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This paper roaches 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. 10.

OCTOBER 18, 1899

No. 38

THE CANADIAN CONTRACT RECORD. PUBLISHED EVERY WEDNESDAY

is in Intermediate Edition of the "Caradian Architect and Builder."

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

C. H. MORTIMER PUBLISHING COMPANY of Toronto, Limited, Publishers,

CONFEDERATION LIFE BUILDING, TOKONTO. Telephone 2362.

Branch Office:

New York Life Insurance Building, Montreal. Bell Telephone 2200.

Advertising Rates on application.

Information solicited from any part of to Dominion regardiny contracts open to

TENDERS

Sealed tenders will be received by the undersigned intil 6 p.m. of OCTOBER 3187, 1899, for

fleating by Steam St. James' (Episcopal) Church, Orillia, Ont.

Parties tendering must prepare their own plans and specifications of Heating System, giving tenders on heading firstly by coils, secondly by piping under each new, and thirdly by combinations of both systems or otherwise. The building plan of St James Church may be seen at the Synod Office, 15 Wellington Street West, Toronto, on and after the 16th inst. Tenderers must be prepared to give satisfactory bond for the immediate completion and guarantee of the work.

The lowest or any tender not necessarily accented.

The lowest or any tender not necessarily accepted.

F. G. EVANS,
Churchwarden.

Orillia, October 12th, 1859.



Notice to Contractors TENDER FOR DRAINAGE DITCH

Tenders will be received, by registered post only: addressed to the Chairman of the Board of Control, City Hall, Toronto, up to noon on MONDAY, THE 23RD INSTANT, for the following work:

DRAINAGE DITCH,

extending from City limits (200 feet north of Queen Street) to Ashbridge's Bay.

Street) to Ashbridge's Hay.

Contents of envelopes containing tenders must be plainly marked on the outside.

Conditions and specifications may be seen and forms of tender obtained at the office of the City Engineer on and after October 5th, 'S.p.

A deposit, in the form of a marked choque, payable to the order of the City Treasurer, for the sum of s.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 fiele signatures of the contractor and his sureties, or they will be ruled out as informal.

Lowest or any tender not necessarily accerted.

Lowest or any tender not necessarily accepted.

JOHN SHAW (Mayor), Chairman Board of Control.

City Hall, Toronto, Oct. 10th, 1853.

TENDERS

Tender will be received until 5 p.m. FRIDAY, THE 20TH INST., for the Mawn and Brickwork, and until WEDNESDAY, THE 25TH INST., for all other trades required in the erection of a

Pair of Semi-Detached Residences

on Howland Avenue. The Jowest or any tender not necessarily accepted.

F. H. HERBERT, Architect, 9 Toronto Street, Toronto.

Notice to Contractors

SMITH'S FALLS, ONT.

SEWERAGE AND WATERWORKS

Scaled tenders will be received by the Town Clerk until 6 p.m on THURSDAY, OCTOBER 26711, 1850, for the construction of about 4,000 Lineal Feet of SEWER, in rock trenches, also for laying 3,500 Lineal Feet of WATER MAINS.

Plans and specifications may be seen at the Town Clerk wolfine, Smith's Falls, or at the office of the Chief Engineer, Toronto, on and after October 18th.

No tender necessarily accepted.

B. E. SPARHAM, Log., Town Clerk, Smith's Falls, Ont.

WILLIS CHIPMAN, C.E., Chief Engineer, 103 Pay Street, Toronto, Ont.

October 11th, 1802.

MARKET CONDITIONS.

In the prices of building materials, there have been several advances within the past week. Cut nails have undergone another advance of ten cents per keg, making the gain 35 cents within a formight. In galvanized roofing nails there has been an advance of five per cent, while wire nails are five cents per keg dearer. The galvanized iron market continues to strengthen. Importers have been advised of an advance of ten cents per too lbs. on galvanized iron of American make, while British manufacturers refuse to accept orders for delivery after the first of the year, on account of an expected advance in prices. Lead pipe has been advanced by two and one-half per per cent, and iron pipe is selling at higher prices, although no general change in quotations is reported.

At Toronto and Montreal the cement market is active for this season of the year. So with glass, paints and oils. Stocks of window glass are getting low, and importers complain of difficulty in getting their orders filled. White lead has undergone an advance of 371/2 cents per 100 lbs.

CONTRACTS OPEN.

UNBRIDGE, ONT .- Beal Bros. purpose extending their tannery.

PARIS, ONT .- A new central school will be built here next year.

CHESLEY, ONT.—An addition will be built to the chair factory.

MAPLE CREEK, N.W.T .- The waterworks system is to be improved.

NELSON, B. C .- Another brick block will be built by Malone & Tregillus.

TILBURY, ONT.—A three-storey addition will be built to the hotel of J. D. Marchand.

ORILLIA, ONT-Tenders are invited in this issue for a steam heating plant for St. James' church.

GREENFIELD, N.S.—The dam built by T G. McMullen, M.P.P., was swept away by a recent flood.

BRINSTON'S CORNERS, Ont.—Matilda council will raise \$500 by debentures to erect a new school.

PETROLIA, ONT.—The Carman Natural Gas Co. want a franchise for laying gas pipes in the streets.

ST. JOACHIM, ONT.—Rochester town-ship council are negotiating for the sale of \$5,022 of debentures.

ROSSLAND, B. C.—Judge Spinks has purchased property on which he intends erecting a large warehouse.

BUCKINGHAM, QUE.—The government has offered the town \$5,000 towards the crection of a post-office here.

AMHERSTBURG, ONT .- Tenders are about to be taken by the council for con-struction of sewer on Park street.

ST. STEPHEN, N.B.—Tenders are asked for erection of bridge at Oak Bay. Plans at store of H. E. Hill & Co.

LEAMINGTON, ONT.—Mr. Edgar Mc-Clutchie has purchased property on which to build a brick house next spring.

WAKEFIELD, QUE. - The Exchange Hotel, recently acquired by Thos. Mixchell, will be thoroughly remodelled.

BEDEQUE, P.E.I.-C. W. Leach, of

Marlboro, Mass., intends to immediately commence the erection of a large hotel.

St. Boniface, Man .- The old cathedral here is to be pulled down and a modern building constructed on the site.

BELLEVILLE, ONT .- At next council meeting a motion will be introduced to invite tenders for electric fire alarm system.

CHARLOTTETOWN, P.E.I .- The Central Christian congregation are about to build a new church, 65 x 35 feet, with 75-foot

BELOEIL, QUE.—A company has been formed here to build a large hotel. They have purchased Fabien Brodeau's property.

ARNPRIOR, ONT.-R. Anderson, Ottawa, has completed arrangements with Geo. Malloch to locate the proposed electric plant in his saw mill.—The Ottawa, Arnprior & Parry Sound Railway Company will probably build a new station here.

STRATHROY, ONT. — The Strathroy Electric Co. have refused to supply electric lighting at the price offered by the council.

BERLIN, ONT.—C. K. Hagedorn has purchased property on King street and intends erecting a large suspender factory next spring.

WELLAND, ONT.—The canal staff are at the air line junction preparing plans for the new bridge to be built across the canal at that point.

Dighy, N.S.—The town clerk has been instructed to obtain from Mr. Fairn, architect, the cost for plans and estimates of a fire-hall.

WOLFVILLE, N.S.—The parishioners of St. John's Church of England will build a rectory, for which tenders will be asked at once.

PARRY SOUND, ONT.—The Parry Sound Lumber Company purpose rebuilding their saw mill and putting in steam feed apparatus.

WILLIAMSTOWN, ONT. — The High School Board has not yet reached a decision regarding the heating system and seating of school.

ST. LAMBERT, QUE.—The old school building and site on Victoria street has been purchased by the council for a town hall and fire station.

Brantford, Ont.—An architect was in town last week securing information previous to preparing plans for proposed pork packing factory.

ST. JOHN, N. B.—Geo. R. Vincent, county secretary, invites bids up to 23rd inst., for the purchase of \$13,000 of 31/2 per cent. debentures.

WOODSTOCK, N.B.—On Monday last the ratepayers voted on a by-law to grant a bonus of \$50.000 to establish a pulp mill; result not learned.

CHATHAM, ONT.—Powell & Carswell, architects, are taking tenders this week on the erection of a stone and brick brewery and frame ice-house.

LONDON, ONT.—John Hayman has secured a building permit for a double brick dwelling, corner Queens avenue and English street, to cost \$5,500.

SHERBROOKE, QUE—The new market building will be proceeded with at once.—Voting on the by-law to raise \$100,000 for improvements takes place this week.

HARRISTON, ONT.—On November 7th the ratepayers will vote on a by-law to guarantee the bonds of the Harriston Pork Packing Co. to the extent of \$20,000.

WRONETER, ONT.—The council has reached an agreement with Ingram & Donaldson, and the electric light plant will be installed by the latter forthwith.

HULL, QUE.—The by-law to bonus the Ottawa & Gatineau and Pontiac & Pacific railways to the extent of \$30,000 will be voted on by the ratepayers on October 23rd.

MIDWAY, B.C.—Tenders have been invited for erection of hall, 30×70 feet, and a two storey cottage on Hartland avenue.—Geo. Smith intends erecting a dwelling.

NEWCASTLE, N. B.—The council intends purchasing 1,000 feet of fire hose.—Mr. Duncan, engineer, is preparing plans for the proposed electric light system.

GANANOQUE, ONT.—Willis Chipman, C.E., of Toronto, has been engaged to prepare plans for and superintend the construction of waterworks and sewerage systems for this town.

ALMONTE, ONT. - W. P. McEwen, secretary North Lanark Agricultural Association, desires tenders by October 21st for building a cedar breakwater along the bank of the Mississippi.

WOODSTOCK, ONT.—Messrs. Ickes & Armstrong have accepted the franchise for electric street railway as offered by the town, and the work of building will be commenced at an early date.

TAVISTOCK, ONT.— The South Easthope township council decided at a recent meeting to build an iron bridge with concrete abutments on the side line between lots 40 and 41, concession 6. V. Stock, clerk.

RAT PORTAGE, ONT.—The building of a bridge across the bay at Norman is being agitated, and the government may be asked to contribute towards the cost.—The council will build a wing to the town hall.

QUEBEC, QUE.—David Ouellet is preparing plans for an aqueduct to be built for the Hospice St. Joseph de la Delivrance at Levis; 5 and 6 inch cast iron pipe, length 5,500 feet; brass valves, hot air engine to raise water, etc.

BEAR RIVER, N.S.—Clark Bros. have acquired the McMaster property at Kingston, including timber lands, upon which they will erect a portable saw mill.—An agitation is on foot to construct an electric railway from this place to Digby.

ST. CATHARINES, ONT.—The Niagara Central Railway will this week commence the conversion of the road between this city and Niagara Falls into an electric line. The extension to Port Dalhousie will also be undertaken at an early date.

TRENTON, ONT.—Dominion government engineers have been instructed to prepare plans for the southern section of the Trent Valley canal from Trenton to Frankford. From this it would appear that tenders will be invited at an early date.

FREDERICTON, N.B.—The Provincial Department of Public Works invite tenders up to Monday, 23rd inst., for building high water wharf at Belyear's Cove, Greenwich, Kings county. Plans at above depertment and at office of Hon. Wm. Pugsley, St. John, N.B.

BRYSON, QUE.—It is reported that J. B. S. Trelawney, of the Anglo-Canadian syndicate, operating the Ostrom nickel mine, has secured control of a water-power here with the object of developing it for electrical purposes and for the operation of a large pulp mill.

GODERICH, ONT.—On November 15th a vote of the ratepayers will be taken on a by-law to grant a bonus of \$55,000 to Francis Lennoy, of Chatalineau, Belgium, to assist him in establishing a glass factory in this town, the money to be raised by the issue of debentures.

VANCOUVER, B. C.—The council has decided to engage H. D. Wyllie, of the Septic Tank Syndicate, to prepare preliminary plans for three tanks, after which tenders will be invited for the necessary works on more detailed plans prepared by the city engineer.

PEMBROKE, ONT.—The question of the construction of a bridge at Mary street is still under consideration by the council, theengineer having recommended a Howe truss bridge.—Some of the councillors are in favor of purchasing the electric light plant from the Pembroke Electric Light Company.

WINDSOR, ONT.—The tenders received for parochial residence for St. Alphonsus chutch were found to be in excess of the appropriation, and the plans will be modified and new tenders invited.—E. W. S. Bauer, chairman Water Commissioners, wants tends by to-day (Wednesday) for excavating and pipe-laying.

KINGSTON, ONT.—The council will construct a sewer on Gore street.—Up to date \$20,000 has been subscribed towards the building of a summer hotel by a joint

stock company.—A steamer to composite to be built here for the Markes.—It is rumored that three hotels are to be built in the Market.

PERTH, ONT.—Tenders will be ed this week for erection of skatin Particulars from J. M. Hall.—Moore, county clerk, desires ten November 1st for supply of 25 c limestone.—It is rumored that the R. intend erecting a large add their car shops here.

NIAGARA FALLS, ONT.—Plans course of preparation for an extent the Niagara Falls Metal Works. C. Pew is authority for the statems an American syndicate has least site of the old Clifton House, and twork of rebuilding the hotel will to menced next spring.

STRATFORD, ONT.—It is probabthe G.T.R. will enlarge their shops the near future.—The question a structing a bridge over the river A John street is engaging the attenthe council.—R. B. Barber invites to no behalf of the corporation up stith for the supply of a modern lance.

EDMONTON, N.W.T.—A brick by 30×75 feet, will be built by W. J. i next spring.—The council is const the construction of a waterworks and may engage an engineer to thereon.—Bids are invited by F. I son, town clerk, up to November the purchase of \$2,725 twenty-year cent. and \$686 ten-year 5 per ce bentures.

SYDNEY, C. B.—It is stated the Cape Breton Railway Extension (corporated at the last session of the Scotia Legislature, are perfecting for the construction of a railway Louisburg to Hawkesburg, on the of Canso, a distance of 80 miles company has a capital of \$1,000 of includes among its promoters Capifield, of Philadelphia, John Crus New York, and Joseph Shute, of A City, N. J.

WINNIPEG, MAN.—Plans are prepared for a large business block erected on Portage ave. early next:

—The Bell Telephone Co. have to construct a long distance line be Winnipeg, Portage la Prairie and pawa.—Mr. T. G. Shaughnessy, proof the C.P.R., is in the city, a brought with him the plans of the posed hotel to be erected at the of Main and Higgins street. These a six-story structure 208 × 320 feet, about \$1,000,000.—The Bell Tele Co. are inviting bids for the sup 4,000 cedar poles, 25 feet in length 7 inch tops.

PETERBORO', ONT. — Represent of the town and county councils a Dominion government held a conflast week regarding the site for the posed bridge across Chemong Li Bridgenorth, towards which the gement has voted \$10,000. It was do to instruct J. D. Belcher, county eng to make a report on the different S. R. Armstrong, town clerk, will renders up to November 10th for the chase of the fonce ing debentures: 512.14 thirty-year, \$4,410.92 twenty \$13,388.69 thirty-year, \$0,050.69 ty year, all three per cent, and \$1 twenty-year four per cent.

HAMILTON, ONT.—It is under that the Sawyer-Massey Co. is building a large two-storey brick add to their factory.—The foundations Hoepfner Refining Co.'s buildings the Edgerton Storage Battery work nearly finished, and the buildings wrushed up at once.—It is stated the Cataract Power Co. syndicate will

as wa, ONT.—Residents of the have petitioned for a system of te-Mr. J. R. Booth has offered cone-third of the cost of the properties of th

REAL, QUE.—At a meeting of the Board held last week to the proposed wharf to be built that, it was decided to build two tumber and the shore wharf of the Laing Biscuit Manufactor. The Laing Biscuit Manufactor is a construct on the equipped with the most of the later of the equipped with the most of machinery.—At a meeting of and Trunk Railway shareholders and Trunk Railway shareholders to the extension of the Internalway from: Chaudiere Junction that was approved of.—The municipal of the Lorimier is about to let the for laying of drains.—Negotiable point St. Charles for a general the Market Committee have once tharbor Board to construct an pavement on Commissioners

Havana Traction Co., composed of Canadian and American capitalists, is said to have secured control of the Havana electric railway system. Sir Wm. Van Horne has been elected president, and Mr. Frederick Nichols, of this city, treasurer of the company.—The contract for the plumbing of Manning's large office building, corner Queen and Terauley streets, is still open.—In the annual report of the city engineer, just issued, he again urges improvements to the waterworks system, stating that a new conduit between the Island shore crib and the pumping station is imperative, also the installation of another 10,000,000 gallon pumping engine and the construction of a 36-inch main from corner Bathurst and College streets to the reservoir.

FIRES.

The Good Shepherd Orphanage at New Westiminster, B.C., conducted by Our Lady of Charity Sisters; loss \$13,000. Rebuilding will be commenced at once.—Dwelling of A. Chalk at Magog, Que., totally destroyed.—Smith's mill at Gardner's Creek, St. John county, N.B.; loss \$1,000.—Owl's Head Hotel on Lake Memphremagog, about eight miles from Georgeville, Que., totally destroyed. The building was owned by C. D. Watkins, of New York City, and was valued at \$25,000; no insurance.—Residence at Colborne, Ont., owned by J. S. Yeomans.

CONTRACTS AWARDED.

SMITH'S FALLS, ONT.—Four houses for Lester Allyn; John McEwen, contractor.

GODERICH, ONT.—Residence for Dr. A. C. Hunter: Buchanans & Rhynas, contractors.

CHESLEY, ONT.—Construction of pipe sewer: E. A. Cawsey, Stratford, successful tenderer, \$1,566.

WALLACEBURG, ONT. — Presbyterian church: John M. Gibb, successful tenderer; price about \$5,000.

EDMONTON, N.W.T.—Sunday School building for All Saints' church: J. Ball, contractor; estimated cost, \$1,400.

NEW WESTMINSTER, B.C.—H. Bloomfield & Son are supplying stained glass windows for Holy Trinity Cathedral.

WOODSTOCK, ONT.—Post office building: J. A. Des Rivieres, of Ottawa, successful tenderer; price about \$31,000.

WILKESPORT, ONT.—Babcock drain: Daniel Fraser, successful tenderer, \$314.—Lapish drain, W. S. McLean, contractor, \$450.

OTTAWA, ONT.—The contract for 165 tons of telegraph wire has been awarded by the government to J. A. Seybold, of

this city.—Plumbing and heating of Dalhousie ward school: May & McWhunne, successful tenderers.

SYDNEY, C. B.—The contract for the erection of 100 houses at Ashpy has been given to Schurman, Lefurgey & Clark, Ltd., of Summerside.

NAPANEE, ONT.—Alterations to Dominion Bank: Geo. A. Cliff, contractor; plate glass windows, New Brunswick sandstone capps and sills.

MARYSVILLE, N.B.—Steel bridge across the Nashwaak: J. M. Roddock, of the Miramichi Foundry & Machine Works, successful tenderer; price about \$25,000.

SEBRINGVILLE, ONT.— For repairing Mauland drain tenders were received by Ellice council as follows: Peter Nicholson and John Reid, \$1,740; Armstrong & Smith, \$1,510; Pascal Pigeon, \$1,475 (accepted).

WESTON, ONT.—At council meeting on Saturday last the contract for electrical apparatus for lighting plant was awarded to the Canadian General Electric Company, Toronto, and that for engine and boiler to the Goldie & McCulloch Co., Galt.

PEMIROKE, ONT.—For \$12,00 sewerage debentures and \$5,000 High school debentures, tenders were received by the council as follows: G. W. Wood & Son. Toronto, \$17,513; Geo. A. Stimson & Co., Toronto, \$17,253; Geo. Macbeth, Toronto, \$17,362.50; Amelius Jarvis & Co., Toronto, \$17,133; A. T. Drummond, Kingston, for High school debentures only, \$5010. The tender of G. W. Wood & Son has been accepted.

LACHINE, QUE.—Following is the list of tenders received for construction of drainage system: Albert Dini, \$209,129.74; Rheaume & Dansereau, \$144,-816.90; Leopold Leger, \$163,230; Chartier & Rebin, \$174,095; Martineau, Son & Lemoine, \$185,000; Bastien, Valiquette & Parker, \$152.523.15; O. L. Hainault & Co., \$149,552; Amyot, Lemay & Gauthier, \$141,518.88. The contract, as already reported, was awarded to Bastien, Valiquette & Parker.

MONTREAL, QUE.—The contract for supplying all the drain pipe, connections, etc., and Portland cement required for the sewer work at Lachine, Que., has been awarded to W. McNally & Co., of this city. This work is quite extensive, consisting of over nine miles of sewers, and it is expected that it will take over two years to complete same.—The contract for planks, boards, timber, etc., for the harbor works of 1900 was last week awarded by the commissioners to the Shearer & Brown Co., at the tender of \$92,726.32.—The Richelieu & Ontario

Pumping Machinery
Electric Light Engines
Boilers
Buttle Specially for Eunicipalities

The Smart-Eby Machine Co.

Limited

199 Barton Street East, HAMILTON, ONT.

CORRESPONDENCE SOLICITED

CEMENT

We make only one Brand of Portland Cement and it is the Highest Grade. It is used by the Government in Public Works and by the Leading Contractors in the Provinces. Write us for prices of our SAMSON BRAND.

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Main Office:

ENTIRE BUILDING, 71 BROADWAY, NEW YORK

TEMPLE BUILDING, TORONTO, ONT.

HENRY F. DUCK, MANAGER FOR CANADA.

BRIDGE SUR-STRUCTURES, WATER POWER DAMS, CANAL WORK and CAISSON FOUNDATION a Specialty

Navigation Co. has let the contract for hotel building at Murray Bay to W. W. Scott, of this city, The hotel will contain over 200 rooms and is to be completed by June 15th.—W. McNally & Co. are supplying over 10,000 barrels of high grade German Portland cement to the Engineering Contract Co., of Toronto, for their work at Chandlers Eally One. their work at Chaudiere Falls, Que.

TORONTO, ONT.—The Board of Control last week awarded contracts as follows: Dominion Construction & Paving Company—Cedar block pavements—Bay street, Esplanade to Front street, \$1,475; Carlyle street, St. Patrick northward, \$561; Florence street, Dufferin to Brock avenue, \$1,675. Brick pavements— Markham street, from Queen to Arthur, \$11,613; Robinson street, Bathurst to Palmerston avenue, \$3,459. A. Gardner & Co. - Concrete pavements - Russell street, north side, between St. George and Huron, 67c.; and Queen street, south side, west of Simpson's, \$1.75. City Engineer, pavement on lane south of Front street, between Yonge and Scott, \$1,540; John McGuire, pipe sewer on Golden avenue, \$516.

BUSINESS NOTES.

Gauthier & Caron, contractors, Montreal, have dissolved partnership.

Dandeneau & Turcotte have registered partnership as plumbers in Montreal.

Peter Mittleholtz, brick and tile manufacturer, West McGillivray, Ont., has been succeeded by John W. Hardy.

Lesaivre & Taschereau have been appointed curators of the estate of A. Beaudet, brick manufacturer, St. Jean des Challions, Que.

John Burns & Co., plumbers and manufacturers of steel ranges, Montreal, have made a voluntary assignment, with liabilities stated to be \$7,749. Mrs. John Burns has been registered proprietress.

AN OUTLINE OF THE SYSTEM OF GARBAGE COLLECTION AND DIS-POSITION IN THE CITY OF TO-RONTO.

By JOHN JONES, Street Commissioner

The total area of the city, including the bay and island, is 13,976 acres, of which 10,500 acres are occupied. The mileage of the streets is 258 30, and of the lanes or alleys about 75 miles, nearly all unpaved. Our population is about 230,000; the buildings number 41,500, of which 36,416 are dwellings, and the balance (5,082) business places.

For the operation of the scavenging service we have divided the city into two districts, eastern and western, each being in charge of an inspector, who also has charge of the street cleaning and street watering branches in his district. Those districts are again laid out in sub-divisions, the number of which throughout the city is 29. Each of these sub-divisions is again divided into "beats" or routes, one cart or team wagon being allotted to each "beat," from eight to twelve carts on an average being required for each subdivision. In order to ensure the proper performance of the work, and at the same

* Abstract of a paper read before the Municipal Improvement Association, Toronto, October, 1899.

time be able to locate any drivet who may neglect his duty, or in other ways give cause for complaint, we have appointed one driver in each sub-division as head. or senior, over the others, who ., held responsible for the work being properly performed in his particular sub-division, and whose duty it is to investigate and report on all complaints that may affen his staff of drivers, to the inspector of the district, by whom the facts are transmitted to the office. Moreover, each cart bearsa number, whereby any dereliction of duty number, whereby any defenction of auty can be more readily traced to the right party. The central portion of the city, which is the most thickly populated, and contains most of the business houses, is covered by the carts twice weekly; the remaining section, comprising the residential portion and outskirts, have a weekly collection only.

Employed in this work we have 120 horses, with carts and wagons of varying capacities, all the property of the city, built and kept in repair at our own shops. We have three stables for our horses, one

in the western, one in the eastern and one in the northern section of the city.

Coming now to the statistics for last year, we removed altogether 115,679 loads, of which 35,085 were garbage, and the re-mainder, namely, 80,594 loads, ashes. It may be well to explain here that the term garbage covers all substances that are combustible. Of pure garbageis, kitchen refuse—comprising animal and vegetable matter, the proportion of the aforesaid quantity removed last year was only about one-twelfth, or 8.33 per cent, the remainder consisting of brushwood and debris from lawns and gardens, clippings and waste ends of cloth, leather, etc., from factories and warehouses, waste paper, and odds and ends generally that will burn, all of which was disposed of at the crematories. It may be a matter of (Continued on page 6.)

STUNE

SIDEWALKS A SPECIALTY

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

The Silica Barutic Stone Company Of Ontario, Limited.
WALTER MILLS.
General Manager.

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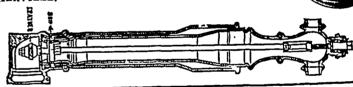
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urprise to some of the gentlemen present hat the percentage of pure garbage is so mall. One reason is, practically all the efuse from our large hotels and boarding ouses is sold to persons maintaining pigeries outside the limits of the municiality, who also have men employed to ollect the refuse then put out by houseolders for the scavengers to take away. mother reason is, many families make a ractice regularly of burning their garbage a the kitchen stoves. Dead horses are emoved by a private firm outside the city,

t their own expense.

I am aware that the disposal of garbage, thether by reduction or incineration, is ccupying a good deal of attention at presnt in large cities both in the United tates and in England, some of which ave adopted the former process, and I ecollect we had an interesting discussion n the subject when the convention met i Washington last year. I can not pre-ared to pass a definite opinion on the uestion as to whether it is profitable for unicipalities in general to adopt the re-ucing process for disposing of garbage, n preference to other methods, as local onditions vary in each case, and the proess is not yet beyond the stage of experiient, but I have no hesitation in saying nat it would not pay this city to dopt that system in preference to our resent system of incineration, inassuch that the amount of pure garbage re collect is so small.

As I have before mentioned, all comustible matter is sent to the crematories, nd dry substances form valuable fuel for isposing of the moist products. Ashes

re used for filling in purposes.

The collections are made from the arious sections of the city on the same ays of each week, printed cards containing information when the carts make their ounds, the regulations governing the ervice, etc., being served on every houseolder. One of the most important of iese regulations prohibits the storing of shes and garbage in the same receptacle. Inder a process of incineration such as e have, it is obvious that the comustible and non-combistible subances must not be mixed, nor do we ad it difficult to enforce this rule. I must onfess, however, that we have more ouble in getting citizens to observe nother very important regulation, namely, ne which prohibits ashes and other subances from being thrown broadcast on nes or alleys. We have, however, pecial men appointed to patrol the lanes or the purpose of compelling a proper oservance of the rules and regulations overning the service, and we rarely find necessary to do more than issue a arning to offenders. I may mention so that we have the co-operation of the olice towards this end.

The expenditure on the service last ear was \$62,482.96, representing a cost be thead of population of 27.17 cents, ad per load removed of 54.01 cents. he expense of the work is largely increased by the long haul to the dumps here ashes are deposited, none of which e centrally located.

It might be supposed that the propor-ons of ashes and garbage so called ould vary considerably in the winter and immer seasons, but we do not find a very eat difference. For the information of e convention I have selected the returns om a district which is largely residenal, for one week in the months of Janu-y and July of the current year:

Average number of casts collecting, 13; onth of January—213 loads of ashes
20 So loads of garbage removed; month July-102 loads of ashes and 117 loads

garbage removed.

There is, however, much difference in e quality of the materials collected. e quanty or the materials confected, a winter the ashes are pure and un-ixed, but in summer there is a great oportion of sweepings of yards and outhouses and such like, all of which is useful for filling low lying lands.

The substances classed under the head of garbage vary but little one month with another.

I purpose also to give the convention some information regarding the construction, method of operating and expenditure involved in running the crematories, where the garbage is consumed, which has been kindly furnished me by our esteemed City Commissioner, Mr. Coatsworth, under whose supervision they are conducted.

JOHN JONES, Street Commissioner: DLAR SIR, In compliance with your request, I beg to submit the following statement:

About 1884 the garbage dumps in our city became a nuisance, and for five or six years the subject of erecting a crematory was under consideration by the city cor-poration. Plans of several kinds of cre-matories were obtained from England and the United States, all of which were found to be more expensive in their construction than the need of our city warranted, and from information obtained it was discovered that many of them were offensive in their operation. Deputations from our city council visited several cities of the United States and Canada for the purpose of gathering information on the subject.

In the early part of 1891 the city commissioner was ordered, by resolution of council, to construct a crematory by day labor according to plans prepared by himself, a copy of which is herewith appended, having two furnaces each 22 feet long, to feet wide and 4 feet high to crown of arch, with iron smoke-stack 3 feet in diameter and 100 feet high, capable of cremating 100 cubic yards per day of re-fuse and garbage. It was erected in the eastern part of the city.

The operation of the eastern crematory having proved satisfactory, the commissioner was instructed, in the early part of 1893, to construct one of a similar kind in the western part of the city, which was completed and put into operation about the 1st of October of the same year, the size of the furnace being 28 ft. long by 10 ft. 4' wide, and 4 ft. 3" high to crown of arch, with a brick smoke-stack 120 ft. high, having a cremating capacity of 120

cubic yards of refuse and garbage per day.
The following figures will show the cost of operation, and material consumed in the years named at the 2 crematories. We give these years in order to show the average.
In 1894, refuse and garbage cremated

was 40,000 cubic yards, at a cost of 271/2 cents per yard.

In 1897, refuse and garbage cremated, 54,000 cubic yards, at a cost of 221/2 cents per yard.

In 1898, garbage and refuse cremated, to September 23rd, 33,000 cubic yards, at a cost of 22 cents per yard.

The eastern crematory cost for construction, in labor and material, for the furnaces and smoke stack, \$4,400; the wooden building, 48 × 98 feet, 22 feet high, and a bridge for approach from street and fencing lot, \$3,000, making a total of

\$7,400.
The western crematory cost for construction, being a little larger than the other, with a brick smoke stack, in labor and material, furnaces and chimney.

and material, turnaces and chimney, \$4,914; building and planking roadway, etc., \$2,600, or a total of \$7,514.
All kinds of garbage, refuse, dead animals, rotten meat, fruit, fish, vegetables, etc., are cremated. Cheap soft coal screenings are used as fuel, an average of about two ton per day at both institutions.

There are no offensive odors at any time emanating from the crematories; they might be placed in the heart of the city

and would be no nuisance.

So far as my knowledge goes, from in-formation I have been able to gather for the past ten years on the disposal of garbage, I believe that cremation is the best and most sanitary method of treating it. So far as our city is concerned, it is the only system suitable, as we get so much more refuse than garbage.

Yours respectfully, E. COATSWORTH, City Commissioner.



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