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# CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF  
PUBLIC WORKS • TENDERS • ADVANCE INFORMATION • AND MUNICIPAL PROGRESS

EVERY WEDNESDAY

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. 9.

JULY 6, 1898

No. 23.

**THE CANADIAN CONTRACT RECORD,**  
PUBLISHED EVERY WEDNESDAY  
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.  
Information collected from any part of the Dominion regarding contracts open to tender.  
Advertising Rates on application.  
New York Life Insurance Building, Montreal.  
Bell Telephone 2299.

## TENDERS

Sealed tenders will be received by the undersigned up to FRIDAY, 15TH JULY, 1898, for the construction of a

### Bridge Over the River Thames, in the Town of Ingersoll,

said Bridge to be One Hundred Foot Span, with Fourteen Foot Roadway, to be of Iron or Wood, or Combination of Iron and Wood, built on Stone or Pile Abutments. Tenderers to furnish their own plans and specifications.

The lowest or any tender not necessarily accepted.

W. R. SMITH,  
Town Clerk.

## TENDERS

Whole and separate tenders will be received by the undersigned up to 15TH OF JULY NEXT, for Alterations and Additions to the PUBLIC SCHOOL, Midland.

Plans and specifications can be seen at the office of the Secretary, Midland, or the office of the Architects, Thos. Kennedy & Co., Barrie.

Tenders to be accompanied by an accepted bank cheque of \$25.00.

The lowest or any tender not necessarily accepted.

T. I. TRUEMAN,  
Sec. P. S. Board, Midland.

## TENDERS

FOR

### GRANOLITHIC WALKS

Tenders will be received by registered post only, addressed to R. H. McKay, Chairman of Streets Committee, Walkerton, up to 4 o'clock p.m. on SATURDAY, JULY 9TH, 1898, for the construction of Granolithic Walks on the following streets: Durham Street North, about 300 feet long 10 feet wide; Durham Street South, about 924 feet long, 10 feet wide, also street crossings, Colborne Street, West Side, about 134 feet long, 5 feet wide; Gibson Street, East Side, about 600 feet long, 5 feet wide; Jackson Street, East Side about 900 ft long, 5 feet wide; Jackson Street, West Side, about 1155 feet long, 4 feet wide, and street crossings; Yonge Street, West Side, about 10,000 feet long and 5 feet wide.

Specifications may be seen and forms of tender obtained at the Town Clerk's office, Walkerton. A deposit in the form of a marked cheque, payable to the order of the Town Treasurer, for the sum of 2½ per cent of the value of the work tendered for, must accompany each and every tender, otherwise they will not be entertained. Tenderers must bear the bona fide signature of the contractor and his sureties, or they will be ruled out as informal.

The lowest, or part of, or any tender not necessarily accepted.

W. S. GOULD, Town Clerk.  
Walkerton, Ont., June 21st, 1898.

## TENDERS WANTED FOR Drainage Work

Sealed tenders, endorsed "Tenders for Drainage, and addressed to J. A. Cockburn, Crystler, Ont., will be received up to the hour of 12 o'clock, noon, on MONDAY, THE 15TH DAY OF JULY, 1898, for the Deepening, Widening, Straightening, Implying, etc., Blue Creek, in the 7th Concession, Township of Finch.

Estimated cost of excavation . . .	\$ 978 13
Bridges . . . . .	105.00
Grubbing, etc . . . . .	187.50
	\$1,270.63

Plans, specifications, forms of tender, etc., to be seen at the office of J. A. Cockburn, Esq., Clerk of the Township of Finch, and at the office of T. H. Wiggins, Engineer, Glengarry Block, Cornwall, Ont., on and after Monday, July 4th, 1898.

The lowest or any tender not necessarily accepted.

J. R. W. CRYSLER, Reeve.  
J. A. COCKBURN, Clerk.

T. H. WIGGINS, Engineer.

NOTE.—This work will probably be extended.

## TENDERS WANTED

Sealed tenders will be received by the undersigned, on behalf of the County of Huron, until 4 o'clock p.m. on SATURDAY, THE 9TH DAY OF JULY NEXT, instant, at the Wingham post-office, for taking down, removing 2½ miles, and erecting one span of an Iron Bridge, 47 feet long, also for erecting the superstructure of a steel span of 110 feet in length, from centre to centre of the seat. Roadway to be 16 feet wide. Height above water about 30 feet. Hard bottom. The bridge is to be erected at the Village of Manchester, about seven miles from Blyth Station, on the T. H. & Bruce R. R. All further information may be obtained by mail.

The lowest or any tender not necessarily accepted. Security required for the due completion of the contract.

The bridges must be completed on or before the 15th day of September next, 1898.

JOHN ANSLEY,  
County Commissioner.

Wingham, June 20th, 1898.

## Debentures For Sale

Sealed tenders will be received at the City Treasurer's Office, Fredericton, N.B., until

### Monday, the 11th Day of July Next,

at the hour of twelve o'clock, noon, for the following City of Fredericton Debentures, issued under authority of Legislature of New Brunswick, viz:—

1st. Tenders for \$4,000 00 "Fredericton Exhibition Debt Debentures," interest four per cent. per annum, issued on instalment plan, payable in twenty annual payments.

2nd. Tenders for "City Hall Improvement Debentures," \$6,500.00, interest four per cent. per annum, issued under instalment plan, payable in twenty annual payments; or

Tenders will be received for both or either of above issues, to be secured by two Bonds (one for each issue) of the City of Fredericton, providing for the payment in twenty equal annual payments, at four per cent. per annum.

3rd. Also tenders for City of Fredericton City Debt Debentures, \$4,000 00, at four per cent. per annum, in Debentures of \$500.00 each, payable in nine years from date of issue, with coupons for interest, payable half-yearly.

Debentures will be delivered to the party whose tender may be accepted within thirty days from day of receiving and opening tenders. The highest or any tender not necessarily accepted. All information required will be furnished on application to the undersigned.

Dated this 28th day of June, A.D., 1898.  
By order of the City Council,

CHAS. W. BECKWITH,  
City Clerk.

## TENDERS

Whole or separate tenders will be received by the undersigned up to 6 o'clock p.m., MONDAY, JULY 25TH, 1898, for the different trades required for the erection of a MUNICIPAL BUILDING in the City of Stratford.

Plans and specifications may be seen and all information and forms of tender obtained at the offices of Geo. W. King, Architect, and J. W. Siddall, Associated Architect, Room 42, James Bldg., Toronto, also at the City Clerk's office, Stratford.

Tenders must bear the bona fide signatures of the tendering contractor and his two sureties, and each tender is also to be accompanied with a marked cheque for 2½ per cent. on all tenders over \$2,000, and 1 per cent. on all tenders under \$2,000, which cheque is to be made payable to the order of the City Treasurer, and will be returned to the unsuccessful tenderers immediately on the signing of the contract by the accepted contractors. Cheques of accepted contractors will be returned upon signing of the bonds.

The lowest or any tender not necessarily accepted.

G. F. INGRAM,  
Chairman Market and Police Committee.  
Stratford, July 5th, 1898.

Tenders will also be received by the undersigned for the rebuilding of the old City Hall, plans of which can be seen at the office of Alex. Hepburn, Architect, Stratford.

Similar conditions for tendering as above mentioned are to be complied with for these tenders.

G. F. INGRAM,  
Chairman Market and Police Committee.  
Stratford, July 5th, 1898.

## CONTRACTS OPEN.

MAGOG, QUE.—The town will likely purchase a stone crusher.

CRYSTAL CITY, MAN.—Greenway Bros. intend erecting an elevator.

FREDERICTON, N. B.—Debentures are offered for sale by the city.

PLEASANT VALLEY, ONT.—S. Sigs-worth intends building a new residence.

ANTIGONISH, N.S.—The Anglican congregation are about to erect a church.

ARNPRIOR, ONT.—Extensive alterations will be made to the Bank of Ottawa here.

ST. CATHARINES, ONT.—A by-law to borrow \$4,000 has been passed by the council.

CAMPBELLTON, N. B.—Mr. Doherty will rebuild his saw mill, which was burned recently.

LINDSAY, ONT.—It is reported that John Sinclair purposes erecting several residences.

RAT PORTAGE, ONT.—Burley & Gal-ligher will rebuild their machine shop, recently burned.

BROOKLYN, N. S.—It is proposed to erect a new church here. Rev. T. W. Johnston is pastor.

HULL, QUE.—The Hull Electric Com-

pany has been requested to provide tenders for all street cars.

CLEMENSVALE, N. S.—Rupert Newcombe is about to establish here a hoop, stave and heading mill.

MAPLE CREEK, N. W. T.—Augustus H. Ball wants tenders by July 16th for the purchase of \$1,000 of debentures.

SARNIA, ONT.—The Grand Trunk Railway have in contemplation the building of a new round house here.

BROOKE, ONT.—Tenders close July 11th for the purchase of \$4,780 of debentures. Address W. G. Willoughby, clerk.

WOODSTOCK, N. B. The town council has offered a bonus of \$1,000 to assist the county in erecting a new court house and jail.

WILLAND, ONT. O. H. Garner will receive tenders up to July 12th for rebuilding the opera house as a three story structure.

FLETCHER, ONT.—J. L. Scott will erect a new elevator on the site of the structure destroyed by fire last year.

PARRY SOUND, ONT.—Thos. W. Haines wants tenders by July 9th for building stone foundation, 20x30 feet, for school house.

WHITBY, ONT.—T. G. Jackson, on behalf of the town, wants tenders by July 13th for lighting the streets of the corporation.

MILLAND, ONT. In this issue tenders are invited for alterations and additions to public school, from plans by Thos. Kennedy & Co., Barrie.

HUNTSVILLE, ONT.—John Whiteside is building a shingle mill.—The Roman Catholic congregation have decided to build a church.

TORONTO JUNCTION, ONT.—It is proposed to lay a vitrified brick pavement in front of the premises of the Chairman of the Committee on Works.

GRAVENHURST, ONT. The council of Muskoka township have obtained an estimate of the cost of a steel bridge 75 feet long and 14 feet wide.

CALUMET, QUE.—The bridge across the river Rouge, about two and one half miles from this place, on the C.P.R., was swept away by a flood last week.

HALIFAX, N. S.—The Intercolonial Railway authorities are considering the question of making some improvements in the method of lighting the cars.

BRAMPTON, ONT.—Tenders for the woodwork of choir gallery and other alterations to the Presbyterian church are wanted by July 14th. Address C. M. French.

WESTON, ONT.—It is announced that plans have been prepared for alterations and additions to a building to meet the requirements of a meat packing company.

GRANBY, QUE.—Neil & Kent have prepared plans for the new electric light station. The building will be one story, 48x59 feet, built of solid brick, with gravel roof.

BRANDON, MAN.—There is some talk of a block of stores being built on Rosser avenue, between the Syndicate block and the National building, now in course of construction.

KINGSTON, ONT.—Property owners have requested the Council to construct a drain from Queen street, on King, running north to the water's edge, and to let the work by tender.

GLADSTONE, MAN.—R. Galloway, secretary-treasurer School Board, has invited tenders for erection of brick four roomed school building. Barber & Barber, of Winnipeg, architects.

HAMILTON, ONT.—The County Property Committee have accepted the plans submitted by Stuart McPhie, architect, for the addition to the registry office, and the county clerk will advertise for tenders

for the construction of the building, to be received by August 15th.

WALKERTON, ONT.—The time for receiving tenders for the construction of granolithic walks has been extended to July 9th, as per advertisement in this issue.

INGERSOLL, ONT.—The Mayor has received word from Hon. J. I. Tait that the plans for the new post-office and customs house had been completed, and that tenders will be asked for in a few days.

MORDEN, MAN.—The time for receiving tenders for heating the Freemasons' hospital has been extended to July 27th. Plans at the Vulcan Iron Works, Winnipeg. C. R. Dunsford, honorary secretary.

HAWKESBURY, ONT.—A by-law will be submitted to the ratepayers granting a bonus of \$7,500 to the Canada Atlantic Railway to extend their line to the western limit of the town, where a pulp mill is to be erected.

STRATHFORD, ONT.—We are informed that the accepted plans for each scheme for the municipal buildings will be submitted to the ratepayers, who will decide which building shall be proceeded with. The general feeling is believed to be in favor of the new building.

WOLFVILLE, N. S. A short time ago the ratepayers voted a sum of \$15,000 if the county council would build the court house here. They have now voted the sum of \$5,000 to have the College of Agriculture established in this town.

PORT ARTHUR, ONT.—Thomas H. White, who has been appointed chief engineer of the Ontario & Rainy River Railway, will immediately commence the work of locating the construction line between Port Arthur and Rainy Lake.

QUEBEC, QUE.—It is probable that the city will grant \$6,000 towards reconstructing Bickell's bridge, which leads to the Exhibition grounds.—The City Council last week voted to take \$200,000 stock in the Great Northern Railway. This, it is said, ensures the early completion of the line.

ALMA, ONT.—A dam is to be built at Aboyne, on the Grand river, between Fergus and Elora, tenders for building which will be received by John McGowan up to Monday, 11th inst. Geo. Gray, architect, of Harriston, will supervise the work.

PETERBORO, ONT.—A by-law was carried by the ratepayers last week providing for the issuing of debentures for \$10,000, \$7,000 of it to be used for the erection and repairing of town bridges, and \$3,000 for the purchase of a steam street roller.

SPRINGHILL, N. S. The town is experimenting with tile pipe for sewerage purposes. The Standard Drain Pipe Company, of St. Johns, Que., have an order for 4 car loads of 24 inch pipe, with surface and house connections, which is the beginning of a large trade in that line if the experiment should prove successful.

SUSSEX, N. B.—Among the new buildings projected are a new hotel by P. Legere, a new mill by Senator Poirier, residences by O. M. Melanson and Capt. Bray, and several tenement houses by R. C. Tait.—James P. Bryne is having built a brick block, from plans prepared by R. C. John Dunn, architect, St. John. Tenders will be let this week.

NIAGARA FALLS, ONT.—The railway companies are said to have completed arrangements for a large hotel, to be erected midway between the late Clifton House and Table Rock. Plans for the building, which is estimated to cost \$500,000, have been prepared by Mr. Bruce Price, architect, of New York, and it is supposed that work will shortly be commenced.

WINNIPEG, MAN.—The city will advertise for tenders for laying a granolithic

walk on west side of Main street, from Graham ave. to Broadway.—It is reported that the Canadian Pacific railway will build a branch at once from Killarney to Hartney.—It is said that tenders will soon be called for widening the outlet of Lake Manitoba, for which \$25,000 was provided at the recent session of the provincial legislature.

BRANTFORD, ONT.—The Board of Works will recommend the council to submit a by-law to the ratepayers to provide \$45,000 for flood protection. It is believed that the G. T. Railway will assist the project by adding another span to their bridge over the river.—Tenders are asked by Scarfe & Co. for the erection of a new office building. Plans at office of Geo. W. Hall, architect, 332 Colborne street.—Joseph Ham is preparing to erect two handsome brick residences at the corner of Park avenue and Murray streets.

MORDEN, MAN.—At a recent meeting of the directors of the hospital it was decided to advertise for tenders for the erection of a nurses' home and for heating the hospital with hot water. Tenders for the building will close on July 8th, and those for heating on August 1st.—J. A. Hobbs, druggist, has purchased property on the corner of Stephen and Seventh streets, and plans are in course of preparation for the erection of a substantial brick block thereon. The front will be used by Mr. Hobbs as a drug store, while the second storey will be fitted up for offices.

ST. THOMAS, ONT.—The by-law granting \$9,000 additional to the Board of Education to erect the two new schools was passed by the council at last meeting. Mayor Wright, Ald. McCully and the city treasurer were appointed a committee to negotiate for the sale of the debentures.—N. R. Darrach, architect, is preparing plans for a new Salvation Army barracks, to be erected at once on St. Catharine street.—The county council will take steps at once to rebuild the court house, which was damaged by fire last week to the extent of \$20,000.—The city engineer has been authorized to invite tenders for the erection of a storage building at the waterworks.

LONDON, ONT.—P. Mulkern, acting for the Sisters of St. Joseph, has purchased property at the corner of Waterloo and Piccadilly streets on which a convent will be built.—At a recent meeting of the Western Fair Board it was decided to build an art annex to the main building. This annex will be 50 by 60 feet in size. Extensions will also be made to the carriage building.—Building permits have been granted as follows: A. J. Denney, brick store and veneer stable, north side Dundas street, between Adelaide and Elizabeth streets, cost \$3,000; Mrs. Connor, 1½ story brick residence on Oxford street, between Maitland and William streets, cost \$1,000; W. Humpidge, brick factory corner Talbot and Carling streets; Thomas Sutherland, two semi-detached red pressed brick dwellings on Princess avenue; M. Masuret, addition to double dwelling on Wellington street, Moore & Henry, architects.

OTTAWA, ONT. Steps are being taken to organize a company to establish a stock market on the Richmond road, near the C.P.R. station. Geo. E. Kidd has been commissioned to negotiate for the land. Extensive byers will be erected for the accommodation of the stock.—E. F. E. Roy, secretary Department of Public Works, will receive tenders up to Friday, July 15th, for the erection of a green house at the Parliament buildings in this city. Plans at above department.—Petitions are being circulated for Trinidad pavements for Sussex street, from St. Patrick to Rideau; Theodore, from Chapel to Charlotte; Sparks, from Bank to Bay; Queen, from O'Connor to Bank. A petition will also be circulated for the

paving of a portion of Daly avenue.—The Gatineau Valley Railway Company, it is said, contemplates the extension of the main line from Gracefield to the Desert River at an early date. Pressure is being brought on the company to have the terminus extended thirty-five miles further north.—A new Anglican church will be erected in the eastern portion of the city, of stone, 48 x 110 feet, cost \$20,000. The site has been selected at the corner of Theodore and Chapel streets. Plans will be prepared by A. M. Calderon, architect.—The following building permits were issued last week: T. A. Rogers, brick veneered house, 134 Concession street, cost \$1,000; Chas. Ozilvic, brick veneered dwelling, Sussex street, cost \$1,500; H. N. Bate, two brick veneered dwellings, north side of Theodore street, cost \$3,000 each; Jos. Borque, on behalf of St. Patrick's church, addition to church, cost \$25,500; Slater & Sherwood, alterations to stone house, 172 Wellington street, cost \$1,200.

MONTREAL, QUE.—L. O. David, city clerk, is taking tenders this week for alterations to Bonsecours market. The whole of the western half of the upper flat will be repaired and transferred into a market hall, and the platforms around the market building and on Jacques Cartier square will be renewed. The work within the building will be done by contract, and that without by day labor.—A number of Montreal gentlemen have purchased a mountain at St. Bruno, Chambly district, about ten miles from Montreal, and purpose expending a large sum of money in the erection of summer residences and in carrying out other improvements. An electric railway from Montreal to St. Bruno is included in the scheme.—The Harbor Improvement Committee held a meeting on Thursday last to consider the report of the harbor and city engineers concerning the high and low level wharves. It was decided to adopt the high level system, the cost of which is estimated at \$1,589,813. A resolution was adopted that the wharves be paved with granite instead of macadam, and the chief engineer was asked to prepare at once a specification for the hemlock timber required for the building to water line of the first pier above the Victoria pier, which it has been decided is the proper one to begin with. The engineer reported that the additional plant required would be a large dredge, four dumping scows, three dredge buckets, three clam shell buckets, and the changing of the double land derricks of the guard pier into two single land derricks.—Hon. T. Berthiaume, of La Presse, has purchased property, corner St. James and St. Lambert hill, on which it is the intention to erect a newspaper office.—The Road Committee opened tenders last week from the following firms for paving Craig street: Warren Scharff Company, T. Desormeau, the Sicily Asphalt Company, Bellhouse, Dillon & Co., Laurentian Granite Company, Picotte Fils, F. D. Lawrence, J. N. Cherrier and O. Martineau. No award has as yet been made, but it is thought that the tender of I. D. Lawrence will be accepted.—Turgeon & Lafiniere, architects, have prepared plans for six tenements for Mr. T. Deslauriers, to be built on St. Denis street.

TORONTO, ONT.—The Quarterly Board of Euclid ave. Methodist church have under consideration the erection of a new church building. The outlook is favorable to the work being carried out.—The Toronto Carpet Manufacturing Company have definitely decided to erect a new building.—The Massey Harris Company state that it is their intention to erect a new foundry in the yards formerly used for lumber, the building for which will be 325 ft in length by 75 ft in width, with a wing at one end two storeys high, 150 feet by 64 feet. They have also

under consideration the erection of five or six large buildings in various parts of the lands now owned by them, all of which will take in the neighborhood of from two and one-half to three million bricks to complete.—Ald. R. H. Graham and W. H. Reid have purchased some twenty houses on Massey street, which are being removed further down the street and remodelled. The cost of the work will be about \$20,000.—It is stated that the plans for the proposed palatial hotel to be built on King street, referred to in last issue, are being prepared by Mr. Bruce Price, of New York.—The city clerk has reported that the petition against the engineer's recommendation for asphalt pavement on Spencer avenue is insufficiently signed.—Property owners on Brunswick ave., between Ulster and Bloor streets, have petitioned for a 24 foot brick pavement.—Local contractors in East Toronto are this week figuring on the building of a new Baptist church in that village. Next week Toronto contractors will figure on the work, at the office of the architect, Mr. J. F. Brown, Board of Trade building. Mr. Brown is taking tenders this week for the plumbing of the Firstbrook building, King street east, and is preparing plans for three brick stores at Thornhill, on which tenders will be taken at once.—Tenders closed yesterday, at the office of F. S. Baker, architect, 90 Yonge street, for pair of residences on Isabella street.—A. R. Denison, architect, is preparing plans for the brick warehouse, 150 x 50 ft., for Hees & Co., Davenport road. The contractors for the factory building were given in last issue.—The following pavements as local improvements on the initiative are recommended by the city engineer: Cedar blocks—Elliott street, from Broadview to Bolton; Clinton street, from College to Mansfield avenue; Queen street, from Niagara to Gladstone avenue; Margueretta street, from Dundas to Bloor; McKenzie crescent, from Dovercourt road to Lisgar street; Walmer road, from Lowther avenue to Castle avenue. Macadam—Adelaide street, from Church to Jarvis; Macpherson avenue, from Yonge street to a point 1330 feet west; Caer Howell street, from McCaul to Simcoe; St. Alban's street, from Surrey place to Yonge; Wellesley street, from Yonge to Jarvis; Wellesley crescent, from Jarvis to Sherbourne, Elm street, from Yonge to University. Brick—Prospect street, from Parliament street to Rose avenue; Russell street, from Spadina avenue to St. George street. Asphalt—Queen street, from Bathurst to

Niagara. Water mains are recommended for Hunter street and Packman avenue.—The value of building permits issued by the City Commissioner's department during June amounted to \$163,820, as compared with \$103,295 in June of last year. The total value of permits for the first six months of the present year was \$1,069,405, as compared with \$938,616 for the entire twelve months of 1897.—Mr. W. D. Beardmore has purchased the Bunting house in the Queen's Park, and will remodel the same.—Geo. Haskings has purchased several acres of land near the Don, in York township, and will manufacture a fertilizer. A suitable building will be erected.—The Technical School Board have been requested to remove from their present quarters before October 1st, and are now considering the question of erecting a new building for the purposes of a school. The city council will be asked to assist.—A building permit has been granted to David Williams, for a pair of dwellings, north-east corner Lowther & Brunswick avenues, cost \$4,000.

#### FIRES.

The fires of the past week included the following. The Coleman Lumber Co.'s planing mill at Burlington, Ont.; partially insured.—Residence of Robert Shetler at Newburg, Ont.—The Orient Hall and opera house block at Welland, Ont., owned by O. H. Garner; loss on building, \$8,000, partially insured.—A. L. Ashdown's hardware store at Portage la Prairie, Man.; loss \$3,000. Saw mill of Alfred McDonald at Point St. Charles, near Peterboro, Ont., loss \$3,000.—The wood shop and pattern room of Buck's Stove Works at Brantford, Ont., gutted by fire.—The Rat Portage Lumber Co.'s sash and door factory at Rat Portage, Ont.; loss \$5,000, insured. Saw mill of Sloan & Miller at Tracey's Mills, near Woodstock, N. B.—The post office and Mr. North's and G. S. Armstrong's dwellings at Lion's Head, Ont.—W. W. Doherty's saw mill at Campbellton, N. B.; no insurance.—The Clifton House at Niagara Falls, Ont., owned by the Bush estate; loss \$100,000, covered by insurance. The loss to George M. Colborne, the lessee, on furniture and furnishings will be nearly \$50,000.—George H. Harper & Co.'s grist and barley mills at Bullock's Corners, near Hamilton, were destroyed by fire on Friday last. The mill was valued at \$4,000 and machinery at \$6,000. The court house, county gaol and all the officials' offices at

(Continued on page 4).

## THE HAMILTON BRIDGE WORKS CO., LIMITED.

HAMILTON - CANADA

# Railway and Highway Bridges

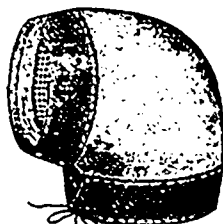
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MONTREAL WINNIPEG

St Thomas, Ont., were totally destroyed by fire on July 2nd. The loss is about \$50,000.—Jas. Long's house and buildings at Clare Station, N. B., were burned recently.—A building at Acton, Ont., occupied by Thomas Ebbage, planing mill, and Isaac Francis, tanner, was burned last week.

**CONTRACTS AWARDED.**

**APPLETON, ONT.**—Remodelling and reseating Simpson's school, Ramsay : A. Wilson, jr, this place, contractor.

**HAMILTON, ONT.**—The county councils of Lincoln and Wentworth have let the contract for bridge over Twenty-Mile creek to Hamilton Bridge Company, at \$540.

**MARQUÉ, QUE.**—Loomis & Sons, of Sherbrooke, have received the contract for the new building to be erected by the D. C. M. Co. Work will be commenced immediately.

**GUELPH, ONT.**—The Guelph Pavement Company have secured the contract for granolithic walks around the post-office at Port Hope, and for permanent walks on Stanley street, Ayr.

**KINGSTON, ONT.**—Addition to A. Maclean's residence, King street (H. P. Smith, architect): Masonry, J. C. Mitchell; carpenter work, John Landeriou; heating and tinsmithing, Nugent & Taylor; painting, Thomas Orrell.

**LISTOWEL, ONT.**—The following tenders were received by the town for the construction of a system of waterworks: Clark & Connolly, Toronto, \$13,647 (accepted); McQuillan & Co., Montreal, \$14,225; Hill & Gowanlock, \$14,899; J. H. McKnight, Toronto, \$15,173; S. H. Craig, \$16,800; J. M. Wallace (piping and trenching only), \$6,975. Mr. John Galt, of Toronto, is consulting engineer.

**WINNIPEG, MAN.**—The tender of T. F. Patterson, of Birtle, for the construction of a bridge over the Assiniboine river near Birtle, has been accepted by the provincial department of public works.—School bonds, \$75,000: A. T. Drummond, this city, purchaser.—City debentures: Central Canada Loan and Savings Co., purchasers.—Hodgins & Horner have been awarded the contract for the brickwork and masonry on the White & Manahan block.

**QUEBEC, QUE.**—Thos. Raymond, architect, has let the following contracts for an aisle to the A. Pion & Cie factory, Prince Edward street: Masonry, J. B. Gincherneau; carpentry, O. Giguere; plumbing, O. Papillon; roofing, E. Durand.—H. Stavely, architect, has let contracts as

follows for a manse for the Chalmer's church, on Ste. Ursule street (approximate cost, \$7,000): Masonry, W. Sharpe; carpentry, S. Peters; painting, J. Copeman; plumbing and heating, Oct. Matte; roofing, J. R. Kane. Mr. Stavely has also accepted the following tenders for alterations to the Quebec Bank building: Masonry, Walter Sharpe; carpentry, M. Cummings; plumbing, Alex. Forrest; painting, B. Leonard.

**ST. THOMAS, ONT.**—The Board of Education last week accepted tenders as below for erection of new schools. Balacava street school (J. Z. Long & Son, architects)—masonry, Ponsford Bros., \$8,670; cut stone, Doggett & Co., \$1,302; carpentry, R. Cole, \$5,959; plastering, James Stewart, \$635; slating, John Riddle, \$886; painting and glazing, W. T. Mossop, \$774; Ormsby & Co., Toronto, ceiling, \$743; Ormsby & Co., sheet metal work, \$134. Central school (Neil Darrach, architect)—brick, stone and all mason work, Geo. A.

Ponsford, \$8,456; cut stone, Doggett & Co., \$1,957; carpentry, Geo. Garrow, \$5,444; plastering, Geo. Gould, \$500; slate and black boards, John Riddle, \$792; painting and glazing, W. T. Mossop, \$955; plumbing, J. Flaherty, \$797; metal ceiling, Stacey Hardware Mfg. Co., \$720; galvanized iron, Ormsby & Co., \$146. The above figures do not include heating or seating, for which con't acts will be let later. For heating the tenders submitted were as follows: Balacava street school—Brock Bros., \$710; James Thompson, \$785; Chase Co., \$900; Burrows, Stewart & Milne, \$935; Pease Co., \$1,150; Smart Co., \$1,200; Smead, Dowd & Co., \$1,825. Central school—Buck Bros., 627; John Thompson, \$540; Clark Co., \$678; Smart Co., \$772; Burrows, Stewart & Milne, \$888; Smead, Dowd & Co., \$1,825; Buffalo Forge Co., \$2,700; American Blower Co., \$3,550.

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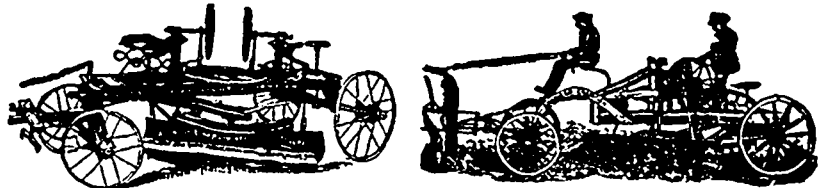
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street, from plans by E. J. Lennox, architect, have been accepted as follows: Brick and stonework, Orr Bros., \$4,781; carpenter work, G. Burry, \$5,435; painting and glazing, M. O'Connor, \$588; galvanized iron work, W. D. Hutson & Son, \$211; plastering, J. M. Gander, \$765; steam heating and plumbing, Bennett & Wright Co., \$2,290; slate and felt roofing, H. Williams & Co., \$182.—E. J. Lennox, architect, has let the contract for brickwork of the Bijou theatre building on Yonge street to Walter Page, and that for the carpenter work to T. Gearing; other trades not yet let.—The Separate School Board has accepted the following tenders for a brick school on Caer-Howell street: Brick and cut stone, John McGlue, \$1,435; carpenter work, John Hanrahan, \$1,295; plastering, James Larkin, \$181; painting, &c., Jas. J. O'Hearn, \$129; slating and blackboards, Jas. P. O'Hearn, \$225; steel bars, &c., St. Lawrence Foundry Co., \$281. Total, \$3,546. For general repairs to schools the following tenders were accepted: Carpenter work, John Hanrahan, \$580; plumbing, Hallam Furnace Co., \$62; galvanized iron work, \$26; painting and kalsomining, Jas. O'Hearn, \$225; planking, Thos. Cooney, \$5.75 per sq. yd.; reslating black boards, F. J. Bradley, 12c. per sq. yd.; plaster boards, F. J. Bradley, \$1 per sq. yard.

C. A. Charlebois, contractor, Montreal, is reported to have filed contestation of demand of assignment.

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## MUNICIPAL DEPARTMENT

### DISPOSAL OF REFUSE AT HAMBURG, GERMANY.

Mr. W. M. Watson, of Toronto, sends us the following condensed report of the system employed at Hamburg, Germany, for the utilization of the garbage of the city. The particulars are obtained from a report recently issued by Mr. Herr F. Andreas Meyer, City Engineer.

The city of Hamburg, Germany, with its population of 300,000 inhabitants, has an incinerator, comprising 36 furnaces, to destroy the offal, garbage, street and marine refuse, and everything useless and infectious that may set up putrefaction. The destructor has been in operation since 1895. Herr Meyer informs us that the garbage and refuse of Hamburg is composed of market, dock and domestic garbage, sweepings from paved streets and slaughter houses, spoiled fish, etc., but that, on account of the small amount of cinders and coal ashes collected in Hamburg, in comparison to what is collected in British towns, and of the custom in Hamburg of covering the floors of the poorer dwellings, kitchens, yards and other flagged walks with sand, which when dirty is swept up and deposited in the garbage bin and comes to the incinerators, the combined refuse is hard to cremate, because the sand proves a detriment, and there is not the cinder fuel usual in the British refuse to create the heat to destroy wet rubbish.

The 36 furnaces, having 27½ square feet of grate surface, are erected in two rows of 18 each, placed back to back, with the large collecting and combustion chamber between them. The furnaces were built by the Horsfall Syndicate of Leeds, England, who guaranteed that each furnace should consume 11,000 pounds of wet refuse or garbage each day, and the fumes, if any, discharged from the chimney should be odorless and totally free from unhealthy vapors, dust, etc. Six furnaces were first erected, and tested in 1894. They were found to be fully up to the guarantee, and the order was then given for the balance of 30 more, making the full complement of 36, which were finished in

1895 and have been working steadily ever since.

The garbage is collected by wagons that hold five cubic yards, and on arrival at the works are run on to an electric elevator and hoisted up to the tipping platform, then shovelled by hand on to the drying hearth, which is built with a steep incline at the rear of each furnace grate, where all the moisture is dried out, and driven by the blower through a trumpet pipe and along the patented iron box fixed on each side of the fire, delivered at a proper pressure into the ash-pipe, and then upwards through the body of the fire, which generates it into heating gas and completely destroys the fumes. The smoke and fire gases from the fire are brought to the front over the cleaning door, and pass through the crown arch to a combustion chamber of the same size as the fire-place; from this chamber it passes on to the general collecting chamber, and then to the steam boilers, and gives heat sufficient to create steam to propel all the machinery about the place, including the dynamos for 76 lights, clinker crushers, hoists, etc., and it is said there is still an excess of heat from the burnt garbage sufficient to generate 100 horse power of steam. The forced draught is created by centrifugal blowers, and steam can be used when necessary, according to the amount of moisture that is to be extracted from the material treated. The chimney draught is ½" and the forced draught 1¼" water column.

The furnaces employ 18 men for each shift 8 hours, or 54 men in all. One man charges the drying hearth of six furnaces once every 90 minutes, and one man keeps each set of three furnaces clean. Arrangements are provided so that any six of the 36 furnaces can be stopped and cooled off for repairs. No Sunday work is allowed. All the fires

are banked up at midnight on Saturday and started at midnight on Sunday, and to get the brickwork of the combustion chambers to a fierce white heat again, or to the temperature that they were when all was closed down on Saturday midnight, about 1,300 lbs. of small coal is used.

The works cover 3½ acres of ground in the centre of the town, together with the disinfecting building, close to the wharf and easy of access from all the main roads and waterways. They are perfectly free from any nuisance, dust or hot gases. The residum is screened and sold by the load, and, besides, 220,000 pounds of scrap metal was collected from the rubbish in a year, which sold for about \$200. The dust from the flues is found to be valuable in the manufacturing of artificial stone ornaments.

Lately the sweepings of paved streets have all been sold for manure, for which there is a good demand and price, and owing to the wet atmosphere of Hamburg, the sweepings are often very sloppy, and when burned had to be mixed with dry material to make it suitable to handle and rest on the drying hearths. The income from the sales goes a long way towards paying the expenses of management.

This kind of incinerator, or destructor as it is called in England is very applicable to this country, as it would turn any wet refuse to profitable account, by raising steam that might be used for manufacturing, for electric lighting, pumping or heating. A set of three furnaces will give heat sufficient, without the assistance of coal or other fuel, for one boiler, and when erected all complete, with boiler and first-class brickwork, iron work, and handy appliances for easy working the furnaces, the cost will be about \$14,000, not including the cost of chimney or the roads leading to the furnaces

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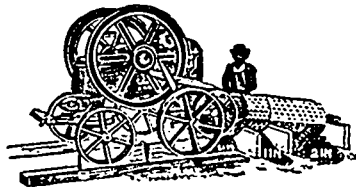
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