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# CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF

PUBLIC WORKS • TENDERS • ADVANCE INFORMATION • AND MUNICIPAL PROGRESS

EVERY THURSDAY

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. 8.

SEPTEMBER 23, 1897

No. 34.

## THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY THURSDAY

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

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Architectural practice of Hewitt & MacLaren, including office fixtures and good will, in the City of Brantford (18,000 population). Splendid opportunity for a young man. HEWITT & MACLAREN, Box 417, Brantford, Ont.



## NOTICE TO CONTRACTORS

Tenders for Concrete Walks and a Sewer

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

WEDNESDAY, SEPTEMBER 29TH, 1897,

for the construction of the following works—

### CONCRETE WALKS

On College Street, south side, from Missou Avenue to Elizabeth Street.  
On Elizabeth Street, east side, from College Street to south limit of Sick Children's Hospital.  
On Missou Avenue, west side, from College Street to south limit of Sick Children's Hospital.

### RELIEF SEWER

On Gwynne Avenue, a lane, and on Dufferin Street.

Specifications may be seen and forms of tender obtained, at the office of the City Engineer, Toronto, on and after Wednesday, Sept. 22nd, 1897.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 2 1/2 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 fide signatures of the contractor and his sureties, or they will be ruled out as informal.

Lowest or any tender not necessarily accepted.

JOHN SHAW, (Mayor),  
Chairman Board of Control.

City Hall, Toronto, Sept. 25th, 1897.

## \$15,000.00 OF THE Village of Chesley School Debentures

Sealed Tenders will be received by the undersigned up to Six o'clock p. m. on FRIDAY, THE FIFTEENTH DAY OF OCTOBER, 1897, for the purchase of the above mentioned debentures.

These debentures are issued on the instalment plan, extending for 30 years from the 1st day of December, 1897. Interest payable yearly at the rate of 4% per annum. The lowest or any tender not necessarily accepted. For further particulars apply to

JOS. McNEIL,  
Municipal Clerk.

J. M. STEWART, M. D., Reeve.



## TO PLUMBERS AND GAS FITTERS

Notice is hereby given that the time for receiving tenders for the electric and gas fixtures required for the new City Buildings has been further extended until on on FRIDAY, THE 1ST DAY OF OCTOBER NEXT.

JOHN SHAW, (Mayor),  
Chairman Board of Control.

Toronto, September, 1897.

## Town of Windsor

## TENDERS FOR DEBENTURES

Tenders addressed to the Town Clerk will be received at the Town Office, Windsor, N. S., up to 12 o'clock (noon), SATURDAY, 2ND DAY OF OCTOBER, 1897, for the purchase of Debentures of the Town of Windsor, N. S. to the amount of Thirty Seven Thousand Dollars, (\$37,000).

These debentures are to be issued under authority of Chapter 67 and 68 of the Acts of the Legislature of Nova Scotia, passed in 1897.

The debentures will be dated October 1st, 1897, and will bear interest at the rate of four (4) per cent. per annum, payable half yearly. \$35,000 for School House will be issued in sums of \$5,000 each, and will run for Twenty Five (25) years. \$2,000 for Fire Building will be issued in sums of \$500 each, and will also run for Twenty-Five (25) years.

The money will be required as follows, viz:

\$7,000	on the 15th Oct., 1897,	for School House.
2,000	" 7th Nov., "	" Fire Building.
5,000	" 1st May, 1898	" School House.
5,000	" 1st June, "	" "
5,000	" 1st July, "	" "
5,000	" 1st Aug., "	" "
5,000	" 1st Oct., "	" "
3,000	" 1st Nov., "	" "

\$37,000

By order of the Council,

JAMES G. GELDERT,  
Town Clerk.

Windsor, N. S., Sept. 16th, 1897.

## TENDERS

Will be received till noon on TUESDAY, SEPTEMBER 28TH, for the several works required in the erection of a small Residence in South Parkdale for Mr. Geo. A. Long.

The lowest or any tender will not necessarily be accepted.

A. FRANK WICKSON, Architect,  
Bank of Commerce Building.

## CONTRACTS OPEN.

PARRY SOUND, ONT.—J. Clark will erect a residence on Gibson street

ANDOVER, N. B.—John Currie will erect a new residence in the spring.

FERGUS, ONT.—The sum of \$3,000 will be spent in improving the school building.

PERTH, ONT.—St. John's congregation will erect a vault in the Roman Catholic cemetery.

BRACEBRIDGE, ONT.—The foundation of a new Presbyterian church has been commenced.

MELROSE, ONT.—The Methodist congregation are preparing to build a new parsonage.

COLDWATER, ONT.—George Gray contemplates building on his property on Gray street.

RENFREW, ONT.—Mr. Roberts, whose sash and door factory was destroyed by fire, is rebuilding.

VANCOUVER, B. C.—W. Pellet-Harvey is negotiating for the erection of sampling works in this city.

WOODSTOCK, ONT.—The Gas Company contemplates making extensive additions to their plant.

RAT PORTAGE, ONT.—A new brick block will be erected for Johnson & Co., hardware merchants.

BARRIE, ONT.—The county council have decided to build the opera house destroyed by fire recently.

CLINTON, ONT.—The executors of the Staveley estate have accepted plans for a new building, to cost \$4,000.

NELSON, B. C.—Mr. McCulloch, city engineer, has submitted plans to the city council for a sewerage system.

LEAMINGTON, ONT.—Gardiner Bros. & Company will shortly commence the erection of a store house, 200 x 35 feet.

TILSONBURG, ONT.—A by-law to establish an electric fire alarm system was recently defeated by the ratepayers.

LITTLE BRITAIN, ONT.—J. B. Weldon, of this village, wants tenders by the 25th inst. for building a vault at the town hall, Oakwood.

VICKERS, ONT.—Tenders are wanted by J. W. Vickers for bricking, shingling, seating, etc., of Methodist church four miles west of Durham.

CORWHIN, ONT.—Tenders will be received by James Hume or A. McKenzie for building two stone culverts on the ninth concession of Puslinch.

EDMONTON, N. W. T.—W. Pugsley is here negotiating on behalf of an eastern

syndicate for the construction of a railway from this place to Athabaska.

**HALIFAX, N. S.**—The Board of Trade have passed a resolution in favor of the early construction of a line of railway between Halifax and Yarmouth.

**FORT WILLIAM, ONT.**—The electors have decided to build a waterworks system, to be under the control of a commission appointed by the people.

**BROCKVILLE, ONT.**—The prospects of an electric street railway in Brockville are bright. It is stated that a company will start operations early next spring.

**GLENCOE, ONT.**—Geo. Wilson, municipal clerk pro tem, will receive tenders until Saturday, 2nd October, for electric street lighting for a term of five years.

**NIAGARA FALLS, ONT.**—J. T. Clark has prepared plans for a brick veneered residence for J. P. Brown.—John Zybach will shortly commence the erection of a brick store, 20 x 40 feet.

**GUELPH, ONT.**—More applications have been received at the Ontario Agricultural College than can be accommodated, and it is probable that an extension to the buildings will be built.

**MAGOG, QUE.**—A number of the buildings destroyed by the recent fire are being rebuilt. A. Shedrick, jeweller, will build a brick block this fall. The D. C. M. Company purpose erecting two dwellings.

**BERLIN, ONT.**—The premises occupied by Misses Snowdon and Fehrenback are to be replaced by a modern three story building, to be built by the Brethaupt Estate. Tenders for erection will be invited at once.

**PEMBROKE, ONT.**—The survey of the Pembroke Southern Railway from Golden Lake to this town has been completed. The company have not yet decided whether they will proceed with the work this fall or wait until spring.

**WINDSOR, ONT.**—Joseph DeGurse, chief engineer of the Lake Erie & Detroit River railway, will receive tenders until 6 p. m. Thursday, September 30th, for dredging, sheet and spring piling, constructing piers, slip dock, etc., at Port Stanley.

**FREDERICTON, N. B.**—Mr. Paul Weatherbee, Chief Architect of the Militia Department, has made an inspection of the military buildings in this city. It is understood that among other improvements a system of hot water heating will be introduced.

**WOODSTOCK, N. B.**—Prospects are favorable to the erection of a new public library building in this city. The sum of nearly \$20,000 is already promised. Among those favorable to the scheme are Rev. C. T. Phillips, Dr. Chapman, G. L. Holyoke and R. B. Jones.

**SHERBROOKE, QUE.**—Mr. J. M. Duggan, of the Dominion Bridge Co., has inspected the East Sherbrooke bridge, and will make a report and supply estimates in a few days. His opinion is that a bridge with a 30 foot roadway would cost between \$12,000 and \$13,000.

**ST. THOMAS, ONT.**—The city council has decided to submit two by-laws to the ratepayers, one to purchase property, corner Talbot and George streets, and erect thereon a \$30,000 city hall, and the other to raise \$10,000 to purchase the Ellison property for the same purpose.

**HULL, QUE.**—Surveys are being made of the Pontiac and Pacific Junction extension from Aylmer to this place. Mr. Beemer hopes to commence operations early next month.—The by-law to provide the sum of \$53,000 for waterworks extension has been carried by the ratepayers.

**ST. JOHN, N. B.**—Mr. H. J. McGrath recently inspected the I. C. R. round house, and it is likely that new engine pits will be put in.—A. Cushing & Company has made a proposition to the City

Council to erect a pulp mill, at a cost of \$150,000. The city council have considered the proposition favorably.

**KINGSTON, ONT.**—The by-law granting \$35,000 to the Montreal Transportation Company for the erection of an elevator was carried last week.—The Wortman & Ward Manufacturing Company, of London, want a bonus to locate in this city. The Board of Trade will recommend the council to grant a free site.

**OTTAWA, ONT.**—It is rumored that the Rideau street convent has been purchased with a view to its conversion into a large hotel.—G. M. Bayly, architect, will receive separate or bulk tenders until noon on the 29th inst. for the erection of a block of stores on Bank street for H. H. Brennan.—E. L. Horwood, architect, has taken out a permit for the erection of the Massey Harris building, corner of Sparks and Kent streets. The building will be of brick, two storeys, 50x80 feet, cost \$9,000.—Messrs. F. R. Balch, M. J. Peppard and H. F. Balch, contractors for the Ottawa and New York railway, were recently in the city purchasing supplies.—It has been found necessary to enlarge Zion Congregational Church, of which Rev. Harold Horsey is pastor.—The village of Ottawa East is now discussing the question of sewerage extension. It is probable that at any early date a complete system will be constructed.

**HAMILTON, ONT.**—A. W. Peene, architect, is receiving tenders this week for a factory building for the Hamilton & Toronto Sewer Pipe Co.—A committee has recommended the purchase of another fire engine, but no funds are available for the purpose at the present time. It has been decided to purchase an aerial truck. Patterson & Paisley have leased the Royal Hotel. It is the intention of the executors of the Williams estate to have the building remodelled, at a cost of \$20,000.—Building permits have been granted as follows: A. W. Peene, alterations to A. Alexander's residence, corner Wellington and Simpson streets, cost \$1,500; E. A. Depew, two-story brick dwelling on Gibson avenue, cost \$1,000.—Mayor Colquhoun is desirous of having the construction of the International Radial Railway Company's line to Guelph proceeded with at once.—The Canister Machine Company, of this city, has been incorporated. The promoters are H. C. Hunter, J. D. Wilson, J. J. Scott, Wm. Lees and Thomas Hobson.

**LONDON, ONT.**—The Board of Education have decided to have plans prepared for a two-room building and also for a four-room building, to be erected in the southern part of the city. Building permits have been granted as follows: G. R. Kettle, brick residence on King street, near Maitland street, cost \$1,800; Mrs. Margaret Fowler, story and a half brick residence on Central avenue, east of Colborne street, cost \$1,800; C. Warman, residence, corner George and Cheapside streets, cost \$2,700. Moore & Henry, architects—Plans have been approved by Mr. Chipman, C. E., for the continuance of the South London sewer from the Wharnclyffe road along Bruce street to Edward street, thence southerly.—No. 2 Committee has been given power by the city council to call for tenders for sections L, M, N and O of the sewerage system, the work to be divided into two sections, with the sizes of the sewers changed as follows, viz: Section L, from brick 2x3 feet to 1,908 feet of 2x3, egg-shaped sewer, and 1,210 feet of 1 ft. 10 in. x 2 ft. 9 in., egg-shaped sewer; section M, from brick 1 ft. 10 in. x 2 ft. 9 in. to 3,238 feet of 1 ft. 10 in. x 2 ft. 9 in., egg-shaped sewer; section N, from tile 18 in. to 1,706 feet of 1 ft. 8 in. x 2 ft. 6 in., egg-shape sewer, and 1,222 feet of 18 in. tile sewer, section O, from tile 15 in. to 2,410 feet of 18 in. tile. The

work is to be let in two contracts, and the time for completion of each is fixed at eight months, and if in one contract at twelve months.

**WINNIPEG, MAN.**—It is the intention of the Winnipeg Gas Company to erect a new gas receiver, with a capacity of 300,000 cubic feet. Mr. Stewart is manager of the company.—Mr. Rudolph Hering, C. E., of New York, has presented a lengthy report on the water supply of the city. He recommends that artesian wells be bored, from which, he thinks, a plentiful supply of water could be obtained. Mr. Hering gives the cost of the plant for the different available sources as follows: Artesian wells, \$161,870; Poplar Springs, 17½ miles distant from the city, \$539,290; Winnipeg river, \$1,478,400; Assiniboine river, \$161,130. He says the artesian well project, it will be seen, requires the least outlay, both when the water is softened and when it is delivered in its natural state, except in the case where settling compartments are substituted for large settling basins in the Assiniboine river soft water project. The question of distribution is fully gone into in the report; the cost being estimated on 65 miles of pipe to supply a population of 40,000 persons. The following figures are given: Distributing reservoir, \$45,000; pumping station, \$95,000; distribution pipes, 65 miles, \$457,290; valves, \$28,881; hydrants, \$67,500; meters, \$94,643; storehouse, etc., \$10,000; total, \$808,314; contingencies, 10%, \$80,831; total, \$889,145.—H. McGowan, architect, has invited tenders for an addition to the pork packing house of J. Y. Griffin & Co.—The Committee on Works have recommended to the city council that 37 catch basins be constructed on different streets, at a cost of \$54 each.

**MONTREAL, QUE.**—Plan No. 19 for the improvement of the Montreal harbor has been approved by the Board of Trade council, the corn exchange, and the shipping interests. The plan includes five piers, the longest one 1,200 feet, the shortest 800, and the width 230 feet. The Minister of Public Works has yet to approve of the scheme.—It is understood that the Grand Trunk Railway Company has under consideration the question of erecting a grain elevator at the west end of the harbor.—At the last meeting of the Market Committee, the question of enlarging Bonsecours market was again discussed. It was decided to recommend to council that the Finance Committee be asked to vote the \$50,000 granted by the legislature for extending the market.—The council of St. Henri has passed a by-law to grant a bonus of \$20,000 to the Moseley Shoe Leather Company for the establishment of a tannery there. The electors will vote on the question, and should the decision be favorable work will be commenced at once.—W. E. Doran, architect, is calling for tenders for reparations and modifications of a house on St. Hubert street for W. Strachan.—G. A. Monette, architect, is preparing plans for a residence to be built on Cote St. Antoine road, Westmount.—Mde. J. A. Berthelot is having plans prepared for a private residence, stone front, to be erected on Sherbrooke street. Messrs. Turgeon & Lafreniere are the architects.—A. Prefontaine is preparing plans for a convent to be built at St. Eustache for the Ladies of the Congregation of Notre Dame.—Mr. J. A. Gauthier, of the Grand Central hotel, Sherbrooke, Que., will erect an extension of three stories, with brick front. Messrs. Fournier & Benoit, of this city, are preparing the plans. A new block of six three-story cut stone front residences will shortly be erected on Elgin avenue, Westmount.—It is probable that repairs to the city hall will shortly be undertaken.

**TORONTO, ONT.**—The Methodist Book & Publishing Co. are negotiating for the purchase of property immediately to the

east of their present premises with a view of extending their establishment.—Major John A. Callow has been granted a building permit for a warehouse at 28 and 30 Wellington street west, to cost \$9,000.—The Duryea Motor Co., of Toronto, with a capital of \$250,000, is seeking incorporation. Among the promoters are S. F. McKinnon, wholesale merchant, and G. W. Yarker, broker.—A sub-committee appointed to consider the advisability of establishing a municipal electric light plant has recommended to the council that an electrical expert be employed to make a report thereon.—The city engineer has been instructed to report on the cost of carrying out Harbour park to the new windmill line.—E. B. Jarvis, architect, has prepared plans for a warehouse to be built on York street, south of the Rossin House, for Mr. S. F. McKinnon. Ground has been broken for the foundation.—At a meeting of the House of Industry Board held on Tuesday last, it was stated that the tenders for the new addition were not within the sum voted by \$2,000 or \$3,000, and the architect had been requested to alter his plans in order that the tenders might be within the appropriation.—The offer of Mr. W. J. Gage to build a bathing house if the city would provide a suitable site in the central part of the city was considered at the last council meeting. It was decided to obtain from Mr. Gage some further particulars before taking action.—Building permits have been granted as follows: Lieut.-Governor Sir George Kirkpatrick, two-storey brick addition and other alterations to 215 Simcoe street, cost \$4,000; P. Gafney, 85 Grange avenue, mansard roofed house, cost \$1,200.

#### FIRES.

The Erie & Huron freight sheds at Chatham, Ont., were partially destroyed by fire recently.—The St. Maurice Lumber Company's saw mill at Three Rivers, Que., owned by the Glen Falls Pulp & Paper Mills Company, was totally destroyed by fire on the 17th inst. Loss \$80,000, insurance \$40,000.—McMillan's steam elevator at Emerson, Man., was burned recently. Loss \$15,000.—The cooperage shop of William Wooley & Son at Hamilton, Ont., has been burned, at a loss of \$3,000 on the machinery and \$2,000 on building and stock. The insurance is only \$1,400.—A large portion of the village of Teeterville, Ont., was destroyed by fire on the 15th inst. Among the burned buildings are the Jackson House, George Gardham's residence, The Stratford hotel, J. W. Hetherington's store and dwelling, the Methodist church, and the dwellings of H. E. Thomas, Eli Chambers, Robert Dandy, Mrs. Mitchell and S. Rice.—The foundry of Terreau & Racine, Quebec, Que., has been damaged by fire to the extent of \$15,000.—The cooper shop of the Goldie Milling Co., at Highgate, Ont., was burned a few days ago. Loss covered by insurance.—A large saw mill at Hull, Que., owned by the Hull Lumber Company, was destroyed by fire on Monday last. The loss is placed at \$100,000 and the insurance at \$75,000. The company will likely rebuild.—The residence of Laendre Gatién at Sturgeon Falls, Ont., was burned last week, at a loss of \$1,200.

#### CONTRACTS AWARDED.

GODERICH, ONT.—The contract for the extension of the sewerage system has been let to a Port Huron firm.

TILBURY NORTH, ONT.—Tilbury North council has let the contract to the Stratford Bridge Co., for six steel bridges over Big Creek.

ST. JEROME, QUE.—J. W. Munroe, of Pembroke, has commenced the erection of a brick and stone station here for the G. T. R.

HALIFAX, N. S.—John McInnes has secured the contract for building H. G. Bauld's residence, which will cost \$12,000. Elliott & Hopson are the architects.

BROCKVILLE, ONT.—W. H. Comstock has awarded the contract for heating apparatus for the Central Hotel to Brown & Semple. The outfit will include two No. 8 Oxford boilers and Gurney radiators, and about 10,000 feet of piping.

MONTREAL, QUE.—Resther & Son, architects, have accepted the following tenders for ten houses, thirty tenements, on Mance street, for G. Prefontaine: Masonry, C. Martineau; carpenter and joiner's work, M. Houle; bricklaying, R. Rochon.

OTTAWA, ONT.—The following tenders were received for the Victoria ward market hall: James Strachan, \$2,809; George Ambridge, \$2,882; G. A. Cain, \$2,786; R. Lister, \$2,925. As there is only an appropriation of \$2,500 for the work, the architect, Mr. M. C. Edey, has been instructed to prepare new plans for a two-stall building.

ST. MARYS, ONT.—The following tenders were received for the equipment of the Central creamery. Ballantyne Dairy Supply Co., Stratford, \$3,500; C. H. Slawson & Co., Ingersoll, \$3,525; Robert Whitelaw, Woodstock, \$3,660; Richardson & Webster, St. Marys, \$3,750; Nelson Buzzell, Cowansville, Que., \$4,900; D. Darbyshire, Brockville, \$3,700. The contract has been let to R. Whitelaw.

KINGSTON, ONT.—W. Langford has contract for additions to Hotel Dieu, five storeys, 84x41 ft., with wing 40x35 ft., built of stone, with cut limestone facings. Jos. Connolly, R.C.A., architect, Toronto.—W. McCartney, contractor, is rapidly completing the erection of the new memorial chapel for House of Providence.—Contracts for alterations to store on Princess street for D. A. Weese have been let as follows: Carpentry, P. S.

Brooks, plumbing, Simmons Bros., painting and glazing, T. Milo.

TORONTO, ONT.—The Board of Control last week awarded the following contracts: Six-foot walk on Bloor street, from Yonge to Sherbourne street, Constructing and Paving Company, at 62 cents per foot; four-foot walk on Oxford street, Constructing and Paving Company, at 43 cents; four-foot walk on Parliament street, from Carlton to Winchester street, Constructing and Paving Company; twelve-foot walk on the north side Adelaide, from York to Bay, D. L. Van Vlack, at \$1.76 per foot; six-foot walk on west side John street, from King to Adelaide street, D. L. Van Vlack, at 62 cents; twelve-foot walk on Yonge street, from Bloor to Yorkville avenue, Gardner & Company, at \$2.20; eleven-foot walk on Queen street, south of Berkeley street, Constructing and Paving Company, at \$1.16; Bertie street, Constructing and Paving Company, at 44 cents.—The Board of Control opened tenders on Tuesday last for works in connection with the municipal buildings: The tenders for iron and steel work in connection with the halls were \$3,267, \$2,945, \$3,490 and \$3,350. The contract was let to the Dominion Bridge Co. at \$2,945. For terra cotta and concrete work the tenders were \$7,460, \$7,546, \$7,173, \$7,200 and \$9,080. Page & Company, of Davenport road, secured the contract, at \$7,173. For the clock system, the call was for a tower clock with 20-foot dials and chimes, and 80 pneumatic time clocks. One tender of \$3,358 was received for the tower clock alone without bells, and another of \$7,126 for the clock and bells, with \$1,100 to be deducted if they were not required. From this tender \$750 was to be deducted for work already done in supplying Johnson pneumatic clock tubing. A third tender was for the supply of a tower clock without bells for \$5,575, with bells \$8,578, partially with bells \$6,242, and for

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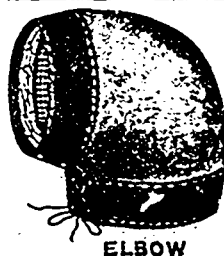
- THE McDONALD BUILDING, Victoria Square, Montreal.
- THE YOUNG WOMEN'S CHRISTIAN ASSOCIATION BUILDING, Montreal.
- THE ROYAL VICTORIA COLLEGE, Montreal.
- THE PROTESTANT INSANE ASYLUM, Verdun, near Montreal.
- THE GRAND HOTEL, St. Hyacinthe, Que.
- THE NEW CUSTOMS-APPRAISERS STORES, NEW YORK, now building, which will consume 5,000 tons.
- THE PARLIAMENT BUILDINGS, OTTAWA, portion of which was recently destroyed by fire and rebuilt.

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80 electric clocks connected with the tower clock \$3,500, or the whole system complete for \$10,017. These tenders were referred to the architect for a report. The elevator tenders were as follows: (1) For five electric elevators, with enclosures, grillwork, etc., complete, \$29,875; (2) five electric elevators, complete, according to specifications, \$44,500, and hydraulic, \$46,500; (3) five electric elevators, complete, with enclosures, etc., \$39,800, hydraulic, \$45,000, or enclosures only for \$13,900; (4) electric, \$44,000, hydraulic, \$48,000. These were also referred to the architect.

QUEBEC, QUE.—Building permits have been granted as follows: Additions to house on Alfred street, one story, mansard roof, 28 x 27 ft., wood, lined in brick, for M. Bourget. Repairs on St. Louis street for Hon. Judge Larne; contractor, J. Laroche. Repairs on Church street for M. Boutin; contractor, F. Mongeon. Additions to a house on Jupiter street, 16 x 25 ft., stone and brick; contractor, J. Archer. Roofing corner of Desjardines and St. Anne streets for G. Hossack; contractor, F. X. Leveille.

#### BUSINESS NOTES.

Metivier & Beaupre, contractors, Montreal, have dissolved partnership.

Corbell & Leveille, planing mill, Montreal, are reported to be financially embarrassed.

A partnership has been registered between Elias Gingras and J. B. Tremblay, under the style of Tremblay & Gingras, contractors, Montreal.

Messrs. W. G. Reid, James S. Shearer, David Walker, Joseph Lamarche and Maurice Perrault have been incorporated as the Canadian Construction Company, Montreal, with a capital stock of \$100,000.

#### RULES FOR MAKING GOOD MORTAR.

Mortar for the plasterer's use should be well made, and the following rules should, says the National Builder, be strictly complied with when making: First, the lime should be thoroughly slaked, and brought to a paste or putty state; second, it should remain in the mortar bed until it is perfectly cool before mixing in the sand and hair; third, good mortar can be used with safety eight or ten days after it is made; but in no case should it be used before it is six days old.

Some authorities say it is best to use mortar for plastering within three or four days after it is first made. They claim that, in mortar which stands ten or more days before using, the lime loses a portion of its strength, and the mortar becomes deteriorated thereby. This, to a certain extent, is true; but, notwithstanding the loss of strength by the lime, and the consequent deterioration of the mortar, every observant plasterer knows that walls coated with mortar made two or three weeks previous to using stand better than those coated with "green" or freshly made mortar. Newly-made mortar, immediately applied, frequently causes the walls to chip, crack, or become mottled. Mortar well tempered, and as well seasoned, works better and cooler than

the hastily-made new mortar, and invariably give, better satisfaction. Colonel Gillmore, quoting from Vicat, and apparently endorsing the statement, says "It was supposed, for many years, that the longer lime was slaked before it was used the better mortar it would make. Recent experiments prove, however, that this is not the case with mixtures of fat lime and sand only. Better results are obtained with such mortars if the paste be mixed with the sand as soon as the slaked lime has become cold, and care should be taken to use no more water, in the process of extinction, than may be required to produce a thick pulp."

In slaking lime, care should be taken that neither too much nor too little water is used. If too much is used, the lime will be "chilled," and loses a part of its strength; if too little, it will "burn," and a portion of it will pass into the bed unslaked and cause trouble there.

As the quality of lime varies in different localities, it is impossible to give the exact proportion of sand to be used to each bushel of lime.

The hair should be mixed with the lime and sand at once, and should never be wetted up a second time. For the first coat on lath it will be necessary to use about two pounds of hair to every bushel of lime slaked, and the mortar should have only a sufficiency of sand in it to keep it from cracking while setting, as it requires to be "pasty" enough to stick firmly to the lath and "clinch" or "bond" securely between and behind them.

In many places the plasterer has also to lath the work he is to finish; when such is the case, he should make it a rule never to have more than  $\frac{3}{4}$  in. key between each lath. Joints should be broken every 16 in., and more frequently if the conditions will admit. If twenty or thirty laths are nailed so that the ends all joint on one stud, it will soon show itself, as the plaster will certainly crack at that point when the studs dry and shrink. In lathing for outside work, if the building has first been boarded it is better to lay the lath on diagonally—say, at an angle of about 45° to the base of the building, and 1 in. apart; then cross these laths again at right angles with another tier, nailing

them on to the first lath, leaving spaces about  $\frac{3}{4}$  in. between them.

This method of lathing is a trifle more expensive (about one-fifth) than the ordinary way, but it insures good work, and if the frame of the house is well put together and firm, so that the wind will not rack it, the plastering will stand longer than either clapboards or siding for outside work. This method of lathing is extensively adopted in the Province of Quebec, and the Maritime Provinces, and when a little rye whiskey is used in the making of the mortar—say, about one gallon to every twenty bushels of lime, into which it is thoroughly mixed—much strength and durability will be added. Many buildings which are known to have been plastered more than fifty years ago are as good now as when the work was first completed, where these precautions were adopted.

#### PAINTING WITH COMPRESSED AIR.

It begins to look as if the compressed air nozzle was to become the most used tool in the painter's trade. Recent expressions on the subject of painting freight-cars by compressed air are practically unanimous in favor of that method. The painter's trade is an exceedingly conservative one, and it is safe to say that if the new method had not shown a material saving in the total cost over the old system of application of paint by hand-brushes, it would never have been adopted so extensively in this field in such a short time.—Engineering News.

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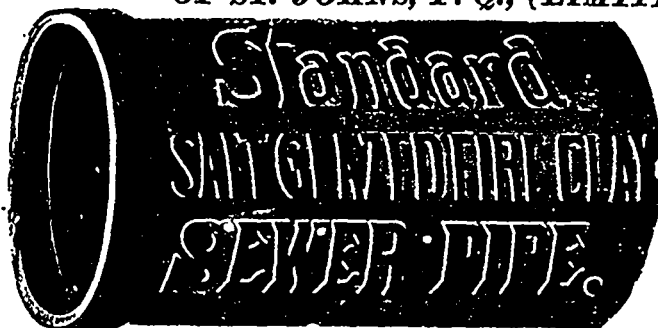


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## PURIFICATION OF WATER BY METALLIC IRON.

(Concluded.)

The water, on first entering the cylinder, strikes against a circular baffle plate, which directs the stream towards the shell and prevents it passing through axially. As the cylinder rotates, the curved shelves scoop up the charge of iron and shower it down through the water as they reach the top, thus causing a constant falling of the iron across the current of the water. Practically, it is a process by which the iron is filtered through the water. The outlet pipe terminates inside the cylinder in an inverted bell or hood, coming as low down as the shelves will permit. The object of this contrivance is to prevent any iron from being carried out of the cylinder by the current. The revolving purifiers are made in fourteen sizes, distinguished by the diameter of their inlet pipes, from 1 in. to 14 in. In large installations, batteries of purifiers are employed, placed side by side, very frequently all discharging into a common outlet tank.

Mr. Anderson, who has presented a considerable mass of evidence showing the value of the process for the purification of water supplies, states that the effect of the agitation with iron upon the water is simply to cause a small quantity of iron—from one-tenth to one-fifth of a grain per gallon—to be dissolved, or, rather, held in solution, in the form of ferrous hydrate, which quickly changes under the influence of the air to ferric hydrate, which is precipitated in particles more or less coarse, according to the nature of the water to be treated. At Antwerp and other places, where the earliest applications of the process were made, a tank or reservoir existed before the purifiers were applied, and was consequently utilized. In more recent plants, where the works have been designed especially for the process, the expensive settling-tank has been replaced by a trough or flume, along which the water runs on its way to the filters.

From the settling arrangement, the water passes on to the filters, which are sand-beds of ordinary construction, and call for no particular remark, except that the sand be neither especially fine nor of great depth. Through the filters, the water passes at the rate of 80 to 100 gallons per square foot per 24 hours, and emerges pure and free from any trace of iron.

A very important feature of the iron process consists in the rapidity with which perfect results are secured. A few years ago the Massachusetts State Board of Health, after an elaborate series of experiments, showed that an ordinary sand filter would not remove any considerable number of microbes in water until its surface had become sufficiently blocked by a layer

of matter (or filth destroying bacteria), separated from the water being filtered. To obtain this result it was necessary to work the filters for several days, delivering all the while imperfectly-filtered water, until this layer had time to form. With the iron process no such thing occurs. The filter yields, from the first, water containing the minimum number of germs. We know that any accidental disturbance of the surface of the sand of an ordinary filter seriously impairs its micro-biological efficiency, but by the iron process the filters are wonderfully tolerant of such disturbances. After working one of these filters a fortnight, the film was purposely broken up by dragging a chain over the surface of the sand. One hour after this operation, a sample of the water was taken and found to yield only 40 microbes per cubic centimetre, and subsequently, hourly samples yielded from 31 to 67 microbes per cubic centimetre. The original water, before filtration, contained from 20,000 to 100,000 microbes per cubic centimetre.

The following is a history of the reception of the iron process in France:—About five years ago the process attracted the attention of the largest and most influential water-company in France—the Compagnie Generale des Eaux, of Paris. After having investigated the process at the places where it had already been adopted, the Compagnie des Eaux wished to have further proofs, and the Revolving Purifier Company, which was formed in 1880 to work the process, undertook to demonstrate its efficiency in dealing with the water of the Seine, taken below Paris, at the pumping-station of the waterworks of Boulogne-sur-Seine, close to the Pont de Sevres, not far from the outfall of the sewers. Accordingly, a complete plant was erected, capable of dealing with 100,000 gallons of water in twenty-four hours, consisting of a 6 in. purifier, delivering into a long settling-trough and filters to correspond. This plant ran for some months, and amply proved the correctness of all that had been claimed for the process to the complete satisfaction of the Compagnie des Eaux, who closely followed the trials, and made all requisite analyses. The next step was the application of the process to the whole of the water pumped from these works. The trial plant was removed, and two 10 inch purifiers erected, capable of treating rather more than 1,000,000 gallons daily. The results have been most gratifying. The Seine water at the point of

intake, though not very heavily loaded with organic matters, is very rich in microbes, the average result of some analyses indicating the presence of nearly 400,000 per cubic centimetre. Dr. Miquel, the eminent head of the bacteriological department of the Observatoire de Montsouris, was commissioned to investigate the working of the process here, and during the period from February to July, 1893, took twenty-two sets of samples for analysis. The purified water was, on each occasion, compared with the spring water of the Vanne, which is considered to be the model of what a drinking water should be. The result of his analysis is surprising. Of the 22 samples of purified water examined, no less than 11 were either equal or superior to the water of the Vanne on the same date, as regards bacterial purity, while the average of the whole set of samples of purified water gave a figure which does not greatly exceed the average of the Vanne water. The average number of microbes removed was 99.57 per cent. of those existing in the original water. The Boulogne works being the first really designed throughout to work the Anderson process, it was of great interest to see how the working expenses came out. It is satisfactory to find that the cost of purification is very low. The following detailed figures give the working expenses for one year:—

Description.	Working Expenses.	
	Francs.	Dol.
Iron (at 7 francs per 100 kilograms)...	350	67.55
Cleaning decanting reservoirs.....	180	34.74
Cleaning filters.....	750	150.54
New sand.....	300	57.90
Coal, oil, waste, etc.....	1 400	270.20
Total.....	3,010	580.93

Installations have also been made at Libourne, Nice, Monaco, Mentone, and Villefranche-sur-Mer. The total output of the Nice works ranges from 6,000 to 8,000 cubic metres a day, or from 1,300,000 gallons to 1,700,000 gallons. The installation works well, and the purity of the water is all that can be desired.

Early in 1894 a contract was signed between the prefect of the Seine, acting on behalf of the department, and the Compagnie Generale des Eaux. The Compagnie des Eaux in this contract undertook to construct works on the Seine and the Marne, above Paris, capable together of purifying 70,000 cubic metres daily, or nearly 15,000,000 gallons, and to remove 99.6 per cent. of the microbes in the original water. These works were to be in full operation by January 1, 1896. The total cost was estimated to be 12,000,000 francs (2,310,000 dol.) C. W. Chancellor, U. S. Consul at Havre.

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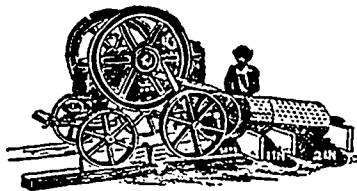
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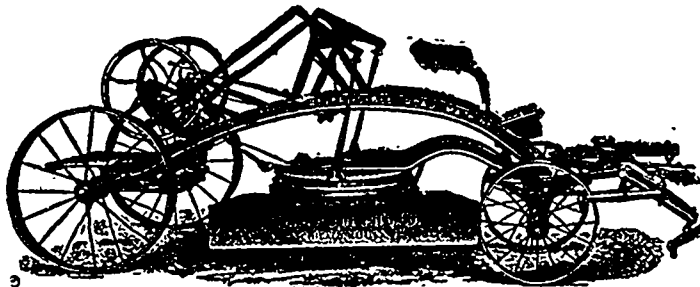
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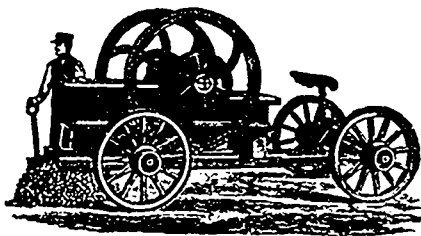
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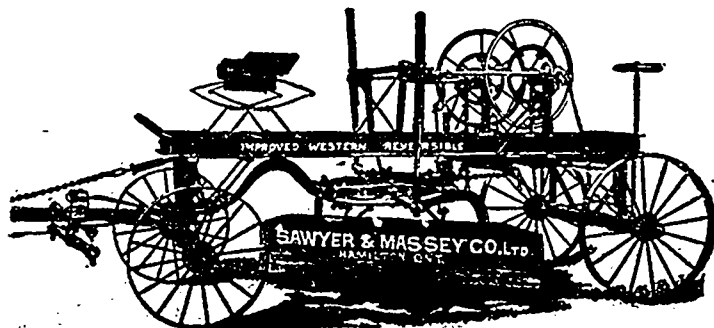
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