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CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL

EVERY

PUBLIC WORKS • TENDERS •
ADVANCE INFORMATION •
AND MUNICIPAL PROGRESS

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. 10.

FEBRUARY 15, 1899

No. 3

THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY WEDNESDAY

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WANTED.—Catalogues and prices for materials and appliances used in constructing modern brick store—two flat, mansard deck roof, second flat for public hall. Address WILLIAMS & VAN LUVEN, Smith's Falls.

PIPE WELLS

Tenders are invited up to March 1st next, by the Water Commissioners of the Town of Berlin for putting down PIPE WELLS. For all information apply to Wm. Mahlon Davis, C.E., Superintendent of Water-works.

HERBERT J. BOWMAN,

Secretary of Water Commissioners.

Berlin, February 8th, 1899.

Tenders for Supplies

Tenders will be received by the undersigned up to 12 o'clock, noon, of TUESDAY, FEBRUARY 21ST INST., for the supply of the following materials required by the Board of Works Department of the City of Hamilton for the year 1899:

- (1) LUMBER.
- (2) SPIKES.
- (3) CEDAR POSTS.
- (4) PORTLAND CEMENT.
- (5) 4" STONE CURBING.
- (6) GRAVEL.

According to specifications to be obtained at the office of the Street Commissioner Hamilton.

The lowest or any tender not necessarily accepted.
T. BEASLEY,
Hamilton, Feb. 2nd, 1899. City Clerk.

ELECTRIC LIGHT PLANT

Sealed proposals will be received by the Electric Light Committee of the City Council of the City of Halifax, Nova Scotia, until twelve o'clock noon, on WEDNESDAY, MARCH 8th 1899, for the manufacture, erection and equipment of an ELECTRIC LIGHTING PLANT for lighting the streets and public buildings of the city.

Specifications and other information may be obtained from the City Engineer or City Electrician.
The City Council hereby reserves the right to reject any or all tenders, or to accept separate tenders for any portion or portions of the work or any tender or tenders that in their judgment will be for the best interest of the City.

Each proposal must be made on the form furnished by the City Engineer, and must be endorsed "Tender addressed to Ald. Mosher, Chairman of the Committee on Electric Lighting, City Engineer's office, Halifax, N.S."

All tenders plans and accompanying papers, photographs, etc., shall become the property of the City.

F. W. W. DOANE
City Engineer.

City Hall, Halifax, N.S., Feb. 4th, 1899.

TO CONTRACTORS

Tenders will be received by the undersigned up to TUESDAY, FEBRUARY 21ST, at 5 p. m. for the several trades required in the erection and completion of a

LARGE OFFICE BUILDING

on Main Street Winnipeg, for The Manitoba Trusts Company. Plans and specifications may be seen and all other information obtained at the office of

GEO. W. GOVINLOCK, Architect,

Temple Building Toronto,
and GEORGE BROWN, Architect Winnipeg.

The lowest or any tender not necessarily accepted.

Notice to Contractors

Tenders Wanted for the Construction of Water Works System for the Town of Stayner, Ont.

Tenders, by registered mail, will be received by the Chairman of Fire and Waterworks Committee up to the hour of 8 o'clock p. m. on WEDNESDAY, THE FIRST DAY OF MARCH NEXT, for the Construction of a Water Works System, comprising the following works, viz:

Drainage of Springs with Agricultural Drain Tiles, with Brick Intake Chamber
Main from Intake Chamber to Reservoir.
Storage reservoir, with Valve Chamber and Valves
Main from Storage Reservoirs to Town of Stayner.
Distribution Mains in Town, with Valves and Hydrants, and all Specials connected therewith.

Specifications and drawings may be seen at the Town Hall, Stayner, Ont. and at the office of John Galt, C. E. & M. E., Canada Life Building Toronto, from whom forms of tender and full particulars may be obtained, on and after Wednesday, the 15th day of February, inst.

Tenders must be in Lump Sum.
A certified bank cheque payable to the order of the Treasurer of the Town of Stayner for ten per cent of the amount tendered, must accompany each proposal, otherwise it will be ruled out as informal.
The Corporation do not bind themselves to accept the lowest or any tender.

WILLIAM McBETH,

Chairman of Fire and Waterworks Committee.
Stayner, Ont., Feb'y 14th, 1899

CONTRACTS OPEN.

HOPETOWN, ONT.—A Presbyterian church will be built here.

GLANIS, ONT.—A site has been selected for the proposed school building.

BLENHEIM, ONT.—The council is considering the extension of the electric light plant.

TORONTO JUNCTION, ONT.—John E. Harris is building an addition to his residence.

GLENBURNE, ONT.—C. Hay purposes building a new dwelling house in the spring.

EDMONTON, N.W.T.—A movement is on foot to secure the erection of a public hospital.

GEORGEVILLE, QUE.—Rediker & Clark contemplate the erection of a building to be used as a meat market.

WESTPORT, ONT.—The school trustees are considering plans for enlarging the school building.

MILVERTON, ONT.—Wiederhold & Hendrich intend building a new factory in the early spring.

NIAGARA FALLS, ONT.—A petition will be presented to the council asking for the establishment of a municipal electric light plant.

BALTIMORE, ONT.—Tenders are wanted by 25th inst. for building a Methodist church. Particulars from John Gilliland.

LEAMINGTON, ONT.—The town will apply to the Ontario legislature for permission to issue debentures extending over thirty years.

ST. JOHN'S, Nfld.—The Western Newfoundland Oil Co., which has just been formed, will construct a refinery at an early date.

OAK RIDGES, ONT.—The congregation of St. John's church have subscribed funds for renovating the church building next summer.

SMITH'S FALLS, ONT.—An agreement has not yet been reached regarding the selection of a site for the proposed high school building.

DIXON'S CORNERS, ONT.—The township council has decided to build a new municipal hall, tenders for which will shortly be invited.

CARDINAL, ONT.—It is reported that the Edwardsburg Starch Company intend expending \$50,000 in a plant for the manufacture of raw oil.

SHELBURNE, ONT.—A committee has been appointed by the county council to report upon a modern heating system for the county building.

TWEED, ONT.—The question of the advisability of purchasing a stone crusher and steam road roller is being considered by the village council.

MIDLAND, ONT.—The town has agreed to grant a bonus of \$50,000 to the Canada Iron Furnace Company for the establishment of a smelter here.

HULL, QUE.—Tenders were received by the city up to the 6th inst. for an electric light plant, but the council has deferred action until the 17th inst.

RICHMOND HILL, ONT.—Plans have been completed for the new market and bank building, and they will be considered by the council at a meeting to be held this (Wednesday) evening.

ST. THOMAS, ONT.—W. McKay, county clerk, invites tenders up to noon on Wednesday, March 1st, for the purchase of \$40,000 of county debentures.

BELLEVILLE, ONT.—H. Corby, M.P., has purchased the old Downey elevator from the city, and purposes enlarging it to a capacity of 200,000 bushels.

PENETANGUISHENE, ONT.—Patterson & Pusley are about to enlarge and remodel the Penetang hotel. They will also build a new hotel at Sans Souci.

PARRY SOUND, ONT.—Argue & Son have purchased the site of the old Beatty saw mill, and purpose erecting a new mill, with planing machine, dry kiln, etc.

COULSON'S HILL, ONT.—Tenders will be received by Charles Stewart up to 22nd

inst., for remodelling the public school. It is the intention to put in a furnace.

WOODSTOCK, ONT.—An addition will likely be built to the Presbyterian church here.

MOOSE JAW, N. W. T.—Tenders are wanted by February 25th for the erection of a brick hotel of 38 rooms. Plans at Brunswick hotel, this place, and at office of J. E. Forslund, Winnipeg.

HUMBERSTONE, ONT.—The Dominion government will be petitioned by the township council to build a permanent bridge over the canal on or about lots 27 and 28, Humberstone township.

ALMONTE, ONT.—The town purposes constructing some granolithic pavements this year.—Notice has been given of a by-law to authorize the issue of debentures for \$2,000 under the Debenture Act.

WATERLOO, ONT.—Proposals have been invited for the purchase of about \$5,000 of debentures.—The citizens will likely memorialize the government to build a post office and custom house here.

VICTORIA, B.C.—T. C. Sordy has suggested to the council that, in view of numerous accidents to the electric light system, all large users should have a storage battery on the line of service.

OWEN SOUND, ONT.—A by law will be submitted to the ratepayers on March 11th to grant a loan of \$15,000 to the North American Bent Chair Company to assist them in rebuilding their chair factory.

CORNWALL, ONT.—In consideration of certain concessions granted by the city council, the Canadian Colored Cotton Mills Co. have agreed to extend their works, expending \$150,000 on new buildings and machinery.

WIARTON, ONT.—A by-law will likely be submitted to the ratepayers to grant a loan of \$20,000 to the Owen Sound Beet Sugar Manufacturing Company, to establish a plant here. The money will be raised by debentures.

BRANTFORD, ONT.—Heintz & Co., of Pittsburg, will probably erect a pickle factory in this city.—The twenty seventh annual report of the Ontario Institution for the Blind points out the necessity of enlarging the building.

CHATHAM, ONT.—J. L. Wilson & Son, architects, want tenders by Saturday, 18th inst., for the erection of a brick veneered residence in Chatham township for Richard Roseburgh.

BERLIN, ONT.—The High School Board has asked the council for a grant of \$4,000 with which to remodel and repair the high school building. It is probable that steps will be taken to improve the system of fire protection, to meet the demands of the Underwriters Association.

LONDON, ONT.—The new St. James Presbyterian church will likely be located at the north-east corner of Oxford and Wellington street. The edifice, for which plans will be called for at once, will cost about \$30,000.—The Board of Works will probably consider the question of the purchase of a steam road roller at an early date.

HARRISTON, ONT.—George Gray, architect, has just completed plans for a large linseed oil and oil cake mill for John McGowan, of Alma, to be built this season at Abeys, on the Grand river. He is also preparing plans for an addition to the Harriston cold storage building, the property of A. Wenger, of Aytton.

WELLAND, ONT.—At the last meeting of the town council, the question of building a new public school and town hall was considered. If carried out, the money will likely be raised by the issue of debentures.—The Streets and Bridges Committee has recommended that the iron bridge be repaired. Tenders for the work will likely be invited.

ORILLIA, ONT.—The Finance Committee of the town council has recom-

mended that debentures be issued for the sum of \$4,800. The council has authorized the purchase of one hundred electric light poles.—The High School Board has instructed Messrs. King & Siddall, architects for the new High school, to call for tenders for the erection of the building.

ROSSLAND, B. C.—The Rossland Air Supply Company, which is seeking incorporation, proposes to erect hydraulic air compressors at the junction of Beaver creek and the Columbia river, or to operate an electric plant on the Beaver creek.—It is rumored that the Gonderham-Blackstock syndicate is looking for a site on which to build a departmental store.

HAMILTON, ONT.—At the annual meeting of the Hamilton Radial Railway Company, held last week, the proposed extension of the line from Burlington to Bronte and Oakville was discussed. It is probable that the work of extension, at least as far as Bronte, will be proceeded with by next fall.—The B. Greening Wire Co. purpose enlarging their works, and have asked certain concessions from the city council.

PORTAGE LA PRAIRIE, MAN.—Hall Bros. & Co. have purchased property and will erect thereon a two-storey building. Negotiations are also in progress for the transfer of another property, with a view to the erection of a business block.—A. McKillop has acquired a portion of the Robb property and purposes erecting thereon a two-storey block. Mr. Robb will also build a similar structure adjoining, and in addition will likely be built to the Leland Hotel.

BARRIE, ONT.—The corporation has engaged Mr. Roderick J. Parke, E.E., of Toronto, to rearrange and reconstruct the electric light system of this town. About \$15,000 will be expended, and among the additions will be a 2,500-light alternator, an 80 light arc generator, 65 arc lamps, and a 125 horse power engine. The power house will also be extended, and a fire alarm system installed.—The Electric Light Committee of the city council has been empowered to purchase 200 cedar poles.

HALIFAX, N. S.—Herbert E. Gates, architect, has prepared plans for a shop, cafe and dwelling on Water street, Dartmouth, for Allan McDonald.—The Nova Scotia Southern Railway Company are prepared to let contracts for bridge and culvert masonry at New Germany and other points. Particulars from A. Mine Fraser, 161 Hollis street.—The Midland Railway Company have purchased rails for 60 miles of its line to be built from Windsor to Truro. Work will be commenced in the spring.

WINNIPEG, MAN.—R. J. Whirla & Company have invited tenders for the masonry and brickwork of a large warehouse. Plans on application to James H. Cadham.—The city will proceed immediately with the construction of a waterworks system. The work will be carried out under the superintendence of Col. Ruttan, city engineer.—A deputation has requested the provincial government to grant liberal aid towards the proposed railway from Portage la Prairie westward.—It is understood that a building on Main street, south of Portage avenue, is to be torn down in the spring to make room for a modern business block to be erected on the site.

VANCOUVER, B.C.—The new block for the McDowell-Atkins-Watson Drug Company, corner Cambie and Cordova streets, will be proceeded with immediately.—The city council has granted the British Columbia Electric Railway Company an extension of its franchise for eleven years. In view of this, the company will undertake some large extensions to the system at an early date.—The by-law to borrow \$100,000 for the extension of the waterworks system was carried

by the ratepayers recently. A large portion of this sum will be expended in laying a new main, four miles in length, on the north side of the Narrows.—It is understood that the Public Works Department, Ottawa, have made preparations for the erection of a \$40,000 drill shed in this city, to be located at the corner of Beattie and Dunsuir streets.—Robert Cassidy gives notice of the intention of a company to build a railway from Log Cabin to Telegraph creek.

OTTAWA, ONT.—The council has decided against the purchase of a rock crusher at the present time.—It is proposed to build a wing to St. Luke's hospital, to consist of a public ward.—Tenders close to-day (Wednesday) for cutting and blasting a channel through the ice in the Rideau river.—Some slight improvements will be made to the city hall, at a cost of about \$1,000.—The French section of the Separate School Board have had plans prepared for a new school, and tenders will be called for immediately.—E. F. E. Roy, secretary Department Public Works, invites tenders up to Friday, March 3rd, for the erection of a Dominion lands office at Regina, N. W. T. Plans at the above department, at office of D. Smith, Clerk of Works, Winnipeg, and at Court House, Regina.—James W. Woods, dealer in lumbermen's supplies, has announced his intention to erect a large warehouse and factory on Queen street, to be four storeys, and faced with Nepean sandstone.—A proposal is under consideration by the city council to use Cathcart Square market building for a police station.—Tenders close on the 20th inst., for the erection of the power house at Britannia for the Metropolitan Electrical Company.—A movement is on foot for the extension of the Gatineau Valley railway from Gatineau Junction to the interprovincial bridge, a distance of two miles. The company will next summer endeavor to extend the line from Gracefield to Maniwaki. Should this work be carried out, the road will be equipped with new rolling stock and other improvements will be instituted.—The Eugene Munsell Co., of New York, purpose establishing a mica factory in this city.

MONTRÉAL, QUE.—A committee has been appointed to report on the advisability of erecting a new Maternity Hospital building. It is hoped to keep the cost of land, building and equipment within \$50,000.—The Health Committee has asked the council for an appropriation of \$230 to be spent in premiums for competitive plans for a new civic hospital.—A syndicate of wealthy gentlemen, members of the St. James' Club, have purchased the residence of the late Sir John Abbott, and purpose using the same for club purposes.—There is a scheme on foot by certain members of the Water Committee to have the bottom of the McTavish reservoir concreted.—Hon. Mr. Tarte, Minister of Public Works, last week held a conference with the Board of Harbor Commissioners and representatives of the railway interests with regard to harbor improvements. The question of elevators was discussed, and the opinion of the railway representatives was that an elevator in the centre of the harbor was impracticable, and that they would have to build them at either end of the harbor. The government engineers and the railway engineers will hold a conference at an early date to decide upon the plan most suitable to all concerned.—P. W. St. George, city surveyor, visited Quebec last week for the purpose of having incorporated in the City Bill a grant of \$831,432 for permanent works required during the current year. The works proposed to be carried out are as follows: Paving of the following streets: Craig McCord, Maisonneuve, St. Denis, Guy Wellington, Ann, St. Catherine, McGill William, Ontario, St. Vincent, Bonse

cours, Notre Dame, St. James, \$288,410; two bridges, one on St. Catherine over the C.P.R. tracks, the other at the Place Viger station, \$2,500; sidewalks (planks), \$65,322; crossings, \$10,000; macadam, \$30,000; gullies and traps, \$8,000; relieving sewers to prevent flooding of property, \$377,200; and pumping plant on Craig street, \$50,000.—The Market Committee have asked the Finance Committee for a grant of \$41,000 for repairs to the eastern cattle market.—F. W. St. George, city surveyor, has submitted a report to the council pointing out the necessity of increasing the pumping plant at Craig street. He estimates the cost of the necessary additions at \$50,000.

TORONTO, ONT.—A number of residences will be built in York county this year. Among those who propose building are John Johnston, 8th con. Vaughan; Jonathan Kersey, 9th con. Vaughan, and James Johnston, Coleraine.—At a meeting of the Separate School Board, held last week, the recommendation of the management committee that an eight-roomed school be erected in St. Michael's parish, was referred to the finance committee.—The Public School Board will recommend that six rooms be provided to relieve the overcrowding at Morse street, Bolton avenue and Hamilton street schools, and that two rooms be added to Dovercourt and Perth avenue schools.—The Toronto Railway Company have been collecting data as to the probable receipts from radial railways. Routes have been surveyed to Highland Creek, east to Oshawa, and west to Etobicoke. The question of carrying out these extensions will be considered at an early meeting of the Board of Directors.—E. J. Lennox, architect, has submitted to the city council the following statement as to the cost of the portable furniture required for the new municipal buildings: City engineer's office, \$1,275; street commissioner's, \$245; medical health officer, \$862; park commissioner, \$229; city treasurer, \$1,150; auditors, \$156; city commissioner, \$143; city clerk, \$511; city solicitor, \$906; assessment commissioner, \$816; four court rooms, \$10,100; judges' rooms, \$712; jury rooms, \$576; witness rooms, \$230; three committee rooms, \$646; waiting room, \$130; aldermen's room, \$650; reporters, \$223; mayor's rooms, \$800; total, \$21,360. The extra fire protection by sprinklers, as suggested by the underwriters, would cost \$10,500, and the connection of the ventilating flues, which now end in the attics, \$1,500.—The city engineer has again emphasized the necessity of building a new bridge over the Humber river. He recommends that the treasurer report funds to the extent of \$13,000 in advance of the estimates to carry out the work. In his report presented to the Board of Works last week, the city engineer recommends the construction of the following works: 12-foot concrete sidewalk on south side Queen street, from Tecumseth street to a point 100 feet west of Niagara street; concrete sidewalks on east side of Yonge street, from Front to Esplanade; on east side of Church street, from King to Front; on east side of Jarvis street, from King to Fred Victor Mission; brick sidewalk on west side of Jarvis street, from King to a point 24 feet south of Adelaide street; concrete on north side of Queen street, from Vanauley street easterly 143 feet; concrete on east side St. George street, from College street to Hoskin avenue; concrete on west side Church street, from Queen to Shuter. An 18-foot macadam roadway is recommended on Spruce street, from Sumach to River, and a brick pavement on Sarkville street, from Winchester to Wellesley, to cost \$4,616.—Building permits have been granted as follows:—M. Skilow, pair of brick dwellings, west side Howland avenue, cost \$4,000; Mrs. Monaghan, two storey and attic brick dwelling, north side Amelia street, near Parliament, cost \$4,600; Park, Blackwell & Co., ex-

tension to packing house, foot of Bathurst street, cost \$1,200; W. Donohue, 33 Robert street, dwelling and shop in rear of 33 Robert street, cost \$1,000. The Property Committee has endorsed a recommendation of the sub-committee to utilize Stanley Park for the enlargement of the cattle market. It is proposed to expend \$49,000 in the erection of buildings on Stanley Park and to raise and grade the lower part of the main market.—The Ontario estimates were presented to the House last week. The votes for public works are as follows:—Gull and Burnt River works, \$6,458; Lake of the Woods, \$2,000; Star Lake, \$200; to remove obstructions from navigable streams, \$750; maintenance locks, dams, etc., at Bala and Port Carling, \$9,943; Otonabee River, \$295; Talbot River, \$600; bridge across Madawaska River at Brunstown, \$1,500; Payne River, improvement of bed of stream \$4,000; improvement of bed of Maitland River in Elma and adjoining township, \$4,000; dredging Cunard River, \$5,000.—For public buildings the following sums are asked: Asylums at Toronto, \$535; Mimico, \$2,580; London, \$7,170; Hamilton, \$3,350; Kingston, \$4,300; Brockville, \$6,805; Idriats, Orillia, \$2,800; Central Prison, \$5,300; Reformatory at Penetanguishene, \$700; do., Females, Toronto, \$3,050; Deaf and Dumb Institute, Belleville, \$1,450; Blind, Brantford, \$1,525; Agricultural College, Guelph, \$4,110; Education Department, Toronto, \$2,000; Normal School, Ottawa, \$500; Normal School, London, \$1,600; School of Practical Science, Toronto, \$4,235; Osbourne Hall, \$600; New Parliament Buildings, \$2,400.—The Dominton Paving Co., who made an error in their tender for paving Russell street, will be asked to proceed with the contract. Should they refuse, fresh tenders for the work will be called for.—In this issue Mr. Geo. W. Gouinlock, architect, invites tenders for the erection of a large office building in Winnipeg, for the Manitoba Trusts Co.—A number of Toronto gentlemen, including Senator Cox, W. H. Brouse, J. W. Flavell, and others, want permission from the Ontario Legislature to build a railway from Haliburton to Mattawa. E. B. Douglas, and others, of Philadelphia, want a charter for a railway from the Soo to Michipicoten.—The Department of Public Works desires tenders by Thursday of this week for the supply of a considerable quantity of white pine and hemlock lumber.—Edgar A. Wills, Board of Trade Building, desires tenders for the supply of a number of fire shutters.—Plans have been perfected for the enlargement of the Conservatory of Music, corner of University avenue and College street. The addition will be 65 x 50 feet, and will cost \$9,000.—The Board of Control has decided to call for new tenders for blinds for the municipal building. On the main front and east and west sides Venetian blinds will be used.

FIRES.

Frame house at Sandwich, Ont., jointly owned by James Stutz and Mrs. John Davis; damage, \$5,000, partially insured.—The Manitoba Hotel at Winnipeg, Man., one of the finest hotels in Western Canada, completely destroyed. The loss is placed at \$175,000.—Residence of Simeon Warner at Leamington, Ont.—Large frame residence of J. R. McEwan at Essex, Ont.; insurance, \$5,000.—Store of J. L. Simpson at Chatham, Ont., damaged to the extent of \$5,000.—John Duff & Sons' general store and brick residence at Indian River, Ont.—Dick's Central Hotel at Seaforth, Ont.; loss, \$5,000. The building was owned by Mr. Kling.—Tannery of Gaspard Rochette on Arago street, Quebec, entirely destroyed. The loss is estimated at \$60,000, \$45,000 being on stock and \$15,000 on building.—Building at 10-16 Front street east, Toronto, occupied by Gowans, Kent

& Co., completely gutted; loss on building, owned by Crombie and Kent Estates, \$25,000, insurance \$13,500.—Residence of Dr. Sifton at Comber, Ont.; loss, \$1,200, insurance, \$800.—Hardware store of T. I. Thompson at Owen Sound, Ont.; loss, \$5,000.—Dunn's saw mill at Sault Ste. Marie, Ont., totally destroyed; loss, \$4,000, small insurance.—St. John's Presbyterian church at Brockville, Ont., completely destroyed.—Saw mill at Pine River, owned by T. A. Burrows, M.P.P., of Winnipeg.—Residence of Mr. Meisner, manager of the Acadia Iron Works at Londonderry, N. S.—Bank of Montreal at Picton, Ont., completely gutted by fire; loss covered by insurance.—The A. D. Cameron block and a brick store owned by N. A. Belcourt at Buckingham, Que.; loss, \$20,000, insurance, \$7,000.—H. Lamb's buildings, corner Chabouillez street and Chabouillez square, Montreal, damaged to the extent of \$35,000.—Leduc's Hotel at Hull, Que., owned by Dr. Graham; loss on building, \$3,000.—The Adams House at Chatham, M. B.; insurance, \$4,000.—A number of buildings at Digby, N.S., were destroyed by fire on Sunday last. Those burned include the Turnbull block, Shreve's block, post office, G. S. Stone's store, and several smaller buildings.

CONTRACTS AWARDED.

VANCOUVER, B. C.—The contract for the completion of the Matsqui dyke has been awarded by the provincial government to McLean Bros., of this city.

COLLINGWOOD, ONT.—Contracts for roofing have recently been awarded to Mr. Daniel Allen, of Toronto, by the Meal Co., The Bryan Mfg. Co., and C. Stephens & Co.

PETERBORO, ONT.—Contracts for the erection of a brick house for Michael Connolly have been let as follows: Carpenter work, A. J. Leslie; masonry, W. Patton; painting James Hanley, all of Mount Forest.

MONTREAL, QUE.—The Water Committee received tenders as follows for the supply of a boiler for the pumping station: Babcock & Wilcox Company, \$6,410; George Brush, \$5,680; John McDougall, \$5,975. The tender of Mr. McDougall has been accepted.

HAMILTON, ONT.—The city council has awarded contracts for annual supplies as follows: Ten tons half inch lead pipe, Wood, Vallance & Co., \$5.10 per 100 pounds, pig lead, A. Hope & Co., \$3.90 per 100 pounds, cast iron pipe, Gartschore-Thompson Pipe Foundry Co., \$27 per ton, castings, junctions, etc., City Brass Foundry, \$2.24 per 100 pounds; ordinary castings, Gartschore-Thompson Foundry Co., \$1.75 per 100 pounds; five hundred iron stop-cock boxes, Burrow, Stewart & Milne, \$1.10 each; six tanks for street-watering wagons, A. Winckler, \$20 each; hose, for street watering, Gutta Percha & Rubber Co., Toronto, 37 cents. The tender of Frankel Bros., Toronto, for pig lead, \$3.72, was the lowest, but the majority of the committee members voted to give the contract to Adam Hope & Co., at \$3.90. There were two tenders for twelve small hydrants—Dodson & Sutton, \$30, and the City Brass Foundry, \$28. No action regarding these tenders was taken.

OTTAWA, ONT.—Following is a list of the tenders received for the construction of section three of the main drainage works: Henry Smith and John Heney, Ottawa, \$169,000; John O'Leary and H. Robillard, Ottawa, \$157,500; John G. Poupore, Ottawa, \$137,999; John Coates and Robert Surtrees, Ottawa, \$167,960; Laverdure & Lafamme, Ottawa, \$107,695; E. W. Clark, Nepean, \$153,498; J. G. Steacy, Brockville, \$221,434; Robert Grant, Toronto, \$138,072.47; John McKnight, Toronto, \$174,735; Allan & Fleming, Ottawa, \$138,889; John Burns

and Michael O'Leary, \$139,800; J. Taylor & Co., Syracuse, N. Y., \$181,048; L'etelle & Piyette, Montreal, \$149,400; Wm. Stuart, Ottawa, \$129,887; Warren-Scharf Co., Ottawa, \$150,930; Jos. Bourque, Hull, \$127,225; S. R. Poulin, Ottawa, \$129,850; John Galt, city engineer, \$147,038. The council decided to accept the tender of Laverdure & Laflamme at \$107,695, but the tenderers afterwards discovered that they had made an error in figuring, and the contract was consequently awarded to Joseph Bourque of Hull, whose tender was \$127,225.

EFFECT OF CONCRETE ON LEAD.

Results of recent experiments are thus reported: "If the matrix of the concrete is lime and the concrete is in a damp position, the lime will reduce the metal to ceruse or carbonate of lead, or a crude white lead. If Portland cement instead of lime concrete is used, the lead will be oxidized or reduced to a hard brittle, dirty-red looking material. Examples of such deterioration are frequently found at the junctions of lead soil pipes, as used in England, with stoneware drains, and where pipes pass through walls below the damp course. Lead pipe may be protected by laying it through stoneware drain pipes embedded in the concrete: but in such cases the ends of the pipes should be open, in order to prevent the accumulation therein of carbonic acid gas, which would act injuriously upon the lead. Pitch and

asphalt are both good materials for protecting lead pipes that are exposed to corrosive influences. But drain pipes afford the best protection, as the lead pipe can then be withdrawn for repairs."

MARKET CONDITIONS.

Although very little cement is moving at Montreal, the market is unusually firm for this season of the year. This is due to the fact that manufacturers have sold the bulk of their production for 1899; in fact, some of them are refusing to make any further contracts. From present appearances the price of cement will be higher this year than for several years past.

In the paints and oil trade, the demand continues steady for all lines, and importers state that the turn over has been fully up to the average for the season of the year. Foreign advices on raw material continue strong, and in sympathy with the same, prices in Canada are held firmly. The present state of the metal market is the cause of considerable interest among the metal merchants of Canada and the United States. The price of all metals has advanced rapidly during the past three weeks, but zinc and copper are the leaders at present. The advance in prices has so affected the Canadian and American metal dealers that no orders will be booked for delivery

under three months. The prospectus of the United States Cast Iron Pipe and Foundry Co. has been issued. This company will, it is said, be in a position to supply 450,000 tons of cast iron pipe per annum, while the present annual output is only 60,000 tons.

PREPARING A BLASTING CHARGE.

Cut a piece of safety fuse to the right length and carefully insert the fresh-cut end in a blasting cap. See that the cap is free from any particle of sawdust before inserting the fuse. Press the fuse gently into the cap as far as it will go. Crimp the open end of the cap tightly around the fuse with a pair of cap-nippers, but under no condition disturb the fulminate or filling in the cap. Then open one end of the cartridge carefully, and with a sharpened lead pencil or pointed wooden stick, make a hole in the powder, insert the cap end of the fuse, being careful to see that at least one fourth of an inch of the cap remains out of the powder. Then draw the paper closely about the fuse and tie it with a strong cord.

"Never allow smoking or fire of any description near the powder, nor leave any loose caps or fuse in the vicinity of the powder."—New York State Mining Law.

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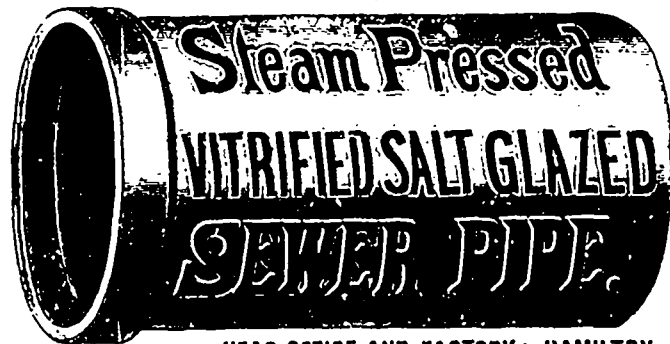
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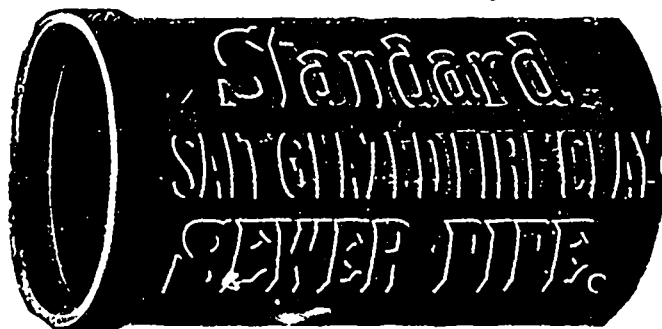
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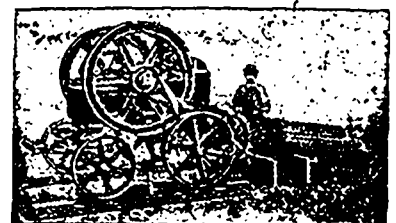
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MUNICIPAL DEPARTMENT

DUST REMOVAL.

An English municipal engineer, Mr. George Livingstone, C. E., recently visited a number of American cities, and in a lengthy paper read before the British Association of Municipal and County Engineers, gives his impressions regarding municipal work. Regarding dust removal he says:

In New York each householder has to provide two moveable receptacles, one to contain dust and ashes and the other garbage. Every morning these are placed on the sidewalk in front of the house, and the effect can scarcely be said to enhance the beauty of the city's morning aspect. The authorities arrange for the removal of the contents under two contracts—one for the dust and the other for the garbage, the collections being made at the sweet will of the contractors. The contents, when collected by these conscientious gentlemen, are removed to depots located on each river, and the privilege of sorting them for the separation of such materials as are saleable is granted—chiefly to Italians. The residuum is then dumped in specially-constructed barges and taken out to sea. Many of the residents in the better-class neighborhoods consider the system so objectionable that they make private contracts for the removal of dust and garbage rather than have the unsightly receptacles in front of their premises until it occurs to contractor No. 1 to remove the dust and contractor No. 2 to remove the garbage.

In Washington the municipal authorities are in the unique position of not being responsible for the carrying out of this work. Each householder is obliged, by law, to get rid of his own dust and ashes, the authorities confining their efforts to the disposal of the garbage. How the work is accomplished he has no knowledge, nor did he find anyone to enlighten him on the point. When he ventured to express an opinion that the arrangement was open to grave objection, as dilatory people might neglect their obligations in regard to removal, and so cause a nuisance to their neighbors, he was told that the medical officer of health was empowered to order the removal of the dust heap within a given time. In case of non-compliance the authorities would remove the dust and recover the expense from the defaulting occupiers. Whatever objection there may be to such a system from the point of view of advanced sanitation, there is no doubt that it is an ideally happy one, in conducting to the peace of mind of the municipal officers, who are freed from the possibility of complaints regarding the non-removal of dust. On the other hand, whether under such circumstances a conscientious medical officer can properly safeguard the

health of the city is open to question. It can safely be said, therefore, that the dust problem is as far removed from solution among our go-ahead American cousins as it is among ourselves, and, on the whole, the author is inclined to the opinion that our own methods for the collection, removal and disposal of house refuse are, in spite of the worry they cause officials, superior to the methods in vogue on the other side of the Atlantic.

POLLUTION OF RIVERS AND STREAMS.

Governor Hastings, of Pennsylvania, in his annual message, has the following to say as to the contamination of rivers and other sources of water supply by the discharge of sewage into them:

"We have now come to a point where the people of the State must determine whether the rivers and other public streams shall continue to be used as public sewers, or whether the waters thereof shall be kept pure. Owners of property through which or past which a public stream flows seem to have falsely concluded that the stream itself is a private property, to be dealt with as the owners choose. They use it as a common carrier or depository to all the substances of which they desire to rid themselves. The refuse of mines and factories invades its shores, and unites with the solid refuse of tanneries and slaughter houses, the garbage and night soil of public institutions, factories, villages, and towns, the carcasses of animals dead of disease, the output of abandoned salt wells, and the washings of vast culm deposits, which frequently force it from its ancient shores. As our population increases, these conditions become worse, and, if they are to be permitted, the cities and towns of the State must look elsewhere for their water supply. There are few of our rivers and larger streams that do not carry the germs of disease, gaining in their unhealthy conditions more and more as they flow onwards to the sea. It must be admitted that it is impossible to avoid all degrees and forms of public water contamination, but it has been demonstrated that to a large extent it can be eradicated. Two cities in the State, Altoona and Reading, with the most praiseworthy public spirit and consideration for the health of the population living lower down, have established purification plants for

their sewage. These plants, although entirely unlike in construction and manner of purification, afford ample demonstration of the fact that purification of the sewage of large towns is a matter entirely within the reach of sanitary engineering. The scourge of typhoid fever, which devastated our military camps during the past summer, has brought us face to face with this question. No community can remain healthy while forced to use a contaminated water supply."

SEWER VENTILATION.

During last year the corporation of Bristol, England, authorized an eminent firm of engineers to examine and report on the propriety of having the sewer system of the city ventilated. The report of the investigation as to the feasibility of carrying out such a project has been recently handed in, and the expert opinion rendered, says the Sanitary Plumber, was to the effect that the necessity for ventilating sewers can only arise from two causes. In the first place, if it should become necessary for men to enter the sewers for cleansing purposes or repairs, it is essential that the sewers should be cleared of foul gases before the men go into them, for which provision had been made, the sewers being plentifully provided with open ventilators. In the second place, it has been stated by some authorities that if sewers are not ventilated there is a risk of the sewer air being forced through the house drains into the houses; but it has always seemed that if a house is properly drained—that is, the house-drain in the first place being provided with an intercepting trap and with a soil-pipe carried above the level of the roof—this could not occur, because if the sewer air were forced through the disconnecting trap it would escape up the soil-pipe rather than force its way through the traps and sanitary appliances into the house. This admits the possibility of the sewer air forcing its way into the house-drains in spite of the existence of the intercepting trap, and, in view of such an expert admission, the natural query which suggests itself is, What is the intercepting trap there for? Probably to "intercept" the flow of the house wastes.

Mr. Robert Kerr, manager of the Kerr Engine Company, has been elected by acclamation mayor of Walkerville, Ont.

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	\$	\$	\$	\$
Mill cut boards and scantling 9 00	10 00	10 00	12 00	
Shipping cull boards, pro-				
miscuous widths.....12 00	13 00		13 00	
Shipping cull boards, stocks	15 00		16 00	
Hemlock scantling and joist				
up to 16 ft.....10 00	12 00		10 00	
Hemlock scantling and joist				
up to 18 ft.....11 00	2 00	12 00	3 00	
Hemlock scantling and joist				
up to 20 ft.....12 00	13 00	13 00	14 00	
Cedar for paving, per cord.	5 00		5 00	
Cedar for kerbing, 4 x 14,				
per M.....14 00	14 00		14 00	
Scantling and joist, up to 16 ft	14 00		14 00	
" " " " 18 ft	15 00		16 00	
" " " " 20 ft	16 00		16 00	
Scantling and joist, up to 22 ft	17 00		17 00	
" " " " 24 ft	19 00		19 00	
" " " " 26 ft	20 00		21 00	
" " " " 28 ft	22 00		23 00	
" " " " 30 ft	24 00		25 00	
" " " " 32 ft	27 00		27 00	
" " " " 34 ft	29 50		29 50	
" " " " 36 ft	31 00		31 00	
" " " " 38 ft	33 00		33 00	
" " " " 44 ft	34 00		36 00	
Cutting up planks, 1 1/2 and				
thicker, dry.....23 00	28 00	25 00	30 00	

B. M.

1 1/2 in. flooring, dressed, F M.	34 00	36 00	28 00	31 00
1 1/2 inch flooring, rough, B M.	18 00	22 00	18 00	22 00
1 1/2 " " dressed, F M.	25 00	28 00	27 00	30 00
1 1/2 " " undressed, B M.	18 00	19 00	18 00	19 00
1 " " dressed.....18 00	20 00	18 00	22 00	
1 " " undressed.....12 00	15 00	12 00	15 00	
Beaded sheeting, dressed.....20 00	35 00	22 00	35 00	
Clapboarding, dressed.....14 00	8 00	12 00		
XXX sawn shingles, per M				
16 in.....2 40	2 35		3 00	
XX sawn shingles.....1 60	1 50			
sawn lath, No. 1.....1 75	2 00	2 50	2 60	
Cedar.....2 90			2 90	
Red oak.....30 00	40 00	30 00	40 00	
White.....37 00	45 00	35 00	55 00	
Basswood, No. 1 and 2.....28 00	30 00	18 00	20 00	
Cherry, No. 1 and 2.....70 00	90 00	70 00	80 00	
White ash, No. 1 and 2.....24 00	35 00	30 00	35 00	

(Continued on Page 8.)

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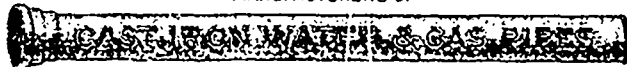
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(Continued.)

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BRICK—M

Table listing brick prices for Black Ash, Dressing stocks, Three uppers, American inspection, Lomax Walling, Good Facing, and Sewer.

FRESSED BRICK, PER M.

Table listing pressed brick prices for Red No. 1 f.o.b. Milton, Buff No. 1 f.o.b. Milton, and Hard Building.

F. O. B. DON VALLEY.

Table listing brick prices for Red A, Red B, Re. C, Trojan and Corinthian, Pompeian, Athenian and Egyptian, Tyrian, Sicilian, Roman, Carthaginian, Ornamental, Common insides, Hard sewers, and Vitrified pavers.

F. O. B. BRAMSVILLE.

Table listing brick prices for Pezles Facing, Red No. 1, 2, 3, Buff, Brown, Roman Red, Buff, Brown, Sewer, Roof Tiles, Hip Tile, and Ridge Tile.

SAND.

Table listing sand prices per load of 1/2 cubic yards.

STONE.

Table listing stone prices for Common Rubble, Large flat Rubble, Foundation Blocks, Ballochmyle, New York Blue Stone, Granite (Stanstead) Ashlar, Moat Freestone, St. Oldhelm, Bath Freestone, Black Pasture, Freestone, Thomson's Gateawbridge, Clark's N. B. Brown Stone, Brown Free Stone, Woodpoint, Sackville, N.B., Amherst Red Sandstone, Amherst N.S., Elgin Town Quarries, Olive Freestone, Madoc Rubble, Madoc dimension floating, Scoria paving blocks, and Masillon.

OHIO FREESTONE.

Table listing Ohio freestone prices for No. 1 Buff Promiscuous, No. 1 Buff Dimension, No. 1 Blue Promiscuous, No. 1 Blue Dimension, Sewed Ashlar, and Sawed Flagging.

CREDIT VALLEY STONE.

Table listing Credit Valley stone prices for Rubble, Brown Coursing, Brown Dimension, Grey Coursing, and Grey Dimension.

LONGFORD STONE.

Table listing Longford stone prices for Rubble, Ashlar, Dimension, Kent Free stone Quarries, River John, and Quebec and Vermont rough granite.

Architects.

Table listing architects: Ontario Directory, Quebec Directory, Architectural Sculptors and Carvers, Holbrook & Molling, Dominion Bridge Co., Art Woodwork, Southampton Mfg. Co., Artists' Materials, The Art Metro, Builders' Supplies, Bremner, Alex., Currie & Co., H. scales Culvert Co., Montreal Directory, Ontario Lime Association, Rice Lewis & Son, Toronto Directory, The Hardwood Lumber Co., Building Stone Dealers, Amherst Red Stone Quarry Co., Brodie, James, Credit Forks Mining & Mfg. Co., Cleveland Stone Co., The Longford Quarry Co., Builders' Hardware, Malleable Iron Co., Rice Lewis & Son, Contractors' Plant and Machinery, Rice Lewis & Son, Church and School Furniture, Can. Office & School Furniture Co., Cements, Bremner, Alex., Currie & Co., Owen Sound Portland Cement Co., The Ratbu Co., For ornamental work, Granite paving blocks, Granite curbing stone, Slate, Roofing, Paints, Portland Cement, German, Newcastle, Dyckerhoff, North's, English, Belgian, Canadian, Roman, Parian, Superfine, Hydraulic Cements, Thorold, Queenston, Napanee, Hull.

Crossed Stains

Table listing Cabot, Samuel.

Drain Pipe

Table listing Bremner, Alex., Currie & Co., Hamilton and Toronto Sewer Pipe Co., Elevators, Fensom, John, Leitch & Turnbull, Miller Bros & Toms, Electrical Apparatus, Barrie & Co., Engravers, Can. Photo-Eng Bureau, Fire Brick and Clay, Bremner, Alex., Currie & Co., Folding Partitions, Springer, O. T., Galvanized Iron Workers, Ormsby & Co., Grilles and Rulings, Dennis Wire & Iron Co., Malleable Iron Co., Toronto Fence & Ornamental Iron Works, Southampt Mfg. Co., Heating, Boston Flower Co., Dominion Radiator Mfg. Co., Gurney, Tilden Co., Ormsby & Co., Wallberg, E. A., Interior Decoration, Elliott & Son Company, Lams, Currie & Co., Ontario Lime Association.

Luxer Prisms

Table listing Luxer Prism Co.

Legal

Table listing Denton, Dods & Macdonnell, Quinn & Morrison, Mantles, Grates, and Tiles, Chas. Rogers & Sons, Colbrook & Mollington, Mosaic Marble & Ename Co., Rice Lewis & Son, Mail Chutes, The Cutler Mfg. Co., Mortar Colors and Shingle Stains, Cabot, Samuel, Muirhead, Andrew, Ornamental Iron Work, Dennis, W. re & Iron Co, Malleable Iron Co, Toronto Fence & Ornamental Iron Works, Painters, Montreal Directory, Toronto Directory, Plasterers, Hynes, W. J., Paints & Varnishes, Muirhead, Andrew, Parquetry Floors, Elliott & Son Company, Plate Glass, Lyon, N. T., The Consolidated Plate Glass Co., Plumbers, Montreal Directory, Toronto Directory, Reflectors, Frink, I. P., Reversible Windows, Duval & Co., Campbell & Gilday, Duthie & Sons, Forbes, D., Nicholson & Co., Ormsby & Co., Rennie & Son, Stewart & Co., Williams & Co., Roofing Materials, Ormsby & Co., Metallic Roofing, Sanitary Appliances, Garth & Co., Toronto Steel Clad Bath & Metal Co., The James Robertson Co., The James Morrison Brass Mfg Co., Stained and Decorative Glass, Horwood & Sons, Lyon, N. T., Mackey Stained Glass Co., McKennis' Stained Glass Works, Reardon's Art Glass Works, The Robert M. C. Wood & Stained Glass Co., Wood & Co., Shingles and Siding, Metallic Roofing Co., Ormsby & Co., Toronto Foundry Co., Typewriters, Archibald, Chas. E., Ventilators, Boston Blower Co., Waller, E. A., Wall Plaster, Albert Mfg. Co., Wire Lathing, The B. Greening Wire Company.

Roofers

Table listing Campbell & Gilday, Duthie & Sons, Forbes, D., Nicholson & Co., Ormsby & Co., Rennie & Son, Stewart & Co., Williams & Co., Roofing Materials, Ormsby & Co., Metallic Roofing, Sanitary Appliances, Garth & Co., Toronto Steel Clad Bath & Metal Co., The James Robertson Co., The James Morrison Brass Mfg Co., Stained and Decorative Glass, Horwood & Sons, Lyon, N. T., Mackey Stained Glass Co., McKennis' Stained Glass Works, Reardon's Art Glass Works, The Robert M. C. Wood & Stained Glass Co., Wood & Co., Shingles and Siding, Metallic Roofing Co., Ormsby & Co., Toronto Foundry Co., Typewriters, Archibald, Chas. E., Ventilators, Boston Blower Co., Waller, E. A., Wall Plaster, Albert Mfg. Co., Wire Lathing, The B. Greening Wire Company.

Roofing Materials

Table listing Ormsby & Co., Metallic Roofing, Sanitary Appliances, Garth & Co., Toronto Steel Clad Bath & Metal Co., The James Robertson Co., The James Morrison Brass Mfg Co., Stained and Decorative Glass, Horwood & Sons, Lyon, N. T., Mackey Stained Glass Co., McKennis' Stained Glass Works, Reardon's Art Glass Works, The Robert M. C. Wood & Stained Glass Co., Wood & Co., Shingles and Siding, Metallic Roofing Co., Ormsby & Co., Toronto Foundry Co., Typewriters, Archibald, Chas. E., Ventilators, Boston Blower Co., Waller, E. A., Wall Plaster, Albert Mfg. Co., Wire Lathing, The B. Greening Wire Company.

Sanitary Appliances

Table listing Garth & Co., Toronto Steel Clad Bath & Metal Co., The James Robertson Co., The James Morrison Brass Mfg Co., Stained and Decorative Glass, Horwood & Sons, Lyon, N. T., Mackey Stained Glass Co., McKennis' Stained Glass Works, Reardon's Art Glass Works, The Robert M. C. Wood & Stained Glass Co., Wood & Co., Shingles and Siding, Metallic Roofing Co., Ormsby & Co., Toronto Foundry Co., Typewriters, Archibald, Chas. E., Ventilators, Boston Blower Co., Waller, E. A., Wall Plaster, Albert Mfg. Co., Wire Lathing, The B. Greening Wire Company.

Stained and Decorative Glass

Table listing Horwood & Sons, Lyon, N. T., Mackey Stained Glass Co., McKennis' Stained Glass Works, Reardon's Art Glass Works, The Robert M. C. Wood & Stained Glass Co., Wood & Co., Shingles and Siding, Metallic Roofing Co., Ormsby & Co., Toronto Foundry Co., Typewriters, Archibald, Chas. E., Ventilators, Boston Blower Co., Waller, E. A., Wall Plaster, Albert Mfg. Co., Wire Lathing, The B. Greening Wire Company.

Shingles and Siding

Table listing Metallic Roofing Co., Ormsby & Co., Toronto Foundry Co., Typewriters, Archibald, Chas. E., Ventilators, Boston Blower Co., Waller, E. A., Wall Plaster, Albert Mfg. Co., Wire Lathing, The B. Greening Wire Company.

Metallic Roofing Co.

Table listing Ormsby & Co., Toronto Foundry Co., Typewriters, Archibald, Chas. E., Ventilators, Boston Blower Co., Waller, E. A., Wall Plaster, Albert Mfg. Co., Wire Lathing, The B. Greening Wire Company.

Toronto Foundry Co.

Table listing Typewriters, Archibald, Chas. E., Ventilators, Boston Blower Co., Waller, E. A., Wall Plaster, Albert Mfg. Co., Wire Lathing, The B. Greening Wire Company.

Typewriters

Table listing Archibald, Chas. E., Ventilators, Boston Blower Co., Waller, E. A., Wall Plaster, Albert Mfg. Co., Wire Lathing, The B. Greening Wire Company.

Ventilators

Table listing Boston Blower Co., Waller, E. A., Wall Plaster, Albert Mfg. Co., Wire Lathing, The B. Greening Wire Company.

Wall Plaster

Table listing Albert Mfg. Co., Wire Lathing, The B. Greening Wire Company.

Wire Lathing

Table listing The B. Greening Wire Company.

The B. Greening Wire Company

Table listing Ontario, Keene's Coarse Whites, Fire Bricks, Lime, Plaster, Hair, Plasterers', Hardware, Cut nails, Steel, CUT NAILS, FENCE AND CUT SPIKES, 40d, hot cut, 10 to 12d, hot cut, 8d, 9d, 6d, 7d, 4d to 3d, 3d, 2d, Cut spike, Steel Nails, Wire nails, Iron Pipe, Iron pipe, Adam's-Mar's Best and Queen's Head, 26 gauge, 28 gauge, Gordon Crown, 16 to 24 gauge, 26 gauge, 28 gauge, Note, Lead Pipe, Waste pipe, Galvanized Iron, Steel Beam, channels, angles, tees, plates, Sheared steel bridge plate.

CUT NAILS, FENCE AND CUT SPIKES.

Table listing 40d, hot cut, 10 to 12d, hot cut, 8d, 9d, 6d, 7d, 4d to 3d, 3d, 2d, Cut spike, Steel Nails, Wire nails.

CUT SPIKE, 10 CENTS PER KEG ADVANCE.

Table listing Steel Nails, Wire nails.

IRON PIPE

Table listing Iron pipe, Adam's-Mar's Best and Queen's Head, 26 gauge, 28 gauge, Gordon Crown, 16 to 24 gauge, 26 gauge, 28 gauge, Note.

LEAD PIPE

Table listing Lead pipe, Waste pipe, Galvanized Iron.

GALVANIZED IRON

Table listing Adam's-Mar's Best and Queen's Head, 26 gauge, 28 gauge, Gordon Crown, 16 to 24 gauge, 26 gauge, 28 gauge, Note.

STRUCTURAL IRON

Table listing Steel Beam, channels, angles, tees, plates, Sheared steel bridge plate.