Technical and Bibliographic Notes / Notes techniques et bibliographiques

copy ava may be b	itute has attentialable for filmicibliographical nages in the reportly change the below.	ing. Featur ly unique, v production,	es of this co which may a , or which m	opy which ilter any iay	1		lu ex bi re da	i a été cempla bliogr produ	possil aire qua aphiqua aite, ou métho	ble de so ii sont p ue, qui p i qui pe	e proc eut-êt euven euvent	neilleur e urer. Le re uniqu at modifi exiger u e filmage	es déta les du ler und lne mo	ils de c point c e image odificat	et de vue e tion
	oloured covers/ ouverture de co							T I		d pages, couleu					
1 3	overs damaged/ ouverture endo							4	-	imaged/ idomma					
	overs restored a ouverture resta								-			laminat pellicul			
	over title missir titre de couve		ue					/ 1	_			ined or 1 netées ou			
	oloured maps/ It tes géographi	ques en cou	ileur					1	-	etached, étachées					
	oloured ink (i.e acre de couleur						[howth ranspa	rough/ rence					
	oloured plates anches et/ou il							<i>y</i>	-	of print inégale		s/ npressio	n		
1 1/ 1	ound with othe elië avec d'autr									ious pag		n/			
alc	ght binding ma ong interior m a reliure serrée	argin/						1		s index(end un (ndex			
di	storsion le lon	g de la març	ge intérieure	:	ar							from:/ rovient:			
wi be	ithin the text. en omitted fro	Whenever pom filming/	possible, the	ese have					-	ge of iss titre de		raison			
Il se peut que certaines pages blanches ajoutées lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages n'ont						Caption of issue/ Titre de départ de la livraison									
pa	s été filmées.							- 1	flasthe: Sénéric		iodiqu	ies) de la	ı livrai	son	
1 1	dditional comi ommentaires si		ires:												
Ce docu	n is filmed at 1 ment est filmë	au taux de		indiqué ci											
XOI		14X		18X	-	1	22X			20	5 X	7		30×	
	12X		16X		20X				24X			28X			32×

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. 8.

AUGUST 12, 1897

No. 2S.

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,

CONFEDERATION LIFE BUILDING, TORONTO Telephone 2362.

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

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

Advertising Rates on application.

Notice to Contractors

A new and thoroughly revised edition of the Canadian 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 pince. This book should be in the hands of every architect builder and contractor who desires to have readily processible and proceed authorition disconniction. accessible and properly authenticated information on a wide variety of subjects adapted to his daily requirements.

C. H. MORTIMER, Publisher,

Confederation Life Building, TORONTO.

Branch office: New York Life Building, Montreal.

FOR SALE

16 inch "Foster" Y level, nearly new, cost \$100, will sell cheap. Box 26, CONTRACT RECORD.

For Sale

Architect seeking location can secure a good city and country practice, cheap. Apply to Box 250, CANADIAN ARCHITECT AND BUILDER.

TENDERS

Tenders will be received by the undersigned up till noon of FRIDAY, AUGUST 20711, for the various trades required in connection with the erection of a building for the Torotto Railway Co., north west corner of King and Church Streets.

King and Church Streets, DARLING & PEARSON, Architects, Mail Building, Toronto.

Lowest or any tender not necessarily accepted.

TENDERS FOR PLASTERING

Addressed to the undersigned, will be received until 6 p.m., WEDNESDAY, AUGUST 18711, 1827, for Lath and Plastering Work required in Central Methodist Church, in the city of St. Thomas, Plans and specifications may be seen at the office of the undersigned.

Lowest or any tender not necessarily accepted.

NEIL R. DARRACH, Architect, 352 Talbot street, St. Thomas, Out.

FOR SALE

Two Derricks, with horse powers complete and one endless chain. All in good working order. Apply to All in good working JOS. M. 11ERMAN, C.E., Tilbury, Ont.



NOIGE 10 CONTRAC

Tenders will be received, by registered post only addressed to the Chairman of the Board of Control, City Hall, Toronto, up to

Noon on Wednesday, the 18th Inst.,

for the construction of the following works .-

GRAVEL ROADWAYS

On Macdonald Avenue, from Queen Street 2,826 feet northerly.

On Afton Avenue, from Lisgar Street to Northcote

BRICK PAVEMENTS

On believing Avenue, from College Street to Uxfor-1 On St. Joseph Street, from Queen's Park to west end of existing pavement.

CEDAR BLOCK PAVEMENTS

On Euclid Avenue, from Arthur Street to College

TRACK ALLOWANCES (BRICK)

On Queen Street, from Don River to Pape Avenue. On Spadina Avenue, from Queen Street to College

CONCRETE SIDEWALK

On Front Street, south side, from Yonge Street to Scott Street (except 83 feet fronting Nos 5 and 7).

Specifications may be seen and forms of tender obtained at the office of the City Engineer, City Hall,

Toronto.

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 they will not be entertained. Tenders must bear the bona fide signatures of the contractor and his sureties, or they will be ruled out as informal.

Lowest or any tender not necessarily accepted.

R. J. FLEMING, (Mayor) Chairman Board of Control.

City Hall, Toronto, Aug. 4th, 1897.

When varnishing in very warm weather it is the habit of many painters to well sprinkle the floors with water in order to springle the hours with water in order to keep down the dust. This is, however, a very dangerous proceeding, and is likely to give rise to pitting. A dry, warm atmosphere is the best for varnish, and the dust should be got rid of before the varnish is applied.

A duplicate of the plant in use in the reclamation work on the island, opposite Toronto, has been purchased by a South African syndicate for the purpose of deepening Delagoa Bay, the famous port of the Transvaal, which England and Germany are credited with being after. The plant, which is worth \$25,000, is being made in Toronto, and Toronto men will go out to the Cape to fit it up,

CONTRACTS OPEN.

KOMOKA, ONT.—T. H. Turnbull will erect a new building.

GUELPH, ONI. A new school will be erected in school section No. 7.

GRAVENHURST, ONT .- The Orangemen purpose erecting a large hall.

BADDF', TON, ONT. - New tenders are asked for erecting the new school.

DOAKTOWN, N.B.-Messrs. Swin will immediately rebuild their saw mill.

STAPLES, UNT .- The erection of a new Methodist church has been decided upon.

St. Auxint, Que .- Alderman I'refontaine purposes enlarging his electric light plant.

REVELSTOKE, B.C. It is reported that the C.P.R. will establish a large hospital here.

LEVIS, QUE.-No award has yet been made in the lighting and aqueduct con-

BURKS FALLS, ONT .- The Presbyterians have selected a site for their new church.

RALEIGH, ONT. Ditching estimated to cost \$3,270.50 will be let this week by A. H. White.

FORT WILLIAM, ONT .- It is rumored that the C.P. R will elect a large steel elevator here.

PORTSMOUTH, ONT .- The citizens are determined to secure the erection of a grain elevator.

BARRIE, ONT.—It is probable that the new House of Refuge will be located at Penetanguishene.

WATERLOO, ONT .- The Board of Education have purchased a site on which to erect a new school.

WAB GOON, ONT.—The Imperial Development Company will spend \$10,000 on buildings this fall.

COLLINGWOOD, ONY. -- The town will construct a cement sidewalk on Simcoe street, at a cost of \$643.

HINTONBURG, ONT.—A scheme is on foot to supply the village with a system of waterworks and drainage.

MINNEDOSA, MAN .- School debentures to the amount of \$3,500 are offered for sale. Address, E. W. Pearson.

DOVER, ONT .- Proposals are wanted for 31 miles of dredge work. Address, King & Cavotte, commissioners.

AMHERSTBURG, ONT. - The ratepayers have voted down the by-law to promote the Windsor, Anherstburg and Lake Erie Railway.

FAIRVIEW, B C. Dier, Davidson & Russell have had plans drawn for an office building, 20 x 30 feet, and for a store, 24 x 60 feet.

LEAMINGTON, ONT. Mersea council has passed a by law providing for the construction of the Colleson drain, at a cost of \$1,389.

ELGIN, N.B.—Tenders will be called

for constructing a trotting track. O. C. Goggin is secretary of a company formed for the purpose.

VICTORIA, B.C.—A by-law is now before the city council to raise \$75,000 for macadamising streets and \$25,000 for permanent sidewalks.

SHAWVILLE, QUE.—Provincial government engineers are surveying the route of the proposed railway from Portage du Fort to this place, a distance of 12 miles.

HULL, QUE.—The city solicitor has been instructed to prepare a by-law to be submitted to the ratepayers to raise the sum of \$50,000 for waterworks extension.

WOODSTOCK, ONT.—The fire-hall and market improvement by-laws were defeated on August 6th.—Plans have been prepared for a skating rink to be erected this fall.

ST. JOHN, N.B.—Messrs. Mooney have purchased property at Mispec, and will, it is rumored, erect a pulp mill there.—The city is being urged to erect a public abattoir.

LISTOWEL, ONT.—A by-law to provide for electric lighting and waterworks was defeated recently.— The High School Board wants tenders for constructing 800 feet of granolithic walk.

CHATHAM, ONI.—The Essen Standard Gas Co. and the Chatham Natural Gas Co. each desire a franchise from the city to furnish natural gas. The former propose to pipe the city from Kingsville.

KINGSTON, ONT.—The Queen City Oil Company are making arrangements to erect a large oil storehouse.—Steps are being taken by the Board of Trade to secure the erection of a summer hotel.

MCADAM JUNCTION, NB—The civil engineer of the CPR. is laving out and drawing plans of lots for a number of new cottages soon to be erected for railway employees.— J. Gardiner contemplates erecting a dwelling house and store.

WINNIPEG, MAN.—The builders of the Crow's Nest Pass railway will have twenty-seven bridges to construct over the Old Man's river within thirty-five miles of Lethbridge.—Blackwood Bros. will not erect their new brewery until next spring.

LINDSAY, ONT.—T. Matchett, Clerk of Victoria county, wants tenders by August 13th for bridge and approaches at Pigeon creek, including steel superstructure. Length of approaches, to be stone filled, is, approximately, 590 feet; length of bridge, 50 feet.

SIMCOE, ONT.—Oliver Austin will receive tenders until the 14th inst. for plumbing and heating of the Industrial School and for carpenter and mason work of proposed improvements. Plans may be seen at the office of C. C. Fairchild, County Engineer.

Kaslo, B.C.—A petition will be presented to council requesting that a by law be submitted to raise \$12,000 for grading streets, laying sidewalks and building a bridge acress Kaslo creek. It is also urged that further expenditure be made to provide a sewerage system.

PERIH, ONT.—A company has been formed, with a capital of \$50,000, to construct waterworks in this town. In the company are Hon John Haggart, Sand ford Fleming, Jr., W. A. Allan, R. G. Cole and A. Cha'lebo's The contract to put in the system will likely be awarded in a few days.

PEMBROKE, ONT. The Provincial board of Health have approved of the plans prepared by Mr. W. C. Brough for a Séwerage system. Wm. Russell, C.E., has begun the survey of the proposed Pembroke Southern Railway. The company hope to have the road in operation in one year.

QUEBEC, QUE. — The Academy of Music will probably be remodelled.—Ber-

linguet & Lemay, architects, are preparing plans for a small chapel to be erected for the Rev. Dr Doyle at Vernon river, Prince Edward Island. Same architects have also prepared plans for the Fifteen Point church.

FERGUS, CNT. — Plans have been adopted for the new Melville church, which will have seating accommodation for 800 persons. The building is to be faced with Credit Valley brown stone, with light colored cut stone at the corners and around the doors and windows; estimated cost, \$10,000.

RAT PORTAGE, ONT.—Colonel Engledue, manager of the Ontario Gold Mining Company, will shortly erect a residence.

—J. K. Brydon, town clerk, will receive offers until Monday, 23rd inst., for constructing about 4,600 feet of pipe sewers in this town.—The by-law to raise funds for a waterworks system is being advertised. The cost of the work is placed at \$75,000.

STRATFORD, ONT.—The city council have passed the following resolution: "That a system of sewage disposal combining precipitation of the solids in the sewage, supplemented by prepared filter beds, will best answer the conditions existing in this city; and it is hereby recommended that the engineer be instructed to prepare plans and estimates of the cost of a system of sufficient capacity on the above lines."

LONDON, ONT. — Moore & Henry, architects, are taking tenders this week for erecting a frame cottage for the Water Commissioners. Same architects have prepared plans for an addition to the hospital.—Herbert Matthews, architect, is taking tenders for the erection of the new York street Methodist church.—J. A. Matthews has been granted a building permit for a 1½-story brick veneered residence on William street, to cost \$1,200.—The proposal to construct an electric railway to Pottersburg is said to have collapsed.—The Verity Plow Company will probably erect a building to cost \$40,000.

MONTREAL, QUE.-Turgeon & Lafreniere are preparing plans for a house to be erected on Sherbrooke street. ders will be invited shortly.-Wright & Son, architects, have called for tenders for a warehouse to be built for Messrs. Warden King & Son. - L. R. Montbriant, architect, is taking tenders Montbriant, architect, is taking tenders for a store and two dwellings to be erected on Amberst street, near Marie Anne, for Ald. L. Ouimet.—Turgeon & Lafreneire are receiving tenders for nine tenements to be built on Marie Anne street.—S. Frappier, architect, is calling for tenders for two cottages to be built on St. George street, Montreal Annex, for J. O. R. & S. Frappier.—Sealed tenders will be received for the various trades required in restorations and additions to St. John Baptist church. Mr. Jos. Venne is the architect.

OTTAWA, ONT —A largely signed petition has been presented to council for an asphalt pavement on Elgin street, from Wellington to Albert streets.—A movement is on foot to erect a hospital for incurables. Nearly \$4,000 has been subscribed.—The hospital board of St. Lukes Hospital have found that the tenders for the work on, their new building are too high. The plans will be altered and new tenders catled for.—A company is seeking incorporation to manufacture calcium carbide, the capital stock being \$11,000,000. Hon. A. G. Blair and Rusus Pope, M.P., are interested.—The Dominion Electric Heating and Supply Co. will probably build a factory in the near feture.—Tenders for the erection of a fire station are wanted by the city clerk by Wednesday next, 18th inst. Plans at office of M. C. Edey, architect.—E. F. E. Roy, secretary Department of Public Works, will receive tenders until Tuesday, 24th inst., for a

steel roof on the west block of the Parliament buildings.

TORONTO, ONT.—E. J. Lennox, architect, has completed specializations for the hydraulic elevators, electric, and gas fittings, electric clock work for tower and buildings, and a pneumatic system for the new City Hall building, and tenders for the work will shortly be taken.—Sufficiently signed petitions have been received by the city clerk against the following proposed local improvements. Cowan avenue, gravel roadway; Front st., Yonge to Bay streets, sidewalk; Gwynne ave., gravel roadway; Fuller street, Queen street to Pearson avenue, gravel roadway.—Building permits have been granted as follows: Mulock, Miller & Crowther, alterations 279-283 Yonge st., cost \$2,000; E. F. Blake, addition to dwelling, 449 Jarvis st., cost \$3,000; R. M. & F. W. Gullett, pr. s.d. 2-story and attic bk. dwellings on Walker ave., cost \$3,000; T. Horton, 54 McDonald ave., one st. bk. cottage, east side Roncesvalles ave., cost \$1,800; D. M. Defoe, alterations 46 King st. e., cost \$1,600.

PETERBORO', ONT.-It is announced that a company of eastern capitalists are negotiating for the purchase of the Chemong and Lakefield lines of the Grand Trunk Railway, with the view of converting the roads into electric systems.-Board of Directors of the Central Exhibition will take steps at once to erect new buildings on the Exhibition grounds.—A by law has been introduced in council authorizing the construction of sewers as follows: Section No. 1-4,030 feet of 15-inch pipe and 1,960 feet of 12-inch pipe on Aylmer street, 253 feet of 9-inch pipe on Charlotte street, 475 feet of 9-inch pipe on Simcoe, 220 feet of 9 inch pipe on Hunter street, 426 feet of 9 inch pipe on Brock street, 870 feet of 9 inch pipe on Murray street, and 870 feet of 9-inch pipe on McDonnel street. Section No. 2-4,-132 feet of 12-inch pipe on Stewart street, 910 feet of 15 inch pipe on George street, 910 feet of 12-inch pipe on Water street, and 870 feet of 9-inch pipe on Murray street east.—Tenders are asked for a terrace of houses to be built on the new avenue.

HAMILTON, ONT.—The Board of Fire Underwriters recently notified the city authorities of their intention to increase the insurance rates 25 per cent., owing to lack of water pressure and insufficiency of ladders and hose. After consultation between the Board of Fire Underwriters and the city Board of Trade, the council has been recommended to purchase another fire engine, an ample supply of hose, an additional 65 foot ladder, increase the height of the stand-pipe, and do away with dead ends in water mains. The matter is now under consideration by the council.—The City Engineer has decided to recommend to the Sewers Committee that an incinerator to burn rubbish be placed in the sewage disposal works at the foot of Ferguson avenue. The cost will be about \$2,500.—The City Engineer favors the use of brick for street pavements.—E. B. Patterson has taken out a permit for a store and dwelling on Cannon street, to cost \$2,250.—Manager Stair and architect Mills will visit American cities to get pointers on improvements for the Grand opera house.

; , v; ;

FIRES.

The convent at Longueut, Que., belonging to the Sisters of the Holy Names of Jesus and Mary, has been damaged by fire to the extent of \$3,000. Wm. Schofield's residence at Port Colborne, Ont., was burned last week.—The Park Theatre at Springbank, Ont, was recently destroyed by fire.—The tannery of Frank Moseley at St. Hyacinthe, Que., was destroyed by fire on August 4th, at a loss of

\$100,000.—The saw mill of John Hurley at St. Gabriel de Rimouski, Que., was recently destroyed by fire, together with 42,000 logs.—The sash and door factory of H. & F. Swim at Doaktown, N.B., was burned last week. Much of the machinery was new, and the loss will be about \$15,000.—A saw mill at Eden Grove, Ont., on the G. T. R., was consumed by fire last week, at a loss of \$4,000. Two brick stores at Woodstock, Ont., owned by W. H. Walbourn, were burned on Monday last. Loss, \$1,800; insurance, \$1,200.

CONTRACTS AWARDED.

WINDSOR, ONT.—Debentures amounting to \$61,632 have been sold to G. E. Gault, at a premium of \$2,363.

GUELPH, ONT.—The heating of the Registry office has been let to Feek & Phillips, at the price of \$1,467.50.

ROSSLAND, B. C.—The contract for the construction of a sewerage system has been awarded to W. B. Davey, at the price of \$32,744.

BRANTFORD, ONT—The heating and ventilation of improvements to the Collegiate Institute have been awarded to Buck's Stove Works, at the price of \$247.

ST. JOHN, N.B.—The tender of Sproul & Corbett for erecting the North End fire station, at the price of \$10,675, has been accepted, Thos. Campbell securing the heating at \$1,645.

PETERBORO, ONI.—The council have accepted the tender of Kennedy & Wade for sewer construction, at the price of \$9,916, the town to supply the pipe, cement, brick and gasket.

í

Mari .

CORNWALL, ONT.—The contract for a seven-span steel bridge across the St. Lawrence river at this place has been secured by the l'hoenixville Bridge Co., of Phoenixville, I'a. The cost will be about \$1,000,000.

KINCARDINE, ONT. — Hunter Bros. have secured contracts for new bridges at Chesley and Paisley. This firm were also contractors for the stand-pipe lately finished at Goderich for the wa works of that town.

OTTAWA. ONT.—The tender of the Canadian Rubber Co. has been accepted for supplying 3,000 feet of hose.—The Dominion government have let the contract for the Edmonton bridge to F. Lemoine, of Montreal, at the price of \$36,500.

WINNIPEG, MAN—The following tenders have been accepted by the city: Granolithic walk on Princess street, Scott & Co., \$1,752 70; sewer pipe, W. F. Lee, \$1,941 30; sewers on Osborne and Pembina streets, F. W. Lee, \$3,754; sewers on Park and Sherbrooke streets, F. W. Lee, \$1,107.

KINGSTON, ONT.—The successful tenderers for additions to a house on Johnston street for J. McKay & Son are. Litton & Free, masonry and bricklaying; George Hunter, carpentering, Joseph Jamieson, plumbing, metal work and hot water fittings; Robinson Bros., painting; architect, A. Ellis.

TORONTO, ONT.—The contract for laying new water pipes for five protection in the central parts of the city has been awarded to Thomas McQuillan, at \$1,930.20.—Purdy, Mansell & Mashinter have been awarded the contract for heating the House of Industry at Fergus by hot water, with three Daisy boilers and Safford radiators.

CHAIHAM, ONI.—The tender of H. O'Hara. Toronto, for \$15,000 electric light debentures, has been accepted; price, \$16,145.—Tenders were submitted as follows for heating the Central school. Record Foundry & Machine Co., \$975, Jas. Watt & Sons, \$2,300; Smead-Dowd Co., Toronto, \$2,400, \$2,500 and \$2,-

275; McClary Manufacturing Co., London, \$1,050; J. F. Pease Furnace Co., Toronto, \$1,545. The tender of the Smead-Dowd Co. has been accepted.

MONTREAL, QUE.—The contract for building the East Richelieu Valley Railway from Iberville to the Lacolle bridge, a distance of 23 miles, has been awarded to Mr. J. L. Comte, of this city.—Robert Findlay, architect, has awarded the following contracts for a residence for Henry Fry, to be built on Dorchester street, Westmount: Masonry, H. Hutchison; carpenter and joiner's work, Thas. Forde; plastering, Thos. Brethour; painting, John Murphy; other trades not let. Estimated cosi, \$7,000.

QUEBEC, QUE.—The contract for M. Hatch's residence to be built on Maple enue has been let to Damase Vezina.—A. J. Pageau, architect, has awarded contracts for Mr. Zisk's residence to be built on St. Joachim street.—Building permits have been granted as follows: Reparations of a house for Ch. Helins; contractor, S. Trudel. Reparations on Massue street for Mr. Flavien Huot; contractor, C. Paradis. Reparations on Du Roi street for M. Noel; contractor, A. Dugat. Reparations corner of Dauphin and St. Stanislas streets; M. Eug. Falardeau, contractor.

BIDS.

PETROLEA, ONT.—The following tenders were received for the construction of a new school building. R. Corrick, Sarnia, complete, \$5,690; Scott & Cruikshank, Sarnia, mason work, \$2,681; Louis Zells, Port Huron, complete, \$5,060; J. J. Pennebakei & Co., Sarnia, \$5,185; Kelly & Parkinson, Petrolea, \$5,333, Thos. H. Cimeron, Port Huron, \$5,080; Farlin & Simpson, Sarnia, mason, excavation, etc, \$2,521; R. Clark & Sons Petrolea, drainage, excavation, masonry, brickwork and cement floors, \$3,600; Geo. A. Proctor,

Sarnia, carpenter and joiner's work, painting, etc., \$2,560, J. & J. Jackson, Petrolea, complete, \$5,320, H. Fisher, St. Clair, complete, \$5,283, Win. E. Jones, Sarnia, complete \$4,998.53, John Crook Inder, Thedford, complete, \$5,276 No award has yet been made.

BRICKWORK IN ENGLAND.

In the Middle Ages we find the lidoron (12 inches by 6), the quadrelli and tavellie (7 inches long, 31/2 inches broad), the first of which pretty well answers to the modern English, the latter to the small Dutch brick. Inferior sorts, called biscotti and biscottæ, which from the word appear to have been twice baked, were fraudulently sold instead. The Jews used to inscribe magical and other characters upon their bricks, a circumstance unknown to Hearne, who has engraved one with the story of Samson burning the corn by foxes with The Anglo-Saxons styled brickwork Tigel-geweore, and they and their Norman successors, under the name o wall-tiles, continued to make and use them in the same manner as the Romans (for whose tiles they are mistaken, till the time of Henry II. During the wars in France and Flanders, temp. Edward I. and II., the Flenish manner of making them was introduced, and with it their manner of building with high gable ends, arising with steps, and finished with something like a chimney, ornamented with bricks moulded in various forms and sometimes curiously put together. The walls of this era have foundations of rag-stones and mere facings of brick, others were chequered in patterns

(Concluded on Page 5.)

"ASBESTIC"

The King of Wall Plasters

FIREPROOF, being purely Asbestos, which is incombustible.

NON-CONDUCTOR OF HEAT - NO CRUMBLING OR CRACKING

WEIGHS LESS and is INTRINSICALLY CHEAPER

than any other Plaster.

A few of the principal Buildings PLASTERED WITH ASBESTIC

THE McDONALD BUILDING, Victoria Square, Montreal.

THE YOUNG WOMEN'S CHRISTIAN ASSOCIATION BUILDING, Montreal.

THE ROYAL VICTORIA COLLEGE, Montreal.

THE PROTESTANT INSANE ASYLUM, Verdun, near Montreal.

THE GRAND HOTEL, St. Hyacinthe, Que.

THE NEW GUSTOMS-APPRAISERS STORES, NEW YORK, new building, which will consume 5,000 tons.

THE PARLIAMENT BUILDINGS, OTTAWA, portion of which was recently destroyed by fire and rebuilt.

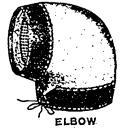
Write for Pamphlet and full Information.

The American Asbestic Go.

100 William Street

NEW YORK

SOLE PROPRIETORS OF "ASBESTIC" for United States and Canada.



MICA BOILER AND STEAM PIPE COVERINGS

The Highest Non-Conductor and the Cheapest Covering on the Market.

Full Particulars from The Mica Boiler Covering Co.

MONTREAL

- 9 Jordan St., Toronto winnipeg

with black flints, as may be seen in several towers of churches. This irregular manner remained until bricks came into gen eral use, when they began to use the Flem ish manner of conding them. Towards the latter end of the reign of Henry VII. and beginning of that of Henry VIII. the mansions began to lose their real castellated character, though still retaining many of its peculiarities. Small windows, thick walls, base courts, turrets and a sort of embattled parapet still continued. Layer Marney Hall, in Essex (built temp. Henry VIII., appears to be of this description. Chequered compartments of flint and diagonal lines of dark glazed brick were frequently introduced into the fronts of buildings about this period. There was a large court in the centre and a towered gateway. About the year 1530 Hans Holbein built a beautiful gate opposite the Banqueting House, Whitehall, in the chequered style of brick and stone and black flints, and ornamented the fronts with busts in circular recesses, with mouldings around them of baked clay, in proper colours, and glazed in the manner of delft ware. Buildings of deep red bricks, chequered with others glazed and darker. window frames of stones, or bricks covered with plaster are of this age; and during the reigns of Mary and Elizabeth the ornaments of Grecian architecture were frequently imitated in burnt clay, and laced the fronts of houses, and covered the shafts of chimneys. For this purpose fantastical figures were introduced and continued till the reign of James I., when they began to make plainer chimneys (because, perhaps, no longer erected for memorials), and these moulded bricks were laid aside. In this and the preceding reign the walling was very bad, being mere rubbish, or even turf or peat, between two thin shells of brick. Inigo Jones introduced a better method, and Sir Richard Crispe, the patriotic friend of Charles I., is said to have been the inventor of the art of making them as now practised.

Rogers & Hamilton, plumbers, Hamilton, Ont., have dissolved partnership.

A case is reported in La Semaine des Constructeurs of several cases of poisoning on board a ship which followed the use of water contained in a tank, the in-

vor of which was painted with red lead. The municipal laborater of Paris warned the ship owners that in order to avoid similar danger in future they must paint the interior of the tank with coal tar or mineral pitch dissolved in turpentine or benzine.

CEMENTING LEATHER TO IRON.—To cement leather to iron, cut the leather roughly to shape, allowing about one inch per foot in the width of the pulley soak the leather in water until it is wet through. Now stretch it well in the direction of the circumference of the pulley and cut it to exact shape and length. should next be sewn up butt to butt with a shoemaker's awl and thread, and the leather, having been stretched in the direction of circumference only, will, as it gets dry, have a tendency to resume its former shape, thereby shortening in cir cumference and "clip" to the pulley A shallow groove might be made for the stitches to sink in.

SCORIA PAVING BLOCKS Are the Best Paving Material yet discovered.

W. H. KNOWLTON & CO., Dealers in Contractors Supplies, 36 King St. E., Toronto

EVERY ENGINEER AND CONTRACTOR

Should possess a copy of the Second Edition of the Canadian Contractors' Hand-Book, a compendium of useful information for persons engaged on works of construction, containing upwards of 150 pages. Price \$1.50; to subscribers of the CANADIAN ARCHI-TROT AND BUILDER, \$1.00.

C. H. MORTIMER, Publisher,

Confederation Life Building, TORONTO,

MONTREAL PIPE FOUNDRY CO., LTD.

DRUMMOND MCCALL PIPE FOUNDRY CO., LGD. Manufacturers of

GAST IRON WATER ?

and General Water and Gas Special Castings.

Prices on Application.

Offices, Canada Life Building, MONTREAL.

TAREE RIVERS, P. Q.

Montreal Office: IMPERIAL BUILDING.

iron ater and Gas

of best quality, from 2 inches in diameter.

HYDRANIS, VALVES and GENERAL CASTINGS.

Manufacturers of

Salt-Glazed

Vitrified

SEWER

Double Strength Railway Cul-vert Pipes, Inverts, Vents,

GOODS



ALL KINDS OF FIRE CLAY

ALEX. GARTSHORE, President.

J. G. ALLAN, Secretary and Treasurer.

Jas. Thomson, Vice-President and General Manager.

Lianufacturer: of

Flexible and Flange Pipe, Special Castings and all kinds of Waterworks Supplies.

3 inches to 60 inches diameter.

For Water, Gas, Culvert and Sewer

HAMILTON, ONT.

MUNICIPAL DEBENTURES wanted for foreign clients. We can place Debentures direct with foreign clients without charge to municipalities. : : : Commission allowed to persons introducing new business : : : :

ÆMILIUS JARVIS & CO. Stock and Bond Brokers. Investment agente. 23 King St. West, TORONTO

ELECTRIC RAILWAY BONDS PURCHASED.

STOCK EXCHANGE ORDERS PROMPTLY EXECUTED

MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS

DEBENTURES BOUCHT

Municipalities saved all possible trouble.

G. A. STIMSON & CO. Investment Dealers

9 Toronto Street

TORONTO

ARTIFICIAL STONE PAVEMENTS

SIDEWALKS A SPECIALTY

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

The Silica Barutic Stone Gompany of Ontario, Ltd.

WALTER MILLS, General Manager.

Head office: INGBREOLL, ONT.

Flush Your Sewers with

THE MILLER———AUTOMATIC SYPHON

Received HIGHEST AWARD at the World's Columbian Exposition for

(1) SIMPLICITY OF CONSTRUCTION, (2) EFFECTIVENESS, (3) RELIABILITY Write for Prices and Particulars.

VICTOR HILL, General Agent. 39 D'Arcy St., TORONTO.

ST. LAWRENCE FOUNDRY COMPANY, Limited Manufacturers of

CAST-IRON WATER & GAS PIPES:

ARCHITECTURAL IRON & STEELWORK

Front St. Eas. TORONTO, O.

THE HAMILTON AND TORONTO SEWER PIPE CO.

Signification of the section of the

SEWERS.

CULVERTS

AND WATER PIPES.

INVERTS

For Brick Sewers

Write for Discounts

HEAD OFFICE AND FACTORY: HAMILTON, GANADA

STEAM AND POWER

2 Hydraulic 8 MacHinery MacHinery

FOR ALL DUTIES

NORTHEY Co

PLD.

TORONTO, ONT.

THE LAURIE ENGINE CO., MONTREAL Sole Agents for Province of Quebec.

CAST IRON WATER PIPES

From 4 in. to 35 in. Diameter.

BELL AND SPIGOT

TURNED AND BORED

AND EVERYTHING NECESSARY FOR

A Complete Water or Gas System

SUPPLIED BY-

6 LONDONDERRY IRON CO., Ltd.

LONDONDERRY, NOVA SCOTIA

THE MOST COMPLETE IRON WORKS IN CANADA (ESTABLISHED 1852.)

Send for Drawings and Estimates of our work.

ALL PIPES CAST VERTICALLY

WE MAKE
PIG IRON
WATER PIPES . . .
PUDDLED BAR . . .
HYDRANTS, VALVES .
PIPE SPECIALS . . .
HEAVY CASTINGS . .
STRUCTURAL WORK .
ARCHITECTURAL WORK .
MACHINE WORK . .
HYDRAULICMACHINERY
TURBINES

The Central Bridge and Engineering Company, Ltd.

Capital Stoel

4

PETERBOROLIGH, ONT.

\$200,000.00

BAR IRON

WM. H. LAW Manager and Enginee

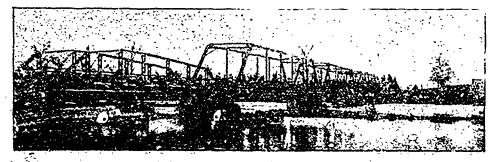
Manufacturers of

RAILWAY and BRIDGES

Viaducts, Piers, Roofs, Turntables, Girders and Architectural Work

CAPACITY 5.000 TONS PER ANNUM

"RAMAPO" SAFETY SWITCH STANDS



MUNICIPAL DEPARTMENT

SEDIMENTATION BASIN AT CHATHAM.

Asedimentation basin in connection with the waterworks system of Chatham, Ont., has recently been completed, some particulars of which may prove interesting.

The extreme length of the basin overcmbankments, from outside to outside, is 900 feet, and the extreme width 180 feet. The depth of the excavation, below datum, at the south end is 12 feet 10 inches and at the north end 10 feet 2 inches. Width of excavation at datum level is 112 feet. Width of basin at bottom, south end 37 ft. 6 in., at north end 81 ft. 6 in. Length of excavation at datum level, 832 feet. Length of basin at bottom, 797 ft. 6 in. Width of basin at top of embankment 130 feet. Length of basin at top of embankment, 850 feet. Width of embankment of datum level, 34 ft., and at top 16 ft. Height of embankment above datum level 6 ft.

The entire inner face is rammed with clay to a depth of about two feet, and this is coated with six inches of blue clay. The sides are lined at the top to a width of four feet with small cobble stones, and the corners are rounded off into quarter circles.

In the basin stand three brick towers, from the embankment to the top of which The induction tower, are bridges. through which the water from the river enters the basin, is located in the centre of the far end of the excavation. P w the pipe is a strong concrete and stone foundation to prevent wearing away by action of the water which enters near the bottom of the basin. At the opposite or near end of the basin is the tower by which the water is received from the basin and through the filters into the stand pipe and thence to the mains This tower has three openings at regular intervals. The lower ones are provided with valves by means of which they can be opened or closed as the depth of the water requires, the object being to take the supply from the surface, this part having been most exposed to the action of the air. The water is conducted to its filters by means of pipes which are laid in the bed of the basin in its entire length. In the southwesterly corner of the r servoir is a third tower to be used for drainage purposesto let off the water in case of necessity.

The amount of earth excavated was 31,750 cubic yards. Of this, 11,245 cubic yards were required for the embankment, and 20,505 yards were removed. The mean depth of the water will be sixteen feet, and the capacity of the basin, the water one foot below the top of the bank, is 8,454,900 Imperial gallons.

According to the specifications the basin is to be subjected to a two weeks' test before being accepted by the city.

In the summer time the water from the river can be oxygenized by being thrown into the air before failing into the basin. This is supposed to greatly improve it. It is said that as a consequence of going over Niagara Falls the waters of Lake Ontario are the purest and best of any in the great lakes.

A CASE OF INTEREST TO MUNICI-PALITIES.

For several years the street railway, telephone, gas and electric light companies in the city and in the province generally have been conducting a campaign against the assessment of rails, wires, poles, gas mains and other property belonging to these companies and situated upon the public highways, on the ground that the plant on a public street could not be legally assessed. Various cases were begun and went from court to court, until this spring the Supreme Court gave judgment that gas mains were assessable.

In delivering judgment the Chief Justice expressed his opinion very strongly that all property on a highway was assessable, just as if it were on private land. Last summer a board of county judges decided against the assessment of the Toronto Street Railway Company's rails, poles and wires, and the Court of Revision refused, on the strength of this judment, to confirm the assessment of the plant of the company in the fisrt, fifth and sixth wards. The City Law Department decided to make a test case and appealed in the name of Controller Lamb and of the Assessment Commissioner against the decision of the Court of Revision in regard to the assessment of \$103,500 in the sixth ward. Mr. Fullerton and Mr Drayton prosecuted the appeal for the city, and Mr Laidlaw, for the company, urged lack of jurisdiction.

Judge McDougall delivered a judgment recently, the logical sequence of which will be the assessment by municipal officers all over Ontano of all these rails, poles, wires, mains, etc., which have in many cases up to the present time been exempt. It is estimated that in Toronto alone there is at least a million and a quarter of property on the highways that will in future pay taxes, and the gas company will be assessed for something in the neighborhood of half a million cash.

In delivering judgment Judge Mc-Dougall said. "I have considered the objection raised in the appeal by Mr.

Laidlaw, viz., that the right to appeal from the decision of the Court of Revision provided for by section 68 of the assessment act, is conferred only upon the person assessed or sought to be assessed, and is not open to the municipal corporation who assessed or omitted to assess the person or corporation complaining before the Court of Revision. To hold that when the legality of an act done by the municipal corporation has been questioned before the statutory court the decision of that court cannot be reviewed at the instance of the corporation whose act is impeached, but may be questioned by the original complainant only, is repug-nant to common sense and justice. It would require express words of limitation to that effect to induce me to construe so narrow a general clause giving a right of appeal against a decision of a Court of Revision. Section 68 says an appeal to the county judge shall lie not only against a decision of the Court of Revision, but also against the omission, refusal neglect of the said court to hear or direct the appeal. It is right that the limitation contained in section 76, confirming the right of appeal to a board of judges to the person assessed, should be looked at as showing the intention on the part of the legislature to limit the right of the appeal under section 68 to the party assessed,

The insertion of this limitation in section 76 appears to me to be rather an argument the other way, for without that limitation it is clear that the appeal to the board of judges could be open to enter party to the original complaint before the Court of Revision. But this special court for the hearing of particular appeals has no general jurisdiction to hear all ap-It can be called into existence only, the legislature says, if the person assessed desires it. It is a special right given to assessed persons, but it in no way affects the rights and privileges created by section 68, save where the amount involved is a certain sum and the person assessed feels himself aggricved. All other cases remain to be dealt with under the provisions of section 68. The board of county judges is, therefore, an alternate court of strictly limited jurisdiction. If not invoked sub rosa the county judge possesses sole appellate jurisdiction, but the appeals he is directed to hear and determine are appeals against the decisions of the Court of Revision. The person in whose favor the Court of Revision has decided cannot appeal, but the opposite party, or the person who has been unsuccessful in his contention before the Court of Revision, is entitled to appeal.

Mr. W. G. Merritt has been appointed city clerk of Chatham, Ont.

WAS THE BOY OF THE PASSAGE

Goderich, Ont., has added a new stantle pipe to its waterworks plant, erected under the supervision of Mr. Walter C. Brough, C.E.

.. Manufactured at...

NIEL ON RUPELL

JOSSON CEMENT

Is the Highest Grade Artificial Portland Cement and the Best for High Class Work. Has been used largely for Government and Municipal Works,

TO BE HAD FROM ALL GANADIAN DEALERS

C. I. de Sola, Manager in Canada : 180 St. James Street, MONTREAL

BELLHOUSE, DILLON & CO., 30 St. Francois Xavier St., Montreal
Sole Agents for the Compagnic Generale des Asphaltes de France (Rock Asphalt).

PORTLAND NORTH'S CONDOR

Paving and Fire Brick a Specialty

SITTING LION and WHITE CROSS Brands

NORTH'S CONDOR" BRAND AWARDED FIRST PRIZE AND GCID MEDAL AT THE ANTWERP EXHIBITION

MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS

ENGINEERS

August 12, 1897

WILLIS CHIPMAN

B. A. Sc. (MoGIU). Mem. Can. Soc. O. E. Stem. Am. Soc. C.E.; M. Am. W.W. Asi'n.

Civil and Sanitary Engineer

WM. NEWMAN, C. E. A. M. Can. Soc. C. E., M. Am. W. Wks. Assn. CITY ENGINEER OF WINDSOR.

Civil and Sanitary Engineer

Waterworks, Sewerage, Drainage, Pavements, &c. Fleming Block - WINDSOR, ONT.

GEO. WHITE - FRASER

C.B., D.T.S., A. AM. INST. BLEC. BNG CONSULTING

ELECTRICAL ENGINEER

Bleetric Railways and Bleetric Light.

SPECIALTY. Specification and Superintendence of MUNICIPAL PLANTS.

18 Imperial Loan Building TORONTO.

VAUCHAN M. ROBERTS

Civil and Sanitary Engineer

Waterworks, Sewers, Electric Light, . . . Blectric Railways. . . .

Plans and Specifica-tions prepared Work Superintended.

18 Ontario Street ST. CATHARINES

DAVIS & VAN BUSKIRK

Graduates Royal Military College of Canada.

CIVIL ENGINEERS

SPECIALTY: Municipal Engineering, including Drainage, Sewerage, Sewage Disposal, Waterworks, Rondways and Bridges.
W. F. Van Buskirk, A. M. Can. Soc. C. E., Stratford, Wm. Mahlon Davis, M. Can. Soc. C. E., Woodstock.

J. McDOUGALL, C. E., ENGINEER OF THE COUNTY OF YORK

GENERAL MUNIGIPAL ENGINEER

Consulting Engineer for Municipalities in regard to Electric Railway and other Franchises.

Specialities: Bridges, Foundations, Electric Railways, and Roads. Surveys made; Plans, Specifications and Agreements prepared, and work superintended.

GOURT HOUSE, - TORONTO.

Paving Granite

Granite Sets for Street Paving. — CURBING cut to any shape ordered. — Fine Rich Colors for Building and Monumental Purposes. Quarries, St. Phillipe d'Argenteuil, P.Q.

JOS. BRUNET - COTE DES MEIGES, MONTREAL

Municipal Officers, Town Clerks, &c., are requested to mention the CANADIAN CONTRACT RECORD when corresponding with advertisers.

THE JENGKES MAGHINE GO. →

30 Lansdowne Street, SHERBROOKE, QUE. Builders of

STONE AND ORE CRUSHERS and Macadamizing Machinery.

Complete Plants Planned and Erected.

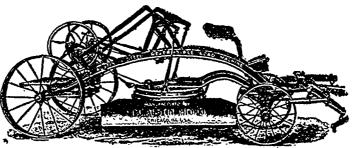
Write us for Catalogue No 5, relating to Crushing Machinery

ROADS MACHINERY.

The CHAMPION Steel Reversible Road Machines, Rock Crushers, Road Rollers, Distributing Carts, Scrapers and Road Plows are Models of Excellence. Sole owners to the rights to their manufacture and sale in Canada are the.....

GOOD ROADS MACHINERY CO. (JOHN CHATTEN) HAMILTON, ONT.

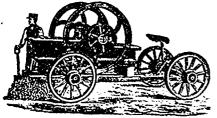
AUSTIN Reversible ROAD **GRADER**



 $BEST\dots$ FINISHED MOST...COMPLETE.

We claim to have attained

PERFECTION



Austin Rock Crusher

Branch Houses-

LONDON, ONT. WINNIPEG, MAN. ST. JOHN, N. B.

F. C. Austin Manufacturing Co.

Cor. Carpenter St. and Carroll Ave.,

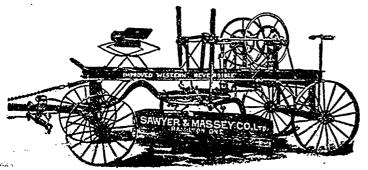
CHICAGO, ILL.

Manufacturers of . . .

A Full Line of EALTH-MOVING and ROAD-MAKING MACHINERY_

New Era Graders, Wheel Scrapers, Levelliny Scrapers, Dray Scrapers, Plows, Reversible Road Rollers, Ditching Machines, Street Sprinklers, Street Sweepers, Well Drilling Machinery Etc., Etc.

ROAD MAKING MACHINERY-



We are prepared to supply Municipalities, Contractors, etc., with the Latest Improved

ROAD MAKING MACHINERY

Catalogues on Application.

Correspondence Solicited.

Sawyer & Massey Go., Ltd. HAMILTON, ON'I.

Prices of Building Materials.

LUMBER.

YALD QUOTATIONS.

Toronto. Montreal. 14 00 14 00 15 00 10 00 17 00 19 00 20 00 22 00 14 00 14 00 16 00 16 00 17 00 21 00 23 00 25 00 27 00 29 50 33 00 33 00 *BRIOK*—₩ M Common Walling 6 50 Good Facing 8 00 7 50 8 00 8 50 8 5c \$ 00 19 00 17 00 15 0 9 0 17 00 15 00 SAND. Per Load of 11/2 Cubic Yards 1 25 STONE. 10 00 11 00 18 00 25 70 60 50 1 15 1 15 90 85 OHIO PREESTONE, PROM THE GRAFTON STONG CO.'S QUARRIES. CREDIT VALLEY STONE.

LONGFORD STONE. Rubble, per 30M car. f.o.b. quarries Ashlar, per cub. yd f.o.b quarries Dimension, per cub. ft.

INDEX TO ADVERTISEMENTS

		chitect and Builder	
Arolistects. Ontario DirectoryIII Quebec Directory ii	Comonts. Bremner, Alex 1 Currie & Co., W&FP., xii	Interior Decoration Castle & Son i Elliott, W. H v	Reflectors Frink, I. P.
Architectural Sculptors and Carvers. C mell, L. M vi Holbrook & Molling.	Owen Sound Portland Cement Co. IV The Ratibus Co IV	Lime. Currie & Co, W&FP xis Ontario Lime Associa-	Campbell & Gilday xi Douglas Bros xi Duthie & Sons, G xi
Lamar & Metge III	Brenner, Alex t Currie & Co. W&F.P. xii	Legal. Denton & Dods III	Hutson & Sons, W. D. al Montreal Roofing Co. al
Architectural Iron Work. Dominion Bridge Co. I	Hemilton and Toronto Sewer Pipe Co xii Elevators	Quinn & orrison. III Luxfer Prism Co x	Ormsby & Co., A B., 1 Rennis & Son, Robt., 2
Art Woodwork Southampton Mfg.Co. IV	Darling Bros ii Fensom, John I Leitch & Turnbull I	Machinery Petrie, H. W III Phelps Ma.hine Co., viii	Reggin, John
Boller Covering Mica Boiler Covering Co	Miller Bros & Toms vi Engravers.	Mantles, Grates, and Tiles.	Mfg. Co
Builders' Supplies. Bremner, Alex i Currie & Co., W&FP xii Montreal Directory. xi	reau II Fire Brick and Clay	Holbrook&Mollington i Rice Lewis & SonIV Mail Chutes.	Williams & Co., H, xi Ranitary Appli- ances
Ontano Lime Associa- tion	Bremner, Alex 123 Currie & Co, W&FP. xii Folding Partitions.	T:a Cutler Mfg Co viii Mortar Colors and	Garth & Co
Toronto Directory xi Building Stone Dealers.	Springer, O. T v Galvanized Iron	Shingle Stains. Cabot, SamuelIV Muirhead, Andrew i	The James Robertson Co
Brodie, James vii Couzens, James J vii Credit Forks Mining	Workers. Ormsby & Co., A. B I Grilles and	Ornamental Iron Work. Meadows, Geo B IV Toronto Fence & Or. a	Cabot, Samuel IV Stained and Decora-
& Míg. Co vii McPherson & Co., A vii Moir. D. W vii	Railings. Dennis Wire & Iron	menal Iron Works vi Painters.	tivo Glass
Samuel, Thomas, & Son vii The Longford Quarry Co vii	Meadow, Geo B viii Toronio Fenie & Oria- mertai Iron Werks, vi	Montreal Directory xi Toronto Directory xi Plasterors	Castle & Son
Stone Quarry Covii	Southampton Mig. Co IV Granute	Hynes, W. J xi Paints & Varnishes	McKenrie's Stained Glass Works v The Robe t McCeus-
Builders' Hard- ware. Rice Lewis & Son IV	Brunet, los vii Brodie. J mes vii Moir, D W vi	Muirhead, Andrew Parquetry Floors	The Robe t M: Caus- 'a d Stained G'ass Co
Creosote Stains Cabot, Samuel IV Church and School	Heating. Clare Bros. & Co viii Darling Bros ii Gurney Foundr iv	Elliott, W H vi Plate Glass Hobbs Glass Works ii	Shingles and Siding Metallic Roofing Co., Jx
Furniture. Can Office & School Furniture Co v	Howard Furnace Co vi King & Son. Warden III	Lyon, N. T v The Consolidated Plate Glass Co ii	Ormsby & Co., A B., 1 Soil Pipe.
Chimney Topping. Bremner, Alex. Currie & Co., W&FP xii	Ormsby & Co., A. B. I Pease Furnage Co. viii	Plumbors Montreal Directory xi Toronto Directory xi	Toronto Foundry Co., 183 Typeworlters, Etc. Spackman&Archibald III
Contractors' Plant and Machinery Rice Lewis & Son IV	Toronto Radiator Mfg Coin T e Janes Snart Mfg Cov	Roofing Materials Ormsby & Co., AB I Metallic Roofing Co ix	Wall Plaster Albert Mfg. Co li The A atastine Co y
 			
Kent Free stone Quarries M per cu. ft., f.o.b River John, N. S., brown s	reestone, per	Cement ((Toronto. Montreal.
cu.ft., f.o.b	. 1.o.b. quarry. 10 1 00	Thorold, per bbl	175 :50 100
Granite paving blocks, 8 in. x4 % in. per M Gran te curbing stone, 6 in	.to 12 in. x6 in. 50 co 1. x 20 in. per	Hull, Ontario, Keene's Coarse "Whites" Fire Bricks, Newcastle,per M	. 175 150
lineal foot		Lime, Per Barrel, Grey	27 00 35 00 19 00 8T 00
Rocting (# square).	Toronto. Montreal.	Plaster, Calcined, N. B " N. S Hair, Plasterers', per bag	. 200 T-EO
n red n purple n anlading green black	00 10 00 1 9 00 7 00 8 00 8 00 6 50	HARD	WARE. tations to builders for nails
Terra Cotta Tile, per sq Ornamental Black Slate Rox	25 00 25 00 ing A 50 6 80	Cut nails, 50d & 60d, per ke Steel 11 11 11 11	AND CUT SPIKES
White lead, Can., per 100 lb "rinc, Can., 11 11 Red lead, Eng	5. 5 25 5 50 4 62 3/2 5 00	40d, hot cut, per 10 lbs 10 to 16d, hot cut	. 230 seb . 235 ses . 240 ses
venetian, per 100 lbs	100 175 100 175 . 90 100 75 90	10 to 16d, ho; cut	- 245 # 95 - 270 # 60 - 391 # 85
Yellow ochre Yellow chrome Green, chrome	. 5 10 3 5 . 15 20 15 20	Team	Dina.
Black lamp	. 20 25 14 20 15 25 12 25	Iron pipe, ¼ inch, per foct.	6c. 6c.
Blue, ultramarine Oil, linseed, raw, by bbl. Imp. kal. Oil, linseed, b'd, by bbl.,	. 45 48 48 19	11 11 3/4 11 11 11 11 11 11 11 11 11 11 11 11 11	12 18 17 17 24 94
Oil, linseed, refined, & Imp.g	. 27 () 57	Toronto, 70 per cent. disc	0 30 30 0 43 43
Putty	. 90 125 90 100	Montreal, 70 per cent. di Lead pipe, per lb	Pipa: · 7c
Litharge Eng Sienna, burnt Umber.	. 81/2 12 10 12	Waste pipe, per lb	ed Iros: seen's Head:
OEMENT, Portland Cements.—	- 43 45	Gordon Crown—	• 3 3/4 9/4
German, per bbl London " Newcastle "	- 275 300 I 92 2 05 - 275 I 85 I 95	16 to 24 guage, per lb 26 guage, " 28 " Note.—Cheaper grades abo Structur	
Belgian, Josson, artificial North's "Conder"	265 275 265 275 265 275 265 275	Note.—Cheaper grades abo Structur Steel Beams, per 100 lbs	ut V.c. per lb. lese, al Iron: 275 8 40
Roman	. 255 275 100 105	Steel Beams, per 100 lbs "channels, " angles, " tees, " plates, "	. 285 236 . 250 26 . 260 260
Superfine "	. 475 500 550 575 . 75 725 800 905	Suesten steel anage hister.	· 255 275