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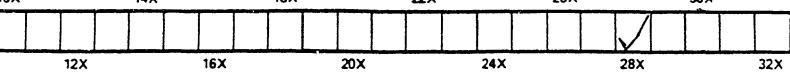
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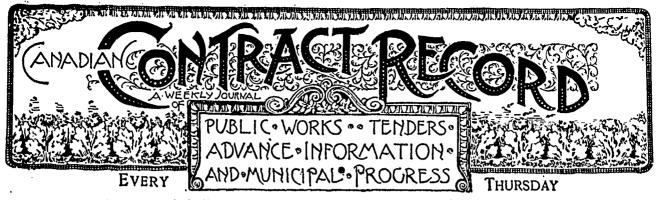
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This paper reaches every week the Town and City Clerks, Town and City Engineers, County Clerks and County Engineers, Purchasers of Municipal Decentures and leading Contractors in all lines throughout Canada.

VOL. 7.

### **SEPTEMBER 17, 1896**

No. 33.

## THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY THURSDAY

As an Intermediate Edition of the "Canadian Architect and Builder."

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C. H. MORTIMER, Publisher,

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## 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 ma-terial, 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 daily requirements.

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

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

## MUNICIPAL DEBENIURES FOR SALE

The Corporation of the Village of Huntsville will re-ceive tenders for the purchase of

\$20,000.00

Waterworks Debentures at 5 per cent., 30 years. \$5,000.00

Blectric Light Debentures at 5 per cent., 20 years.

Sealed tenders will be received by the undersigned at his office in the Village of Huntsville, up till 7 a clock p. m. on NONDAY, THE 38711 DAY OF SEPTEM-BER, 1896, from whom full particulars may be obtained. 5, from woom hun printer WILLIAM RUMSEY, Clerk of Municipality, Village of Huntsville.

## **TENDERS WANTED**

Sealed Tenders, addressed to the undersigned and marked "Tenders for Debentures, will be received up to and inclusive of OCTOBER 9711, 1896, for the pur-chase of

### \$49,917.57 of Sewer Debentures

bearing interest at 5% and payable in thirty years. Also tenders for the whole issue of \$109,000; the ten-ders to include accrued interest. Lowest or any tender not necessarily accepted.

JOHN ROBINSON, Town Clerk. Town Clerk's Office, Ningara Falls, Ont., Sept. 9th, 1856.



# NOTICE TO CONTRACTORS

## Piling and Filling over Conduit

Tenders will be received by registered post only, ad-dressed to the City Engineer, Toronto, up to 10 o'clock a.m. on

## Friday, September 18, 1896,

for piling and filing over conduit, in Blockhouse Bay, south of Hanlan's crib. Specifications may be seen and forms of tender ob-tained on and after Tuesday, Sept. 15, 1896, at the office of the City Engineer, Toronto. Adeposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 2/2 per cent. on the value of the work tendered for, must accom-pany each and every tender, otherwise it will not be entertained. The tenders must be the value of the very tender.

pany each and youry concern entertained. The tenders must bear the bona fide signatures of the contractor and his sureties, or they will be ruled out as informal.

BERNARD SAUNDERS, Chairman Committee on Works.

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

Toronto, Sept. 14, 1896.

#### BUSINESS NOTES.

Peter McHaffie, carpenter, Duncden, Ont., has assigned to W. H. Hamilton.

J. A. Close, brick manufacturer, Wood-ock, Ont., has assigned to E. W. W. stock. Nesbitt.

The assignment is reported of Charles C. Parker, carpenter, Renfrew, Ont., to T. H. Grant.

George E. Brady, builder and contrac-r, London, Ont., is said to have astor. signed to H. M. Douglas.

#### CONTRACTS OPEN.

PERTH, ONT .- R. A. Brown intends building next spring.

SHERWOOD, N. S.-It is reported that a new hotel will be erected here.

DIGBY, N. S .- An electric railway is to be built from Milton to this town.

APPIN, ONT .- The corner stone of the new English church was laid last week.

LINDSAY, ONT.-S. J. Fox is preparing to erect a two-storey white brick cottage.

TORONTO JUNCTION, Ont .- David Mc-Donald has been granted permission to construct an abattoir in town.

METCALFE, ONT.—The erection of a High School building in this village is being agitated.

BRANTFORD, ONT.-The T. H. & B. Railway Co. will erect a station building here, to cost \$4,000.

ALBERNI, B. C. - Mr. Halfpenny, whose saw mill was recently burned, has not yet decided to rebuild.

ST. STEPHEN, N. B.—Findlay & Shurt-leff, of Milton., N. B., will probably build a paper mill at this point.

SOUTHAMPTON, ONT.-The govern-ment will have a survey made of the harbor with a view to dredging.

MALLORYTOWN, ONT.—It is reported that a summer hotel will be erected next season at Mallorytown Landing.

PRESCOTT, ONT .- An annex will be erected to the elevator here which will give a capacity of 500,000 bushels.

ARNPRIOR, ONT .- Mr. James Morris C. E., has prepared plans and estimates for a drainage system for this town.

ALMONTE, ONT .- Bell & Wilkie, surveyors, are making a preliminary survey of the proposed new line of railway from Carp to Almonte.

PORT ALBERT, ONT .- The Minister of Public Works has been urged to improve the harbor by extending the pier and carrying out some necessary dredging.

PORT ARTHUR, ONT .- The Sault Ste. Marie Pulp & Paper Co. are taking steps to commence work at once on the development of the water power of the Kakabeka Falls.

PENETANGUISHENE, ONT. — Steam heating will be put in the Hotel Pene-tanguishene this fall, a large bathinghouse built, and a new sanitary system put in.

STONEY LAKE, ONT.-John Morgan, of Warsaw, and A. P. Morgan, of Peterboro', will crect at this place a large hotel, on the second flat of which will be 24 bedrooms.

SHERBROOKE, QUE. — The Talbot Brussels Carpet Co. will establish their work on the Magog river. The estimated cost of buildings is \$30,000, and of the equipment \$50,000.

RAT PORTAGE, ONT.- App opriations will be made by the Dominion governله من من المالي الم

ment for improvements to Rainy river and the erection of lighthouses on the Lake of the Woods.

STRATHROY, ONT. - F. F. Craig, town clerk, will receive tenders until Monday, the 5th of October, for the purchase of \$10,000 of debentures, bearing interest at 5 per cent. and payable in 20 years.

STRATHALLAN, ONT. – James Ander-son, Clerk of East Zorra, will receive ten-ders until Monday, the 28th inst., for the construction of a drain in the 9th and 10th concessions, lots 23 and 24, East Zorra.

CACHE BAY, ONT.-Mr. J. R. Booth, lumberman, of Ottawa, has offered \$10,000 towards the construction of a consumptive sanitorium in Algonquin Park. It is probable a site will be selected near this place.

QUEBEC, QUE.-Mr. Choquette has asked in the Dominion parliament if it is the intention of the government to grant aid towards the construction of a bridge over the St. Lawrence at this city. The gov-ernment have promised to consider the matter.

RIMOUSKI, QUE.—Tenders are invited by the Department of Public Works, Ottawa, until Tuesday, the 29th inst., for the erection of a post-office in this town. Plans may be seen at the above department and at the office of J. A. Talbot, merchant.

GODERICH, ONT. - Wm. Mitchell, Town Clerk, will receive offers until the 30th inst. for the purchase of the following: \$20,000 4 p. c. sever debentures; \$12,000 4 p. c. waterworks extension de-bentures; \$6,500 4 p. c. incandescent electric light debentures.

PETERBORO', ONT.—No tenders having been received by the City Council for electric street lighting, steps will be taken at once by the corporation to install an electric light plant. A committee, composed of the Mayor and councillors Mills and Best, have been appointed to further the scheme.

LITTLE CURRENT, ONT. - Tenders are invited until the 12th of October, ad-dressed to John J. MacInture, Niagara Falls, N. Y., for the construction of fortytwo miles of the Manitoulin and North Shore railway, extending from Little Cur-rent to a point on the Soo branch of the Canadian Pacific.

VICTORIA, B. C.—J. Maclure, architect, has prepared plans and is receiving ten-ders for additions to the St. Joseph hospital, consisting of four storeys and a basement,  $68 \times 53$  ft., with laundry addition 19 ft. square, electric elevator, hardwood floors, perfect system of venti-lation, hot water heating, etc.

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WINNIPEG, MAN. - The Northwest Hotel Co. 15 seeking incorporation, to buy and improve land, erect hotels, office buildings, etc. Capital \$100,000. The applicants are: W. H. Adams, F. W. Ferguson, J. H. Ashdown, John Leslie and W. S. Reaman.—L. W. Compton invites tenders until the 18th inst. for the erection of a residence.

QUEBEC, QUE.—The construction of a new church at St. Alphonse of Thet-ford Mines, is decided upon. David Ouellet, architect, is calling for tenders, which will be received until the 30th of September. Building permits have been granted as follows. Reparations of a house for Ch. Bergevin, of the Mountain Hill House; reparations of a house on Grant st., for F. X. Blouin.

NICOLET, QUE. A new cathedral is to be erected to replace the one now in use. It is to be of the Renaissance style of architecture and will be built of Deschambault stone. The dome of the steeple and the cross are to be of aluminum. The edifice is to be 192 feet long, 97 feet high, with steeple 185 feet high. At the rear a two-storey sacristy is to be erected, the whole to be completed by May 1st, 1899. PORT ARTHUR, ONT.-A deputation from Fort William and this town last week interviewed the Minister of Railways and Canals at Ottawa urging the government to grant a bonus of \$3,200 per mile for 150 miles of the Rainy River road, connecting the Port Arthur, Duluth and Western railway with the Rainy river. The Ontario government has already pledged aid, and the promoters expect the Manitoba government to grant liberal aid to connect the road with Winnipeg.

ST. JOHN, N. B.-Tenders are invited by the Board of School Trustees, adby the Board of School Trustees, ad-dressed to Edward Manning, secretary, until Monday, the 24th inst., for the plumbing and heating and ventilation of the new High School building now in course of erection. Plans may be seen at the office of G. E. Fairweather, archi-tect School building the heat building the tect, 84 Germain street. - Plans have been prepared by the Department of Pubhave lic Works at Ottawa for the scows required in connection with the harbor improvements at this city.—It is stated that the St. John Street Railway Co. will erect, at an early date, a larger power house.

LONDON, ONT.-McBride & Farncombe, architects, have in hand the erection of a brick residence on Queen's avenue, this city, and a residence at Arva. -It is probable that further additions to the Western Fair buildings will be made by the directors next year.—Moore & Henry, architects, have prepared plans for enlarging St. James Anglican church by adding 20 feet to its width, 10 feet on each side, and rearranging the seating accommodation. An addition will also be made in the rear to provide accommodation for the choir, and the church will be lighted by electricity. Estimated cost \$5,000. Tenders will be invited at once. \$5,000.

HAMILTON, ONT. -- The Toronto Hamilton & Buffalo Railway Company is seeking authority from the government to build a line to Ridgeville.—The City Council has given notice of its intention to construct pipe sewers on the following streets : Stanley avenue, between Locke street and Garth street, cost \$1,625; Herkimer street, between Locke street and Garth street, from the end of the present sewer to Garth street, cost \$050. The Garth street sewer will probably be extended to Aberdeen avenue, at a cost of \$3,000.—Dr. Bryce, secretary of the Provincial Board of Health, has approved of the plans prepared by the city engineer for the sewerage interception works.

MONTREAL, QUE .- The Road Department has given notice that it is proposed to construct a sewer on Seaton street. from Mary Ann street to Mount Royal avenue.—At a meeting of the council of the Board of Trade held last week, the president reported that the Dominion government had been memorialized to widen and deepen the ship canal. The necessity of enlarging the dry dock at Levis was brought to the attention of the council. — C. St. Jean, architect, will shortly invite tenders for a villa to be erected at Sault aux Recollets for M. Smith.-Messrs. Sincennes & Courval, architects, have received tenders for a house, three tenements, to be crected on St. Famille street for R. R. Wilson. The same architects are preparing plans for a block of ten lodging houses and four stores to be crected at the corner of Notre Dame and Levis street for M. Ferdinand Bayard ; also for one cottage on City Hall Bayard ; also for one cottage on City Hall avenue for Thos. Forest.—Alcide Chausse, architect, has prepared plans for repara-tions of a house, corner of St. James and St. Gabriel sts. The work will be done by day labor.—Building permits have been granted as follows. One house, three stories, two stores and two tene-ments, stone and brick, corner Legauchetiere and Hermine sts.; reparations of three houses on Aylmer st. for J. D. Clifford.

TORONTO, ONT.—The City Council has appointed a sub-committee to consider the advisability of asking the citizens for \$1,000,000 with which to construct a trunk sewer.-A resolution has been passed by St. George's Society praying that steps be taken by the City Council to provide a be taken by the City Council to provide a suitable building for the care of aged and infirm people.—The City Engineer has recommended a cement concrete side-walk on the south side of Richmond street, between Yonge and Victoria sts., sect Sco. and a concrete sidewalk on street, between Yonge and Victoria sis, cost \$630, and a concrete sidewalk on Bay street, from Adelaide street to a point 124 feet nortl, to cost \$279.—Mr. E. J. Lennox, architect, waited on the Property Committee on Monday last with regard to the steam-fitting, ventilation, plumbing, and electric lighting of the new court house and city hall. The committee decided to recommend to the Board of Control that tenders ac called for the work. It is estimated that it will cost in the neighborhood of \$150,000.-Proposals are invited by the Chairman of the Board of Control until the 18th inst., for piling and filling over conduit in Blockhouse Bay, south of Hanlan's crib. Specifications at the office of the City Engineer. J. W. Siddall, architect, has prepared plans for the following buildings : Two residences on Bloor street east for Drs. McKenzie and Galloway, with separate buildings for their offices, cost \$10,000; an addition to W. A. Murray & Co.'s store, King street east, and an addition to the Huron house, London, Ont.—A new steel bridge is to be constructed over the Etobicoke river at Burnhamthorpe, between the counties of Peel and York. The estimated cost is  $2,\infty\infty$ , and ienders will be invited at once. —The City Council has given notice of its intention to construct the following local improvements : Asphalt pavement on Carlton avenue, cost \$1,500 ; on Front street, from Yonge to Church street, cost \$14,000; on Parliament street, fro Queen to Gerrard street, cost \$26,700. from The City Engineer, in his report presented to the Board of Works on Monday last, recommended the construction of the folle wing pavements as local improvements: B ick –Gladstone avenue, Queen to Dun-das street, cost \$18,200; Foxley street, Dundas street to Dovercourt road, cost Dundas street to Dovercourt road, cost \$3,270; Palmerston avenue, College to Robinson street, cost \$19,200; Lippincott street, Nassau to Bloor, cost \$27,420; Davenport road, Avenue road, 636 feet westerly, cost \$4,200; Huntley street, Bloor to Earl street, cost \$8,540; John-cords Long Addicide street to cost be street to come son's Lane, Adelaide street to south side, cost \$840. Asphalt—Cariton street, Sher-bourne to Parliament street, cost \$14,800; Dundas street, Queen to Arthur, cost \$18,600. Macadam – Terauley street, Queen to College street, cost \$9,270.—A building permit has been granted to A. E. C. May, 414 Euclid ave., for 2 pr. s. d. two story and attic bk. dwellidgs, at No. 8 Brunswick ave., cost \$12,000.—At a meet-ing of the Board of the House of Industry, held on Tuesday last, the question of erecting a new building or enlarging the present one was discussed. A special meeting will be held on Tuesday next to consider the matter.

#### FIRES.

FIRES. Wm. Resse's dwelling at Belleville, Ont., has been burned. Loss \$1,000.— At Berwick, N. S., fire destroyed the Berwick foundry, the company's store and adjoining buildings and the Berwick registry office.—A large residence at Buctouche, N. B., owned by C. Bourque, was destroyed by fire last week. In-surance \$2,300.—J. Langlier's candle factory at Longueuil, Que, has been damaged by fire to the extent of \$10,000, partially covered by insurance.—The partially covered by insurance.—The building of the Montreal Steam Laundry, owned by T. H. Love, was completely gutted by fire on the 10th inst. The total loss is estimated at \$200,000, with

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#### September 17, 1896

## CANADIAN CONTRACT RECORD.

insurance of \$50,00. — The large saw and shingle mill at Fenelon Falls, Ont., owned by J. W. Howry & Son, was consumed by fire on Wednesday of last week. The loss is \$40,000 and insurance \$22,000. —Two dwellings and several out houses at Chambly Basin, Que., were burned on the 15th inst. The total loss is \$5,000. — A building on Jarvis street, Toronto, owned by the Beard Estate and the Canada Permanent Co., was damaged by fire last week to the extent of \$4,000, fully covered by insurance.

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#### CONTRACTS AWARDED.

GALT, ONT.—Hanson Bros., of Montreal, were the successful tenderers for the purchase of debentures.

WINGHAM, ONT.--A. Graham, of London, is the successful tenderer for granolithic sidewalks in this town, at 13 cents per foot.

ST. THOMAS, ONT.—A three years' contract for street lighting has been entered into with the St. Thomas Gas Company.

BLENHEIM, ONT.—The J. F. Pease Furnace Company, of Toronto, have been awarded the contract for heating the new town hall here.

MONTMORENCY FALLS, QUE.—Walter Sharpe has been awarded the contract for erecting an addition to the Riverside Mfg. Co.'s works, to be built of brick and stone.

WINNIPEG, MAN.—The tender of Kelly Bros. has finally been accepted for an asphalt pavement on Assumboine ave. and Kennedy street, at the price of \$18,964 60.

DESERONTO, ONT. Frank Dolan, of Beileville, has been awarded the contract for erecting the R. C. church here. The amount of contract is \$9,000, exclusive of furnaces, pews, altars, etc.

WOODSTOCK, ONT.—The contract for heating Knox church has been awarded to the J. F. Pease Co., of Toronto, at the price of \$1,700. The furnishing contract has been given to the Globe Furniture Co., of Walkerville, the figure being \$2,900.

CHARLOTTETOWN, P. E. I.—The Government have accepted the tender of Waller Lowe, of this city, for the proposed addition to the asylum at Falconwood. The price is about \$22,000. Seven tenders were received, ranging from \$22,000 to \$27,000. C. B. Chappell, architect.

GUELPH, ONT.—Mr. Robert Melvin has awarded contracts for an addition to his residence as follows: Foster & Rundell, mason work; George Steven, carpentering; J. J. Mahoney, plastering; W. Holman, painting; Feek & Co., plumbing and gas work. J. Day, architect.

BROCKVILLE, ONT. – The James Smart Mfg. Co. have contracts for the following buildings to be heated with "Kelsey" warm air generators: Newton Cossitt's large store, Brockville, to be occupied by O'Donohue Bros.; Grace Methodist Church, Gananoque, with three Kelseys; R. C. convent, Cranby, Que., with one No. 30 Kelsey.

LONDON, ONT.—The McClary Mfg. Co. recently shipped four large 6 ft. wood furnaces to Eganville, for heating the new R. C. church in that town.—The bulk contract for the erection of the G.T.R. car shops here has been let to George E. Mills, of Hamilton, and work will be commenced at once. The amount of contract is said to be upwards of \$100,000. Subcontracts have been awarded to Hamilton contractors as follows : Woodwork, Donaldson & Patterson ; slate work and roofing, Irwin & Scr. ; plumbing, H. O. Wallace ; painting and decorating, Ross Bros.

TORONTO, ONT.—Purdy, Mansell & Mashinter, of this city, have been awarded the contract for steam-heating of the Crawford House at Windsor, Ont., for the Crawford Estate, also hot water heating of Loretto Convent, Sarnia, Ont. -- Contracts for pavements were awanied by the Board of Control on Monday as foliows: Lowther avenue, Avenue road west, brick on co..crete, \$2,991, D. L. Van Vlack; Huron street, College to Bloor, brick on concrete, \$17,590, D L. Van Vlack; Spencer ave., King to Huxley st., \$4,891, brick on gravel, D. L. V.in Vlack; Grand Opera House Lane, brick on gravel, \$465, J. F. C. Shields.

MONTREAL, QUE—Labelle & Payette, of this city, have obtained the contract for the laying of the foundation of the East End station.—R. H. Buchanan & Co. have been awarded the contract for supplying the pumping machinery and placing the same in position for the Chambly waterworks, Chambly, Que.—A. Sincennes & E. Courval, architects, have awarded the contracts for reparations of a house, corner of St. Lawrence and St. Catharine streets, for Edm. Payette, all trades to W. Gariepy.—Clif. & Pope, architects, have awarded the contract for one residence at Pont de Sault, two stories, for G. M. Day, all trades to Damase Joron. —J. Alcide Chausse, architect, has let the contracts as follows for reparations of a house on Shaw street for E. Chausse : heating and plumbing, David Ouimet; other trades by day work.

HAMILTON, ONT. - Tenders have been accepted as follows for the new market building : Galvanized iron work, Thos. Irwin, \$44; mason and brick work, Thos. Landers, \$900, and \$300 extra for a concrete floor ; painting, James Matthews & Sons, \$110 ; slate tables, James Findlay, \$375; carpenter and wrought iron work, Richard Press, \$644.—Lettch & Turnbuli, of this city, have been awarded the following contracts for elevators : One hydraulic, ing contracts for elevators: One hydraulic, for John P. Graham, Windsor, N. S.; two hand power, for Wyatt Block, Winnipeg; one hand power, for Gurney, Tilden Co., Winnipeg; one hand power, for Union Shoe and Leather Co., Winnipeg; one hand power, for F. Krug, Tavistock, Ont.; one belt power, for Welland Vale Mfg. Co., St. Catharines, Ont.; one belt power. Co., St. Catharines, Ont.; one belt power, for Government printing office, Victoria, B. C.—Alex. Thompson has been awarded the contract for the following buildings in connection with the Toronto, Hamilton and Buffalo railway. A brick round house and frame repair shop on Garth street, cost \$10,000 and \$4,000 respectively; frame station at Bartonville and a station at Stoney Creek.

Among the colors upon which lime has no bad effect, and which may therefore be employed with safety for water-coloured ceilings, walls, &c., are siennas and umbers, Vandyke brown, ivory black, Naples yellow, French ultramarine and Chinese vermillion.

#### RELATIVE STRENGTH OF WOOD AND STEEL.

3

Dr. Robert H. Thurston, m a recent article, discusses various materials in which comparisons of interest are made. At the outset he gives the following generally accepted figures : Cast iron weight 444 pounds to the cubic foot and an inch square bar will sustain a weight of 16,500 pounds, bronze, weight 525 pounds, tenacity 36,000; wrought iron, weight 480, tenacity, 50,000 : hard "struck" steel, weight 490, tenacity 78,000; aluminum, weight 168, tenacity 26,000. A bar of pine just as heavy as a bar of steel an inch square will hold up 125,000 pounds, the best ash 175,000 and some hemlock 200,000 pounds. Wood is bulky. It occupies ten or twelve times the space of steel.

#### USEFUL HINTS.

The best way to keep varnish brushes is to suspend them in the same varnish for which they are usually used. The disadvantage of this method is the hardening, which is bound to occur, but if a cover is used when the brushes are to be kept for any length of time this objection will be removed.

In finishing pitch pine it is not necessary to size the work; the varnish may be applied directly to the wood and two coats will be required. A coat of size between each application of varnish is an improvement. One coat of size on the wood and one coat of varnish is another method, and is the one usually employed by the manufacturers of school furniture.

A very handsome walk can be laid out by using two or three shades of brick, and disposing them in patterns similar to those which are so successful in tile floors. If it is not possible to secure bricks of uniform hardness, a good effect and evenness of wear can be secured by selecting the hardest for the center of the walk, and using the softer bricks for a border design.

To clean glass that has been smeared or spotted with paint that has been allowed to dry on, first scrape off as much as possible with a sharp knife, taking care not to scratch the glass. Then rub off the remainder with turpentine and linseed oil, mixed in equal proportions with powdered pumice stone. Finish by washing with soap and water, polishing with a clean rag.



## CANADIAN CONTRACT RECORD.

September 17, 1896

#### THREE RIVERS IRON WORKS CO.

The Montreal Gazette prints the following particulars regarding the works of the above company in connection with a description of the St. Lawrence Valley Exhibition :

"These works are situated adjacent to the river St. Maurice. The company was formed about two years ago, taking over the works standing upon some fifteen square acres of land, previously carried on in the name of the Canadian Water Pipe Company, with the distinct intention of entirely changing the system upon which the pipe castings were produced, to make it second to none in Canada, and, if possible, far ahead of anything adopted in this country. It is stated by persons of experience in such matters and well qualified to give an opinion, that the object has been fully attained. It appears that the whole of the old plant and appliances have been discarded, and, practically, nothing now remains beyond the mere location. Further, that these are the only works in the Dominion producthe only works in the Dominion produc-ing cast-iron gas and water pipes in long lengths of so small a diameter as 2 inches and 3 inches. The pipes are cast verti-cally in revolving flasks with the head, or bell, downwards, ensuring soundness and uniformity in thickness, only the best and most suitable material being used. The pipes are all tested to zoo punds to

and most suitable material being used. The pipes are all tested to 300 pounds to the square inch by hydraulic pressure, and whilst sustained at that pressure are tapped with a two-pound hammer, and not a single pipe is permitted to leave about which there is the slightest doubt. The motto is "quality" and "excellence of finish," and waterworks and other engineers have already testified to the superiority of the pipes made at these works. Indeed they are considered to be the very best produced in Canada, and when this fact has become more widely known it is anticipated that large orders known it is anticipated that large orders result. Hitherto the company has not will cared to push their make in the market, preferring to wait until the changes had been completed and fully tested.

An extensive shop, containing the most modern machinery and tools, has been erected so as to enable the company to supply their improved "barking," "double-edgers," "slab-splitters," "scant-ling," and other sawmill machinery, also to supply their improved friction and other pulleys, shafting, couplings, bear-

The

BRAND "SIEMENS"

SUPPLIED BY-

ings, general shop gearing, etc., and to construct any special machinery. There is likewise a large foundry for casting hydrants, valves, special pipe castings, as well as general iron and brass castings, as well as general iron and brass castings. So far, the neighboring works have found this a great con-venience, and it has been fairly well patronized.

It would be well to mention that Law's patent improved anti-freezing hydrant, of which this company are the sole manufacturers, is making its way steadily amongst the various municipalities, and is giving the best results. The works are very conveniently situated as regards transportation, either hy railway or by navigation. The company is represented in Montreal by Mr. Jas. Stubbs, whose office is at No. 54 Imperial Building."



of Ontario, Ltd.

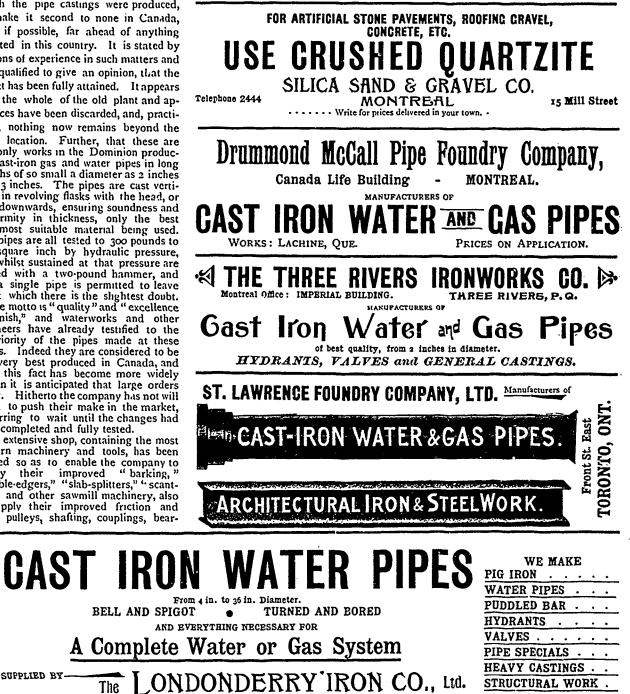
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September 17, 1896

CANADIAN CONTRACT RECORD.

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MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS



## CANADIAN CONTRACT RECORD.



### THE USE AND MISUSE OF WATER.

In concluding a paper read before the British Association of Waterworks Engineers, on the above subject, Mr. R. E. Berrington, C. E., F. G. S., summarized his remarks as follows :

1. That 15 gallons of water per head for domestic purposes is ample; that in many towns the quantity actually used is much under this; that most of the water above 15 gallons is so much waste, and can be saved.

2. That in all cases a regular and systematic inspection pays for itself; that the most efficient and complete system is that by waste-water meters and stop-taps; that excellent results may be obtained by house-to-house inspection, or by the use of valves and the stethoscope at night. The author has known of 11 or 13 burst services underground being discovered in one night by the simple use of valves and the stethoscope. No day inspection can in itself alone be considered effectual for arresting waste.

3. That where strict supervision of the house services and fittings exists stop-taps are a sine quâ non.

4. That in every waterworks a system of stamping fittings should be in operation; and samples of approved fittings should be exhibited.

5. That it is not desirable that the supply of water—a necessary of life should be controlled by a meter, but that people should be taught the proper use of it, and that all reasonable encouragement should be given to its use for sanitary purposes.

6. That mains should be laid with not less than 2ft. 6in. or 3ft. cover, and that they should be tested before being covered up. Service pipes ought also to be under the supervision of the engineer. In many existing cases mains and services are so shallow as to allow the water to be directly affected by the summer temperature, not to mention the dangers from frost.

7. That the water going to waste is not only so much loss especially under a pumping scheme—but that much of it being underground tends to produce damp foundations, and ultimately a large portion of the waste finds its way into the sewerage system, causing the local authority considerable expense. The author has found many broken mains communicating direct with sewers.

8. That the syphon cisterns so much used are an immense improvement on the old-fashioned arrangements, but that they are unsuitable for many positions, and that an ordinary careful consumer would use much less water with a firstclass valve w C.

9. That reliable self-closing taps may

be introduced with advantage in many cases, and without the concussion that used to be experienced with the old style of tap.

10. That with the rapid increase of population without an accompanying increase of water, and with the necessary appropriation of the large water sheds by the large manicipalities of the country, the question of economy in water becomes more and more important.

11. Economy in water will often effect a saving in capital expenditure, annual working expenses, and wear and tear of machinery. The quantity of water which escapes through small apertures is enormous 1 The following table shows the result of some experiments made by the author :

Description of fitting under test	Gallons wasted in 24 hours.
Kin, bid tap, washer bad	700
94in.tap "	030
Min. tap screw stripped	12,720
Min hall the worker had	000
Min, ball-tap, lever strained	200
Pipes burst by frost, Hin	11,280
Alin. ball-tap, lever strained	17,280
Taps left open, 36in	23,520
" " Kin	12,000
" " " · · · · · · · · · · · · · · · · ·	

These were not specially selected. The waste would be more under pressures higher than 50 lbs.

The author will have accomplished his desire, if, in bringing this paper before the association, he obtains for the benefit of the country the opinion of "specialists" on this important subject.

#### ONTARIO GOOD ROADS ASSOCIATION.

The annual meeting of the above association was held in the city of Toronto last week, Mr. J. F. Beam, of Black Creek, first vice-president, in the chair.

A report was received from Mr. A. W. Campbell, Provincial Instructor in Road Making, regarding the work he is doing. The future prospects of the association were discussed and the following officers elected : President, Andrew Pattullo, Woodstock; 1st vice-president, J. F. Beam, Black Creek ; 2nd vice-president, P. Jelly, Jellyby; 3rd vice-president, J. H. Woolley, Simcoe. Executive Committee, James Sheppard, Queenston; James Beattie, Campbellton. A. Macdougall, Toronto; J. C. Judd, Morton; M. Kennedy, Owen Sound ; W. S. Campbell, Brantford ; A. W. Campbell, Toronto; E. Kidd, North Gower; Secretary-Treasurer, K. W. McKay, St. Thomas.

A meeting of the Executive Committee was afterwards held, when president-elect Pattullo introduced the Hon. Mr. Fisher, Minister of Agriculture for the Dominion, who addressed the meeting in reference to road improvement and the value of good roads to the agriculturalist. He expressed his pleasure at seeing such a large exhibit of road-making machinery at the Toronto Industrial Exhibition, which, he said, had attracted a large number of municipal officers from all parts of the province, and was pronounced by all to be a most practical object lesson. He referred to the Quebec Road Association, which is now doing good work.

#### A NEW KIND OF HIGHWAY.

A new kind of highway introduced in California consists of a gutter steel track one-fourth of an inch thick and five inches wide, flat on the bottom, with sides half an inch high, then extending outward one and a half inch, then down the same. It is spiked to a longitudinal timber laid on cross ties, no spike heads being on the surface, and the track is perfectly smooth ; the laying is four feet eight and one-half inches from center to centerthe standard gauge of all the wagons and railroad cars. The middle and sides are filled in with stone, so that, in fact, the structure is a macadamized road, with steel tracks for the wagon wheels; and on this kind of track one horse will draw twenty times as much as on a dirt road, and the economic revolution involved in such a plan is not to be doubted, in view of the statement officially made, namely, that freight can be hauled on such a steeltrack road for less than half the average charge on lateral roads.

#### PERSONAL.

Mr. Isreal David Bowman, clerk and treasurer of the County of Waterloo, diedsuddenly at Berlin, Ont., a fortnight ago from heart trouble. Deceased was a native of the county, being born in the township of Waterloo in 1830. He was a son of Henry Baer Bowman, who came to Upper Canada from Pennsylvania in 1825. He was educated at Rockwood Academy, taking a thorough commercial course. In 1858 he was elected reeve of the town of Berlin, and in "6t received the appointment of county clerk. In 1880, he was made county treasurer, succeeding the late Charles Stanton, and has held the joint office, together with that of town clerk of Berlin, ever since.

NOISY BRICK PAVEMENTS.-Concerning noisy brick pavements, Mr. Ernest Adam, engineer of the Street and Sewer Departments of Newark, N. J., writes that the rumbling noise complained of does not seem to remain in the same place, but appears to be shifting. A brick pavement has been laid on an avenue in Newark during the warm weather of the past two months, under a contract made last year, requiring joints to be filled with. Portland cement grout. The same rumbling experienced on pavements laid in cold weather is heard, but not upon such large areas as upon those streets. paved in the cold weather of last fall. On three of the blocks, each being about 800 ft. long, Mr. Adam had a joint about 1. inch wide along the entire length of the curb filled with paving mastic containing 20 per cent. asphalt in 100 parts residum of coal tar. Also on each end of the block and in the middle spaces 15 feet in length running across the full width of the avenue had the joints filled with the same material. It is too early to judge the success of this experiment. Mr. Adam still believes that cement grout will have to be abandoned in order to fully, obviate any noise.

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#### September 17, 1896

### CANADIAN CONTRACT RECORD.

#### MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS

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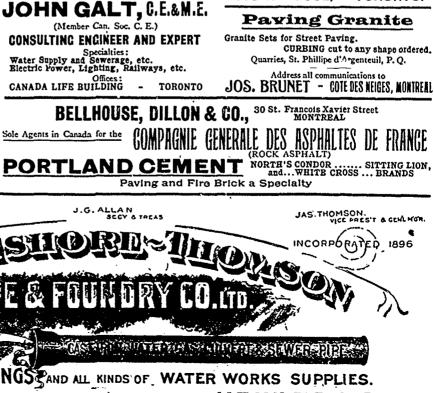
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## Prices of Building Materials.

CONDITION OF THE MARKET.

TORONTO: Although the demand for builders' supplies is not active, a fair trade is doing in most lines. Plumbers' supplies are quiet on city account, but country trade exhibits more life. Cut nails are moving with more freedom, at the base price of \$2.75 per kcg. An improvement is noted in building paper. In galvanized iron and iron pipe there is a steady trade. A slight advance in window glass has taken place in Belgium, and enquiries for plate glass are increasing.

MONTREAL: Few new features are reported in the line of builders' supplies, the demand being confined to small quantities for actual requirements. There is little doing in cut nails and the heavy metal market. Window glass is stronger, and some fair-sized sales have been made. Small lots of cement are meeting with good demand, and a moderately active business is reported at steady prices.

## LUMBER.

## CAR OR CARGO LOTS.

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Beaded sheeting, dressed Clapboarding, dressed XXX sawn shingles, per h z8 in Sawn lath	. 2 50	5 00 5 00 2 00 2 70 2 70	12 00 22 00	35 00 12 00 3 00 3 60
Beaded sheeting, dressed Beaded sheeting, dressed Clapboarding, dressed XXX sawn shingles, per h 28 in Sawnlath Cedar Ded cak	. 2 50 . 2 50	5 00 5 00 2 00 2 70 2 70 2 70 2 70 2 90	12 00 22 00 8 00 2 50	35 00 12 00 3 00 2 60 2 90
Beaded sheeting, dressed Beaded sheeting, dressed Clapboarding, dressed XXX sawn shingles, per h 28 in Sawnlath Cedar Ded cak	. 2 50 . 2 50	5 00 5 00 2 00 2 70 2 70 2 70 2 70 2 70 2 70 2	12 00 22 00 8 00 2 50 30 00	35 00 12 00 2 60 2 90 40 00
Beaded sheeting, dressed Beaded sheeting, dressed Clapboarding, dressed XXX sawn shingles, per h 28 in Sawnlath Cedar Ded cak	. 2 50 . 2 50	5 00 5 00 2 00 2 70 2 70 2 70 2 70 2 70 2 70 2	12 00 22 00 8 00 2 50 30 00 35 00 18 00	35 00 12 00 7 00 2 00 40 00 55 00 2 00
Beaded sheeting, dressed Beaded sheeting, dressed Clapboarding, dressed XXX sawn shingles, per h 28 in Sawnlath Cedar Ded cak	. 2 50 . 2 50	5 00 5 00 2 70 2 70 2 70 2 90 5 00 5 00 5 00	12 00 22 00 8 00 2 50 30 00 35 00 18 00 70 00	35 00 12 00 7 00 7 00 7 00 7 00 7 00 7 00 7 00
Beaded sheeting, dressed Beaded sheeting, dressed Clapboarding, dressed XXX sawn shingles, per N 28 un. Sawn lath Cedar. Red oak White Basswood, No. 7 and 2 Cherry, No. 7 and 2 White ash, No. 7 and 2	. 2 50 . 30 00 4 . 37 00 4 . 28 00 3 . 70 00 9 . 24 00 3	5 00 5 00 2 70 2 70 2 90 5 00 5 00 5 00	12 00 22 00 8 00 2 50 30 00 35 00 18 00 70 00	35 00 12 00 2 00 2 00 40 00 55 00 80 00 35 00
Beaded sheeting, dressed Beaded sheeting, dressed Clapboarding, dressed XXX sawn shingles, per N 28 un. Sawn lath Cedar. Red oak White Basswood, No. 7 and 2 Cherry, No. 7 and 2 White ash, No. 7 and 2	. 2 50 . 30 00 4 . 37 00 4 . 28 00 3 . 70 00 9 . 24 00 3	5 00 5 00 2 70 2 00 0 00	12 00 22 00 8 00 2 50 30 00 35 00 18 00	35 00 7 00 9 00 9 00 9 00 9 00 9 00 9 00 9
Beaded sheeting, dressed Beaded sheeting, dressed Clapboarding, dressed XXX sawn shingles, per h 28 in Sawnlath Cedar Ded cak	. 2 50 .30 00 4 .37 00 4 .28 00 3 .70 00 9 .24 00 3 .20 00 3 .16 00 2	5 00 5 00 2 70 2 70 2 70 2 70 2 70 2 70 2 70 2 70 2 70 2 00 5 00 5 00 2 70 2 00 5 00 2 00 2 70 2 00 5 00 5 00 2 70 2 00 5 00	12 00 22 00 8 00 2 50 30 00 35 00 18 00 18 00	35 00 12 00 7 00 7 00 7 00 7 00 7 00 7 00 7 00

		Toro	nto.	Nont	real.
5	BRICK				
ЧĘ.	Common Walling		6 50 8 00		6 00 8 50
-	Sewer	8 50	8 00	8 50	0.00
5	Sewer Pressed Brick, Per I Red, No. 1, f.o.b. Beamsville	:	15 00		
1 :			13 00		
-	Baff. Brown Roman Red.		21 00 24 00		
	••• Dun		30 00 35 00		
•	Brown		40 00		
7			7 50 6 00 22 00		
5	Roof Tiles	I	20 60		
:	Ridge Tile	dit	12 00 10 00		18 00 15 00
l	ard " " " " "		8 og 6 50		12 00
I	Ornamenta', per 100	300	10,00		
l	SAN. Per Load of 13 Cubic Yards	<b>D.</b>	1 25		1 25
	STON	E.	•		
•	Common Rubble, per toise, delivered Large flat Rubble, per toise,		10 00		<b>31 00</b>
l	delivered		14 00		18 00
	Foundation Blocks, per c. ft. Kent Freestone Quarries Moncton, N. B., per cu		30		50
,	Moncton, N. B., per cu		τ 00		
	ft., f.o.b. River John, N. S., brown				
	Freestone, per cu. ft., f.o.b. Ballochmyle	80	95 90	65	75 2 05
	Ballochmyle New York Blue Stone Granite (Stanstead) Ashlar, 6				
	Moat Freestone	-		60	25 70 80
	Credit Valley Rubble, per car	. <b>R.</b>		75	80
2	Credit Valley Brown Cours-		7 00		
2	ing, up to io inch, per sup. yard, at quarry. Credit Valley Brown Dimen-	1 50	I 75	I 50	1 75
	Credit Valley Brown Dimen-	- 9-	- 73 60	- 50	60
	Credit Valley Grey Coursing,				1 00
	Credit Valley Grey Dimen-		100		
1 )	sion, per cu. ft. at quarry. Credit Valley Grey Coursing, per super, yard, at quarry. Credit Valley Grey Dimen- sion, per cu. ft., at quarry. Clark's N. B. Brown Stone, per cubic foot fo b		45		45
5	Brown Free Stope, Wood-		1 15		1 00
2	point, Sackville, N.B., per		1 15		1 00
	MadocRubble, delivered, per toise.	14 00	14 50	14 00	X4 50
2	toise. Madoc dimension floating, f. o. b. Toronto, per cubic ft. Cape Bauld, N. B., Brown	70	32		
•	Cape Bauld, N. B., Brown Freestone	•	90		70
) )	Freestone Cocaigne, N. B., Gray Free- stone (olive-green)		90		70
, ,	OHIO FREESTONE, FROM TH	BGRA		TONE C	
	QUARR No. 1 Buff Promiscuous	IES.	90		.1 (0
	No. 1 Blue Promiscuous		60		1 05 70
	No. 1 Buff Dimension No. 1 Blue Promiscuous No. 1 Blue Dimension Sawed Ashlar, No. 1 Buff,		65		75
•	any thickness, per cub. ft Sawed Ashlar, No. 1 Blue,		1 10		1 20
	any thickness, per cub. it		80		90
•	Sawed Flagging, per sq. ft., for each inch in thickness. Above prices cover cost frei	ght an	06 <del>%</del> d duty	paid.	07¥ For
)	for each finch in thickness. Above prices cover cost frei small lots add 5 to 10 cents p Quebec and Vermont rough granite for building pur- poses, per c.ft. f.o.b. quarry For ornamental work, cu. ft. Granite paving blocks, 8 in. to zzin. x6 in. x4% in., per M Granite curbing stone, 6 in.x	er cubi	c foot.	•	
•	granite for building pur-		• ••		
•	For ornamental work, cu. ft.	33	20		
•	izin.x6in.x4%in., per M		50 00		
)	Granite curbing stone, 6 in.x 20 in., per lineal foot		70		
,	SLAZ Roching (¥ squars).	E.			
•	ii red		18 00		20 00 10 00
) )	11 unlading green		00 00 Q 00 S		6 00
) )	Terra Cotta Tile, per sq Ornamental Black Slate Roof-		25 00		5 50
> >	Ornamental Black Sinte Rool-		8 50		
) )	PAINTS. (1	la oil,			
)	White lead, Can., per 100 lbs. "zinc, Can., 11 11 Red lead, Eng	6 50	5 50 7 50	5 50 6 50	7 50
)	venerally per too manne	100	5∞ 175	4 50 X 60	_ 5 ∞
,	" vermillion	90 10	I 00 12	90 10	I 00 12
•	Yellow ochre	.5	10 20	3 15	5 20
•	" Paris	20	12 25	7 14	12
	Black lamp	14	25	12	25 18
)	Blue, ultramarine Oil, linseed, raw, & Imp. gal. '' '' boiled '' '' refined, ''	50	59 63	58 62	59 63
,	" " refined, "	53 78 2%	85	75	75
)	Whiting, dry, per 100 lbs	274 60	8o	60	- 75
)	Patty Whiting, dry, per 100 lbs Paris white, Eng., dry Litharge, Eng.	90 4	I 25 5		x 00 5 00
2	Umber, "	834	15 12	12 12	15 15
	OEMENT, L	40 IME	etc.		
, , ,	Portland Cements.—				2 65
, ,	German, per bbl London	2 50	3 25 2 75	2 55 X 92	2 05 05

al.	,	Toronto,	Montreal.
5 <b>00</b>	Portland Cements,	. 250	185 195
50 00	Newcastle Belgian, Josson, artificial. English, artifical, per bbl. Belgian, natural, per bbl.	340 250 260 290	1 55 1 75 2 55 2 65
	Canadian	· 2 30 2 40 · 2 30 2 50	170 185 180 185
	Parian "	450 475	200 225 550 575 800 900
	Superfine " Hydraulic Cements	650 700	•
	Thorold, per bbl Queenston, "	. I 50	125 150 150 160
	Napance, "	1 50	1 50 1 50
	Ontario, "	. 125	-
	Fire Bricks, Newcastle, per M	27 00 35 00	450 475 1500 8100 1900 8100
00 00	Lime, Per Barrel, Grey White	27 00 35 00 40 50	.,
00	Plaster, Calcined, N. B	200	<b>2</b> 59
	Hair, Plasterers', per bag	• 80 I CO	- 30
25	HARDF Cut nails, 30d & 60d, per keg		2 75
	Steel in an an an	# 85	# 75 # 85
00	CUT NAILS, FENCE		185. # Bo
00 50	30d, II II II II	# 85	2 85
	100 lbs 10d, ho: cut, per 100 lbs	2 90	2 90 2 95
	64 64 10 10 10		3 00
75	4d to 5d, " " "	3 35	3 35 3 75
05	ad, " " "	4 = 5	4 =5
25 70	or blued, per 100 lbs 3d to 5d cold cut, not polished	325	3 *5
70 80	or blued, per 100 lbs	3 0 5	3 65
	3d, per 100 lbs	4 25	4 #5
75	CASING AND BOX, FLOORING,	SHOOK AND	4 75 ГОЛАССО ВОХ
60	NAII 12d to 30d, per 100 lbs	.S.	3 #5
~	8d and od. " "	3 3 3 3	3 35 3 50
45	6d and 7d, " "	3 50 3 6 3 85	3 65 3 85
00	39'	4 25	4 #5
	FINISHING		3 60
00	2½ t0 2½ " " " "	375 390	3 75.
50		4 10 4 50	4 10
	I II II II II II	5 00	5.00
70	5d, per 100 lbs	360	3 60 · 3 60
70 5	40, ** ** ** ***************************	4 00	4 00
(0	COMMON BAR		* 3*,
05 70	t inch, per 100 lbs % " " " " " " ·························	4 25 4 50	4 25 · 4 50 ·
75	¥ " " " CLINCH 1	5 00	5 00
20	3 inch, per soolbs.		3 60 3 75
90	2 and 2% "" " "	3 90 4 10	390- 410
У. or		4 75 5 25	4 75
	SHARP AND FLAT	PRESSED NAI	LS
	3 inch, per 100 lbs. 21/2 and 21/4		4 10 4 25
	2 and 2% " " " "	4 40 4 60	4 40 4 60
		5 *5 5 75	S #5 5 75
	STEEL WIR	B NAILS.	
00	Steel Wire Nails, 70c. and list.		nom bunted.
00 00	Iron J Iron pipe, 1/ inch, per foot	Pipe: 60	. 6c.
50	Iron pipe, ¼ inch, per foot 	7 83	<b>•</b> ·
		12 17	11 17
		24 30	24 30
00 50	Toronto, 65 per cent. disco	A3	43
00 75	Montreal, 60 to 65 per ce	int. discount.	
00 12	Lead J Lead pipe, per lb	- 70	
5 20	Waste pipe, per lb. Discount, 30 % off in smal	l lots. 73	5
12 20	Galvania Adam's - Maria Bau and On		
25 18	Adam's-Mar's Best and Qu 16 to 24 guage, per lb	4% - 4%	<b>c.</b> ,
59 63	28 "	474 5	
33	Gordon Crown- 16 to 24 guage, per lb 26 guage.	4% 4%	•
75	16 to 24 guage, per lb 26 guage, 38 " NoteCheaper grades about	4%. 4% 4% 5	•
00 15	Note.—Cheaper grades abou Structure		
15	Steel Beams, per 100 lbs	. 276	# 50 # 60
	" channels, "	2 85 2 50	# 60 # 30 # 63
65	" plates, ""	2 55	
<u> </u>	Sheared steel bridge plate		2 35

(Corrected up to September 16th)