

# CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF THE BUILDING INDUSTRY

PUBLIC • WORKS • TENDERS  
ADVANCE • INFORMATION  
AND • MUNICIPAL • PROGRESS

EVERY WEDNESDAY

This paper reaches every week the Town and City Clerks, Town and City Engineers, County Clerks and County Engineers, Purchasers of Municipal Debentures and leading Contractors in all lines throughout Canada.

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## THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY WEDNESDAY

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## TO BRIDGE CONTRACTORS

Sealed tenders will be received by the City Clerk, St. Catharines, Ont., until 4 o'clock p. m. on MONDAY, THE SEVENTH DAY OF DECEMBER NEXT, either separately or in bulk, for Steel Superstructure, Concrete Piers and Abutments and Earthwork Approaches of a Steel Bridge over the Grand Trunk and Niagara, Toronto and St. Catharines Railway on Queen Street, in the city of St. Catharines. Plans and specifications can be seen at the Engineer's office, St. Catharines. A deposit of 5 per cent. must accompany each tender. The lowest or any tender not necessarily accepted.

R. E. SPEAKMAN,  
City Engineer,  
St. Catharines, Ont.

## CONTRACTS OPEN.

BEEBE PLAIN, QUE.—A. Whaley intends building a residence.

GODERICH, ONT.—The foundation is being put in for a residence on East street for Mrs. Rhynas.

NORTH TORONTO, ONT.—John Sullivan has purchased a building lot on the south side of Merton street.

PORT ARTHUR, ONT.—It is stated that McKenzie & Mann will build large modern steel docks here next spring.

NORWICH, ONT.—It is proposed to submit a by-law to the ratepayers authorizing the erection of a town hall.

MIDLAND, ONT.—The town purposes spending \$19,000 for macadamized roadways, cement sidewalks and sewers.

CRANBROOK, B. C.—Jos. Brault has broken ground for a two storey addition, 52x72 feet, to the Canadian Hotel here.

SIMCOE, ONT.—It is likely that the Simcoe Glove & Mitt Company will build a large addition to their factory next spring.

COATICOOK, QUE.—The Fairbanks Scale Co., of St. Johnsbury, Vt.,

are considering the erection of a factory at this place.

WINDSOR MILLS, QUE.—The Orford Railway propose to build a branch from Kingsbury to Windsor, work to be commenced next spring.

HARRISON RIVER, B. C.—The Rat Portage Lumber Co. are completing arrangements for erection of a new saw mill here.

TILLSONBURG, ONT.—G. O. Maddock has bought a site on Washington avenue on which he intends building a residence.

HOLMFIELD, MAN.—R. Cross & Co. purpose building a new store next spring, the foundation for which has already been put in.

CHARLOTTETOWN, P. E. I.—The Provincial Government will shortly call for tenders for new bridges at Rusticoville and New Glasgow.

HULL, QUE.—The Canada Handle Co., of Gananoque, purposes establishing a factory here and will spend about \$20,000 on equipment.

QUYON, QUE.—The Hull Electric Company are considering the question of developing a water power here and of installing an electric plant.

MONCTON, N. B.—The Board of Trade will memorialize the Federal and Provincial Governments to extend the Albert Railway to Moncton.

SMITH'S FALLS, ONT.—The town council have decided to submit a by-law to the electors to raise \$14,000 to improve and enlarge the present town hall.

NIAGARA FALLS, ONT.—The Dominion Suspender Co. have purchased property on Park street on which it is intended to build a large factory.

CHATHAM, ONT.—The Trustees of School Section No. 9 made application to the township council for an appropriation of \$3,500 to erect a new school house.

PARIS, ONT.—It is understood that the Grand Trunk Railway will shortly make a proposition to the town for the erection of a new station here.

ST. THOMAS, ONT.—R. H. Blackmore has purchased the two stores to the east of his present store and will convert them into a large hardware department.

ST. BONIFACE, MAN.—It is stated that the Roman Catholics will next year erect a cathedral, hospital and convent here at an outlay reaching nearly \$2,000,000.

SARNIA, ONT.—It is said that the American Toy Co. have decided to locate their Canadian branch in this town and that the selection of a site is now under consideration.

PORT ELGIN, ONT.—D. Munro, town clerk, desires bids by 7th inst. for \$5,800 local improvement debentures and \$3,000 consolidated debentures, bearing 4 per cent. interest.

WHITBY, ONT.—It is understood that arrangements have been completed by which the Farmers' Co-operative Harvesting Machine Co. will build a factory in this town.

FORT STEELE, B. C.—The Gold River Mining Co., of which D. S. Guinther is superintendent, has secured water rights on the Bull river and intend developing the power.

ST. CUNEGONDE, QUE.—It has been decided to build a new city hall, to cost about \$30,000. Messrs. Dufort, Piche and Marchand, local architects, will submit competitive plans.

MAGNETAWAN, ONT.—Prominent citizens have subscribed the necessary capital and formed a company for the installation of an electric light plant for street and commercial lighting.

NEWMARKET, ONT.—The town will apply to the Lieutenant-Governor-in-Council for permission to raise \$4,000 for extensions and improvements to the waterworks and electric light systems.

BRIDGEBURG, ONT.—It is understood that the proposed government building to be built here will be 40x50 feet, three-stories and basement, and that it will be commenced early next year.

ST. JOHN, N. B.—Louis Coste, engineer for the Imperial Dry Dock Co., arrived here last week with plans for the proposed dry dock on the west side of the harbor to be built by that company.

MAISONNEUVE, QUE.—The council have decided to grant exemption from taxation to Warden King & Son, Montreal, who purpose building a factory here for the manufacture of heating apparatus.

MEAFORD, ONT.—W. Moore & Son are developing a water power about two miles from here. It is expected to install machinery in the power house in the spring and to have the work completed by next midsummer.

BERLIN, ONT.—The legal difficulties having been settled, the town will proceed with the construction of new sewage filtration beds and other extensive improvements. The cost will be in the neighborhood of \$60,000.

REGINA, N.W.T.—John Erickson, of Hancock, Minn., has purchased property at the corner of Albert and South Railway streets, this place, and intends erecting a three-storey brick building, 50 x 100 feet.

LONDON, ONT.—The William Davies Co. are negotiating for a site in the east end of the city on which to build a branch store.—It is likely that the County Commissioner will recommend the construction of several new bridges at the county council meeting next week.

STRATFORD, ONT.—N. N. Cantin, of St. Joseph, and F. M. Hamel, of Ottawa, were in the city last week in connection with the projected railway from St. Joseph, on Lake Huron, to this city. The right of way has been bought as far as Hensall.

CALGARY, N. W. T.—Plans for the new Central school have been completed and tenders will be invited at once.—The C. P. R. has had plans prepared for modern stock yards at Medicine Hat, Dunmoore and Suffield. The yards will contain four chutes, with four 50 foot pens.

PORTAGE LA PRAIRIE, MAN.—McLennan & Rae, well known hotel men of Minnedosa, have purchased property on corner of Main street and Pacific avenue and intend erecting on the property a first-class hotel to cost about \$25,000. It is understood that plans have already been prepared.

ST. THOMAS, ONT.—A by-law will be submitted to the ratepayers in January to grant a bonus of \$20,000 and exemption from taxation to the Lake Erie & Detroit River Railway to establish repair shops here. The building is not to cost less than \$75,000, and the machinery and plant \$50,000.

FREDERICTON, N. B.—The Department of Public Works want tenders by 21st inst. for rebuilding Herring Cove bridge, parish of Alma, Albert county, and O'Regan's Brook bridge, parish of Drummond, Victoria county.

COLLINGWOOD, ONT.—E. D. Morris, of Toronto, representing capitalists, has made a proposition to the town council to establish a gas plant here.—Bids received by W. Williams, Chairman Finance Committee, up to 5th inst. for purchase of \$14,300 debentures.

SPRINGHILL, N.S.—The Maritime Contracting & Mining Co. have entered into a contract with the town to construct a gravitation waterworks system, at an estimated cost of \$10,000. The water will be brought from near the highest lands of the Cobequid Mountains, a distance of seven miles.

ST. CATHARINES, ONT.—The Department of Railways and Canals, Ottawa, is asking for tenders up to 9th inst. for removal of the centre pier of three bridges on the Summit Level of the Welland Canal, also for deepening the rock cut at Ramey's Bend, north of the village of Humberstone.

GALT, ONT.—The Structural Steel Bridge Co. have submitted to the town council a proposition to establish bridge works in this town.—It is proposed to submit a by-law to the ratepayers to raise \$10,000 by debentures for payment of sewer construction.—Engineer Davis has reported on the cost of installing a general sewerage system.

VICTORIA, B. C.—The Strathcona Hotel at Shawinigan Lake has been purchased by Mrs. J. E. Wark, of this city, who intends making important improvements, including new bar, new bathrooms, and erection of an addition.—Grant & Conyers have sold to Mrs. Spofford four lots in the east end of the city on which she will build a handsome residence.

NORTH VANCOUVER, B. C.—The council have instructed F. G. L. Tytler, C. E., to prepare plans for a waterwork system for the municipality, the supply to be obtained from Lynn Creek. Same party has been instructed to report upon the cost, etc., of the construction of a new bridge over Lynn creek.—The North Vancouver Power & Ferry Co. has completed arrangements for the construction of a new ferry steamer.

VANCOUVER, B. C.—The Oriental Power & Pulp Co. have commenced actual operations for the construction of pulp and paper mills at Swanson Bay. A

saw mill will also be built.—Subscriptions are coming in liberally for the proposed new Y. M. C. A. building to be erected on the corner of Cambie and Dunsmuir streets.—The council has passed by-laws to issue debentures for \$50,000 to be devoted to the construction of a new general hospital in Fairview and about \$130,000 for the construction of sewers.

GLACE BAY, N.S.—The extension to the Dominion Coal Co.'s building here will be more elaborate than at first proposed. It will be 40 x 80 feet, with a vault 12 x 10 feet, and the old building will be completely remodelled.—The ratepayers, at a public meeting last week, endorsed the proposition of the council to raise \$50,000 for an extension of the sewerage system and \$100,000 to make further improvements of a permanent nature on the streets and to build a bridge across the Caledonia dam.

WINNIPEG, MAN.—The Winnipeg Ceiling & Roofing Co. will erect a factory in Fort Rouge next year.—The W. M. Gibson Carpet Co. has purchased the property on the north-west corner of Main street and Alexander avenue and will make extensive alterations thereto.—It is stated that work will be started at once on the new Immigration Hall to be built on Maple street.—James McKenzie, of Lakeside, W. H. Nesbitt and James C. Simpson have purchased property on the east side of Main street, 70 feet frontage, running south from near Rupert street, and intend erecting a fine business block in the near future.

WINDSOR, ONT.—The executive committee of the Windsor Memorial Fountain Fund have accepted the plans prepared by Architect Scott.—A firm of Detroit architects have prepared plans for a new Catholic church costing \$50,000 to be built in this city, and they are now in the hands of Frs. Downey and Meunier, of St. Alphonsus's church.—The members of the Windsor, Essex & Lake Shore Rapid Railway Co. state that they expect to be in a position to commence work on the road at an early date. One of the power houses will be located in this city.

OTTAWA, ONT.—L. K. Jones, Secretary Department Railways and Canals, will receive tenders up to 16th inst. for construction of masonry piers, filling of approaches, etc., for bridge at Concession street.—The Public School Board have just taken tenders for supply of desks and school furniture for the year 1904.—Plans have been completed for a new Jewish synagogue to be built on King

street, to cost \$15,000. Work will be commenced in the spring.—It is proposed to pave Nicholas, Theodore, Charlotte and Rideau streets, at an estimated cost of \$231,000. The Ottawa Improvement Commission will be asked to assume a share of the cost.

HAMILTON, ONT.—The Bank of Hamilton will add three storeys to its head office at the corner of King and James streets and will erect a six-storey addition to the premises now occupied by the C.P.R. Telegraph Co.—J. P. Hennessy has been granted a building permit for a brick dwelling on corner of Barton and Wentworth streets, to cost \$2,600.—The Bell Telephone Co. will make alterations to the interior of their office building, at a cost of \$3,000.—The necessity of installing a sewerage system in the district west of Dundurn street is being urged.—George H. Milne is building a brick dwelling on Hesse street, between Hunter and Bold street, to cost \$1,800.—Westinghouse, Church, Kerr & Co. have been granted a building permit for the new buildings for the Canadian Westinghouse Co. The sum to be expended is \$234,800, made up of detailed buildings, \$32,500; warehouse, \$58,000; machine shops, \$65,500; fire proof foundry, \$32,000; pattern shop, \$20,800; pattern storage shop, \$12,000; oil and boiler houses, \$12,000; sub-station, \$2,000.

MONTREAL, QUE.—Daniel Gallery, M. P., recently had an interview with the Minister of Canals regarding the construction of a large basin or lock at the foot of the Lachine canal by which ocean going vessels might be admitted to the St. Lawrence canal system. He pointed out that very little excavation would be required.—The Protestant Board of School Commissioners have issued a circular to ratepayers pointing out the necessity of increased school accommodation. It is urged that two new schools be built.—Robert Findlay, architect, has been engaged to prepare plans for the new maternity hospital, to be commenced next spring.—Building permits have been granted as follows: E. L. Bough, 1 story bldg., Huntly street, cost \$1,000; D. Snider, 2 story bldg., Aylwin street, cost \$1,800; E. Gauthier, 2 story bldg., Cuvillier street, cost \$2,000 (R. E. Edwards, contractor); J. Robertson, 1 story bldg., Dalhousie street, cost \$1,900; C. Lafortune, 3 story bldg., St. Germain and Ontario streets, cost \$3,500; H. Bourgie & Co., 2 story bldg., Frontenac street, cost \$1,000; F. Beland, pair 2 story bldgs., St. Charles street, cost \$1,700.

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**TORONTO, ONT.**—It is understood that E. J. Lennox, architect, has been commissioned to prepare plans for a ten-storey office building to be built on the north side of King street, east of Victoria street.—The Robert Simpson Company, Limited, intend putting on additional storeys to the Richmond street portion of their building so as to make it the full height of the main structure.—Plans have been prepared for extensive alterations to the Rossin House, corner King and York streets, to be carried out this winter. A commodious rotunda will be made, the main entrance on York street remodelled and a new steam plant installed. The latter will embody the building of a 100 foot chimney.—The Board of Control have decided not to adopt the recommendation of the Industrial Exhibition Association that a by-law be submitted to the ratepayers to provide \$200,000 for new buildings.—The W. J. Bradley Machine Co. purpose building a foundry at 785 King street west for the manufacture of small castings.—The officials of the Grand Trunk and Canadian Pacific Railways are again considering a proposal to remodel the Union station.—D. H. Morehouse will build two pair of residences on First avenue, near Broadview.—The Metropolitan Railway Co. have arranged with all the property owners interested for the extension of their line from Newmarket to Jackson's Point, a distance of about twenty miles. The work will be carried to completion as soon as possible.—Henry Greisman, manager of the Canadian Suspender Co., is understood to have had plans prepared by local architects for a tenement house which he purposes building next spring.—The Ontario Steel Mills Co., with works in Leamington and head office in this city, intend establishing two other plants in Ontario towns, the names of which are not yet announced. Arthur Hatch, late manager of the Gault Bros. Co., has been appointed manager of this company.—Tenders are wanted at 4 and 6 Farley avenue for stone and brick work of factory.—The Victoria Industrial School Board will make an effort to secure funds for the construction of swimming baths at the Mimico school. The amount needed is about \$5,000.—The council has given notice of its intention to construct the following works: Tar macadam roadway on Lewis street, from Queen street to Eastern avenue, cost \$5,195; asphalt pavement on Abb street, from Brock avenue to a point 296 feet west, cost \$1,398; cement concrete sidewalks, King street, north side, Simcoe to John, cost \$1,390; Brunswick avenue, east side, Colledge to Ulster, cost \$1,204; McCaul street, west side, St. Patrick to Baldwin, cost \$1,112; King street, north side, Berkeley street to 75 feet east, cost \$247; Abb street, south side, Brock avenue to 296 feet west, cost \$411; Ottawa street, east side, Shaftsbury to Summerhill, cost \$317; Ottawa street, west side, Shaftsbury to Summerhill, cost \$330; Abb street, north side, Brock avenue to 296 feet west, \$411.—Building permits have been granted as follows: Joseph Russell, brick dwelling, 341 Westley street, cost \$1,200; Harry Jarman, brick dwelling, 301 Lansdowne avenue, cost \$1,500; A. Sims, two storey and attic brick dwelling, south side Simpson avenue, cost \$2,100; Joseph Hill, five brick dwellings, Margueretta street, near Colledge, cost \$8,000; T. G. Blackstock, two and a half storey brick and stone addition to dwelling, 20 Homewood avenue, cost \$4,000; R. E. McCall, two-storey and attic detached brick and stone addition to dwelling, west side Russholme road, near Dewson street, cost \$3,000; L. Schurr, two and a half-storey brick and frame dwelling, 39 Grant street, cost \$2,500; E. C. McArdie, pair two

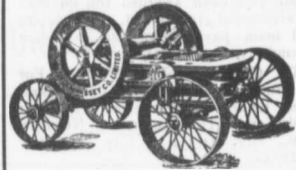
and a half-storeys stone and brick dwelling, Close avenue, cost \$5,000; Howard Bonell, alterations to residence, 49 Garden avenue, cost \$1,000; Henry Graham, two and a half-storey brick and stone dwelling, north side Hepbourne street, cost \$4,000; Thomas Robinson, pair two-storey brick and rough-cast dwelling, 560 and 562 Delaware avenue, cost \$2,400; Canadian Pacific Railway, coaling plant, 9 Lake street, cost \$6,000; Mrs. A. A. Clarke, two-storey brick dwelling, Huron street, north of Bernard avenue, cost \$3,600; C. R. Dinnick, two-storey stone and brick dwelling, Bernard avenue, cost \$2,300; George Britnell, brick and stone dwelling and carriage factory, cost \$9,000; Mrs. T. A. Rowan, brick stable, 206 Bloor street, cost \$1,000.

**FIRES.**

Evaporating factory of Hann & Gibbs at Lancaster, Ont.; loss \$2,000.—Residence of J. Raynor on Main street, Hamilton; loss \$2,500.—Queen's Hotel at Pilot Mound, Man., totally destroyed. Residence of Mrs. Kate Millett at Norwood, Ont.; loss \$2,000.—Paper box factory of George Mace & Co., corner

St. George and St. Jean Baptiste streets, Montreal. Plant and building damaged to extent of \$10,000.—Dry goods store of Dowling Bros. and departmental store of E. P. Charlton at St. John, N.B., both badly damaged by fire; loss \$12,000 and \$15,000 respectively.

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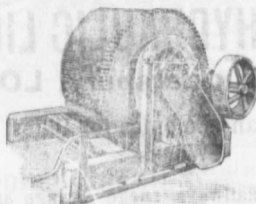
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## CONTRACTS AWARDED.

VANCOUVER, B. C.—Building on Hastings street for the Bank of Nova Scotia; Dalton & Eveleigh, architects; T. Horrobin, contractor.

OTTAWA, ONT.—Contract for sub-structures for two new bridges over the Lachine canal at Cote St. Paul has been awarded to Coulson, Quinlan & Robertson.

CALGARY, N. W. T. — Boyd & Sutor have been awarded the contract for erection of grand stand, cattle stables and main pavilion on the exhibition grounds; price, \$12,218.

ST. CATHARINES, ONT. — For construction of a sewer on Ontario street tenders were received as follows: J. McKnight, Toronto, \$1,503; Newman Bros., city, \$1,334; City Engineer, \$1,226.55.

WALKERVILLE, ONT. — Three Kelsey warm air generators are to be in-

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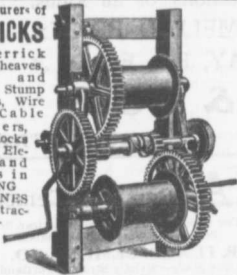
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stalled in the new St. Mary's Memorial church; here, Neveux, Cinton & Baxter, of Windsor, having the contract, under direction of Mr. Kahn, architect, Detroit.

LETHBRIDGE, N. W. T. — Cazier Bros., contractors, have just commenced work on an extensive irrigation system in the vicinity of Raymond. The contract calls for the building of a canal, to cost about \$200,000, and to be 25 feet wide

at the bottom with a general depth of about 6 feet. About 40,000 acres of land will be irrigated.

LONDON, ONT.—Residence for C. H. Elliott, South London: Brick work, Joseph Garrett; carpenter work, W. S. Davidson; plumbing, James Greenaway; galvanized iron work, William Stevely & Son.—The contract for Infants' Home has been awarded to John Purdom.

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**TORONTO BUILDING BY-LAW.**

All architects, builders, tradesmen, and other citizens who contemplate erecting, altering or adding to any building within the limits of the city of Toronto, are requested to observe the provisions of the City By-Law in that behalf, which provides that plans and specifications must be submitted to the Department of Assessment and Property for approval and permit prior to the inception of any such work.

The observance of these regulations will materially assist the Department in the proper and effective administration of the Building By-law, and will also save a deal of inconvenience and possibly heavy expense to those whose neglect of such constitutes a contravention of By-law No. 2468.

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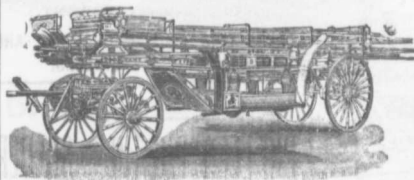
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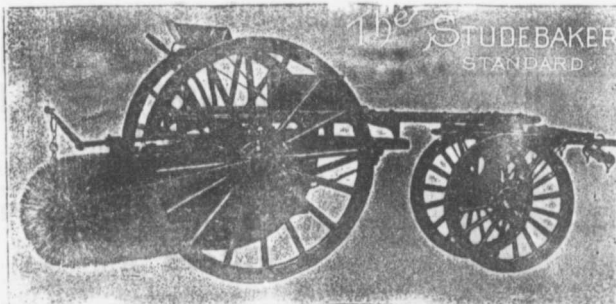
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## BUSINESS NOTES.

Samuel Smith, contractor, Carleton, N. W. T., has assigned to William Laurie, trustee.

The Toronto Co-Operative Carpenters and Builders is announced to have assigned to G. W. Booth.

The Credit Forks Vitrified Stoneware Sewer Pipe Co., Limited, has been incorporated, with a capital of \$200,000, with head office in Toronto. The incor-

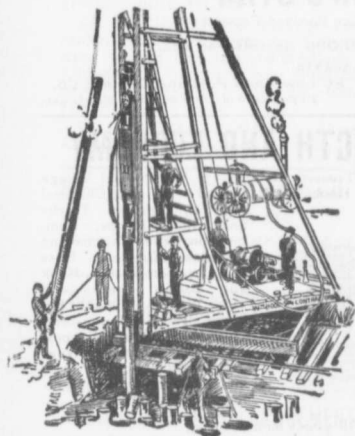
porators are Robert Carroll, J. H. McKnight, A. H. Chitty, W. T. Thompson and S. G. Stone.

E. L. Sawyer, W. T. McMahon, F. M. Holland, William Bam, Robert Gowans, E. W. McNeill and Richard Richardson have been incorporated as the Canadian Contractors, Limited, with a total capital stock of \$3,000,000 and head office in Montreal.

The Frank R. J. MacPherson Company has been formed in Peterborough,

Ont., as contractors for sanitary plumbing, steam and hot water heating, electrical work, etc. The members of the company are F. R. J. MacPherson, T. D. McGregor, and F. T. Butters.

The American Asbestos Co. has been incorporated in Canada, with a capital of \$1,000,000 and headquarters in Montreal. The promoters include H. M. Whitney, of Boston, and B. F. Pearson of Halifax. The company proposes to mine and manufacture asbestos and to generate electricity.



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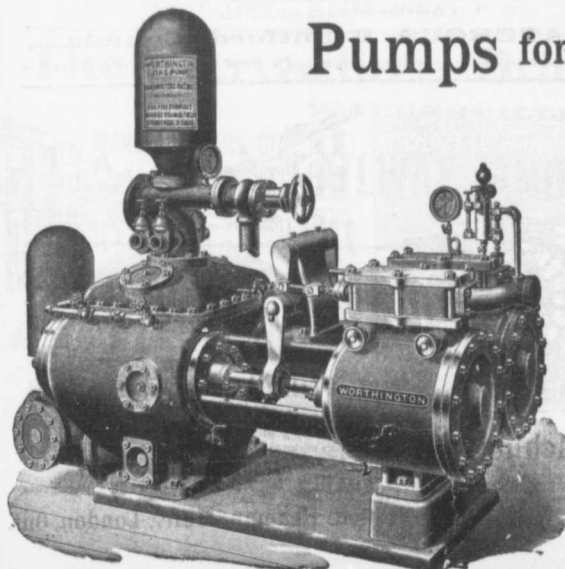
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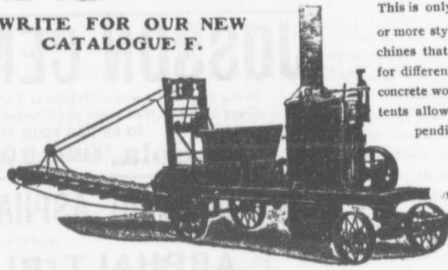
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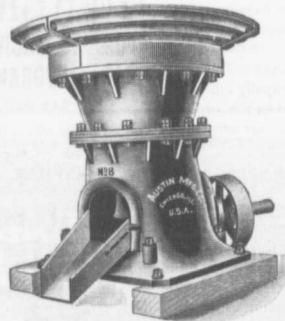
NUMBER OF PATENTS	
35,664	
672,934	
675,035	
675,036	
675,037	
698,182	
698,910	
699,667	
699,668	
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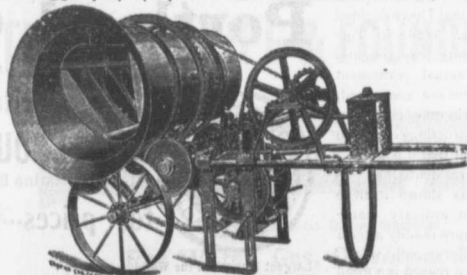
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## MUNICIPAL DEPARTMENT

### PAVEMENT WORK IN TORONTO.

Mr. C. H. Rust, City Engineer of Toronto, in his report for 1902, thus refers to the various classes of pavement constructed during the year:

**ASPHALT PAVEMENTS.**—At the commencement of the year only two companies were tendering for the construction of asphalt pavements, both using Trinidad Pitch Lake asphalt. In June last a new firm of contractors entered the field, whose tenders were for the use of Acme California asphalt in the construction of pavements. The advent of the new company resulted in a very large decrease in the cost of constructing asphalt pavements.

**CEDAR BLOCK PAVEMENTS.**—An appreciable decrease has taken place in the mileage of cedar block pavements, both in the construction of new pavements and the renewal of old and worn-out ones, which may be taken as an evidence of the desire of property owners to have permanent pavements constructed opposite their property.

**TAR MACADAM ROADWAYS.**—This class of roadway has come rapidly into favor and is of a better class than the ordinary macadam roads. It is so far only in the experimental stage and therefore we are not in a position to speak definitely as to its wearing qualities. It will probably prove a satisfactory roadway on residential streets over which there is light traffic, and its wearing qualities will be governed by the life-time of the tar and pitch forming the bond. In the construction of these roadways, and some of the ordinary macadam roadways, we have used brick gutters, which are a decided improvement over the old method.

**MACADAM ROADWAYS.**—The mileage of macadam roadways is increasing year by year, but I do not favor their construction, as it is very difficult to obtain suitable stone, and it necessarily takes a long time to construct a macadam roadway, which causes considerable annoyance to the people living on the streets where the roadways are being constructed. This class of roadway is dusty and dry, and very dirty in wet weather.

### TAR MACADAM ROADWAYS.

This class of roadways, says the City Engineer of Toronto, is growing in popular favor to such an extent that I have decided to give it special notice. While in Toronto we are really yet in the experimental stage, so far as the actual permanent qualities of this pavement are concerned, still the results obtained in other cities and the care used in constructing our own streets make us confident that it is a good class of pavement for residential streets with light traffic. It has shown itself to be much less dusty than ordinary macadam and drains much more readily after a rain storm, owing to the smooth water-tight surface, and for that reason is a good

pavement from a sanitary point of view. Time only will show its actual wearing qualities, which are governed entirely by the "life" of the tar and paving pitch forming the elastic bond of the crushed stone wearing surface.

The collapse of a pipe sewer which occurred not long ago in a suburb of London is of interest. A length of 7,300 feet of 21 and 18-inch vitrified bell and spigot pipe was constructed about twelve years ago largely in a tunnel 2 feet 9 inches wide by 4 feet high through clay. The sewer was surrounded by a concrete of one part Portland cement and five parts burnt clay

ballast filling the excavation to a height of 6 inches above the pipe. The space above the concrete was refilled with earth. The depth from the ground surface to the pipe varied from 5 to 119 feet. Breakage was so extensive that the whole stretch is to be replaced by a larger sewer, also in tunnel, the spaces outside which are to be completely filled with gravel concrete.

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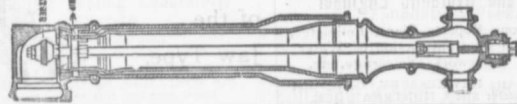
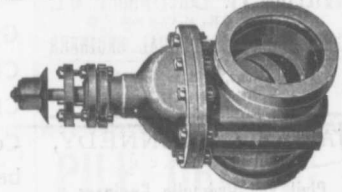
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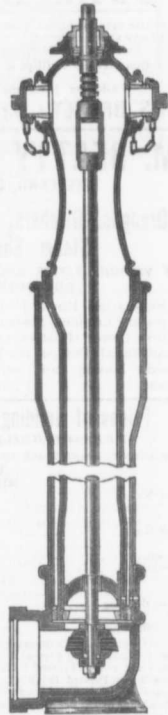
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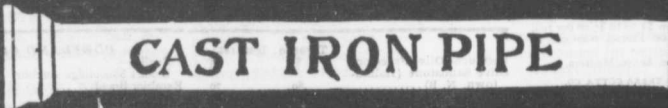
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			Monson Brand.....	2 00	2 05
			Magnet.....	1 75	1 80
			Monarch.....	2 10	2 20
			Hercules.....	2 30	2 41
			Lion Brand.....	2 00	2 25
			Imperial.....	2 10	
			American.....		
			Alpha Brand.....	2 00	2 10
			Alsen's.....	2 50	2 75
			Lenigh, in bbls., 375 lbs. cotton sacks, 250 net.....	2 00	2 50
			" " paper bags.....	2 10	2 35
			Keene's "Superine" Whites.....	10 00	12 00
			Keene's Coarse "Whites".....	6 50	7 00
			Fire Bricks, Newcastle, per M.....	37 00	33 00
			" " Scotch.....	26 00	33 00
			Plaster, Calcined, N. B.....	2 00	2 00
			" " N. S.....	2 00	1 85