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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 Debentures and leading Contractors in all lines throughout Canada.

Vol. 7.

DECEMBER 10, 1896

No. 45.

THE CANADIAN CONTRACT RECORD.

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OUTSTANDING ACCOUNTS

All persons having accounts against the Corporation of the City of Toronto are respectfully re uested to send in the same to the proper departments without delay, in order that the same may be passed and paid before the end of the year. By order,

City Clerk's office, City Clerk.

Control of City Clerk.



TENDERS FOR ANNUAL SUPPLIES

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

Tuesday, December 22, 1896.

for the following supplies for the year ending December, 1897 :-

Lumber,
Pit Gravel,
Sand,
Cedar Paving Posts,
Brass and Bronze
Castings,
Brass Work for Services. Castings, Brass Work for Se vices, Coal and Wood, Lead Pipe, Stop Valves, Special Castings, Iron and Steel,

Paving Brick
General Supplies,
Wite Nails,
Sewor Pipe,
Horse Feed, etc.,
Cast Iron Pipe,
Lubricating Oils, etc.,
Lumberfor W W Purposes
Rubber Valves, etc..
Iron Valve and Stop Cock
Boxes,
Hodrants. Hydrants, Stone Kerb.

Specifications may be seen and forms of tender obtained at the office of the City Engineer, Toronto, on and after the 15th December, 1896.

A marked choque, payable to the order of the City Treasurer, Toronto, for 5 per cent. of the amount tendered for up to \$1,000, and 2½ per cent. of the amount over that sum, must accompany each and every tender, otherwise it will be ruled out as informal.

The lowest or any tender not necessarily accepted.

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

Toronto, December 8th, 1896.

CONTRACTS OPEN.

SMITH'S FALLS, ONT.—The erection of a new town hall is being advocated.

CHATHAM, N. B.—It is intended to build a new fire engine house in the

ORILLIA, ONT .- The council will probably take steps towards utilizing the power of the Severn river.

FREDERICTON, N. B .- It is probable that an electric fire alarm system for the town will be installed.

BLENHEIM, ONT.—Mr. Wilson, architect, is preparing plans for a residence for Wm. Snow, to cost \$2,000.

PERTH ONT.—A proposition has been received from Charlebois & Co., of Quebec, to construct a waterworks system here.

PEMBROKE, ONT. — The Pembroke Curling Club are making arrangements to erect a large curling rink, with circular roof.

WIARTON, ONT.—The town has decided to offer a bonus of \$50,000 for the construction of a railway to tap the C. P. R.

Victoria, B. C.—The by-law to provide the sum of \$125,000 to construct a steel bridge at Point Ellice was defeated by the ratepayers.

BELLEVILLE, ONT.—Tenders for the purchase of \$50,000 of debentures are invited by J. P. Thompson, treasurer, until the 15th inst.

ST. JEROME, QUE.—A bill is now before the legislature asking power to borrow the sum of \$60,000 to erect a church and sacristy for this municipality.

EAST TORONTO, ONT .- It is said to be the intention of members of the Massey Harris Co. to erect a summer residence next spring on the height in this vicinity.

WARKWORTH, ONT.—Surveys are being made for the proposed railway between Cobourg and Warkworth, to be built by the C. N. & P. Railway Com-

WOODSTOCK, ONT.—Plans are being prepared for a skating rink and club house by Messrs. Davis, Van Buskirk & Ford. Operations will be commenced in the spring.

ST. JOHN, N. B.—Tenders for the purchase of \$30,000 of school debentures are invited until the 27th inst. Address Edward Manning, secretary Board of School Trustees.

WATERLOO. ONT. -- Proposals are asked by F. Colquhoun, Town Clerk, until Friday, the 11th inst., for the purchase of \$5,756 of debentures, payable in thirty yearly payments.

SAULT STE. MARIE, ONT.—It is probable that the Ontario government, in response to numerous applications from the citizens, will make a grant for the erection of a hospital in this town.

SIMCOE, ONT.—Tenders will be received by N. C. Ford, Town Clerk, until the 16th inst., for the purchase of twenty local improvement debentures of \$100.31 each, bearing interest at 5 per cent.

LEAMINGTON, ONT.—J. E. Johnson, Mayor, will receive offers until Thursday, the 17th inst., for the purchase of \$19.500 of local improvement debentures, \$4,500 of waterworks and \$1,500 of High School debentures.

BEECHBURG, ONT .- Tenders close on the 15th inst. for the construction of a wooden bridge over Fraser's Mills Creek. Plans may be seen at the office of J. L. Morris, C. E., Pembroke, and tenders are to be addressed to H. R. Dunn, township clerk.

STRATHALLAN, ONT .- Tenders are invited by James Anderson, clerk of East Zorra, until Tuesday, the 15th inst., for the construction of the open portion of the Grayson drain, in the township of East Zorra.

EDMONTON, N. W. T.—In a recent interview with the Edmonton district railway directors, the Minister of Public Works for the Dominion promised to have a combined railway and traffic bridge built at this point.

ST. CATHARINES, ONT .- Tenders are invited by W. G. Thompson, superintending engineer, until Tuesday, the 15th inst., for furnishing supplies for the Welland canal for the year 1897, including iron, timber, castings, hardware, fuel, oil, etc.

KASLO, B. C.—Geo. Alexander will put in an electric light plant here.

CHATHAM, ONT.—The City Council has decided to submit a by-law to the freeholders providing for the purchase and operation of a civic electric lighting and power plant. The citizens will also be asked to pass on the question of boring for natural gas.

CALGARY, N. W. T.—The City Council has presented a memorial to the Minister of Public Works requesting the erection of a jail and insane asylum at this place, the extension of the C. & E. railway to the boundary, and the building of the Crow's Nest Pass railway.

ST. MARYS, ONT.—L. Harstone, Town Clerk, writes: "In your issue of Dec. 3rd you say this town has adopted Mr. Newman's plans for a system of water works. No plans are yet adopted, and will not be until after the vote upon the by-law is taken on 4th January next."

OWEN SOUND, ONT.—The officials of the Canadian Pacific railway had an interview recently in connection with the proposed erection of a grain elevator here. It is supposed that the company will ask for a bonus of \$40,000, in return for which they will erect the elevator, enlarge the freight sheds and otherwise improve the buildings.

ST. THOMAS, ONT.—The congregation of the Central Methodist church has decided to accept the board's recommendation for a new church. It will be erected on the present site on Wellington street, and will cost about \$15,000. Work will be commenced in the spring.—The congregation of the Disciples' church are taking steps to enlarge their building.

SPRINGHILL, N. S.—The authorities of the town have now under consideration the construction of a waterworks system, the estimated cost of which is \$115,000.—H. J. Logan, M. P. for Cumberland, is making an effort to have a branch railway from Athol to run into this town. Competent engineers assert that the route is feasible and the grade very great.

LONDON, ONT.—The Street Railway Company will probably construct a bridge across the river. The County Council have decided to recommend to the City Council of London the granting of an option to the street railway company whereby the latter may build a separate structure for their tracks or a new 25 foot bridge to replace the present Kensington bridge.

BROCKVILLE, ONT.—The Dominion Rubber Company will build a factory in this town.—At a meeting of the waterworks commissioners held last week, it was decided to increase the pumping capacity by the addition of a new three million gallon high duty pumping engine.—Offers are asked until Monday, the 21st inst., for the purchase of \$60,000 of debentures of the Brockville Loan & Savings Co. Address D. B. Jones, managing director.

QUEBEC, QUE.—W. D. Baillairge, assistant city inspector, will receive tenders until Tuesday, the 22nd inst., for the construction of a pontoon 120 feet by 40 feet, from plans prepared by the City Engineer.—Mr. F. X. Berlinguet is sending the plans for the granite base of the Champlain monument to Paris, and will transfer them to Mr. Le Cardonnel to perform the important mission. Should the Parisian artist accept the price and plans, the granite can be prepared during the winter.

HALIFAX, N. S.—W. R. and J. A. Shriven have purchased property immediately south of Gordon & Keith's new

building, and will erect thereon a three storey brick building, the plans for which are being prepared by Mr. Whiteway, architect.—It is stated that a wealthy gentleman proposes erecting in this city next spring a handsome residence. The plans have been prepared, and show that the building will cost nearly \$60,000. It will be built of brick, granite and stone, with tiled hallways.

ROSSLAND, B. C.—J. F. McLaughlin, late of Toronto, has purchased the charter of the Spokane & Columbia Telephone Company. He intends to put in a system at Rossland first, then to extend it to Trail and from that point to Spokane.—A charter has been granted to the British Columbia Tunnelling & Developing Company, Limited, the purpose of which is to construct a tunnel through the Red Mountain. This tunnel is to be of sufficient width and height to enable the company to lay double tracks, on which they propose to operate electric cars to convey the ore from the mines.

*WINNIPEG, MAN.—Mr. Coste, chief engineer of the Public Works Department, will shortly make a survey of the St. Andrew's rapids, with a view to carrying out the necessary improvements.—The erection of a chapel and vault at Brookside cemetery will probably be undertaken at an early date. Mr. E. L. Drewry is one of the interested persons.—Mr. J. A. Macdonell, engineer of the Public Works Department, has surveyed a site for a proposed bridge over the Assimboine river, in the municipality of Archie. He will also lay out the site for a bridge over the Little Saskatchewan river, in the municipality of Daly, north of Brandon.

VANCOUVER, B. C.—An engineering party will shortly be sent here by the Dominion government to co-operate with the engineer of the local government in preparing plans for the dyking of the Fraser river.—The lower part of the market hall will be converted into a city hall and offices, at a probable cost of \$3,000.—The by-law to provide the sun: of \$60,000 for the extension of the waterworks system was carried by the rate-payers last week.—The projectors of the proposed smelter and refinery will ask the city for a bonus of \$150,000, also for ten years' exemption from taxation and a free water supply. It is understood that the C. P. R. will assist in the establishment of the smelter.

MONTREAL, QUE.—The authorities of All Saints' church have decided to build a new chancel at the east end of the present church.—The Parks Committee of the City Council have approved of the proposal of C. Amyot to build an observa-tory on the Mountain. The structure will be of wood, 52 feet in height.—Mr. Ridout, of the Department of Railways and Canals, and Mr. Beauchemin, of Sorel, have completed an inspection of the Baie des Chaleurs railway, and will report to the government. It is understood to be the intention to make the road a feeder to the Intercolonial railway.-Mr. Stuart Howard, C. E., of the Road Department, is preparing plans for the construction of a viaduct from St. Henristo the Bonaventure station, to be carried over the G.T.R. tracks. The viaduct will be carried on masonry arches, the space between the crossings being available for warehouses purposes.—The Parks Committee have decided to ask the City Council for the sum of \$8,000 for improving the roads in Mount Royal Park. — Mr. Wolferstan Thomas, a member of the Mount Royal Cemetery Company, proposes that a crematory be established in connection with the cemetery. The question will be considered at the next meeting of the Railway Company will ask assistance from the Dominion government for the remodelling of the Victoria bridge at Montreal. It is the purpose to double track the bridge, and to construct a free highway in connection therewith.—Chas. Chausse, architect, is preparing plans for two houses to be erected on St. Denis street, tenders for which will be invited early in the spring.—C. St. Jean, architect, is preparing plans for reparations to St. Sabine church and also for the manse for same.—Gannelin & Huot, architects, are preparing plans for a cottage to be erected at Varennes for E. G. Simard, M. P

HAMILTON, ONT .- The City Clerk has given notice that it is proposed to con struct pipe sewers on the following streets. Homewood avenue, from Locke street to Garth street, cost \$1,700, Main street, to Sanford avenue, westerly to the end of the present sewer, east of Wentworth street, cos: \$320.—The Minister of Public Works has given instructions that the post office in this city be thoroughly repaired .- Wm. & Walter Stewart, architects, have taken out a permit for a brick office for the Westinghouse Air Brake Company, to cost \$3,200.—Mr. Minro, architect, last week requested the Parks Committee to consent to the granting of a patent for the water front at the beach. The Colony Company, which he represents, have a scheme on hand involving an expenditure of \$100,000. It is proposed to fill in the water front from the pier some distance along the beach and to construct a large hotel.—Tenders have been invited for the construction of a fire been invited for the construction of a fire hall in Victoria Park, from the plans of L. H. Hills, architect.—Steps are being taken by the directors of the Y. M. C. A. to provide the necessary funds for the extension of the Y. M. C. A. building next summer. This addition will provide a swimming bath, educational class rooms, boys' rooms and dressing rooms .-Negotiations are about closed for the purchase by A. D. Stewart of the Palace Saloon and Restaurant. Wm. Noble & Son, the present proprietors, will probably erect a substantial hotel at the corner of Cannon and James striets.-The Hamil ton Spectator proposes erecting a new office building.

OTTAWA, ONT.—The Board of Trade have passed a resolution requesting the City Council to correspond with Mr. Rudolph Herring, C. E., of New York, to ascertain on what terms he will submit a report for the proposed drainage system. -J. H. Balderson, Secretary Department of Railways and Canals, will receive tenders until the 22nd inst. for the removal of a portion of the timber superstructure of the East pier at Port Dalhousie, Ont. Plans may be seen at the office of the superintending engineer, St. Catharines. It is stated that the medical staff of the Protestant hospital have decided to build another hospital, equipped with all modern conveniences. The details of the scheme will be made public in a few days.-The school trustees of Ottawa East have requested the council to raise the sum of \$6,000 by the issue of debentures for the purpose of building a new school house.—
The directors of the C. Ross Company, Limited, have decided to rebuild at once on the site of the buildings recently burned. It is probable that a six-storey building of modern design, to cost about \$100,000, will be erected, plans for which are now being prepared by A. M. Calderon, architect .- The Nuns of the Precious Blood propose to erect in this city next spring a large numery.—A project is on foot by the Irish Catholic Societies in this city to erect a large hall, at a cost of from \$12,000 to \$20,000. Sketch plans for the building have already been prepared, which show that the structure will be four storeys high. In the basement will be bowling alleys and billiard rooms, the second flat will be a lecture hall and reading rooms, and on the third floor will be committee rooms. A gym

nasium will probably occupy the fourth floor.—It is understood that an Anglican church is shortly to be erected on the Powell property of the Glebe Mission. It has been the intention of the Church of England authorities for some time to erect a church there.—The work of cleaning up the debris of the late fire on Sparks street is being pushed ahead, and pre-parations for the erection of new buildings of a class superior to those which have been destroyed are already under way. The foundations for the new structure for the C. Ross Co. will be built this winter. the C. Ross Co. will be built this winter. The upper portion of the structure will be entirely of steel. E. P. Hartney has also decided to rebuild at once, but plans have not yet been prepared. Holbrook & Sutherland will do the mason work, and J. & G. Low have the contract for the ironwork. Mr. Holbrook will not commence the erection of his building until April April.

April.

TORONTO, ONT.—The City Engineer has recommended the construction of the following pavements on the initiative: Brick—Bellevue avenue, College street to Bellevue place; Charles street, Church street to Jarvis street; Arthur street, Dundas street to Arthur street bridge; Jameson avenue, King street to Queen street; Sumach street, Amelia street to Gerrard street; Shaw street, Queen street to Arthur street. Macadam—Spadina avenue, King street to Queen street. Cedar block—Buchanan street, Yong street to Terauley street; Bellwoods avenue, Queen street to Mansfield avenue; avenue, Queen street to Mansfield avenue; avenue, Queen street to Mansfield avenue; Carlton street, Parliament street to Sumach street.—The cost of the proposed water mains for fire protection in the Exhibition grounds is given as \$6,400.—The construction of sewers on Adelaide street west, from Bay to York street, and on Gerrard, from Yonge to Church, is recommended. — By-laws will be submitted to the street, and provide the mitted to the ratepayers to provide the sum of \$275,000 for the completion of the city hall and court house, and \$26,000 for city hall and court house, and \$25,000 for laying a water main on Front street, between Church and Sincoe streets.—A sub-committee of the Board of Works have requested the city engineer to report on the building of a foot bridge over the Don, between Gerrard and Queen streets.—Should the Metropolitan Street Railway Company be extended to Lake Sincoe, it is probable that an additional power Company be extended to Lake Simcoe, it is probable that an additional power house will be erected at Newmarket or Aurora. The extension of the line to Richmond Hill has necessitated the improvement of the present power house near Mount Pleasant.—The York County Commissioners meet to day (Thursday) to confer with the Metropolit in Railway Company as to the construction of the new bridge at York Mills. If satisfictory new bridge at York Mills. If satisfictory arrangements be made the construction will be proceeded with at once.—The property owners interested have petitioned against the full wing local improvement works. Asphalt pavement on Carlton st., from Sherbourne to Parl ament, concrete walk on Bay, east side, from Adelaide street northward, and a wooden walk on Dufferin street, west side, from Dundas to College.—The Minister of Education has promised to provide a sustenandas to College.—The Minister of Educa-tion has promised to provide a sustenan-ance for the Toronto Technical school in case the city will provide permanent build-ings therefor.—The City Clerk has re-ceived a sufficiently signed petition against the construction of a concrete pavement on the south side of Bloor street, between Yonge and Jarvis streets.

FIRES.

Taylor Bros', saw and shingle mili at Udora, Ont., has been burned. Insurance \$1,200.—A disastrous fire occurred in Ottawa list week, by which the following buildings were destroyed: C. Ross & Company's building, loss \$225,000; Holbrook's building, loss \$25,000.

E. P. Hartney's building, loss \$25,000.

the Masonic Hall, loss \$12,000.—The Farrel House and stables belonging to Robert McLean at Cayuga, Ont., have been destroyed by fire. The insurance is \$1,200.—The mills of the Drummond Lumber Company at Forestdale, Que., valued at \$17,000, were completely destroyed by fire on Friday of last week, the insurance being only \$6,500. Mr. Wm. Mitchell is president of the company.—A. Campbell's saw mill at Callendar, Ont., has been burned. Loss \$2,000; no insurance.—The buildings of the Pioneer Beet Root Sugar Company at Coaticooke, Beet Root Sugar Company at Coaticooke, Que., were destroyed by fire on the 2nd inst.—The residence of Mr. McPhail at Lachute, Que., was burned on Friday of last week, together with the store of Mrs. Hampton.—On the 3rd inst. fire consumed the drygoods store of J. R. Inksater at Paris, Ont. The building is owned by Messrs. Turnbull & Thompson. Dr. Sing's residence in Thurlow township, near Belleville, has been burned, at a loss of \$3,000. The insurance is \$1,000.—

Two of the buildings belonging to James McNally's cooperage works at Ayliner, Ont., have been destroyed by fire. The loss is \$2,500 and insurance \$1,000.—The Barrow stone block on St. James street, Montreal, was the scene of a disastrous fire on. Tourday lost the dayner height. fire on Teusday last, the damage being estimated at \$500,000. The burned portion was occupied by offices and stores of various kinds.

CONTRACTS AWARDED.
FREDERICTON, N. B.—\$40,000 of 4 per cent. debentures have been sold, at a premium of \$105.96 %.

OTTAWA, ONT. - J. R. Douglas & Co. have been entrusted with the work of erecting metallic ceilings and side wall finish for the Ottawa Trust & Deposit Vault Co.'s premises.

LONDON, ONT.—The Hobbs Mfg. Co., of this city, will supply two stained glass windows for the nave of Christ church,

(Concluded on Page 4.)

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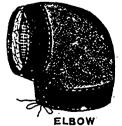
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WRITE FOR PRICES AND CATALOGUE

\$11,000. MONTREAL, QUE.—J. Rawson Gardiner, architect, has let the contract for alterations to fittings for the Royal Insurance Co. to W. Scott & Son. Same architect has awarded the contract for a mission church at Massoneuve to A. mission church at Maissoneuve to A. Strang for all trades.—A. G. Fowler & J. R. Gardiner, architects, have let contracts as follows for fittings to store for the Laing Packing & Provision Co., corner Ontario & Champlain streets: Carpenter and joiner's work, R. Guertin; penter and joiners work, R. Guertin; plumbing, heating and tinsmithing, Mi. Ballantyne; marble work, Robert Reid.

—W. McLea Walbank, architect, has let contracts as follows for reparations and modifications of a house, corner Craig & Victoria streets, for J. D. Davis; Exception designs and penter and beat the contract of the contra avating, drainage, masonry and brick-laying, White & Morrison; carpenter and joiner's work, Thos. Ford; plasterer, Knott & Gardiner. Offices of the Lachine Rapid Hydraulic Co., Ltd.—Thos. Ford, contractor; iron work, Canadian Bridge -Building permits have been granted as follows: Three houses to be erected on Berri street for Jos. A. Leguerrier— Jos. Forget & Despatie, architects; masonry contractor, Boucher & Huberdeau. Reparations of a house on Redpath street for C. L. Shorey—architect, A. F. Dun-lop; masonry contractor, Wm. Oman; carpenter and joiner's work, Simpson & Peel; brickwork, A. Cowen.

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WALTER MILLS, General Manager.

Head office: INGERSOLL, ONT.

DEPARTMENT

SEWAGE DISPOSAL WORKS, HAMILTON, ONT.

The city of Hamilton, which is situated on Burlington Bay, at the head of Lake Ontario, is built on a plateau of slightly elevated ground, winding round the foot of a hilly range which extends from Niagara Falls.

Founded in 1813 by the late Geo. Hamilton, it has had a growth of prosperity rarely equalled in Canada, till now it is a leading manufacturing centre and boasts a population of over 49,000 people. The city, owing to a gentle uniform slope towards the bay, is well adapted for the simple and efficient sewerage system, designed and carried out by the late city engineer William Haskins, M. Inst. C. E. By this system the city is now divided into five independent districts, each district collecting its sewage and storm water into one main outlet, and discharging it into Burlington Bay.

For a number of years the bay, which is about six miles long by two miles wide, was fully capable of disposing of the sewage thus discharged, till recently owing to the increase in the size of the city the waters were gradually getting polluted, especially along the shore line. In the year 1895 matters were brought to a climax by an order from the High Court restraining the city from discharging crude sewage at the east end outlet, on the ground of its being a nuisance; the sewer in this district emptying into an inlet from the bay and not into the bay directly. Whilst the best means for carrying out this order were under consideration the question of the disposal of the entire city sewage naturally suggested itself, and Mr. E. Kuichling, C. E., the eminent sewerage expert of Rochester, N. Y., was engaged by the Council to

report on this subject. After getting the necessary data he presented a very full and elaborate report, the purport of which was the recommendation to collect the dry weather flow of all the city sewage to one station, and then pump it a mile or more out into the deepest part of the bay, considering that the bay was amply capable of receiving the sewage from the present population without rendering the waters offensive.

This solution of the sewage question did not meet with the approval of the city council, the citizens, or the city engineer, there being a repugnance to this mere emptying the sewage into the bay without any treatment at all. The expense of collecting the sewage at one station was also against such a scheme, the estimated cost being nearly \$200,000.

The late city engineer, Mr. Haskins, recommended the purification of the sewage by chemical precipitation, and advised the construction of such works at the outlets of two of the trunk sewers at Ferguson ave. and the east end. A by-law being submitted to the ratepayers, was carned for the construction of this work, the amount voted being \$50,000 for Ferguson ave. outlet and \$35,000 for the east end outlet. It will thus be seen that the character and location of the works are both in accordance with the recommendation of the late city engineer.

The question of applying the sewage to land was gone into, but no site of a suitable nature or at a reasonable cost could be obtained. There was a determined opposition made to the establishment of sewage farms by the surrounding townships.

After careful measurements, the daily dry weather flow of sewage at the east end outlet, where the works are being established, was found to be 500,000 gallons per 24 hours. The sewage 15 comparatively free from obnoxious components, being largely collected from the rural parts of the city. The works now being constructed consist of a pump house, press house three large precipitation tanks with channel leading (Concluded on Page 5.)

CAST IRON WATER PIPES

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from the pumps and mixers, &c. The sewage, after passing through a screen, enters the receiving well, where it is mixed with the proper proportions of lime and sulphate of alumina, and is then

raised by two centrifugal pumps into a channel four feet wide. This pumping is rendered necessary by the outlet of the sewer being almost on a level with the waters of the bay. In passing through

the centrifugal pumps the chemicals are thoroughly mixed by the churning action of such pumps. The sewage is conducted in the channel to the precipitation tanks, which are each 103 ft. by 44 ft., where the sludge settles at the bottom. One or more of these tanks can be disconnected from the test, when the sludge precipitated at the bottom requires removal, by closing the weirs leading to such tanks. The water is then drawn off by skimmer pipes, after which the sludge is conducted, by means of a small open drain underneath the main channel, to the siudge well. Here any water which may collect on the surface of the sludge is pumped out by a small auxiliary pump, and the sludge itself is then pumped into a press or into wagons direct.

From the press it is turned out in the form of cakes, which are dropped on trucks, running on rails, and thence conveyed outside the building. There are two chemical mixers operated by the pumps, and the effluent after being aerated by falling down steps is conducted by an 18 inch pipe into the bay.

Owing to the fact of the rapid increase in the population of this district, and the building of several trunk sewers in connection with it, the works have been constructed on a larger scale than would otherwise have been considered necessary. The works at the west end will not be nearly so expensive, as the sewage will be treated by gravitation, the outlet being sufficiently high to dispense with the pumps.

It is expected that these works will be among the best on this continent. The present city engineer, Mt. E. G. Barrow, is well qualified for designing and carrying out sewage disposal works, having made himself thoroughly familiar with the different systems both in the United States and Europe. Before laying out the present works he made special visits to the different cities, where similar works have been constructed, and everything which has proved unsuitable has been omitted, and several improvements substituted.

The buildings in connection with these sewage disposal works were planned by and erected under the supervision of Wm. & Walter Stewart, the well known architects, of Hamilton.

Mr. Charles Wallace, C. E., D. L. S., was the assistant engineer in charge of the works, and it is partially due to his instrumentality that they were so correctly and substantially built.

Mr. E. G. Barrow, city engineer, was born at Clifton, Bristol, Eng., on Nov. 7th, 1846. He was for three years an articled pupil of Mr. Francis Fox, M.I.C. E., chief engineer of Bristol and Exeter Railway, and subsequently became assistant under him on Chard & Taunton branch of that railway. He was on the Midland and Hamilton and North Western Railway, of Canada, and for several years was assistant city engineer under the late Mr. Haskins. He is a member of the Canadian Society of Civil Engineers and an Ontario Land Surveyor.

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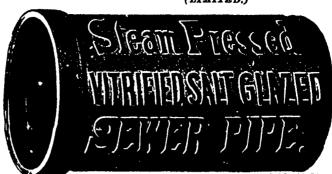
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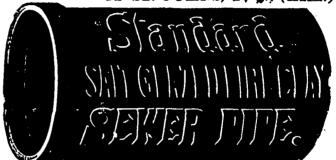
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INDEX TO ADVERTISEMENTS

in the "Canadian Architect and Builder."

Architects. Ontario Directory....iii Quebec Directory.... ii

Architectural Sculp-tors and Carvers. Beaumont, H....ii Carroll, Robett....ii D.m. Art Wodwork Company.....vii Holbrook & Molling-ton...ii

Lamar & Metge ii McCormack. W N ... ii

Architectural Iron Work.

Dominion Bridge Co. 1

Art Woodwork

Dom. Art Woodwork
Company..... vii
Southampton Mfg. Co. vi

Boller Covering
Mica Boiler Covering
vii Co.....

Bricks (Pressed)

Beamsville Pressed
Brick Co. i
Brockville Pressed
Brick Co. xi

Builders' Supplies.

Bremner, Alex. ... IV
Currie & Co., W& F.P., xii
Lawrence & Wiggin IV
Montreal Directory... x
Ontario Lime Associa.

Building Stone Dealers. Credit Forks Mining & Mg. Co...... viii

Builders' Hard.

Rice Lewis & Son.... IV

Church and School
Furniture.
Can. Office & School
Furniture Co.....

Oreosote Stains Cabot, Samuel.. ... IV

Chimney Topping.

Bremner, Alex..... IV Currie & Co., W&F.P. xii

Contractors' Plant and Muchinery Rice Lewis & Son.... IV

Cements.

Bremner, Alex..... IV Currie & Co, W. & F. P. xii Owen Sound Portland Cement Co..... IV

Drawing Tables.

Laughlin-Hough Drawing Table Co...... II Drain Pipe

Bremner, Alex...... IV Currie & Co. W&F.P. xii Hamilton and Torento Sewer Pipe Co. . . xii

Elevators

Darling Bros..... ii
Fensom, John..... I
Leitch & Turnbull... I
Miller Bros & Foms...vi

Electrical Engineer Heathcote, W ii

Engravers. Can. Photo-Eng Bu-

reau.....II

Fire Brick and Clay Bremner, Alex..... IV Currie & Co, W &F P. xii

Galvanised Iron Workers,

Ormsby & Co., A. B.. I Granite

Brunet, Jos III

Grates, Mantles,
and Tiles,
Holbrook&Mollington i
Rice Lewis & Son...IV
Rogers & Sons Co.,
Charles......xi

Heating.

Interior Decoration Castle & Son..... viii Elliott, W. H..... vi

Lime

Currie & Co., W&FP... xii Mille Roches Lime Co., The..... xi Ontario Lime Association.....III

Legal.
Denton & Dods..... ix

Machinery Petric, H. W..... III

Mortar Colors and Shingle Stains.

Cabot, Samuel..... IV Muirhead, Andrew.... 1

Ornamental Plas-terors. Hynes, W J..... viii

Painters. Montreal Directory... x Toronto Directory... x

Plasterers Hynes, W J viii

Paints & Varnishes Cottingham Walter H vi Munhead, Andrew ... i

Parauetru Floors Elliott, W H..... vi

· Plate Glass Hrbbs Glass Works.. ii The Consoudated Plate Glass Co...... ii

Prismatic Glass. Prismatic Glass Co...

Plumbers Montreal Directory.... x
Toronto Directory.... x

Roofing Materials
Ormsby & C., AB. 1
Metallic Koofing Co... vii
Pedlar Metal Roofing
Co..... v

Roof Know Guards. Gunn, R A..... IV

Reflectors
Frink, I. P.....v

Runfers
Ormsby & Co., A B., 1
Montreal Directory... x
Toronto Directory... x

Ranitary Appliances
Ances
Ances
Ances
Ances
Ances
Ances
Ances
Ances
Contact
Ances
An

Shingle Stains
Cabot, Samuel......IV

Stained and Decora

Castle & Sons, H... v
Horwood & Sons, H... v
Hobbs Gl ss W rks . ii
McKenzi 's stained
Glass Works ... v
Lyon, N. T. ... v
Prismatic Glass Co... v

Shingles and SiZing
Metallic Roofing Co.. vii
Ormeby & Co., A B.. I
Pedlar Metal Roofing
Co...... v

Soil Pipe. Toronto Foundry Co... v

Wall Plaster

Albert Mfg. Co..... II Alabast ne Co.... viii

Window Blinds Semmens & Evel.... vii

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CONDITION OF THE MARKET.	Common Walling 6 50 6 00	Portland Cements.—		
MONTREAL: General shelf hardware shows	Sewer	German, per bbl 350 #35 #65 London " 275 300 #98 #03		
considerable activity, but the heavy lines of	Prosect Brick, Por M: Red, No. 1, f.o.b. Beamsville 15 00	Newcastle 1 275 185 193 Belgian, Joseon, artificial 265 273 263 273		
builders' supplies are quiet. An advance of 5	11 11 0	English, attifical, per bbl., 265 325 255 265 Brigian, natural, per bbl., 255 265 170 185		
cents has been made in the United States on	Buff 31 00	Canadian 255 275 180 185		
wrought iron pipe, which will likely affect the	Brown 24 00 Roman Red 30 00	Parian " 475 500 \$30 575		
Canadian market. Heavy metals have become	11 Buff	Superfine " , 75 7 25 8 00 9 00 Hydraulic Cements.—		
firmer, and higher values may shortly rule. English and Belgian cement has advanced 10	Sewer	Thorold, per bbl 175 125 50		
cents per barrel, which has been brought	Roof Tiles 22 00	Napanee, 11 175 150		
about by the cartage charges. A sale of 1,000	Ridge Tile (each) 20	Hull, 11 175 I 50 Ontario, 11 53		
barrels of English is reported. There has also	1st quality, f.o.b. at Port Credit 12 00 18 00 2nd " " 10 00 15 00 15 00 17 00 17 00 18 00 12 00 17 00 17 00 18 00	Keene's Coarse "Whites" 450 475 450 475 Fire Bricks, Newcastle, per M 27 00 35 00 25 00 21 00		
been a rise of \$1.50 per thousand on firebricks,	Hard building brick 6 50	Il Scotch II as on at on so on As on		
the rates now being \$17.50 to \$22.	Ornamental, per 100 3 00 10 00	Lime, Per Barrel, Grey 40		
TORONTO: Trade in builders' supplies is	SAND. Per Load of 1% Cubic Yards 125 125	Plaster, Calcined, N. B 200		
moderate, but for some lines there is an in-	STONE.	Hair, Plasterers', per bag 80 100		
creased demand. Plumbers' supplies are	Common Rubble, per toise, delivered 10 00 11 00	#ARDWARE. Cut nails, 50d & 60d, per keg 2 75 2 75		
moving with a little more freedom, especially	Large flat Rubble, per toise.	Steel 11 11 11 11 11 11 11 11 11 11 11 11 11		
on country account. Cut and wire nails also present an upward tendency, as does also	delivered	CUT MAILS, PENCE AND CUT SPIKES. 40d, hot cut, per 103 lbs 280 880		
building paper. In the heavy metal trade the	Kent Freestone Quarries Moncton, N. B., per cu	30d, 11 11 11 285 285 20d, 16d and 12d, hot cut, per		
demand is scarcely up to the average, dealers purchasing only for immediate requirements.	River John, N. S., brown	100 lb8 290 290		
The movement of glass and paints and oils is	Freestone, per cu. ft., f.o.b. 95	8d, 9d, 11 11 11, 300 300 6d, 7d, 11 11, 325 328		
light.	New York Blue Stone t o5	4d to 5d, 3 35 3 35		
LUMBER.	Granite (Stanstead) Ashlar, 6 in. to 12 in., rise 9 in., per ft. 25	ad, " " " 425 425		
can or cargo lots. Tofonto. Montreal.	Moat Freestone 60 70 Thomson's Gatelawbridge, cu. ft. 75 80	4d to 5d cold cut, not polished or blued, per 200 lbs 325 325		
1010HtV. 740HtF0A1. \$ \$ \$ \$	Credit Valley Rubble, per car	or blued, per 100 lbs 3 = 5 3 = 5 3 d to 5d cold cut, not polished or blued, per 100 lbs 3 65 3 65		
1 1/2 to 2 clear picks. Am ins33 00@36 00 40 00@45 00	Credit Valley Brown Cours-	FINE BLUED NAILS.		
1 to 2 three uppers, Am ins. 37 00 40 00 45 00 1 to 2, pickings, Am ins 26 00 27 00 30 00	ing, up to ro inch, per sup. yard, at quarry 150 175 150 175	3d, per 200 lbs		
t inch cleat	Credit Valley Brown Dimen- sion, per cu. ft. at quarry. 60 60 Credit Valley Grey Coursing,	CASING AND BOX, FLOORING, SHOOK AND TOBACCO BOX NAILS-		
1 better	Credit Valley Grey Coursing, per super, yard, at quarry, r co r co	12d to 30d, per 100 lbs 3 25 3 25		
1 x 10 and 12 dressing20 00 22 00 18 00 1 x 10 and 12 common13 00 14 00 8 00 10 00	Credit Valley Grey Dimen-	rod, 3 35 3 35 8d and 9d, " " 3 50 3 50		
Spruce culls	Clark's N. B. Brown Stone,	6d and 7d, " 305 365. 4d to 5d. " " 985 385.		
1 x 10 and 12 cults	Brown Free Stone, Wood-	3d, ' ' 425 495		
t in h dressing and better20 00 22 00 18 00 20 00 1 inch siding, mill run14 00 15 00 12 00 16 00	point, Sackville, N.B., per cub. ft	yinishing nails. 3 inch, per 100 lbs 3 60 3 60		
r inch siding, common12 00 13 00 10 00 11 00	MadocRubble, delivered, per toise 14 00 14 50 14 00 14 50	2% 10 2% " " 375 375		
t inch siding, mil tulls 900 1000 800 900 Cull scantling 800 900 800 900	Madoc dimension floating, f. o. b. Toronto, per cubic ft. 30 32	1½ to 1½ " 4 to 4 to		
W and thicker cutting up	Cape Bauld, N. B., Brown	136 4 50 4 50 1 500 500		
plank24 00 26 00 22 00 25 00 t inch strips, 4 in to 8 in. mill	Coca gne, N. B., Gray Free-	SLATING NAILS. 5d, per 100 lbs		
inch strips, commot	stone (olive-green) 90 70 OHIO FREESTONE, FROM THE GRAFTON STONE CO.'S	4d, " " 360 360		
1% inch flooring	QUARRIES.	3d, 14 14 400 , 400 and 50 450		
XXX shingles, sawe, per M 16 in	No. 1 Buff Promiscuous 90 1 co No. 1 Buff Dimension 95 2 05	COMMON BARREL NAILS.		
XX shingles, sawn 140 150 160 170	No. 1 Blue Promiscuous 60 70 No. 1 Blue Dimension 65 75	z inch, per 100 lbs		
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miscuous Widths 13 00 13 00	Sawed Flagging, per sq. ft.,	275 and 276 " " " 375 375		
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ccrd 5 00 5 00	12 in. x 6 in. x 4 ⅓ in., per M 50 ∞	x1/4 and x1/4		
Cedar for kerbing, 4 x 14, per M	Granite curbing stone, 6 in.x 20 in., per lineal foot 70	1 4 4 575 575		
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Clapboarding, dressed 12 00 8 00 12 00 XXX sawn shingles, per M	Oil, linseed, raw, by bbl. \$\pi\$ \[mh.gal	Gordon Crown—		
18 th 2 60 2 70 3 00 Sawn lath 2 50 2 60 2 50 2 60	Oil linseed, b'l'd, by bbl., \$\\ Imp. gal 51 51 62 63	16 to 24 guage, per lb 4 1/4 4 1/4		
Codar	Oil, lineed, refined, # Imp.	a8 " " 4¥£ 5"		
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White ash. No. 1 and 224 00 35 00 30 00 35 00 Black Ash, No. 1 and 220 00 30 00 18 00 30 00	Paris white, Eng., dry 90 1 85 90 1 00 Litharge Eng 4 5 450 5 00	angles, 250 230		
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Three uppers, Am. inspection 50 00 50 00	Turpentine 43	Sheared steel bridge plate		

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