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CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF PUBLIC WORKS, TENDERS, ADVANCED 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. 6.

OCTOBER 10, 1895

No. 36.

THE CANADIAN CONTRACT RECORD,
PUBLISHED EVERY THURSDAY
As an Intermediate Edition of the "Canadian Architect and Builder."

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NOTICE TO CONTRACTORS

Tenders for Fence

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to 11 o'clock, a.m., on SATURDAY, OCT. 12TH, 1895, for the construction of a

FENCE ON THE ROSEDALE RAVINE

Specifications may be seen and forms of tender obtained at the office of the City Engineer, Toronto, on and after the 5th day of October, 1895.

A marked cheque, payable to the order of the City Treasurer, for the sum of 2½ per cent. on the amount tendered for, must accompany each and every tender, otherwise it shall be ruled out as informal.

The lowest or any tender not necessarily accepted.

DANIEL LAMB,
Chairman of Committee on Works.

Oct. 10, Sept 30, 1895.

TO STEAM FITTERS

Tenders will be received up to 19TH OCTOBER NEXT, by the undersigned for the steam heating of the Queen's Hotel, Barrie. Plans and specifications may be seen at the offices of

KENNEDY, McVITTIE & CO., Architects,
Barrie, Ont.

FOR SALE

The Town of Lindsay invites and inspection, from likely purchasers, for the following articles offered for sale:—

1st. One Worthington Steam Pump, steam cylinders 18 in. in diameter and 10 in. stroke; water cylinder 10 in. in diameter; in fair working order. Cost \$1,000.

2nd. 21 Gas Lamp Posts, Globes and Heads complete, in good condition.

3rd. Road Scraping Machine, which received little or no use; in good repair. Cost \$250.00.

F. KNOWLSON,
Town Clerk.



NOTICE TO CONTRACTORS

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to 11 o'clock a.m. on SATURDAY, OCTOBER 12TH, 1895, for the following work:

A CONCRETE GEMENT WALK

On south side Bloor Street, from St. George Street to a point 198 feet easterly.

Specifications may be seen and forms of tender obtained on and after 5th October, 1895, at the office of the City Engineer, Toronto.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 5 per cent. on the value of the work tendered for up to \$1000, and 2½ per cent. on the value of the work tendered for over that amount, must accompany each and every tender, otherwise it will not be entertained.

The tenders must bear the bona fide signatures of the contractor and his sureties, or they will be ruled out as informal.

The lowest or any tender not necessarily accepted.

DANIEL LAMB,
Chairman of Committee on Works.

Committee Room, Toronto, Oct. 1st, 1895.

Galipeau & Boyer, joiners, Montreal, have dissolved partnership.

P. Poitras & Son, plumbers, Montreal, have dissolved partnership.

Archambault & Major will carry on a plastering business in Montreal.

The dissolution is announced of L. Bastien & Son, contractors, Montreal, and Galipeau & Boyer, contractors, of the same place.

CONTRACTS OPEN.

LACHINE, QUE.—The Council will borrow \$8,000 for public parks.

FARREN'S POINT, ONT.—A new Roman Catholic chapel will be built here.

DESERONIO, ONT.—The construction of a system of waterworks is agitated.

KALSO, B. C.—The Anglican congregation are preparing to erect a new church.

BERLIN, ONT.—Mr. Stouffer will erect a button factory this fall, two stories, 40 x 35 feet.

UNION, B. C.—The Union Brewing Co., of Nanaimo, B. C., will erect a brewery here.

MOOSOMIN, N. W. T.—The Council is prepared to award a contract for putting down artesian wells.

WINGHAM, ONT.—The Union Furniture Company have decided to rebuild their factory at once.

PORTSMOUTH, ONT.—A residence for the Roman Catholic clergyman will be built here, at a cost of \$6,000.

GUELPH, ONT.—Mr. S. J. Curry, of Toronto, is architect for the proposed wing to the General Hospital.

FORT WILLIAM, ONT.—The Council has decided to make an issue of \$3,000 of debentures for school purposes.

VICTORIA, B. C.—The local government is calling for tenders for electric light wiring at the new Parliament buildings.

SIMCOE, ONT.—The estimates for the proposed waterworks system have been submitted. The cost will be about \$27,000.

HULL, QUE.—The Council is considering the issue of debentures to the amount of \$100,000 to cover the corporation debt.

GAGETOWN, N. B.—Mr. Wetmore, C. E., has recently been surveying the site for a new bridge over the mill stream near Redstones.

HALIFAX, N. S.—J. A. Leaman will erect a new residence, corner Pleasant and South streets. Elliot & Hopson are the architects.

GODERICH, ONT.—The Henderson Bicycle Company, recently organized, will build an addition to the Goderich foundry, 40 x 36 feet.

WINDSOR, ONT.—The Essex Standard Oil & Gas Co. have struck another oil well at Union, and will negotiate to pipe the oil to cities.

OWEN SOUND, ONT.—J. C. Allen and A. J. Creighton have been granted permission by the Council to establish an oil barrelling industry.

ST. THOMAS, ONT.—James A. Bell, City Engineer is preparing plans for a new sixty-foot steel bridge to replace the bridge at Glencolin.

ST JOHN, N. B.—James Thompson, machinist, will erect a two and a half story addition to his factory, 60 x 70 feet in size.—The Hebrew congregation pro-

pose erecting a synagogue, at a cost of \$6,000. The building committee consists of C. Hoffman, B. Myers and J. Fanbrook.

GANOQUE, ONT.—It is reported that the Bennett block will be built up from the corner of King and Stone streets as was originally intended.

CARLETON PLACE, ONT.—Voting on the by-law to raise an additional \$6,000 for the town and fire hall will take place on Saturday, October 19th.

NELSON, B. C.—Twenty-six tenders have been received for building the extension of the C. P. R. from the Wigwam to the head of Arrow Lake.

BRANTFORD, ONT.—Mr. W. A. Wilkes, solicitor for the Brantford Electric & Power Co. will offer for sale on the 14th inst. \$40,000 of second mortgage bonds.

WELLAND, ONT.—The Council has decided to extend the waterworks system to the H. G. and B. tank, at a cost of \$1,962, and work will be commenced at once.

MEAFORD, ONT.—A vote of the ratepayers will be taken on the 6th of January next to expend the sum of \$6,000 for the purpose of extending the waterworks system.

ORANGEVILLE, ONT.—At the next meeting of the County Council the proposition made by the Peel County Council to erect a joint poor house will be considered.

BROCKVILLE, ONT.—Mr. G. T. Fulford has purchased property and purposes erecting a summer residence of considerable magnificence. An architect has not yet been chosen.

SARNIA, ONT.—The County Council of Lambton has decided to erect and maintain a County House of Refuge, and a committee has been named to make further arrangements.

KANLOOPS, B. C.—Local capitalists propose to build a first-class modern hotel in this city, to cost in the neighborhood of \$30,000. A joint stock company, with a capital stock of \$50,000, will be formed for the purpose.

LONDON, ONT.—It is currently reported that work on the G. T. R. shops will be commenced this fall. A special meeting of the City Council will be held this week to consider the question of improving the city's water supply.

FRASERVILLE, QUE.—The Fraserville Electric Power Co. is applying for incorporation, to operate telephones and contract for electric lighting. Capital \$25,000. N. G. Pelletier and P. E. Granbois, M. P., are among the promoters.

RAT PORTAGE, ONT.—The waterworks by-law to raise the sum of \$60,000 for the construction of a complete system of waterworks, has passed its second reading in Council. Voting will take place at the January municipal elections.

NIAGARA FALLS, ONT.—Mr. John Galt, C. E., of Toronto, has submitted his report on the survey of the streets in connection with the construction of a street railway, and work will probably be commenced within the next few days. The scheme is opposed by several aldermen who are in favor of an electric belt line for the town.

BARRIE, ONT.—Messrs. Eden Smith and Eustace Bird have been appointed architects for the following buildings to be erected in this town: a theatre to accommodate 1000 persons, brick house for the Cuswicke Estate, two small houses for P. H. Stewart, bungalow for Geo. Esten, and extensive alterations and additions to house of S. J. Sanford.

FLESHERTON, ONT.—The Township Council of Artemesia is to build next spring two bridges, probably of steel, over the Saugeen river and several small wooden bridges over minor streams.—

Beecroft & Sloan are going to build this fall, a saw mill, 24 x 50 ft., to be run by water power, have two circular saws, and latest machinery, capacity 10,000 feet per day.

KINGSTON, ONT.—The City Treasurer is asking for tenders on behalf of the corporation for the purchase of upwards of \$50,000 worth of debentures. The time for the reception of offers closes at noon on the 14th inst.—W. Newlands, architect, has in hand the erection of a new building on Brock street for John McKay.—The contract for the new pumping engine has not yet been let.

DUNDALK, ONT.—Mr. E. A. Deans is putting up a solid white brick drug store with basement and offices overhead, to cost \$3,000. He is going to erect later a store of the same material with a Masonic hall above the store, to be 23 x 98 feet, and to cost \$4,000. He is just completing a fine drug store, which will be fitted up with hardwood and have plate glass mirror panels, the contract for which has not yet been let.

HAMILTON, ONT.—A. W. Peene, architect, will let contracts this week for a block of houses on Magill street.—A building permit has been issued to A. Peacock, for two 2 story bk. stores, corner King and Wentworth streets, to cost \$3,500.—Steamboat owners are agitating to have the canal at the Beech deepened and the City Council will be asked to bring the matter to the attention of the Dominion Public Works Department.

WINNIPEG, MAN.—The Great Northern railway will build two steel bridges this winter, one across the Red River at Grand Forks, and the other at Moorehead. The structures will be of the latest pattern, and will cost \$85,000 each.—The Bell Telephone Co. have purchased a lot on Thistle street and will erect thereon a commodious telephone exchange building, to cost between \$15,000 and \$20,000. Plans are now in course of preparation, but work will not likely be commenced until next spring.

TORONTO, ONT.—The Industrial School Association has authorized the issue of debentures for \$35,000.—Tenders are invited until November 1st, by James Joliffe, City Hall, for annual supplies for industrial schools.—The City Engineer has received the plans of the York street bridge from the C. P. R. for approval, and the work will be proceeded with at once if they are found satisfactory.—A deputation have requested the Board of Works to asphalt St. Lawrence market, and a report thereon has been ordered.—The C. P. R. has submitted to the City Engineer the plans of a station to be erected at the Don, at the Queen street crossing.—Building permits have been granted as follows: Jas. Lano, pr. s. d. 2 story and attic bk. dwellings, 247 Sherbourne st., cost \$6,000; North American Life Insurance Co., mansard roof, s. w. corner Queen and Victoria streets, cost \$3,000; General Hospital Trust, alterations to 30 Bright street, cost \$3,000.

MONTREAL, QUE.—Mr. S. Howard, C. E., of the road department has submitted a plan to the City Council of a proposed elevated road from Bonaventure depot to St. Henri in order to abolish the level crossings between these two points. The estimate for the whole work is \$916,450, with a wooden floor, and \$1,033,450 an iron one. At the next meeting of the committee on level crossings he will submit a plan showing temporary trestle way with cross streets, bridges and abutments, and another with bridges at every cross street.—Messrs. Harris, Youngheart & Co., cigar manufacturers, of this city, have offered to build a factory in St. Johns in lieu of exemption from taxation and a bonus of \$20,000.—The Montreal Park & Island Railway Co. will extend their line to St. Laurent, a distance of 7 miles. Engineers are now surveying the route,

and construction work will probably be commenced this fall.—W. McLea Walbank, architect, is calling for tenders for a boiler and engine house for the American Tobacco Co., to be erected at Cote St. Paul. Same architect is preparing plans for a large five-story factory to be erected in the east end, and also for two summer cottages, one at Beaconsfield and the other at Bay View.—The question of a site for the proposed new fire station has not yet been settled. A. J. Cooke, architect, is preparing plans for two summer cottages, one at Chateauguay for W. G. Ross, and one at Dicksey for Dr. A. Lap-horne Smith.

QUEBEC, QUE.—The plans for the proposed Jeffrey Hale hospital are to be sent in by the 1st of November.—Peachy & Dussault, architects, have prepared plans for the finishing and decoration of the interior of the Chapel of Levis' college, and will shortly call for tenders for the work.—H. Staveley, architect, is preparing plans for the following buildings: A summer cottage for the Triton Fish and Game Club at Lake of the Cross; a Church of England for Danville, costing \$6,000, and a railway depot for the Quebec, Montmorenci and Charlevoix Railway.—The following building permits have recently been granted: Mr. Griffith, iron fence, De Salaberry street, cost \$1,000; P. Bergeron, skating rink, Chares' street, cost \$1,800.—E. M. Talbot, architect, is preparing plans for the following work: Repairs to church and presbytery of St. Bernard, of Dorchester, with hot water heating; P. Angers, M.P., St. Francois Beauce, private residence, to cost \$5,000, to be built of wood and heated by wood furnace; new R. C. church at St. Marcel de L'Islet, all wood, cost \$4,000 to \$5,000; new store and residence for Dr. Lepage, of Rimouski, to cost about \$3,500; new store and residence for Goulet & Bros., at Levis, wood and brick, cost about \$4,500. Heating not yet decided.

OTTAWA, ONT.—The Fire and Light Committee has decided to submit a by-law to the ratepayers at the January elections to raise \$45,000 for the purpose of erecting a new fire hall in the southern part of the city.—The chief of the fire department recommends the purchase of two chemical fire engines.—The residents of New Edinburgh are taking steps to secure the erection of a new school in that section, and a meeting will be held at an early date to further the scheme. The site will likely be on McKay street.—A petition is being circulated asking the Minister of Railways and Canals to have a new bridge built across the canal at Bank street.—The quarterly board of McLeod Street Methodist church have decided to erect a new church, at an estimated cost of from \$15,000 to \$17,000. Mr. M. C. Edey will be the architect.—S. Rogers & Sons, undertakers, have made a proposition to the City Council to erect a morgue, at a cost of \$3,000.—Tenders will be called for furnishing the new town hall in Ottawa East.—Assessments have been confirmed for granolithic sidewalks on the following streets: Elgin street, west side, from Cooper to McLaren; Lsgar street, north side, from Bank to Kent; Church street, both sides, from King street; St. Andrew's street, north side, from Sussex to Dalhousie street.—The new engine house to be built by the Canada Atlantic railway in the "Y" beyond Archville will have twenty locomotive stalls and five thousand feet of timber will be used in building the flooring.—The City Engineer has recommended the council to seek special legislation authorizing the construction of asphalt pavements on the following streets: Elgin, O'Connor, Bank and Kent, out to Ann and Isabella; Queen and Albert to Wellington; Maria to Bay; Rideau to Wurttemberg; Clarence and Murray to King; St. Patrick, from Sussex to Augusta;

Sussex, St. Patrick to Rideau river; Nicholas and Waller from Rideau up; Cumberland from Rideau to Sussex; Daly avenue and Theodore streets. Notice of expropriation of the land required for a central railway station in this city, has been served. The building will be erected on the site of the Militia stores building, and work will be commenced next spring. It will be six stories, built of sandstone brought from near Jones' Falls, up the Rideau River. The filling in of the canal basin for the right of way will necessitate the immediate construction of another canal basin, which will be built on the west side of the canal directly opposite the present one. Excavation for this basin will be carried on this winter, and the work completed early in the spring. The old skating rink will be torn down, and two docks built, one at the Mouth of Patterson's Creek, and the other at the Bank street bridge.

FIRES.

John Anderson's blacksmith shop at Galt, Ont., has been burned.—The Queens hotel building and a store at Regina, N. W. T., were destroyed by fire last week. The store building was owned by G. F. and J. Galt, of Winnipeg.—The two-story brick veneer residence of Edward F. Johnston, London West, was burned to the ground on the 4th inst. Loss covered by insurance.—A dwelling at Midland, Ont., owned by John Jackson, was destroyed by fire on Tuesday last. Loss partially covered by insurance.

CONTRACTS AWARDED.

RENFREW, ONT.—The Council has sold to O'Hara & Co., Toronto, \$7,000 of thirty year 5 per cent. debentures, receiving therefor \$7,844.27.

ST. THOMAS, ONT.—The city has sold to G. A. Stimson, of Toronto, \$15,000 of 5 per cent. local improvement debentures. The premium was over \$900.

SAULT STE MARIE, ONT.—Mr. Miller, who built the power house and lock gates, has been awarded the contract by the Government for new offices and workshops to be built in connection with the canal.

COLLINGWOOD, ONT.—A contract has been awarded for the enlargement of the Presbyterian church by the addition of two transepts and a gallery, giving extra accommodation for 300 persons. The cost will be about \$5,000.

HAMILTON, ONT.—The City Council has accepted the tender of the Guelph Paving Company for a cement sidewalk on James street, from King William to King street, and on King street from James to Hughson street, at 14 cents per foot.

MONTREAL, QUE.—A. J. Cooke, architect, has awarded contracts for eight houses on Prospect ave. for W. F. Borland as follows: masonry, Mr. Charette; brick, Mr. St. Aubin; carpenter and joiner's work, J. A. Collins; plumbing and heating, John Creed; painting, A. Leather. Same architect has awarded the contract for seven houses on Concord street for the Proctor Estate to W. Whytock, general contractor.

HALIFAX, N. S.—Contracts for the different works required in restoring the buildings and wharves at the deep water terminus of the Intercolonial railway have been awarded by the Government as follows: formulation of freight house, T. P. Leblanc, Moncton; warehouse, Piton & Samson, Levis; brick freight house, R. C. McDonald, Moncton; creosoted timber and plank for wharves, A. Gunn & Co., of Halifax, and C. Haldiday, of West Chester.

LONDON, ONT.—Contracts for the new Y. M. C. A. building have been awarded except for plumbing and heating. The

following are the successful contractors: stone and brickwork, J. Hayman & Sons, London, \$6,576; carpenter and joiner work, A. Bodley, Toronto, \$7,524; slating and flashing, Geo. Riddle & Co., London, \$485; galvanized iron, W. Stevely & Son, London, \$235; plastering, Gould & Stratford, London, \$1,000; painting and glazing, A. T. Corp, London, \$1,395.

TORONTO, ONT.—Purdy, Mansell & Mashinter, of this city, have recently secured the following contracts: plumbing, gas fitting, steam heating and ventilating of R. Simpson's new departmental

store; plumbing, gas and steam heating of new building on Adelaide street for Toronto Saturday Night; and the hot water heating of post-office building at Stratford for the Dominion Government.—The contract for heating and plumbing of the Toronto Lithographing Co.'s new building has been let to John Ritchie.

WOODSTOCK, N. B.—The only tender received by the Town Council for constructing the entire sewerage system was from Leblanc & Ganong, of Moncton, who tendered at \$16,780. The Council has decided not to accept the tender, but to
(Continued on page 4.)

SECTIONAL PIPE AND BOILER COVERINGS

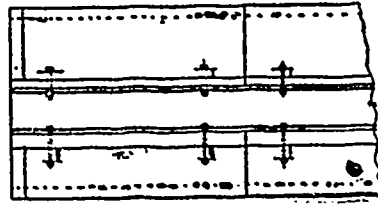
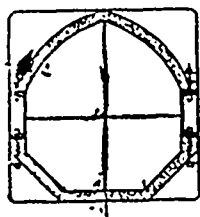
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MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS

execute the work by day labor, and have accepted the following tenders for supplies: sewer pipe, cement and brick, W. F. Diblee & Son; iron for manholes, Connell Bros. and Small & Fisher Co., at \$2 per hundred pounds. Hazlehurst, of St. John, also tendered for iron at \$2 per hundred, and W. H. Allan at \$1 64

QUEBEC, QUE.—Work has been commenced on the foundation of a three-story house, in dressed stone, for Mr. Smith, on the Grande Allee. It is to be 25x40 feet and will cost \$6,000. The architect is Mr. Staveley, and the contractors are Messrs. Fackney for masonry, and Peters for the interior.—Contracts have been let as follows for the construction of warehouses for the Chouinard estate: masonry, A. Fackney; roofing, Mr. Lenghen; painting, Gauthier & Frere; interior work, Onesime Poitras. Messrs. Tanguay & Vallier are architects, and the building will cost \$14,000.—Peachy & Dussault, architects, have let the contract for a tabernacle for Chicoutimi church to Mr. Villeneuve, sculptor, of St. Romnald.

TESTING STAINED GLASS.

I have discovered a simple mode, writes C. Winston, of testing whether, on the one hand, glass is sufficiently opaque so as not to appear flimsy or watery when put up in a window, unassisted by shading, according to the practice of the flat style of glass painting; on the other, whether it is sufficiently clear to produce as brilliant an effect as the old door—as follows: If the glass, when held at arm's length from the eye, and at the distance of more than a yard from an object, does not permit of that object being distinctly seen through it, the glass will be sufficiently opaque; and if, when held at the same distance from the eye, and at the distance of not more than a yard from the object, permits of its being distinctly seen through the glass, it will be sufficiently clear and transparent.

I have found this to be the case with a great many pieces of glass of the twelfth, thirteenth and fourteenth centuries, which had been rendered clear by polishing the surface, or which were already quite clear; for it is a great mistake to suppose that all old glass has been rendered dull on the surface by exposure to the atmosphere. I have seen a good deal of glass of the twelfth and thirteenth centuries that is as clear now as when it was first made, its surface not having been corroded in the least. But the glass of which these imitative works are made is either smooth on the surface and so pellucid or watery as, when held at arm's length, to permit of any object being perfectly seen through it which is at the distance of 100 or even 1,000 yards or more; or else is artificially roughened on the surface, a practice which reduces the condition of the glass nearly to that of ground glass; for when held at arm's length, it will not permit of any object being seen distinctly through it which is distant more than an inch from the glass.

The practice, not unfrequently resorted to by the imitators of old glass, of antiquating smooth-surfaced glass—that is, dulling it with the enamel colour used for painting the outlines—renders it, when held at arm's length, nearly, if not quite, as opaque as rough-surfaced glass. In deed, almost the only perceptible difference in this respect between rough-surfaced glass and smooth-surfaced glass that has been antiquated is that the former is free from the tint necessarily imparted to the latter by the enamel colour with which it is antiquated. Thus we find that

imitations of glass of the twelfth, thirteenth, or fourteenth century, if executed in smooth-surfaced glass that has not been antiquated, are very poor and watery in comparison with original work of the period, and that if executed in glass that has been antiquated, or rough-surfaced glass, they are much too opaque. In the one case, to speak popularly, the vision passes too uninterrupted through the glass; in the other it is stopped at the surface of the glass instead of passing about a yard through it, as in the case of ancient work.

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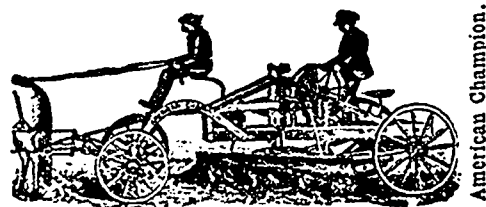
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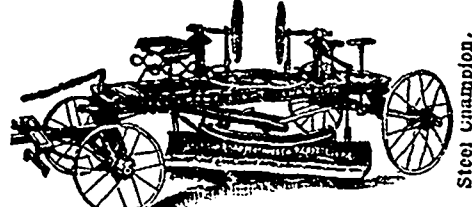
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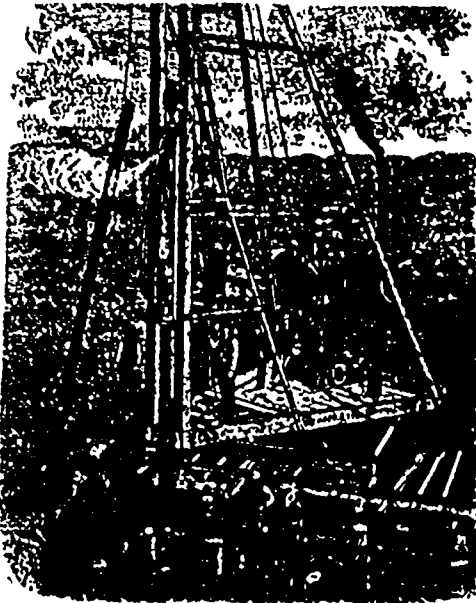
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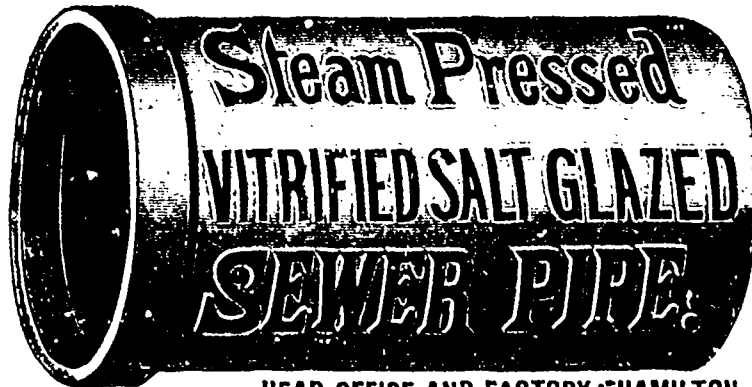
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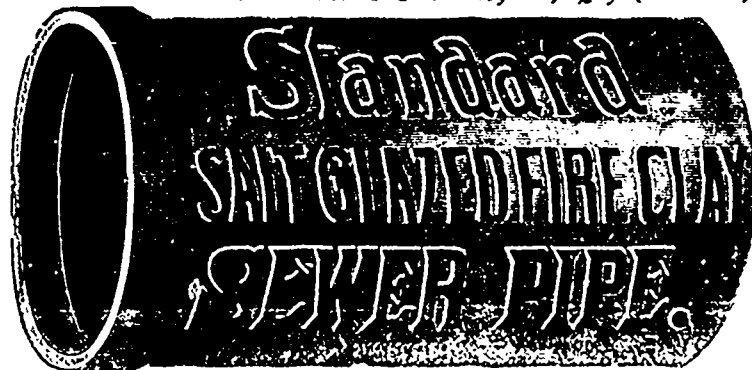
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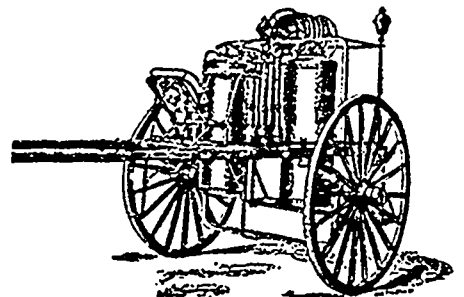
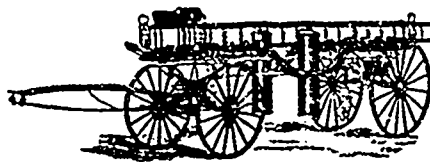
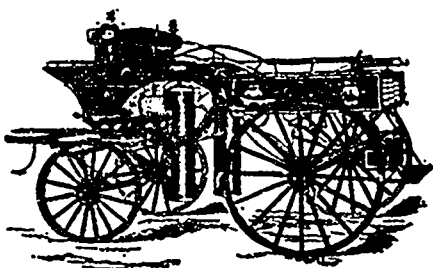
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PROPER DIAMETER OF FIRE HOSE.

Mr. B. L. Stowe, vice-president of the Eureka Fire Hose Company, writes an article for the New York India Rubber World on the proper diameter of fire hose. The question of size is, the writer declares, far from being the least important one which confronts the purchasers of fire hose. It is, of course, desirable that the largest sized streams possible should be available in case of fire, and it would be easy to construct estimates of the annual saving in fire losses which might be effected under certain conditions with hose of greater diameter than is now in general use. It might be shown how great a proportion of water discharged through a hose of small diameter is evaporated as it falls in spray on the flames, thus becoming useless for fire extinction. The real problem, however, is one of practicability. For instance, when it is considered how greatly the weight of a fire hose, carrying a stream of water, increases in proportion to its increase in diameter, it is plain that a limit may easily be reached beyond which the present race of firemen will not be capable of handling the hose effectively. The writer refers to the paper on this subject read by Mr. John R. Freeman before the American Society of Civil Engineers. He points out that the contents of a foot length of 2½ in. hose are 58.905 cubic inches, while a 3 in. hose, not appreciably larger to the unpracticed eye, contains 84.8232 cubic inches. The cubic contents of a 3½ in. hose are nearly twice as great as those of a 2½ in. hose, and of course the weight is proportionally increased. Then there has also to be considered the bearings of these figures upon the abrasions which must be experienced when the hose is dragged over the ground, across curbstones, and through windows and other openings into buildings. Increased strains are also put on curvature when the diameter of the hose is increased. This is, of course, of importance, since all fire hose, in practice, is subject to curves. Mr. Stowe has come to the conclusion, after much careful investigation, that he must favour a 2½ in. hose as the leading hose for fire department use. He admits the advantages of larger hose for special purposes, on account of the greater volume of water controlled, or the throwing of a large stream for a greater distance than is possible with a 2½ in. hose. But the disadvantages are also very serious.

GENEVA'S FOUNTAIN.

The fountain that the municipality of Geneva has recently established at the entrance of the port of that city is certainly the largest fountain that exists upon the surface of the globe, since it is no less than 300 feet in height. It may be seen

from a great distance in clear weather, detaching itself like a great white sail flapping through the effect of the wind.

The city of Geneva possesses a most complete distribution of water under pressure, the motive power for which is obtained from an artificial fall established upon the Rhone at the point of the lake. The water for domestic purposes and for the running of certain motors is raised to a height of 215 feet above the level of the lake. For the distribution of motive force it is raised to a height of 460 feet. The reservoir is an open air one, and is situated upon the top of Bessingers at a distance of three miles from the turbine building. A very ingenious regulator, invented by Mr. Turretini, assures the uniformity of pressure in the piping.

The length of the first pipe line is about forty miles and that of the second about sixty. It is with this latter that the fountain conduit is connected. The latter is set in play only on Sundays. It is sometimes set in operation also on week days in the evening. Instead of a single jet of great height several are then utilized that do not rise so high. Powerful electric light projectors, placed in a structure nearby, brightly illuminate them with their rays of varied colors, which transforms them into a luminous fountain of the most beautiful aspect.

The ratepayers of Nanaimo, B. C., have defeated the by-law authorizing the Council to purchase the present waterworks system.

The water of the town of Digby, N. S., is brought from over a hill back of the town, and no engines are required in case of fire, sufficient pressure being given.

Carlisle has its sewers ventilated by their attachment to thirty tall factory chimneys, which, of course, create a strong up draught, besides heating and destroying disease germs in the effluvia carried up.

It has been calculated that there are over 50,000 reservoirs for impounding water, for irrigation purposes, in the Madras Presidency, varying in size from an embankment 200 yards in length to a couple of miles in length, and often longer. There is a special section of the Madras Public Works Department set aside for the express purpose of tank restoration schemes.

An interesting report upon a series of experiments in filtration has been issued by Mr. W. J. Dibdin, chemist to the London County Council. The trials were made at the northern outfall precipitation works with burnt ballast, pea ballast, coke breeze, sand, and certain proprietary materials. The experiments proved that coke breeze gave the highest average as regards purification powers. A further series of experiments was then arranged with that material, the results being eminently satisfactory. The conclusions which Mr. Dibdin has come to are surprising to the ordinary mind. It appears that microbes form an important element in the purification of water, and the Council's chemist says that "the contact of the microorganisms with the effluent to be purified

must be effected by leaving such effluent at rest in the filter for a greater or less time, according to the degree of purification required. . . . After each quantity of effluent has been dealt with, the micro organisms must be supplied with air, which is readily effected by emptying the filter from below, whereby air is drawn into the interstices."

The subject of sewer ventilation was recently brought before the meeting of the British Medical Association. Mr. J. Parry Laws, who read a paper on the subject, expressed the general opinion of physicians when he said that although the hypothesis which regarded sewer air as capable of disseminating the morbid germs of disease is proved beyond reasonable doubt to be an erroneous one, we must not therefore forget the immense benefits and the saving of life that modern sanitation, mainly influenced by this hypothesis, has brought about. Whatever the ultimate verdict be, whether sewer air is harmless or otherwise, it will always be the imperative duty of those charged with the care of the public health to insure rapid and efficient removal of all sewage and refuse matter, and, above all, to guard against defective drainage and probable pollution of water supplies. The more light that is thrown upon the dissemination of those diseases which have been, he thought, erroneously associated with sewer air, the more evident does it become that a polluted water supply, and, as an incidental result, a polluted milk supply, are amongst our most insidious foes.

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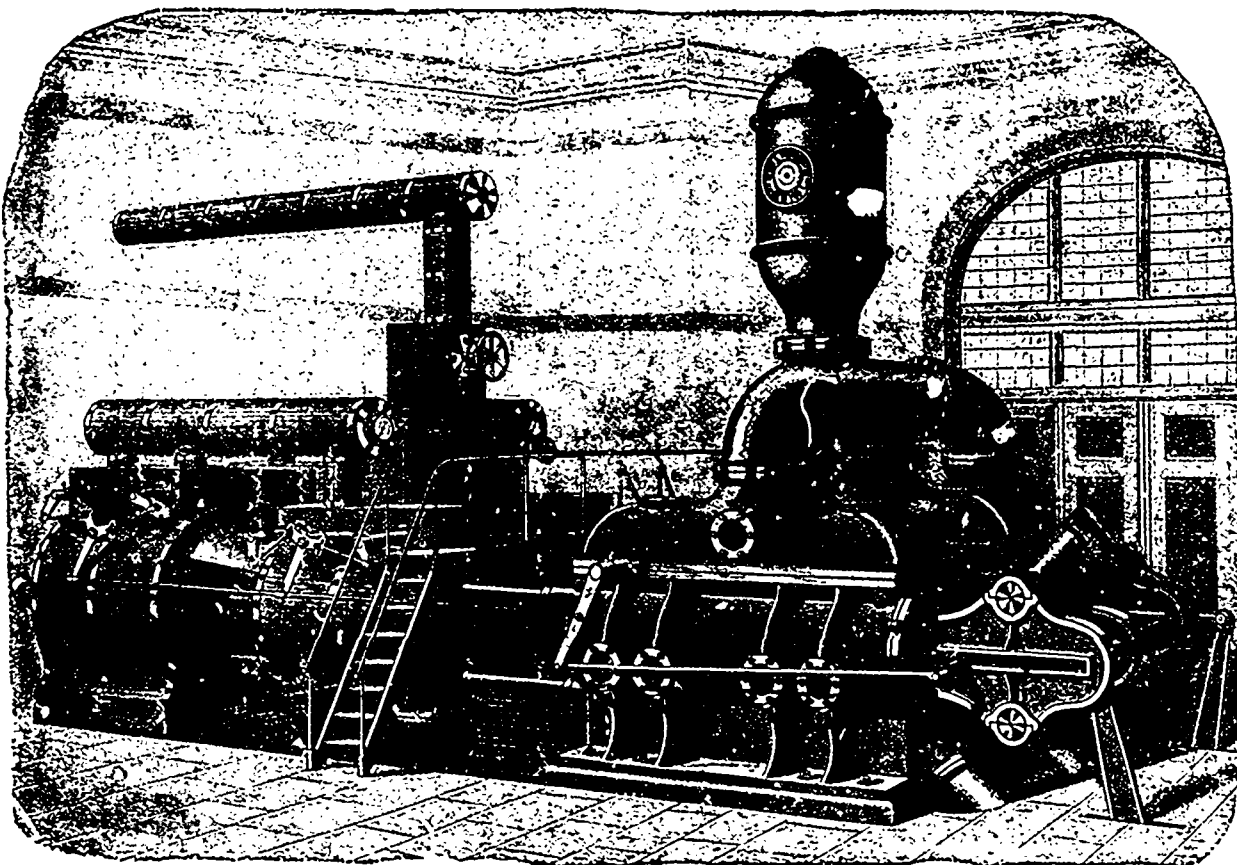
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CONDITION OF THE MARKET.

TORONTO: A favorable report comes from hardware dealers, cut nails and shelf goods being especially brisk. The city trade in plumbers' supplies is good, and several large contracts have just been closed, while the country trade is steady. Cement is firm and moving freely, with quotations unchanged.

MONTREAL: Business generally is quite satisfactory. Heavy iron and metals retain the activity of the past month, and American manufacturers are said to be considering another advance in the price of iron pipe, the output not being equal to the demand. Cut nails will probably be advanced at an early date, as a result of the formation of a nail association, which has just been formed by the manufacturers. The arrivals of cement last week were 2,950 casks English and 3,300 Belgian, and the demand for small lots continues good.

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