

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. 12.

AUGUST 21, 1901

No. 92

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"), \$2.00 annum, payable in advance.

C. H. MORTIMER PUBLISHING COMPANY
of Toronto Limited,

CONFEDERATION LIFE BUILDING, TORONTO

Telephone 2362.

Branch Office:

Imperial Building, Montreal.

Telephone Main 2299.

Advertising Rates on application.

Subscribers who may change their address should give prompt notice of same. In doing so, give both old and new address. Notify the publishers of any irregularity in delivery of paper.

TENDERS FOR GRANOLITHIC WALKS

enclosed in sealed envelope marked "Tender for Walks," and addressed to the undersigned, will be received until 6 o'clock p.m. of

Saturday, the 24th Day of August, 1901;

for the construction of the whole or any of the following walks:

One Granolithic Walk, about 691 feet long by 5 feet wide, to be built on the west side of Marlborough Street, from Race Street to Water Street.

One Granolithic Walk, about 537 feet long by 5 feet wide, to be built on the south side of Water Street, from Marlborough Street to Gloucester Street.

One Granolithic Walk, about 536 feet long by 5 feet wide, to be built on the north side of Water Street, from Marlborough Street to Gloucester Street.

One Granolithic Walk, about 542 feet long by 3 1/2 feet wide, to be built on the west side of Gloucester Street, from Water Street to First Street.

A certified bank cheque for ten per cent. of the value of the work tendered for, and payable to the order of the Treasurer of the Town of Cornwall, must accompany each tender, otherwise the tender will not be considered. This cheque will be forfeited if the person whose tender is accepted refuses to sign the contract and proceed with the work.

The work must be fully completed on, or before, the 1st day of October, 1901.

Plans and specifications can be seen at the office of F. D. McNaughton, Town Engineer, and forms of tender can be obtained from him on and after August 15, 1901.

The lowest or any tender not necessarily accepted.

By order,

GEORGE S. JARVIS,
Town Clerk.

Town Hall, Cornwall,
August 15, 1901.

TENDERS FOR SEWERS

IN THE

TOWN OF WALKERTON

Tenders will be received by the undersigned up to **MONDAY, AUGUST 26TH**, at 4 p.m. for the construction of a sewer about 3,750 feet in length or more, or as decided upon by the Committee, made up as follows: About 792 feet of 10 inch; 1,188 feet of 9 inch; and about 1,400 feet of 6 inch piping. There will be 7 manholes, also the necessary junctions. The average depth will be about 8 feet.

Plans and specifications may be seen at the office of the town clerk, Walkerton.

A marked cheque for the amount of 5 per cent. of the tender price, made payable to the town treasurer of Walkerton, must accompany each tender for the proper entering into a contract for the performance and completion of the work.

The lowest or any tender not necessarily accepted.

(Signed) **R. H. MCKAY**

Chairman of Public Works,

Walkerton, Ont.

Walkerton, Ont., August 12th, 1901.

TENDERS FOR DEBENTURES

Sealed tenders, addressed to J. M. Stewart, M.D., Reeve, Chesley, Ont., will be received until **MONDAY, SEPTEMBER 9TH, 1901**, for the purchase of \$12,442.81 Local Improvement Debentures, guaranteed by the Village of Chesley, dated January 1st, 1901, and falling due twenty years after date of issue.

These debentures have interest coupons attached, and bear interest at 4 per cent. per annum, payable annually.

Tenderers are requested to state a bulk amount, payable September 9th, which amount shall include accrued interest since January 1st 1901.

The said debentures will be delivered in Chesley to the party whose tender may be accepted within thirty days from receiving and opening tenders.

The highest or any tender not necessarily accepted.

JOS. McNEEL,
Clerk.

Chesley, August 13th, 1901.

BRIDGE NOTICE

Sealed Tenders, marked "Tender for Superstructure of Andover Bridge," will be received at the Department of Public Works, Fredericton, until

Monday .30th day of September, 1901, at noon,

For building the Steel Superstructure of "Andover Highway Bridge," across the St. John River, connecting the Villages of Andover and Perth, Victoria County, N.B., according to Plans and Specifications to be seen at the Public Works Department, Fredericton, N.B. The structure consists of five through pin connected truss spans, each 188 ft. 10 in. in length from centre to centre of end pins. For detail information relating to plans and specifications apply to A. R. Wetmore, provincial engineer, Fredericton, N.B.

Each tender must be accompanied by a certified bank cheque or cash, for an amount equal to five per cent. of the tender (which will not receive P.O. orders), which will be forfeited if the party tendering declines to enter into a contract when called upon. Should the tender be not accepted the deposit will be returned. Two good sureties must be named in each tender. Not obliged to accept lowest or any tender.

C. H. LAMBLAIS,
Chief Commissioner.

Department of Public Works,
Fredericton, August 13th, 1901.

TENDERS

Tenders addressed to the undersigned, will be received until the **24TH DAY OF AUGUST, 1901**, inclusive, for the construction of a

Wooden Dam and Flume and Power House

in connection therewith at Renfrew, Ont., where plans and specifications for same can be seen and all information relating thereto obtained.

THOS. A. LOW,

Secretary Renfrew Power Company, Limited.

DEBENTURES FOR SALE

Sealed tenders will be received by the undersigned up to 7 o'clock p.m. on the **1ST DAY OF SEPTEMBER, A.D. 1901**, for the purchase of local improvement debentures of the Village of Exeter, amounting to \$108 1/2, and bearing interest at the rate of 5 per cent. per annum. The debentures will be payable in 15 equal annual instalments. The amount payable on the debentures for principal and interest in the 15 years at the said rate, will be \$2333.80.

Dated at Exeter, this 16th day of August, 1901.

GEO. H. BISSETT,

Clerk, Exeter, Ont.

TO CONTRACTORS

Tenders will be received at the office of the undersigned or the office of Mr. Arthur Ellis, architect, Kingston, until noon **MONDAY, AUGUST 26TH** next, for the several works required in the erection of

Several Buildings for the School of Mining, Kingston.

Plans and specifications may be seen at the offices of the architects in Kingston or Toronto. The lowest or any tender not necessarily accepted.

SYMONS & RAE, Architects,

Toronto.

G. V. CHOWN,

Treasurer School of Mining,
Kingston, Ont.

CEMENT FOR REPAIRING OLD BUILDINGS.

Mr. J. Steiger, of Athens, gives the following formula for manufacturing a cement for old buildings: Heat, while stirring, a concentrated solution of magnesium chloride until it begins to thicken. When cool the concrete mass is finely crushed. The powder is mixed with calcined magnesia and acetate of lead or other pulverized lead salt. For use it is made into a paste with water.—Vic Scientific.

DATE OF PUBLICATION.

Architects, engineers, municipal authorities and others are reminded that the **CONTRACT RECORD** is printed every Tuesday afternoon, and that advertisements should reach the office of publication not later than 2 o'clock p.m. on that day to ensure insertion in the issue of the current week. Advertisements are frequently received too late for insertion, to avoid which special attention is directed to this announcement.

CONTRACTS OPEN.

MITCHELL, ONT.—The council will borrow \$6,000 for street improvement.

PAISLEY, ONT.—Tenders are asked for building an addition to the Royal Hotel.

BROCKVILLE, ONT.—It is proposed to undertake the construction of granolithic walks.

PARRY SOUND, ONT.—It is said that the Bank of Ottawa will build a \$10,000 block here.

SHELBURNE, ONT.—John Mowat is getting the material on the ground for a brick residence.

VICTORIA, B. C.—Lord Strathcona has given \$5,000 to erect an addition to the general hospital.

SARNIA, ONT.—It is probable that steps will be taken by the town to improve the water supply.

CORNWALL, ONT.—The council are considering the question of pumping the water supply by electricity.

LINDSAY, ONT.—The town treasurer has been authorized to place on the market \$9,000 of debentures.

HALIFAX, N. S.—Harris & Horton, architects, are taking tenders for addition to St. Patrick's Home.

WESTPORT, ONT.—Tenders will shortly be asked for building the new B. & W. railway engine house here.

WATERVILLE, QUE.—Steps are to be taken immediately to put in a system of waterworks and sewerage.

GALT, ONT.—An American capitalist has submitted a proposition to establish a large beet sugar factory here.

ALBERT, N. B.—A movement has been started to construct a waterworks system. The cost is estimated at \$10,000.

HIBBERT, ONT.—A by-law has been passed by the township council authorizing the construction of the Hooper drain.

WATFORD, ONT.—Paul Kingston invites tenders up to 31st inst. for cleaning out and repairing the 10th concession drain.

SHAWVILLE, QUE.—Work will shortly be commenced on the proposed waterworks system, for which \$40,000 has been voted.

WOODSTOCK, ONT.—Tenders are asked by George Campbell up to 23rd inst. for construction of Young's drain in West Zorra.

SYDNEY, N. S.—Hopson Bros., architects, are preparing plans for a residence for Mr. Shields, manager of the Dominion Coal Co.

CHESLEY, ONT.—C. M. Stewart, recvè, invites offers up to September 9th for purchase of 112,442.51 twenty-year four per cent. debentures.

HARRISTON, ONT. Bids are asked by W. D. Ebbles, town treasurer, up to September 5th, for purchase of \$3,748.72 twenty-year debentures.

ANGUS, QUE.—The tenders opened last week for iron bridge at Laflotte's Crossing were found to be too high and no action has been taken.

MILLE ROCHES, ONT.—Tenders are wanted by W. G. Bennett by 28th inst. for erection of chancel and vestry to Christ church at Moulinette.

ROCKLAND, ONT.—Tenders are asked up to 25th inst. for erection of Presbyterian church. Plans at the office of J. P. MacFaren, Ottawa.

BROMPTON FALLS, QUE.—Tenders close this week for hydraulic development work and building of pulp mill for the Brompton Pulp & Paper Co.

BRANTFORD, ONT.—Thomas Conberry is building a brick residence on Brock street and John T. Ham a double brick residence on Buffalo street.

OWEN SOUND, ONT.—Bids are asked by the town treasurer up to 6 p.m. of the 26th inst. for purchase of \$46,216.32 local improvement debentures.

QUYON, QUE.—William Harrison invites tenders up to 25th inst. for erection of school house here. Plans at office of M. C. Edey, architect, Sparks street, Ottawa.

FORT WILLIAM, ONT.—It is said to be the intention of the management of the Canadian Northern Railway to build a summer hotel at Pither's Point to cost \$20,000.

ELORA, ONT.—A by-law granting a bonus of \$5,000 to the Bissell Mfg. Co. to establish a factory here to manufacture harrows and land rollers was carried last week.

COLLINGWOOD, ONT.—A by-law authorizing an expenditure of \$15,000 for improvement and extension of the waterworks and electric light systems was carried here on 16th inst.

NIAGARA FALLS, ONT.—James K. Paisley, late of the Iroquois Hotel, is said to have purchased the site of the old Clifton House with the intention of erecting a modern hotel thereon.

SANDWICH, ONT.—It is said that the Saginaw Lumber & Salt Co. will commence to build their saw mill here at once. Major Rothwell is forming a company to erect a beet sugar factory here.

HAMILTON, ONT.—J. A. Armes is building two brick dwellings on Reginald street, to cost \$1,800.—W. W. Lachance has secured a permit for a brick warehouse on Cathart street for E. T. Wright & Co., to cost \$5,800.

BARRIE, ONT.—John Dickinson, brick warehouse on Cathart street Agricultural Society, invites tenders up to August 23rd for construction of a half mile track and tearing down and reconstruction of horse and cattle sheds.

KINGSTON, ONT.—The Calvin Co., of Garden Island, have decided to build a new tug.—The Kingston & Pembroke Railway Co. purposes building a branch line from Sharbot Lake to Palmer's Rapids, a distance of forty miles.

ST. LOUIS, QUE.—It has been decided by the council to call for tenders for the work of extending the water supply to the north side, according to plans prepared by E. Vanier, C.E. The work will cost about \$60,000.

MAGOG, QUE.—Mr. Archer, architect, of Sherbrooke, has prepared plans for proposed town hall and fire station. A by-law providing for a loan of \$40,000 to pay for the building and wipe out civic indebtedness will be submitted to the ratepayers.

LONDON, ONT.—H. C. McBride, architect, is calling for tenders for a residence on Colborne street for J. B. Smallman.—Herbert Matthews, architect, is preparing plans for a residence in Bellefontaine, Ohio, for Dr. A. Logan.—The question of construct-

ing a pavement on King street is still under consideration.—Moore & Henry, architects, are taking tenders up to 23rd inst. for residence on Richmond street.

VANCOUVER, B. C.—As soon as plans are decided upon tenders will be invited for the erection of the Carnegie library building.—It is stated that Armstrong & Morrison will erect new works on the smelter site.

SAULT STE. MARIE, ONT.—It is understood that the Clergue Co. will build a dock at Colborne Island and a railway to the limestone quarries.

LASTOWEL, ONT.—The Canadian Bent Chair Co. will likely let the contract for their new factory this week.

QUEBEC, QUE.—Tenders close 27th inst. for supply of cast iron water pipes for city.—Satisfactory progress is being made looking to the erection of a large pulp mill at Sept Island, on the north shore of the St. Lawrence, Meaney & Co., of Toronto, being the promoters.

PETERBOROUGH, ONT.—The by-law granting a free site and a bonus to the Cordage Co. was carried here last week.—The company will erect the necessary buildings at once, the plans for same having been prepared by William Blackwell, architect. They will cost about \$60,000.

PEMBROKE, ONT.—A by-law to raise \$18,000 to purchase a waterworks pump, construct drains, and other improvements, was carried here last week, but the by-law to raise \$12,000 to purchase a stone crusher and road roller and construct a permanent roadway on Pembroke street was defeated.

STRATFORD, ONT.—The by-law to issue debentures for \$5,000 to complete the sewage disposal system will be submitted to the ratepayers on September 5th.—John A. Foster, representing Cleveland capitalists, was here last week looking into the question of building an electric railway from Woodstock to Goderich.

OTTAWA, ONT.—The Ottawa Improvement Commission will receive tenders up to 28th inst. for erection of frame storage shed 108x25 ft.—Work will shortly be commenced on the new mill and store house to be built by the Ottawa Oatmeal Co.—L. K. Jones, secretary Department Railways and Canals, invites tenders up to 23rd inst. for extending the Bissinette culvert of the Soulanges canal and filling over same. Plans at office of the superintending engineer, Coteau Landing.

WINNIPEG, MAN.—The city council has given notice of its intention to construct the following works: Asphalt pavement on Notre Dame avenue, from Portage avenue to Charlotte street, cost \$21,050; macadam pavements on Austin street, cost \$5,630, Roslyn Place, cost \$570, Nassau street, cost \$1,755, River avenue, cost \$4,491; asphalt pavement on Alexander avenue, cost \$6,130, and on Calany avenue, cost \$13,190; sewer on Nassau street, cost \$4,847, and on Aikens and Manitoba avenues, cost

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\$2,550.—Tenders close 8 p.m. of 22nd inst. for supply of from 50 to 250 tons of asphalt for street pavement.

TORONTO, ONT.—E. R. Wood, manager of the Central Loan & Savings Co., will build a residence on the west side of Queen's Park, near Bloor street, to cost \$19,000.—George R. Harper, architect, Yonge street arcade, invites tenders up to 24th inst. for alterations and additions to the Toronto College of Music, 14 Pembroke street.—A. R. Denison, architect, is preparing plans for improvements to the western crematory.—The Board of Control favors the adoption of the city engineer's report regarding the disposal of sewage.—The Ontario Wind Engine Co. are endeavoring to secure a site at corner of Pacific avenue and Liberty street for an extension to their factory.—Ald. Cox will introduce a motion in council to build a bridge across the Esplanade at foot of Yonge street.—Building permits have been granted as follows: William Murray, house on Brunswick avenue, cost \$6,000; James McCarl, two-storey attached brick stores, 1452 and 1454 Queen street west, cost \$2,508; Mrs. S. W. Moorhouse, semi-detached brick dwelling, on Smith street, near Broadview avenue, cost \$3,200; W. L. Symons, brick dwelling on Howland avenue near Bloor street, cost \$2,800; H. White, dwelling on Brunswick avenue, cost \$3,500; George Warren, alterations to 96 and 98 Victor avenue, cost \$1,500; Grant-Hamilton Oil Co., two-storey brick factory on Dupont street, opposite Kendal avenue, cost \$3,500; W. J. Hynes, residence, 41 Bleecker street, cost \$3,000.

MONTREAL, QUE.—The Bell Telephone Co. are offering for sale \$200,000 of debentures.—It is understood that plans are being prepared by local architects for the new Board of Trade building.—It is proposed by the city to construct sewers on portions of Aylwin and Christophe Colomb streets.—The plans for the new freight offices and sheds to be built by the Grand Trunk Railway on Chabouillez Square have been approved of. The building will be of brick, 250x50 ft., cost \$40,000.—The trustees of the parish of St. Leo, Westmount, invite tenders up to Friday of this week for erection of church and sacristy. Plans at the office of G. A. Monette, 97 St. James street.—The Terreault Steel & Malleable Iron Co., capital \$200,000, has been organized in this city. A. A. Bernard, M.D., is one of the promoters.—The governors of the Western Hospital are discussing plans for the erection of four new wings, to cost \$25,000 each. The building of a contagious diseases' hospital is also under consideration.—Building permits have been granted as follows: H. Tessier, house, three stories, 45 Durham street, cost \$1,800; Joseph Poutre, 3 houses, two stories, on Grand Trunk street, cost \$1,500; Morcross & Bros., house, one storey, on St. Catherine street, cost \$1,000; Laing Packing & Provision Co., warehouse on Mill street, cost \$12,000 (W.

E. Doran, architect, Heggie & Stuart, contractors), also one packing house, three and a half stories, cost \$28,000; John Ditulio, house, two stories, 298 St. Andre street, cost \$17,000; Wm Villeneuve, house, two stories, 1953 Labelle street, cost \$2,000; L. A. Bernard, house, three stories, 235 Sherbrooke street, cost \$2,000 (A. Contant, architect, Gravel & Favreau, contractors).

FIRES.

Residence of F. X. Frechette, mayor of Wolfestown, Que., loss \$3,000.—Saw mill of E. Isilets at Three Rivers, Que., loss \$10,000, insurance \$500.—Residence of William Campbell at Compton, Que.; loss \$3,000.—Saw mill of the Northern Lumber Co. at Garland, Man., totally destroyed; loss \$8,000, partially covered by insurance. T. A. Burrows, M.P.P., of Winnipeg, is president of the company.—Lobster factory of Comeau & Lowther at Glace Bay, N.S.; insurance \$2,500.—Warehouses of Mayor Clegg at Wingham, Ont.—Creamery at Whitechurch, Ont.; loss \$3,500.—Grist mill at Sarina, Ont., operated by James Parks; heavy loss.—Planning mill of Robert Stewart at Guelph, Ont., damaged to extent of \$4,000.—A fire in Montreal on the 19th inst. destroyed the sash and door factory of D. Gagne & Co., box factory of Holmes & Arpin, and silk factory of Beakman & Co.

CONTRACTS AWARDED.

HINTONBURG, ONT.—The lowest tenderer for new fire hall is Dufur & Dumaine, of Ottawa, at \$12,100.
ST. JOHN, N.B.—The contract for

heating apparatus for high school has been let to J. H. Coughlan, at \$1,340.

KINGSVILLE, ONT.—G. A. Stinson & Co., of Toronto, have purchased \$4,000 school debentures for \$4,030.

GRAND FORKS, B.C. The Republic & Kettle River Railway have awarded the contract for construction.

TORONTO, ONT.—The contract for a steel water pipe across Gerrard street bridge has been given to Aikenhead & Co. at \$3,875.

VICTORIA, B. C.—The tender of John Haggarty for 5,000 cubic yards of rubble sand stone for the Point Ellice bridge has been accepted, price \$2.20 per yard.

OTTAWA, ONT.—J. W. Lefebvre, of Dalhousie street, has secured the contract for the erection of new Catholic church and presbytery at Plaisance, near Buckingham.

SAULT STE. MARIE, ONT.—The Bruce Mines & Algoma Railway Co. have awarded the contract for track construction from Bruce Mines to Rock Lake to Birmingham & McMartin.

BROCKVILLE, ONT.—The James Smart Mfg. Co., of this city, has secured the contract for warming the residence of J. M. Jencks at Sherbrooke, Que., of which S. H. Townsend, of Toronto, is the architect. No. 24 Kelsey warm air generator will be used.

WINNIPEG, MAN.—The contract has been let for new Kilgour Rhymer warehouse on Princess street, to cost \$15,000.—New car sheds for the Winnipeg Street Railway Company have been commenced. The building will be 290x134 ft. and will cost about

Good Roads Machinery Co. (Limited.)

JOHN CHALLEN, Manager, HAMILTON, ONT.

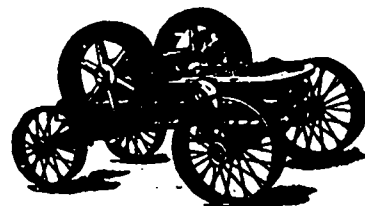
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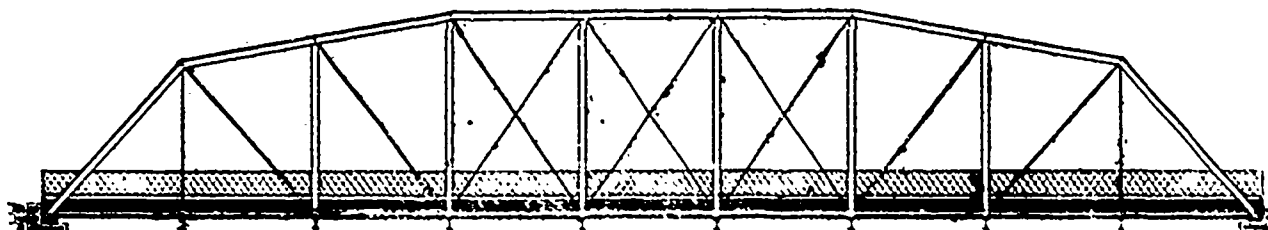
Trolley Pole Brackets; Electric Light Arms; Prison and Jail Cells; Fire Escapes Automatic Fire Shutters and Doors; Iron Sidewalk Doors, Etc.

We stock Bar Iron, Bar Steel, Steel Angles, Channels, Etc.



STONE Crushers, Stone Spreading Wagons, Wheelers and Drag Scrapers, Plows, Steam and Horse Rollers, Road Graders, &c.

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The Hamilton Bridge Works Co., Limited, Hamilton, Canada
STEEL RAILWAY and HIGHWAY BRIDGES
STEEL ROOFS and Every Description of STEEL LATTICE and GIRDER WORK BEAMS, CHANNELS, ANGLES and TEES always in stock.

\$5,000. Ald. D. D. Wood has the contract for masonry, and George Mitchell for the carpenter work

JOINERY NOTES.

After many unsuccessful experiments and trials an alloy of aluminium has been made with which nails, staples, and tacks can be made to compete with copper. Among other advantages claimed for the new material is that it is not affected by the weather and will not deteriorate. It is to be noticed that this quality should recommend the nails for use in laying roofs, lining tanks, etc., and also that, as the alloy is non-corrosive and non-poisonous, the new nails ought to find favor among makers of refrigerators and other articles used for food storage. When the difference in point number and weight is taken into consideration, it is seen that aluminium nails are about 2d a pound cheaper than copper nails. It is not intended to put them in competition with ordinary steel nails.

Of all the trials and vexations that beset the young workman there are none more annoying than the tendency of wood to warp. Perhaps the wood is flat enough when it leaves the dealer, but when required for use it is found as often as not twisted out of all shape. It should not, however, be a difficult matter to cure this. If the wood is in a large piece the convex, or hollow, side should be steamed or moistened a little, and then laid upon a dry floor, holding it down with a smooth, flat board, upon which weights are placed. When quite dry it will be found to have regained its original shape. If the wood is in small piece it can be easily straightened by gently steaming the convex side over a tea-kettle, and then hold-

ing the other side toward the heat until it becomes straight, when it can be left in a press or under weights for a few hours. Almost any warped woods will yield under this treatment.

The employment of alkaline manganates for imparting to light woods in furniture and floors an attractive, uniform and durable walnut brown, has been highly recommended. The action depends upon the decomposition of salt in the pores of the wood, with the separation in them of very finely-divided brown hydrate peroxide of manganese, and an addition of magnesium sulphate to the solution is found to hasten the reaction. In practice the following method is said to be successful. Equal parts of man-

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Artesian Well Pumps
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We have several excellent second hand pumps in first-class condition for water works services at close prices. Send for Catalogues.

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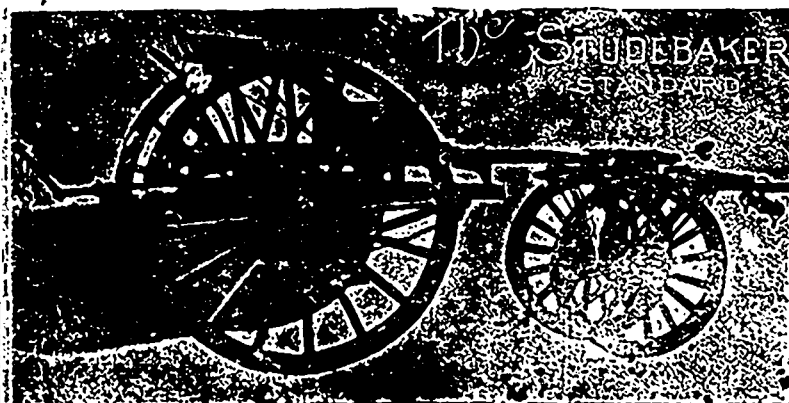
The Canadian Bridge Co., Limited

WALKERVILLE, ONT.

MANUFACTURERS OF

RAILWAY AND HIGHWAY BRIDGES

Composite Turn Tables, Girders, Steel Buildings and Structural Iron Work of all descriptions.



Studebaker Sprinkler

(PATENT IMPROVED.)

Does not clog or get out of order. Greatest width of spray can be graded from driver's seat to any volume. We also make an . . .

IMPROVED VERTICAL SPRAY

. . . for Pavement

Improved Street Sweeping Machine is the Standard of Perfection.

No sweeper so effectually does the work for which it is designed as "The Studebaker." Sweeps Clean. No sweeper is constructed with the same degree of care and mechanical precision. Wears Well. "The Studebaker" has the smallest possible number of working parts, and has less than any other sweeper made. It is free from unnecessary complications. With reasonable care it gets out of order. Send for complete descriptive catalogue.

Geo. Heaman, Mnfr., London, Ont.

ganate of soda and crystalized epsom salts are dissolved in twenty to thirty times the amount of water, at about 144 degrees, and the planed wood is then brushed with the solution, the less the water employed the darker the stain, and the hotter the solution the deeper it will penetrate. When thoroughly dry, and after the operation has been repeated if necessary, the furniture is smoothed with oil, and finally polished, the appearance being then really beautiful. Before smoothing, however, a careful washing with hot water will have the effect of preventing the efflorescence of the sulphate of soda forming. In the treatment of floors, the solution may be employed boiling hot, and, if the shade produced is not dark enough, a second application of a less concentrated solution is made; after it is quite dry it is varnished with a perfectly colorless oil varnish. On account of the depth to which the coloring solution penetrates, a fresh application is not soon required.

CARE OF BLUE PRINTS.

Those who have experienced the annoyance of having blueprints discolored and blurred by rain, droppers in mines, and moisture in general, will appreciate a simple and inexpensive method of waterproofing the prints which renders them completely impervious to weather and water, says "Mines and Minerals." The waterproofing medium is refined paraffin, and may be applied by immersing the print in the melted wax, or more conveniently as follows: Im-

merse in melted paraffin until saturated a number of pieces of an absorbent cloth a foot or more square, and when withdrawn and cooled they are ready for use at any time. To apply to a blueprint, spread one of the saturated cloths on a smooth surface, place the dry print on it with a second waxed cloth on top, and iron with a moderately hot flat-iron. The paper immediately absorbs paraffin until saturated and becomes translucent and highly waterproofed. The lines of the print are intensified by the process, and there is no shrinking or distortion. As the wax is withdrawn from the cloths, more can be added by melting small pieces directly under the hot iron. By immersing the print in a bath of melted paraffin the process is hastened, but the ironing is necessary to remove the surplus wax from the surface, unless the paper is to be directly exposed to the

weather and not to be handled. The irons can be heated in most offices by gas or over a lamp, and a supply of saturated cloths obviates the necessity of the bath.

BUSINESS NOTES.

Caty & Goyette, carpenters, Montreal, have registered partnership.
 Elford & Smith, brick manufacturers, Victoria, B.C., have been succeeded by the Victoria Brick Co.
 Brader & McNaughton, contractors, Ottawa, are reported to have made an assignment to William A. Cole. The firm were contractors for the canal for the Metropolitan Electric Co.

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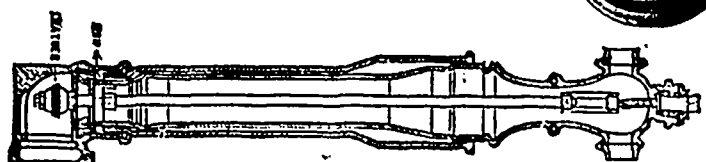
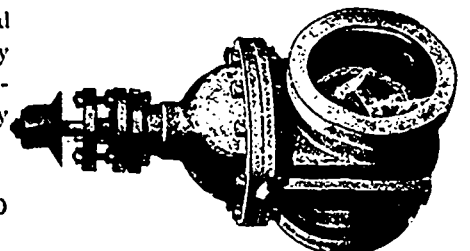
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MUNICIPAL DEPARTMENT

WINNIPEG SOFTENING PLANT.

The city of Winnipeg has recently installed a water-softening plant, a description of which will be of interest to other municipalities.

The plant is located at the new waterworks at Logan avenue and McPhillips street, close to the engine house. It is a building of irregular shape, approximately 175 feet long by 70 feet wide. The water comes from an artesian well 17 feet in diameter and about 35 feet deep. The water is drawn from this well by a compound pumping engine, which pumps it to the softening plant. The softened water flows into a reservoir. In the process of softening water lime is the chief material used. The lime is shipped to Winnipeg in box cars. These cars are run in on a spur track, and unloaded into the most northern portion of the building into a room called the lime storage room, which is walled off and perfectly dry, so that in case of any leakage of water into the building no fire would result, the room being either stone or brick on all sides. The lime is first taken from this room and weighed out in batches of about four hundred pounds. It is then placed upon a slacking bed in the lime room, where it is flooded with hot water, causing the lime to slack quickly. After the lime has been thoroughly slacked and made into a thick mixture it is allowed to slowly enter the mixing well, where more water is added, and it is stirred continuously with a paddle driven by power, until the contents of the well is a uniform mixture. The power is obtained from a twelve horse power vertical engine, which runs the paddle and also a centrifugal pump which is connected with this cream of lime, mixing well, and pumps the cream of lime up into the bottom of either one of the lime water tanks located out in the main room of the building. This cream of lime has to be made and pumped up about every two hours.

THE PROCESS.

The water as stated above is pumped by the small engine from the well into the softening plant up to a weir-box, which is a rectangular wooden box some 14 feet long and 2 1/2 feet deep, located at the very tiptop of the building. The hard water on entering this box is automatically divided into two streams, one stream,

containing about 20 per cent. of the whole quantity, passes down an 8-inch pipe into the bottom of two lime tanks, and slowly rising up through the lime in the bottom of the tanks is converted into lime water, and passes out through an 8-foot pipe near the top of these lime tanks, and rejoins the 80 per cent. of original hard water. These two streams come together in the baffle channel, which is located a little to the south and under the weir chamber. Here the lime water and the hard water are most thoroughly mixed and flow down through two pipes to the east and west reaction tanks. These pipes deliver the mixture of hard and lime water into the very bottom of the large tanks where a rotary motion mixes the now softening water with the heavy sludge in the bottom of these reaction tanks. The water slowly rises in these large tanks and on account of the heaviness of the precipitate the water slowly becomes clearer as it approaches the top. It is drawn off from the top of each of these reaction tanks by slotted pipes, supported by galvanized barrel floats, which causes the drawing off pipes to lower or rise as the

water fluctuates slightly in the reaction tanks.

The lime tanks are 14 feet in diameter and 18 feet deep. The reaction tanks are 30 feet 6 inches in diameter and 20 feet in depth. The water on being drawn off from the top of the 30 feet or softening tanks passes to the filters and through these to a masonry reservoir.

THE FILTERS.

The filters are seven in number and consist of a certain cast iron and steel frame which hold eighty-one wooden rings or plates, which are made of seasoned maple. These filter plates have a certain grille work. Between each of the eighty-one plates are placed two cloths, which are held together with a cloth collar. After the

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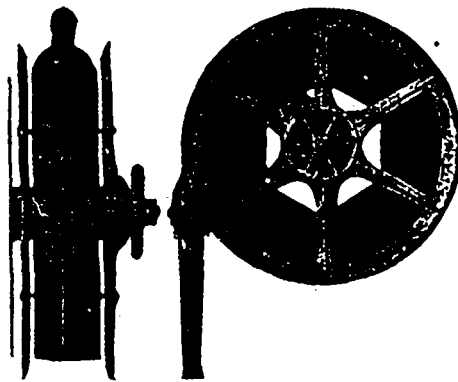
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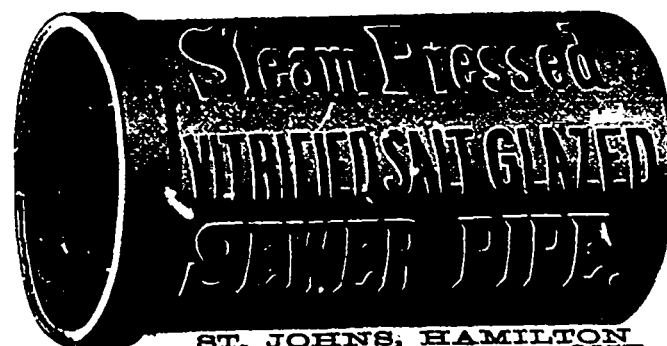
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cloths are put in place and carefully adjusted there is a powerful screw with a long wrench by means of which these plates are screwed together and rigidly held, and the water entering into the filter has to pass through the cloths in order to get out of the filter. Each one of these plates within itself is a small compartment, the walls of which are cloth, and as the water is under pressure of about seven pounds, and the cloth is not water proof, the water passes through the cloth and deposits on the surface whatever small amount of chalk or carbonate of lime, together with a small amount of magnesia, the water may contain. The cloth is of such close texture that it is impossible for any sediment or precipitate in the water to get through, therefore, the water coming from the filters is absolutely clear and bright.

These filters run two or three days before it is necessary to clean them. The cleaning is done by unscrewing the press and taking out the cloths which are then dropped into a small tank, and the bulk of the precipitate or chalk which clings to the cloths is immediately washed off. The cloths are then taken from the tank and placed in an ordinary rotary washing machine run by power from a shaft in the lime room. The washing machine holds about twenty-five or thirty cloths and takes about five minutes to thoroughly wash this number. The cloths are then removed and hung on a rack, and are soon ready to be put back into the filters. There are a large number of cloths provided so that as soon as those having the precipitate upon them are taken out, clean cloths are put in.

The water which comes from the filters passes into a concrete reservoir about 45 feet wide, 75 feet long and 15 feet deep. There is a pipe located in the bottom of this reservoir, which connects with the large engine and through this the softened water is drawn to be pumped to the city.

On account of the large volume of cold water in the building the temperature of the air either in winter or summer, varies only from about 55 to 65 degrees. The exposure of the water in the softening plant is of such duration that it leaves the plant practically as cool as it enters it.

The saving in soap and the fact that water-backs of ranges will not become clogged up at all or out slightly, and that the boilers throughout the city which use the city water will gradually become clean and stay clean, should fully repay the citizens for the additional cost, which will probably not exceed three cents per thousand gallons.

The plant is the largest water softening plant in the world, and is the first in the western hemisphere for a municipal waterworks. The first plant of this kind for municipal waterworks was built at Southampton, England, and has a capacity of 600,000 gallons per day less than the Winnipeg plant. There was far more trouble experienced in getting the Southampton plant running and in proper shape than was ever experienced at Winnipeg, notwithstanding that the problem of softening water in Winnipeg was far more difficult.

MUNICIPAL COAL DEPOTS.

Mayor Howland, of Toronto, has sent the following letter in reply to the circular sent out by Mayor Morris, of Ottawa, regarding the establishment of municipal coal depots:

"I am in receipt of your circular letter of the 16th, for which I thank you. It is evident that you reach the possibilities of Canadian monopolies. The question raised by you is an important one, and will be a proper subject for discussion soon or later. The only question of policy is whether we should not endeavor to limit the business of the first meeting to one or two pressing and important points upon which there may be expected to be considerable unity, so that they may be disposed of in an effective manner. Other suggestions may, perhaps, be received from other quarters, and in due time I propose to submit a programme for the present meeting about which I shall be glad to consult you. I may say that there every appearance that the conference will be successful as a representative meeting, favorable replies having been received from Galt, Brockville, Berlin, Perth, Westmount, Brampton, John, N.B., New Westminster, B.C., London, Cornwall, Port Arthur, Fredericton, William, Winnipeg, Chatham, and other places."

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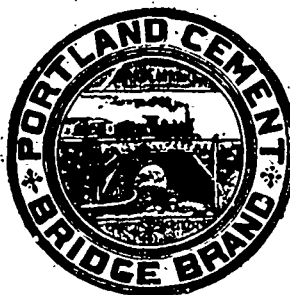
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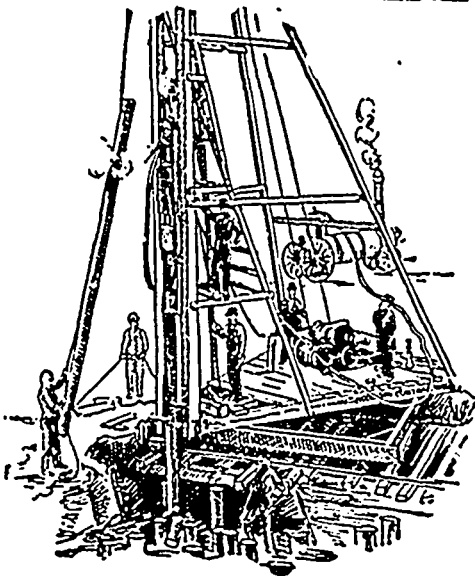
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