and prices before letting contracts.

# THE SILICA BARYTIC STONE COMPANY OF Head Office: Ingersoll, Ont.

WALTER MILLS, General Manager.

#### MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS

#### BRICK DUST MORTAR.

The use of brick dust mortar as a substitute for hydraulic cement, where the latter can not be obtained, is now recommended on the best engineering authority experiments made with mixtures of brick dust and quick lime showing that blocks of one-half inch in thickness, after immersion in water for four months, bore without crushing, crumbling or splitting, a pressure of 1500 pounds per square inch. It is considered, too, that the addition of even as small a proportion as one-tenth as much brick dust as sand to ordinary mortars is preventive of the disintegration so often characterizing mortars used in the masonry of public works. The use of brick dust mixed with lime and sand is said to be generally and successfully practiced in the Spanish Dominions, and is stated to be in all respects superior to the best Rosendale hydraulic cement in the construction of culverts, drains, tanks or cisterns, and even roofs, whether for setting flat tiles or for making the usual tropical flat roof. The proportions used there 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.-Southern Architect.

#### USEFUL HINTS.

A peculiar substitute for window glass known as "tectorium," is stated to have been employed in Austria, Italy, Germany, Switzerland and Russia as a covering for hothouses, marquees, verandas, windows or factories, roofs and stores, etc. It is a special, insoluble, bichtomated, gelantine, translucent as opal and incorporated in wire sauze.

The following is said to make a good coating for damp walls :- Thirty parts of tin are dissolved in 40 parts of muriatic acid, and 30 parts of sal-ammoniac are added. A powder composed of freestone, 50 parts; zinc oxide, 20 parts; pounded glass, 15 parts; powdered marble, 10 parts; and calcined magnesia, 5 parts is prepared and made into a paste with the liquid above mentioned. Colouring matter may be added. The composition may be used as a damp-proof coating for walls, or for repairing stonework, or for moulding statues or ornaments.

A French metallurgist, M. Mazure, has brought out a fluid for producing a dead black on the surface of finished ironwork. The formula is a fluid compound of 1 part bismuth chloride, 2 parts mercury bichloride, 1 part copper chloride, 6 parts hydrochloric acid, 5 parts alcohol, and 50 parts water. The iron is first made clean and bright, and is then dipped into or brushed over with the liquid, which is then allowed to dry on. Then the metal is dipped into boiling water and kept there for thirty minutes. The operation is repeated if not at first satisfactory. The colour is then fixed by boiling in oil for a tew minutes, or by boiling the surface and heating it till the oil burns off.

#### DEBENTURES PURCHASED

Municipalities issuing debentures, no matter for what purpose, will find a ready purchaser by applying to O. A. STIMSON, D Toronto Street, Toronto.

Any assistance required in computing calculations in connection with sinking fund, etc., will be gladly given. N.B.-Money to loan at lowest rates on first mortgage

# Imperial Trusts Company of Canada

32 CHURCH STREET, TORONTO
Capital, \$400,000.
The Company is ready at all times to purchase
MUNICIPAL DEBENTURES and has always
such Securities on hand for sale. Allows 4 micrest
per annum on money.

L. S. LOCKIR, Manager. J. S. LOCKIB, Manager.

# The London and Canadian Loan

and Agency Co., Ltd.
Capital, \$5,000,000.00.
MUNICIPAL DEBENTURES PURCHASED.
MONEY TO LOAN AT CURRENT RATES 103 Bay St., Toronto. - J F. KIRK, Manager.

We Manufacture the

#### THOROLD HYDRAULIC CEMENT

the best and cheapest for all kinds of Masonry work. Used on all Government and Municipal works, also on the Grand Trunk Railway.

Write us for prices or any other information required.

ESTATE OF JOHN BATTLE

THOROLD, ONTARIO

#### DEBENTURES PURCHASED.

WE will pay the highest price for MUNICIPAL DEBRNTURES. We tender our services to those not having books to make for them the calculations necessary when issuing debentures payable in annual instalments. ÆMILIUS JARVIS & CO. (Member loronto Stock Exchange), 23 King St. W., Toronto.

### EUREKA CONCRETE (

FOR SIDEWALKS. STABLE FLOORS, CELLAR FLOORS. BREWERY FLOORS, ETC.

# A. GARDNER & GO.

17 Yonge St. Arcade -Telephone 2147

#### **Paving Granite**

Granite Sets for Street Paving.

CURBING cut to any shape ordered. Quarries, St. Phillipe d'Argenteuil, P. Q.

Address all communications to

JOS. BRUNET - COTE DES NEIGES, MONTREAL

# Artificial **Granite Stone Pavements**

. . . FOR . . .

STREETS, SIDEWALKS, BASEMENT FLOORS, ETC.

The attention of municipalities and others interested is called to the excellence of this material.

#### GRAHAM

Sole Proprietor and Patentee 226 Picendilly St, - LONDON, ONT.

# Drummond McCall Pipe Foundry Company, MONTREAL

MANUFACTURERS OF

Works: Lachine, Que.

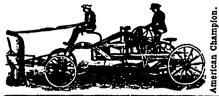
PRICES ON APPLICATION.

# SANADA PIPE AND FOUNDRY CO. . . . .

# Cast Iron Pipes and Special Castings

Works: MONTREAL AND ST. HENRI, QUE. CORRESPONDENCE SOLICITED.

THE COPP BROS. CO., LTD. Hamilton, Canada, Manufacturers of both these Road Machines.





# G. & J. BROWN MFG. CO.

Railway and Contractors' Plant.

BELLEVILLE, ONT.

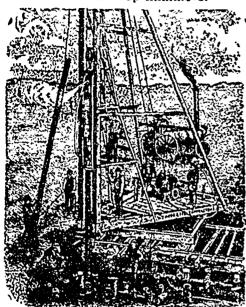
MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS

# WM. HOOD & SON

Contractors

MONTREAL, QUE.

are prepared to do piling on land or water, employing steam pile drivers or drop hammers.



Hoisting Machinery, Portable Boilers and Pumping Machinery to Let.

WM. HOOD & SON

MONTREAL

Municipal Officers, Contractors and others are requested to mention the CONTRACT RECORD when corresponding with advertisers.

# HAMILTON AND TORONTO SEWER PIPE CO.



SEWERS

AND WATER PIPES.

INVERTS

Fire Brick Sewers
Write for Discounts

HEAD OFFICE AND FACTORY: HAMILTON, CANADA.

# THE STANDARD DRAIN PIPE CO.

OF ST. JOHNS, P, Q., (LIM.)

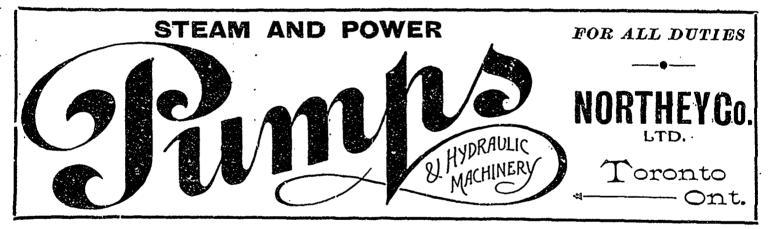


AND ALL KINDS OF FIRE CLAY

Manufacturers of Salt-Glazed
Vitrified

# SEWER PIPES

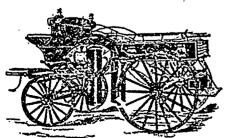
Double Strength Railway Culvert Pipes, Inverts, Vents, GOODS-



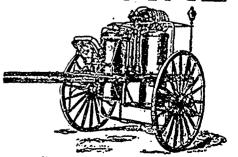
# Kingston Chemical Fire Engine Go.

MANUFACTURERS OF THE

# WILSON OHEMICAL FIRE ENGINE







This machine is the most powerful fire fighter. It has two cylinders, 40 gallons capacity each. The combination of chemicals will not freeze, renders material with which it comes in contact non-inflammable, and will not corrode when not in use. For full particulars, write to the Head Office of the Company at Kingston.

D. D. WILSON, Managing Salesman.

JOHN BREDEN, Sec.-Treas., KINGSTON, ONT.

For reference address H. YOULDEN, Chief Fire Department, Kingston.



#### FEVER HOSPITALS.

Mr. T. W. Aldwrickle, in a paper on the above subject before the British Institute of Architects, recently said :--English communities nowadays recognised the advantage of isolation hospitals as a means of preventing the spread of infectious diseases from persons who cannot be properly isolated in their own homes. But too often the provision of such hospitals is put off until some infectious disease is immediately threatening, or has actually invaded, a district. It cannot be too clearly understood that an isolation hospital, to fulfil its proper purpose of sanitary defence, ought to be in readiness beforehand. During the process of an epidemic it was of little avail to set about hospital construction. The mischief of allowing infection to spread from first cases will already have been done, and this mischief cannot be repaired.

Large villages, and groups of adjacent villages, would commonly require the same sort of provision as towns. Where good roads and proper arrangements for the conveyance of sick have been provided the best arrangements for village populations was by a small building accessible from several villages; otherwise, the requisite accommodation for, say four cases of infectious diseases in a village, might at times be got in a fairly isolated and otherwise suitable four-room or six-room cottage which has been acquired by the Sanitary Authority, or by arrangement made beforehand with some trust-worthy cottage holders, not having children, that they should receive and nurse, on occasion, patients requiring such accommodation.

In towns, hospital accommodation for infectious diseases was wanted more constantly, as well as in larger amount, than in villages, and in towns there is greater probability that room will be wanted at the same time for two or more infectious diseases, which have to be treated separ ately. The permanent provision to be made in a town should consist of not less than four-rooms, in two separate pairs, each pair to receive the sufferers from one infectious disease, men and women of coarse separately. The number of cases for which permanent provision should be made must depend upon various considerations, among which the size and growth of the town, the housing and habits of its population, and the traffic of the town with other places are the most important.

For a town the hospital provision ought to consist of wards in one or more permanent buildings, with space enough for the erection of other wards, temporary or permanent. Considerations of ultimate economy make it wise to have permanent buildings sufficient for somewhat more than the average necessities of the place, so that recourse to temporary extensions may less often be necessary. And in any case, it is well to make the administrative offices somewhat in excess of the wants of the permanent wards; because thus, at little additional first cost, they will be ready to serve when occasion comes for the wants of temporary extensions.

#### FIRE PROTECTION.

A lecture on the above subject was recently delivered before the Society of Arts. London, by Mr. Edwin O. Sachs. He pointed out that towns awed their safety from fire, not so much to brigades, as to preventive legislation based on the practical experience and research of architects, engineers, and fire experts. Fire protection was a combination of fire protection, fire combating, and fire research. Preventive measures might be partly contained in the local building Acts and partly in a separate code of fire survey regulations, supplemented by special rules as to the treatment of extraordinary risks, such as the storage of petroleum, the manufacture of explosives, and the performance of plays. Self-help for the shopkeeper, the lodger, or the private householder could scarcely be regulated. There were places where, without any regulation being attempted, and thanks entirely to the influence of training in classes, most residences could boast of a hand-pump, a bucket, and a crow-bar, the proper use of which was known to most of the household. Self-help in small risks must be distinctly encouraged by the authorities, without any irksome interference with personal liberty, simply by the provision of street pillar-boxes with the necessaries of first aid, including perhaps a couple of scaling-ladders, and, further, the arrangement of some opportunities for householders to learn how to handle them. The link between selt-help and outside help was the fire-call. The efficiency of the fire-call depended not only on the instrument employed and its position, but also on its conspicuousness and the indications given to find its whereabouts. As to the organised outside help, it need not simply be limited to the attendance of the fire brigade. Special arrangements might be made for the attendance of the local police force, a public or private salvage corps, an ambulance, or in cases a military guard. Arrangements might further be made for the attendance of the water and gas companies' servants, even officials from the public works office and insurance survevors. The author laid stress on the point that the efficiency of the outside help depended in the first instance on the clear definition of duties and powers of all concerned, then on the organisation, and last, but by no means least, the prestige, the social standing, the education of commanders and their ability to handle men easily. In dealing with the provisions of local by-laws for protection from fire the author urged that if a locality had a proper fire-brigade and the force was decently handled, spreads of fire from one house to

another could be absolutely barred. The division of a building or a large "risk" into a number of minor ones was only possible to a certain extent. In lieu of spending enormous sums trying to make each of the minor "risks" impregnable, the aim should be to try to retard the spread for a certain limited time after the flames had really taken hold of the contents. In those minutes most fires would have been discovered, and a sufficient number of firemen could be on the spot to localize the outbreak, and prevent the conflagration being a big one. In a warehouse or factory, with well-built wooden floors, thickly pugged, and the ceilings perhaps run on wire-netting instead of on laths, with ordinary doubleledged doors safely hung, at the most, perhaps, lined with sheet-iron on asbestos cloth, a very stiff blaze could be imprisoned for an hour. The general mistake of expensive iron and concrete construction was its aptitude to allow some breach being easily made through which the fire spread. Directly a fire had got a hold, these composite floors were, again, much too dangerous for firemen to work on, or under. Further, if a strong stream of water touched the hot iron there was often an extra danger; and after the fire had been extinguished, the ironwork would be so damaged that it would require entirerenewal, and the brickwork would probably be so strained and bulged that the re-erection would have to commence from the footing. A simpler construction was in most cases the most satisfactory. The few iron and concrete floors, for instance, which would stand some strain were too expensive to allow their introduction for fire protection alone, for it was not only the expense of the floors which had to be considered, but that also of the supports and the surrounding walls. All shaft openings should be as small as possible, well armed with shutters, and the lift have not only vertical doors, but also horizontal flaps, which would cut up the well into sections. Division of "risks," commonsense construction, and proper staircase accommodation were really all that fire protection required, and where the special Building Act clauses had been kept within the lines indicated there had been little friction and discontent. As to the fire survey regulations, they should mainly prevent the actual outbreak of fire. In certain classes of risks fire survey could also increase the personal safety of the inmates, and the possibility of a fire spreading might be lessened. The actual preventive work of the survey would, however, mostly consist in the warning of property owners against temporary stoves standing on ordinary floor-boards, sooty chimneys, badly hung lamps, dangerous burners, and gas brackets fixed in risky positions. So far as the safety of the public in theatres and public assembly halls was concerned, attention should be chiefly given to the exits. Spread of fire, and even its outbreak, were secondary considerations, for a panic caused by a suspicion of fire would be quite as fatal as where a conflagration was actually started.

# CENTRAL BRIDGE AND - -- ENGINEERING COMPANY,

(LIMITED)

Peterborough, Ont.

WM. H. LAW - Manager and Engineer, MANUPACTURBES OF

# RAILWAY AND HIGHWAY

Viaduots, Piers, Roofs, Turntables. Girders and Architectural Work.

CAPACITY: 5,000 TONS PER ANNUM.

Water Works Fire Hydrants Stop Valves

BOILERS, TOWERS &C , ENGINES AND GENERAL WORK

JNO. PERKINS CO'Y
Toronto Engine Works . . . . TORONTO

# Fire Bricks and Cement

**DRAIN AND WATER PIPES** SANITARY EARTHENWARE LONDON PORTLAND CEMENT GUARANTEED GENUINE.

Paving and Scoria Bricks for Stables, Sidewalks, Yards, etc.

Large quantities on hand and to arrive. We handle only the best quality. Prices lower than ever.

# F. HYDE & CO.

MONTREAL,

31 Wellington Street, - MONTREAL
Sole Agents for
THE "GRAHTRYX" SMOKE TEST AND DISINFECTING MACHINE.

#### INDEX TO ADVERTISEMENTS

Granite

Monting

Brunet, Jos....

in the "Canadian Architect and Builder."

Architects. Ontario Directory		1111	
Church Reflectors Frink, I.P	Ontario Directory	lin - i - lviill II vivi ix V xiiii IIViii vinivix V V	<del>-</del>
Furniture. Can. Office & School Furniture Co iv Office Specialty Co II Snider, J. B iv Church Reflectors Frink, I. P II Oontractors' Plant and Machis.ery	ware. Rice Lewis & Son I Creosoto Stains Cabot, Samuel I	v	
and Machin ery	Furniture. Can. Office & School Furniture Co Office Specialty Co Snider, J. B Church Reflectors Frink, I. P	iv II iv II	
	and Machin sry		

	Cementa.
1	Bremner, Alex
	Currie&Co, W.&F P x Dartnell, E. t vi
•	Magune Br s i
	Owen Sound Portland
i	Cement Co III
•	Cut Stone Con
•	tractors.
ı	Isaac BrosIII
i	Onkley & Holmes 111
i	Chimney Topping.
ſ	
	Breinner, Alex IV Currie&Co., W &F.P. x
l	Drain Pipe
	Bremner, Alex IV Currie &Co., W&F.P. x
i	Hamilton and Toronto
•	Sewer Pipe Co x
	Sewer Pipe Co x Maguire Bros 1 Standard Drain Pipe
x	Co II
	•
7	Dumb Waiters
Ķ	King & Son, Warden iii
r K ii	Electric Wiring
	Rogers & Doss IV
Į	4
/ ii	Elevators
	Fensom, John IV Leitch & Turnbull I
	Williams, A. R x
i	
i	Engravers.
i X	Can. Photo-Eng Bu- reau iii
•	
	Fire Brick and Clay
7	Bremner, Alex IV Currie& Co, W & F P x
	Currie& Co, W & F P x
7	Maguire Bros 1 Standard Drain Pice
	Co II
v	Galvanized Iron Workers,
I	
Y	Tucker & Dillon II Douglas Bros II
	Douglas Bros II Ornisby & Co., A. B. I
I	
	Grates and Tiles.

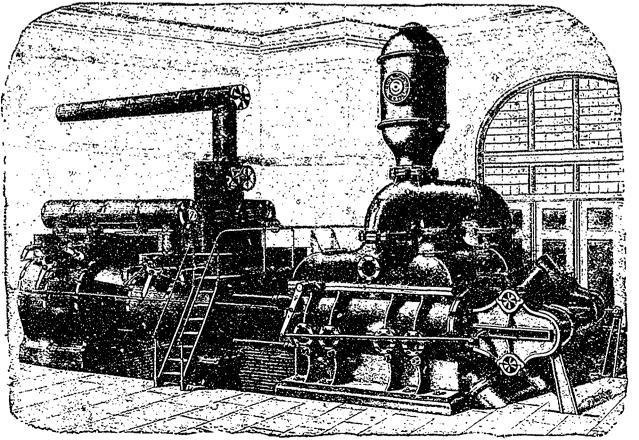
Holbrook&Mollington i Rice Lewis & Son....IV

Coments.

Gurney Foundry Co. 11 King & Son, Warden iii	R
King & Son, Warden iii Ormsby & Co., A. B 1 Toronto Ruduator Mfg	W
Williams, A. R x	P
Currie & Co, W & F P. x Ontario Lime Associa- tion	D
Legal: Bentl y & Co., W.B it Denton & Dods ii	S
Mortur Colors and Shingle Stains. Cabot Samuel, IV Maguire Bros	c
Mulrhend, Andrew 1 Ornamental Plasterers.	S
Baker, J. D vi Hynes, W J vii	S
Paints & Varnishes. Muirhead, Andrew i	DE
Painters. Gilmor & CaseyIII  Paving. The Guelich Silica	G H H
The Guelich Silica Barytic Stone Co IV  Plusterers	L L Q
Hynes, W. J vii  Plumbing Supplies	(
Campbell & Purvis ix Dominion Sanitary Pottery Co ix Sanitas Mfg. Co ix	E
McKae & Co viii	S
Hobbs Mfg. Co iv McCausland & Son iv The Consolidated Plate Glass Co ii	Ą
Parquetry Floors Elliott & Son I Elliott, W H vi	7
Plumbers Ballantyne, James ii	S

	* * *- **-
	Ruofers
	Douglas Bros
	Douglas Bros Duthie & Sons, G Hutson, W. D 11 Rennie & Son, R 11 Stewart, W. T 11 Williams & Co. H. 11
11	Hutson, W. D 11
ii	Rennie & Son, R II
1	Stewart, W. T II Williams & Co., H II
	Williams & Co., H II
٧	Roofing Materials
x	Pedlar Roofing Co vii
	Sanitary Appli.
x	
1	Dominion Sanitary
•	Pottery Co ix
	Dominion Sanitary Pottery Co ix McRae & Co viii Sanitas Mfg. Co ix Toronto Steel Clad Bath
iı	Sanitas Mfg. Co ix
ıi 💮	Toronto Steel Clad Bath
_	& Metal Co vii
į.	Shinala State
	Shingle Stains
V	Cabot, Samuel IV
ì	Sliding Blinds
1	Claturant
	Clatworthy, Geo ii
	Seaman, Kent & Co., vii
vi	Stained and Decora.
ii	tive Glass
ÿ.	Castle & Son
i	Ellion & Co iv
	Grimson C % I B
11	Hobbs MG Co
-	Horwood & Sone U
	McCausland & Sons, H iv
v	Longhurst, H iv
•	
	Quesnel, Sharpe & Co. iv
rii	
8	Wall Paper and
	TERRITOR DECORATIONS
ix	Elliott & Son I Elliott, W. H vi
ix	Elliott, W. H vi
ix ix	VI
iit	WireManufacturers
	Shipway Mfg Co ii
iv	Wall Plaster
iv	
	Albert Mfg. Co i Nowell & Co. B. L vii
ii	Nowell & Co. B. L vii
	Wall Tie
ī	Mac Machine Co iv
vi	
٠.	Window Blinds
	Clatworthy, Geo iii
ii	Seaman, Kent & Co., vii
-	,
_	

Caledonian Iron Works



OFFICE:

Corner William and Seigneurs Streets,

MONTREAL

# HYDRAULIC MACHINERY

CONDENSERS

A50 ...

WATERWORKS SUPPLIES

# WATER METERS

and Meters for all

MANIFALT RES

Machinery for Flee trical Work, etc., etc Boilers, Engines . borgings, Girders, Castings, Shafts, Pulleys, Gears, Bearings,

AGENTS IN CANADA FOR THE

Famous Worthington Pumps

# Prices of Building Materials.

CONDITION OF THE MARKET.

TORONTO: The reports of proposed building operations from the different cities and towns indicate that the season of 1895 is opening with a satisfactory outlook, and the volume of trade will in all probability be in excess of last year. Prices of building materials are likely to remain firm. In hardware, trade continues to improve, and a number of carload lots have been shipped. Cut and wire nails are moving freely. Cement and firebrick are somewhat quiet, and prices remain inchanged. Lead and iron pipe and galvanized iron are moving freely and some large orders are reported. Considerable plate glass is being sent, out.

MONTREAL: Orders are being placed for spring trade, which has a tendency to keep prices firm. A moderate demand is reported for cement, and some enquiries have been made for forward importations. Firebricks are quiet. The heavy iron and metal market is dull, with no changes to note. Glass is steady and quotations remain at \$1.15 to \$1.20 for first break, and \$1.25 to \$2.30 for second.

#### LUMBER.

CAR OR CAR			
CAR OR CAR			
	Toronto.	Mont	real.
	\$ .\$	\$	\$
the to a clear picks. Am ins	33 ∞@36 ∞		∯45 ∞
the to 2 three uppers, Am ins.	37 00 26 00	2700	45 00 30 00
r incr. clear		52 50	60 00
3 x 10 and 12 dressing and 1 better	20 00 22 00	18 00	20 00
1 x 10 and 12 mill run	.16∞ 17∞		19 00
I x to and 12 dressing		8 00	18 00
IX 10 and 12 spruce culls	1000 1100	1000	11 00
1 x to and 12culls	900 1000	~~ ~~	9 00 35 00
r inch dressing and better	20 00 22 00	33 ∞	20 00
t inch siding, mill run	1400 1500	14 00	16 ∞
t inch siding, common	11 00 12 00	12 00	14 00 11 00
t inch siding, mill culls Cull scantling	900 1000	800	9 ∞
W and thicker cutting up	800 900	B 00	9∞
plank. s inch strips, 4 in to 8 in. mill	24 00 26 00	22 00	3₹′∞
s inchatrips, 4 in to 8 in. mill	14 00 15 00°	14 (0	15 00
inch strips, commot	11 00 12 00	1100	12 (0
inch strips, common	600 1700	14 CO	1500
XXX shingles, sawr, per M	16 00 17 00	14 00	16 00
16 în	250 2fo	2 60	2 60
XX shingles, sawn		1 60	I 70
YAID QUOY			
Mill cull boards and scantling Shipping cull boards, pro-	10 00		10 00
miscuous widths	13 00		13 00
Shipping cuil boards, stocks	1600		16 00
Hemlock scantling and joist up to 16 ft	11 00 12 00		10 00
Hemlock scantling and joist			
up to 18 ft	13 00 3 00	1200	3 (0
up to 20 ft	1302 1400	13 00	.4 co
Cedar for block paving, per			
Cedar for Kerbing, 4 x 14,	5 00		5 00
νω λ1	14 00		14 00
Scantling and jo st, up to 16 f	t 1400 t 1500		14 CO 15 CO
44 44 22 ft	1,600		6 00
Scantling and joist, up to 22 f	1700		17 ∞ 19 (o
	· .y		21 00
4 11 26 ft			23 ( 0
171			25 00 27 00
44 44 32 ft			29 50
" 36 f	t 31,00		31 00 33 00
" " 44 fi	2400		36 (0
Cutting up planks, 1 4 and thicker, dry. Cutting up planks, 1 4 and	25 00 28 00	25 ~~	26 00
Cutting up planks, 11/2 and	25 (0 2000	25 00	20 00
thicker, board	1800 74 77	18 ∞	22 00
в. м.			
114 in flooring, dressed, F M.:	26 00 30 00	28 00	31 00
ik inch flooring, rough, B M. ik "dressed, F M. ik "undressed, B M.	1800 2200	18 00	22 00
134 " dressed, F M.:	2500 2800 1800 1900	27 00 18 00	30 00 19 00
154 " aressea	1900 3000	18 ∞	22 00
Beaded sheeting, dressed	12 00 15 00 20 00 35 00	12 00 22 00	15 00 35 00
Clapboarding, dressed	1200		13 20
XXX sawn shingles, per M			
Sawn lath	260 270 260	2 50	3 co 2 60
Cedar	2 90		2 90
White		30 00 35 00	40 00 45 00
Basswood, No. 1 and 2	28 00 30 00	18 co	20 00
Basswood, No. 1 and 2 Cherry, No. 1 and 2 White ash, No. 1 and 2	79 00 00 00	70 00	80 oo
Black ash, No. 1 and 2	24 00 35 00 20 00 30 00	30 00	35 ∞ 30 <b>∞</b>
Dressing stocks.	1600 2200	1600	22.00
Picks, American inspection.: Three uppers, Am. inspection	30 00- 50 00	•	40 <del>00</del>
The state of the second	3300		J- <del></del>

Toronto.	Montreal.	Toronto. Montreal
Common Walling 6 50	6 00	Cement, Belgian, per bbl 2 30 1 80 2 00 1 Connadian 2 30 2 50 2 25 2 30
Good Facing 8 00 Sewer 8 50 8 00	8 50 8 50 9 00	Parian " 450 475 450 475
Pressed Brick, Per M:		" Superfine " 6 50 7 00 6 50 7 00
Red, No. 1, f.o.b. Beamsville 16 o 14 00		" Queenston, " 1 to " Napanee, " 1 50
Buff 9 000		Keene's Coarse "Whites" 4 50 4 75 4 50 4 75
Brown 24 co Roman Red 30 00		Calcined plaster, per barrel 1 55 1 70 Fire Bricks, Newcastle, per M 23 00 30 00 15 00 22 00 "Scotch 23 00 30 00 24 00 30 00
## Buff		Lime, Per Barrel, Grey 30
Sewer		Plaster, Calcined, N. B 200
Hip Tile		Huir, Plasterers', per bag 80 100
tst quality, f.o.b. at Port Credit 14 00 12 00	18 00	HARDWARE.
tst quality, f.o.b. at Port Credit 14 00 2nd "" 12 00 4rd " " 8 00 Hard building brick 6 50	12 00	Cut nails, 5 d & 6 d, per keg 2 40 2 25 Steel 11 11 11 2 50 2 35
Ornamental, per 100 3 00 10 00		CUT NAILS, FENCE AND GUT SPIKES  40d, hot cut, per 10 lbs 5  30d, "" " 10 10
SAND. Per Load o 11/2 Cubic Yards 1 25	1 25	20d, 16d and 12d, hot cut, per 100 lbs
STONE.	. • • • • • • • • • • • • • • • • • • •	10d, hot cet, per 100 lbs 20 20 8d, 9d, 11 " 25 25 6d, 7d, " " 40 40
Common Rubble, per toise,		4d to 5d, 00 00
delivered	14 00 18 00	3d, """ 100 100 2d, """ 150 150 4d to 5d cold cut, not polished
Foundation Blocks, per c. ft. 50	50	or blued, per tco lbs 50 50 3d to 5d cold cut, not polished
Kent Freestone Quarries Moneton, N. B., per cu ft., f.o.b		or blued, per 100 lbs 90 90
Freestone, per cu. ft., f.o.b. 95		FINR BLUED NAILS.  3d, per 1co lbs 1 50 1 50
Ballochmyle 80 90 New York Blue Stone	65 75 1 05	2d, " " 200 200
Granite (Stanstead) Ashlar, 6 in. to 12 in., rise 9 in., per ft. Moat Freestone	25 70 80	CASING AND BOX, FLOORING, SHOOK AND TOBACCO BOX
Thomson's Gatelawbridge, cu. ft. Credit Valley Rubble, per car	70 80 75 80	12d to 3od, per 10o lbs 50 50 10d, " 60 60 8d and od, " 57 75
of 15 tons, at quarry 8 00 Credit Valley Brown Cours-		8d and 5d, " " 75 75 6d and 7d, " " 90
ing, up to so inch, per sup. yard, at quarry 1 75		3d, " " 150 150
Credit Valley Brown Dimension, per Cu. ft. at quarry 60		FINISHING NAUS.  3 inch, per 100 lbs 85 85
Credit Valley Grey Coursing, per superficial yard 1 50 2 00 Credit Valley Grey Dimen-	2 15	2½ 10 2½ " " " 000 1 00 2 to 2½ " " " 1 15
sion, per cubic font 60 Clark's N. B. Brown Stone,	75	1/2 10 1/4
per cubic foot, f.o.b 1 15 Brown Free Stone, Wood-	1 00	1 , 225 225 SLATING NAILS.
pcint, Sackville, N.B., per cub. ft	1 00	5d, per 100 lbs 85 85 4d, " " 85 85
MadocRubble, delivered, per tolse	14 00. 14 20	3d, " " 125 125 2d, " " 175 150
Madoc dimension floating, f. o. b. Toronto, per cubic ft. 30 32 Ohio Freestene, No. 1 Blue		COMMON BARREL NAILS.
Promiscuous. 1.0.b 60		1 inch, per 100 lbs 150 150 150 150 175 75 16 16 175 75 176 175 225 225
No. 1 Buff Promiscuous 80 No. 1 Buff Dimension 85		CLINCH NAILS.
The above prices means freight and duty paid.		inch, per rollis. 85 85 % and 31/4 " " roo roo
2 in. sawed flagging persq.ft 11 23-11 11 11 11 1334 33-11 11 11 11 163/2		2 and 2½ "" 15 £ 15 1½ and 1¾ " 135 £ 35
4 11 11 11 11 12 22 52 11 11 11 11 11 27½		134, " 200 200 1 250 250
Outy to be added to these	•	SHARP AND PLAT PRESSED NAILS.
prices. Quebec and Vermont rough		3 inch, per 100 lbs. 135 135 2½ and 2¾ " " 150 150
granite for building pur- poses, per c.ft. f.o.b. quarry 33 1 50		2 and 2½ "" 165 165 1½ and 1½ "" 185 185 1½ "" 250 250
For ornamental work, cu. st. 35 20 Granite paving blocks, 8 in. to 12 in. x 6 in. x 4 ½ in., per M 50 00		300 310
Granite curbing stone, 6 in.x 20 in., per lineal foot 70		Steel Wire Nails, 75, 10 and 5 % discount from
SLATE.		printed list.  Iron Plpe:
Rocting (ऄ square).  11 red 18 00 11 purple 9 00	20 00 10 00	Iron pipe, ¼ inch, per foot. 6c.
u unfading green 8 50	6 oo 7 50	" " ½ " " * * * * * * * * * * * * * * *
Terra Cotta Tile, per sq 25 00 Ornamental Black Slate Roof-		0 1 1/4 11 1
ing8 ∞		
PAINTS. (In oil, \$\pi\$ lb.  White lead, Can., per 100 lbs. 6 25 5 50	600 625	Black wrought iron pipe, 67 1/2 % off above prices. Galvanized 40% Cast and soil 57%
" zinc, Can., 11 11 6 50 7 50 Red lead, Eng 4 00 5 00	7 50 8 00	Lead Pipe:
" venetian, per 100 lbs 1 60 1 75 " vermillion 90 1 00 " Indian, Eng 10 12	1 60 1 75 90 1 00 10 12	Waste pipe, per lb
Yellow ochre	4 6 15- 20	lots; 30 and 10 % off in ton lots; points east of Toronto, 35 and 10 % off.
Green, chrome	7 12 20 20	Galvanized Iron:
Black lamp	12 25 12 18	Adam's—Mar's Best and Queen's Head:  6 to 24 guage, per lb 4%c. 4%c
Oil, linseed, raw, & Imp. & 21. 14 59 " boiled 57 63 " refined, 78 85	63 65 66 68	26 guage, 44 434 5 5 534 Gordon Crown—
Whiting, dry, per 100 lbs 75 1 00	75 75 2½ 2½ 60 75	16 10 24 guage, per lb 4½ 4½
Paris white, Eng., dry 90 1 25 Litharge, Eng 4 5	634 8	26 guage, 4½ 4½ 28 4½ 5 Note.—Cheaper grades about ½c. per lb. less
Sienna, burnt	12 15 12 15	Structural Iron:
CEMENT, LIME, etc.		Steel Beams, per 100 lbs 275 250 "channels, " 285 260"
Cement, Portland, per bbl 2 25 3 00	2 65 2 85 2 45 2 00	
" German "	2 45 2 90 2 05 0	Sheared steel bridge plate 255 235