

Technical and Bibliographic Notes / Notes techniques et bibliographiques

The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of filming, are checked below.

L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.

- Coloured covers/
Couverture de couleur
- Covers damaged/
Couverture endommagée
- Covers restored and/or laminated/
Couverture restaurée et/ou pelliculée
- Cover title missing/
Le titre de couverture manque
- Coloured maps/
Cartes géographiques en couleur
- Coloured ink (i.e. other than blue or black)/
Encre de couleur (i.e. autre que bleue ou noire)
- Coloured plates and/or illustrations/
Planches et/ou illustrations en couleur
- Bound with other material/
Relié avec d'autres documents
- Tight binding may cause shadows or distortion along interior margin/
La reliure serrée peut causer de l'ombre ou de la distorsion le long de la marge intérieure
- Blank leaves added during restoration may appear within the text. Whenever possible, these have been omitted from filming/
Il se peut que certaines pages blanches ajoutées lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages n'ont pas été filmées.
- Additional comments:
Commentaires supplémentaires:

- Coloured pages/
Pages de couleur
- Pages damaged/
Pages endommagées
- Pages restored and/or laminated/
Pages restaurées et/ou pelliculées
- Pages discoloured, stained or foxed/
Pages décolorées, tachetées ou piquées
- Pages detached/
Pages détachées
- Showthrough/
Transparence
- Quality of print varies/
Qualité inégale de l'impression
- Continuous pagination/
Pagination continue
- Includes index(es)/
Comprend un (des) index
- Title on header taken from: /
Le titre de l'en-tête provient:
- Title page of issue/
Page de titre de la livraison
- Caption of issue/
Titre de départ de la livraison
- Masthead/
Générique (périodiques) de la livraison

This item is filmed at the reduction ratio checked below/
Ce document est filmé au taux de réduction indiqué ci-dessous.

10X	12X	14X	16X	18X	20X	22X	24X	26X	28X	30X	32X
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF THE CONTRACT RECORD

PUBLIC WORKS • TENDERS • ADVANCE INFORMATION • AND MUNICIPAL PROGRESS

EVERY THURSDAY

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

Vol. 8.

MAY 13, 1897

No. 15.

THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY THURSDAY

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

Subscription price of "Canadian Architect and Builder" (including "Canadian Contract Record"), \$2 per annum, payable in advance.

G. H. MORTIMER, Publisher,

CONFEDERATION LIFE BUILDING, TORONTO.
Telephone 2362.

New York Life Insurance Building, Montreal.
Bell Telephone 2299.

Information solicited from any part of the Dominion regarding contracts open to tender.

Advertising Rates on application.

TENDERS

Tenders will be received up till noon, SATURDAY, THE 20TH INST., for the different trades required in the erection of an Office Building, corner of King and Yonge streets:

Excavating, Masonry and Brickwork, Carpentry, Plastering, Tinsmithing and Roofing, Painting and Glazing, Ironwork, Ornamental Ironwork, Electric Elevators, Plumbing, Heating, &c.

Plans and specifications may be seen at the office of DARLING & PEARSON, Architects, Mail Building, Toronto.

Lowest or any tender not necessarily accepted.

CEMENT WALKS

Tenders will be received by the Town Clerk, Berlin, Ont., up to noon on

Tuesday, May 25th, 1897,

for the construction of cement walks in the Town of Berlin during the year 1897.

Specifications and forms of tender may be obtained from the undersigned.

HERBERT J. BOWMAN,
Town Engineer.

Berlin, May 1st, 1897.

TENDERS FOR ELECTIC LIGHTING.

Sealed tenders endorsed "Tender for Electric Lights" and addressed to the Town Clerk, Owen Sound, will be received up to 12 o'clock, noon, MONDAY, MAY 10, 1897, for lighting the streets of the Town of Owen Sound with arc electric lights for a period optional with the town of five or ten years from September 30, 1897.

Specifications may be seen and forms of tender obtained at the office of the Town Clerk.

An \$200 accepted bank cheque payable to order of the Town Treasurer, Owen Sound, to accompany each tender. Cheque to be returned if tender not accepted. The lowest or any tender not necessarily accepted.

JOHN WELDRICK,

Chairman of Committee on Fire and Light.
Owen Sound, April 22, 1897.

POSTPONEMENT

The time for receiving tenders as above advertised is hereby extended to 12 o'clock, noon, TUESDAY, MAY 25th NEXT; and proposals for commercial electric lighting also are invited in accordance with the specifications therefor.

JOHN WELDRICK,

Chairman Committee on Fire and Light.
Owen Sound, April 29, 1897.

To Contractors TENDERS

Tenders will be received by the Architect up to 5 p. m. on THURSDAY, THE 20TH INSTANT, for the following trades required in the erection of

A NEW FACTORY BUILDING

47 ft. x 150 ft., three story, mill construction on the north-west corner of Atlantic Avenue and Liberty Street:

Masonry and Brickwork, Carpentry, Galvanized Iron, Roofing, Painting and Glazing.

Plans and full specifications can be seen and all information obtained at the office of the undersigned. The lowest or any tender not necessarily accepted.

F. H. HERBERT, Architect,
York Chambers, 9 Toronto Street, Toronto.

Asphalt Paving

NOTICE TO CONTRACTORS

Tenders addressed to Ald. Wallace, Chairman of Board of Works, Ottawa, and endorsed "Tenders for Asphalt Paving," will be received by registered letter only at the post-office, or by the mails due before

Noon of Wednesday, May 26th, 1897,

for the construction of an asphalt roadway on Bank street, between Maria and Ann streets.

The specifications and conditions of agreement can be seen on application at the City Engineer's office, City Hall, Ottawa.

Each tender must be accompanied by an accepted bank cheque, made payable to the City Treasurer, for the sum of \$2,500, which sum will be forfeited if the party declines to enter into the contract when called upon so to do. If any tender be not accepted the cheque submitted will be returned.

All tenders must be on the printed forms furnished, with the several prices properly filled in, and accompanied with the required cheques, or they will be ruled out as informal. The corporation do not bind themselves to accept the lowest or any tender.

ROBERT SURTEES,

City Engineer.

City Engineer's office, City Hall,
Ottawa, May 10th, 1897.

BUSINESS NOTES.

Barbeau & Fournier, contractors, Montreal, have dissolved partnership.

Camille Prevost and A. T. A. Chagnon, builders, Longueuil, Que., have formed a partnership under the name of A. Chagnon & Co.

The following partnerships have been registered at Montreal: Boutillier & Cadieux, plasterers; Light & Scott, carpenters; E. J. Maxwell & Co., lumber dealers; A. Chagnon & Co., builders and contractors.

CONTRACTS OPEN.

SAWYERVILLE, QUE.—W. Sawyer proposes building a residence.

DUTTON, ONT.—It is probable that a jubilee hall will be erected here.

CLAYTON, ONT.—A Presbyterian church, to cost \$3,200, will be built here.

STE. AGATHE, MAN.—A large parish church will be built at this place.

NEWTON, ONT.—It is the intention of P. Rennie to erect a new residence.

HAILEYBURY, ONT.—A Presbyterian church will be built here this summer.

WALKERTON, ONT.—Tenders will shortly be asked for the erection of a town hall.

SUNRIDGE, ONT.—It is understood that F. A. Quirt proposes building at an early date.

PORT GREVILLE, N. B.—H. Elderkin & Co. intend building a pole railway this summer.

WINDSOR, ONT.—Mayor Davis will shortly commence the erection of a brick warehouse.

CHATHAM, ONT.—The hospital board are having plans prepared for an addition to the hospital.

MITCHELL, ONT.—The congregation of Trinity church have decided to build a new edifice.

DUNTRON, ONT.—George Thompson will shortly build a solid brick residence near this village.

LINDSAY, ONT.—The council is considering the question of constructing a sewage system.

MERRITON, ONT.—It has been decided to put in an electric fire alarm system, at a cost of \$1,000.

GALT, ONT.—Tenders are asked for a new building for the Chalmers street church congregation.

OWEN SOUND, ONT.—A joint stock company will be formed at once to erect a large grain elevator.

AVLMER, ONT.—A public meeting is announced to consider the construction of a system of sewerage.

NORWOOD, ONT.—Tucker Bros. are preparing to rebuild.—W. E. Roxburgh will erect a block of four stores.

MAQUAPIT LAKE, N. B.—The bridge across the river here was carried away by floods. A new structure will be necessary.

NEWMARKET, ONT.—Mr. Burke, soda water manufacturer, will erect a solid brick building, corner Main and Huron streets.

PICTON, ONT.—A new town hall, electric light plant, and improved waterworks, to cost in the neighborhood of \$30,000, are proposed.

CAMPBELLFORD, ONT.—It is said to be the intention of the Ontario Government to replace Chisholm's dam by a new structure.

SACKVILLE, N. B.—The church will be extensively remodelled and refurnished.

during the summer. H. H. Mott, St. John, architect.

WATERLOO, ONT.—The citizens will adopt incandescent electric lighting for places of business and residences.

COLLINGWOOD, ONT.—The Secretary of the School Board has been instructed to invite tenders for steam heating the Central school.

NIAGARA FALLS, ONT.—The Canadian Niagara Power Company will proceed at once with the development of the water power of the Falls.

SYDNEY, C. B.—Plans prepared by H. H. Mott, architect, St. John, have been accepted for a Y. M. C. A. building here. Estimated cost, \$3,500.

STRATFORD, ONT.—The city council have given notice that it is proposed to construct sewers on Nile, Front, Bay, Queen and William streets.

PORT HOPE, ONT.—The Provincial Board of Health has granted permission to the town to dispose of its sewage by an outfall into Smith's Creek.

ST. JOHN, N. B.—Construction has begun on the new factory for Jas. Ready, the mason work being done by B. Mooney & Sons. Architect, R. C. J. Dunn.

BERLIN, ONT.—The by-law to raise \$3,000 for the purchase of a steam road roller has been defeated. A machine will probably be rented for the season.

QUEBEC, QUE.—H. Staveley, architect, will receive tenders until the 17th inst. for the erection of a building for the District Railway Company on D'Aiguillon street.

PEMBROKE, ONT.—A. Meehan will receive tenders until the 25th inst. for the erection of a brick block on Main street, from plans prepared by P. Arnold, architect.

ST. MARYS, ONT.—Tenders are asked by P. Whelan for the erection of a block of stores, plans for which have been prepared by D. G. Baxter, architect, of Stratford.

FORT WILLIAM, ONT.—The ratepayers will be asked to grant the sum of \$35,000 for waterworks and \$13,000 for an electric light plant. Voting will take place on July 9th.

WINNIPEG, MAN.—N. Bawlf proposes building a residence at the corner of Kennedy and Assiniboine streets, to cost \$10,000. Work on the foundation will be commenced this spring.

SANDWICH, ONT.—The township council of Sandwich West has granted a franchise to the Windsor, Amherstburg & Lake Erie Railway Company to construct a railway through the township.

PERTH, ONT.—It is said that a number of cottages will be built on the Rideau this summer by Americans.—It is expected that Mr. Charlebois will shortly commence work on the construction of a waterworks system.

ST. CATHARINES, ONT.—Proposals for the purchase of \$20,000 of five per cent. debentures of the Niagara Falls Suspension Bridge Company are asked up to May 20th. Address Thos. R. Merritt, president.

SUSSEX, N.B.—H. H. Mott, architect, of St. John, has prepared plans for improvements to W. H. White's residence.—Work has been commenced on the three storey brick building to be built for Geo. H. White & Sons.

BROCKVILLE, ONT.—T. E. Bradburn has had plans prepared for the reconstruction of the St. Lawrence Hall. The improvements will embody the latest ideas of construction and will cost about \$10,000.

HALIFAX, N. S.—The Central Railway Company contemplate the immediate extension of their road to Halifax, Liverpool and Margaretsville.—The Granville & Victoria Beach Railway & Developing Com-

pany is being organized to construct a railway.

MONCTON, N. B.—Preparations are being made for the construction of a new railway station here.—At a meeting of those interested in the erection of a hospital building, it was decided to erect a building not exceeding \$7,000 in cost.

DUNDAS, ONT.—Only one tender was received for lighting the town by electricity.—A committee appointed by the town council to inquire into the advisability of rebuilding the dam has reported in favor of the work, which will cost \$5,500.

KINGSTON, ONT.—Orders have been received by William Newlands, architect, to carry out repairs to Tete du Pont barracks, to cost from \$1,200 to \$1,500.—W. Newlands, architect, is receiving tenders this week for a brick residence for Prof. Cappon.

CAMPBELLTON, N. B.—The Restigouche Railway & Bridge Company applies for an act of incorporation, to construct a railway from a point near this town to a point on the Bay Chaleurs Railway in Quebec, and to construct a railway bridge across the Restigouche river.

BELLEVILLE, ONT.—The city will construct a sewer on William street, at a cost of \$2,250.—Mr. Hulme, street surveyor, has recommended the purchase of a steam road roller, also that another culvert be built across Moira street, and that the upper bridge be sheeted with 6-inch cedar.

VANCOUVER, B. C.—The plans of the addition to the hospital have been referred to the architect for revision, the tenders for construction being too high.—It is announced that buildings of the better class are being erected throughout the city and several handsome brick business blocks are projected.

VICTORIA, B. C.—A bill has been introduced in the provincial parliament to provide for the borrowing of \$450,000 for the purpose of strengthening, repairing and extending dykes. The districts which will issue the bonds are: Maple Ridge, \$126,000; Sumas, \$18,000; Coquitlam, \$70,000; Pitt Meadows, \$60,000; Matsqui \$50,000.

WINDSOR, N. S.—Twenty-two sets of plans were received from Canada and the United States for the new academy building. Those accepted were by Elliott & Hopson, Halifax, N. S. Estimated cost, \$35,000.—Plans are being prepared by Herbert Clare, architect, of Arlington, Mass., for a new Baptist parsonage to be built here.

RENFREW, ONT.—The proposal to construct a waterworks system, securing the supply from the Bonnechere river, has been approved of by the Provincial Board of Health.—B. Dillon, architect, will prepare plans for a block of three stores for Dr. Murphy. Same architect is receiving tenders for the erection of an English church rectory.

RAT PORTAGE, ONT.—A large hotel is to be erected at Mine Centre, in the Seine river region. It will be three stories, with fifty bedrooms, and will cost \$21,000.—The tenders for the new Presbyterian church have been found to be too high, and it is probable that architects will be invited to submit new plans. It is the intention that the work shall not exceed \$16,000 in cost.—Plans are being prepared for a Methodist church.

FREDERICTON, N. B.—Fred. Risteen intends erecting a dwelling house.—The prospects for a good building season in this city are very bright, and builders are likely to be well employed.—John McNutt, of Tay Creek, has purchased property near Wilmot park, and will erect a residence.—Plans have been prepared by R. C. John Dunn, architect, of St. John, for the proposed improvements to

the city hall in this city, and tenders for the work will shortly be invited.

ST. THOMAS, ONT.—J. Z. Long & Son, architects, are receiving tenders for five cottages at Port Stanley and a Presbyterian church at Alvinston. Same architects are preparing plans and asking for tenders for a summer residence at Port Stanley for Mrs. Try, of Brantford; also a club house for the Liberty Hill Club at same place.—The corporation are about to purchase a stone crushing plant.—The city is preparing a by-law to be submitted to the electors at an early date, to provide for the erection of new municipal buildings, to cost between \$40,000 and \$50,000.

HAMILTON, ONT.—W. W. Lachance is receiving tenders for a frame cottage at Hamilton Beach.—Building permits have been granted as follows: Thomas O'Connor, two-story brick dwelling on Bay street, cost \$1,200; Wm. and Walter Stewart, architects, three-story brick store on York street; A. W. Peene, two-story brick dwelling on Wentworth street south for E. McCoy, cost \$3,600; Miss A. Eddy, brick residence on Wilson street, cost \$1,000; James Balfour, two-story dwelling, corner Bay & Robinson streets, for James Thomson, cost \$5,000; R. J. Larkin, brick dwelling on Barton street, cost \$1,200.

LONDON, ONT.—The London Street Railway Company will probably build a road to Lucan, permission being granted at the last session of the Ontario legislature.—C. W. Smith, of Lyle street, has taken out a permit for a covered skating rink, 200 x 74 feet, to cost \$3,000.—Dr. Kingsmill has been granted a permit for the erection of a terrace of five houses, the plans for which were prepared by H. C. McBride, architect.—Tenders are asked by Herbert Matthews, architect, for store front, counters, plumbing, metallic ceiling, roofing, painting and glazing, required in connection with improvements to business premises of T. G. Whiskard.—The Jubilee Committee have about \$27,000 in sight for the new hospital.

OTTAWA, ONT.—Wm. Smith and Mr. Laurien propose erecting a brick store at Gatineau Point.—The city asks tenders until June 1st for two piston fire engines, with double pump and steam cylinder, etc., and also for an aerial extension ladder 85 feet in length.—The scheme to utilize the Wellington ward market for a fire station has been abandoned, and an architect will prepare plans at once for a new building.—Sites will be selected shortly for new stations in Stewarton and Ottawa wards.—The Council of Gatineau Point are discussing the construction of a waterworks system.—The Ottawa Electric Railway Company will probably place new rails on several streets, at a cost of \$3,978 per mile.—A permit has been issued to N. C. Sparks for the erection of a solid brick house, corner Somerset and Cartier streets, to cost about \$12,000.—Plans have been prepared for an addition to be built to the Bell street Methodist church.—The residents of Bellefeuille village want the extension of the water main, at a cost of \$7,000.

MONTREAL, QUE.—The work of constructing the new buildings at the Longue Pointe Asylum has been commenced. They will have a frontage of 1,500 feet, and will include pavilions of two and three floors each. The masonry work alone is to cost \$138,000.—It is announced that Malcolm & Ross, railway contractors, have secured the charter of the Restigouche and Western Railway, a line projected to connect with the Baie des Chaleurs road at Campbellton, N. B., and run to St. Leonards on the St. John river, a distance of 110 miles.—Gamelin & Huot, architects, are preparing plans for a residence at Cote St. Antoine for W. H. Weir. Tenders will be invited in a few days.—W. E. Doran, architect, is calling for ten-

ders for tenement houses to be built on Mance street for Mr. McCarthy.—The Markets Committee will ask for \$5,000 for repairing the market buildings.—Mr. Laforest, waterworks superintendent, has requested an appropriation of \$14,500, to be expended as follows: Two new 30-inch valves, one 24-inch valve and one 20-inch valve, \$3,500; altering valves on pipe track, \$6,500; connecting the 30-inch main from No. 1 turbine to the two 24-inch mains in the tunnel at the wheelhouse, \$1,200; connecting the 30-inch main of No. 1 engine to the 30-inch main of No. 1 turbine, \$1,600; connecting No. 2 engine to the 30-inch main of No. 1 engine, \$1,700.—Messrs. D. W. Karn & Company, piano and organ manufacturers, have completed arrangements for the erection of a building on St. Catharine street, between Peel and Metcalfe streets. The building will be three stories, containing three store rooms, with large concert hall above.—The Road Committee will construct permanent pavements on the following streets: Notre Dame street, from Chaboillez square to Guy street; Maison-neuve street, from Dorchester to St. Catherine street.

TORONTO, ONT.—The Dominion government will this summer build fire groynes on the Island shore near the Sick Children's Hospital, at a cost of \$20,000.—It is reported that Mr. A. Davis, of Montreal, will submit plans to the city for the construction of a tunnel across the bay to the lake.—In connection with the Mayor's brick pavement policy, the city engineer has submitted the following estimate of the cost of brick sidewalks: Jarvis street, west side, King to Adelaide, cost \$670; Lombard street, south side, Victoria to Church, cost \$940; Brunswick avenue, College to Ulster, cost \$843; Wellington street, south side, Bay to Toronto Club House, cost \$815; John street, west side, King to Adelaide, cost \$303; Queen street, south side, Tecumseh to Niagara, cost \$1,945; Adelaide street, south side, York to Bay, cost \$1,790; Commercial street, north side, Jarvis to Francis, cost \$76. The following brick pavements are recommended on fully-signed petitions: Wellesley place, on concrete, cost \$2,560; Wilcox street, St. George to Robert street, on concrete, cost \$8,840; Collier street, from Park road eastward, on concrete, cost \$2,030; Nassau street, Spadina ave. to Bellevue, cost \$5,100. The following pavements are recommended on the initiative principle: Boswell ave., brick on gravel, cost \$4,220; Spencer ave., King to Huxley streets, brick on 4 inches of concrete, cost \$9,400; Euclid ave., Arthur to College, cedar block, cost \$2,780; Brunswick ave., Ulster to Bloor, cedar block pavement, cost \$3,830; Afton ave., Lisgar to Northcote ave., gravel roadway, cost \$1,030; Garden ave., Sorauraen to Macdonnell ave., gravel, cost \$1,200. A brick pavement is also recommended on Dufferin street south, at a cost of \$7,500. The cost of repairing the roadway leading from Queen's Park crescent to Bloor street is given as \$3,500. The widening of the slip at the foot of Lorne street to 120 feet, and the construction of cribbing at a cost of \$6,000 west of Lorne street, is again recommended.—Notice of the following work has been given by the city: Asphalt pavement on Carlton street, from Parliament to Metcalfe streets, cost \$2,700; gravel roadway on Melbourne ave., from Cowan ave. to Dufferin street, cost \$2,000; gravel roadway on Lansdowne ave., from Queen to Union streets, cost \$3,900.—Mr. F. H. Herbert, architect, acting for one of our large manufacturing concerns, has prepared plans and will receive tenders up to the 20th inst. for the erection of a new factory building on a site immediately south of the King street subway. The building will be 42 x 150 ft., 3-story, built of heavy mill construction, and must be ready for occupation by the company on

the 1st day of August next.—J. F. Brown, architect, is receiving tenders this week for mason and brickwork of residence at Napanee.—Building permits have been granted as follows: J. W. Beatty, one-story rough cast meeting house, east side Gladstone ave., south of Argyle street, cost \$1,000; Daniel Conboy, 493 King st. west, two-story and attic brick dwelling, cost \$3,800.

FIRES.

The dwelling house of Captain Hamlyn, Lancaster, N. B., was recently burned; insurance \$2,000.—A warehouse belonging to Edgcombe & Sons, Fredericton, N. B., was destroyed by fire last week, at a loss of \$5,000; insurance \$1,000.—George Vick & Son's flour mill at Orillia, Ont., was consumed by fire recently; loss \$20,000, partially covered by insurance.—The residence of James Boyd at Belleville, Ont., was burned on the 6th inst; loss \$3,000.—Fire at Whitewater, Man., on the 5th inst., destroyed the elevator of S. S. Cole.—John Brennan's tannery at Chesley, Ont., has been burned; loss, \$14,500, partly covered by insurance.—The Livingstone block at Ridgetown, Ont., was damaged by fire to the extent of \$10,000.—E. A. Small & Co.'s clothing establishment at Montreal has been partially destroyed by fire. Loss, \$50,000.

CONTRACTS AWARDED.

CHATHAM, ONT.—The contract for the Nurses' Home has been let to Robertson & McKie.
 PEMBROKE, ONT.—The tender of Dunlop & Co. for waterworks supplies has been accepted.
 LINDSAY, ONT.—Wm. Pedlar has let the contract for his factory to George Bryans & Sons.
 GODERICH, ONT.—Contracts in connection with improvements to Knox church have been let as follows: Carpen-

try and brickwork, Buchanan & Rhynus; heating, J. H. Worsell; seats, Valley City Seating Co., Dundas.

ST. JOHN, N. B. The tender of Aemilius Jarvis & Co., of Toronto, has been accepted for the purchase of \$274,000 of 4 per cent. bonds.

SMITH'S FALLS, ONT.—M. L. Ryan has secured the contract for the brick block to be built on the site of the McKenzie house; cost \$11,000.

OWEN SOUND, ONT.—The Owen Sound Portland Cement Company will supply 10,000 barrels of Portland cement for Dominion canals.

WINNIPEG, MAN.—The tender of S. B. Ritchie for the construction of a grand stand at the exhibition grounds, at \$4,489, has been accepted by the city council.

CHATHAM, N. B.—The tender of Mr. McDonald, of this town, for the erection of a new brick town hall has been accepted. Cost, \$13,000; architect, G. E. Fairweather.

KINGSTON, ONT.—W. Newlands has accepted the following tenders for a double brick house for Mrs. A. Thornton: Masonry, G. Newlands; carpentry and joinery, R. N. F. MacFarlane; heating, Elliott Bros.; painting and glazing, A. McMahan; plumbing and tin-smithing, McKelvey & Birch.

TORONTO, ONT.—Mr. F. H. Herbert, architect, has accepted the following tenders for a large pair of semi detached residences on St. George street. Mason and brickwork, I. Bedford & Bros., plastering, C. B. Simbson; painting, W. H. Robinson, galvanized iron, A. B. Ormsby & Co., roofing, Rennie & Son; plumbing and heating, Bennett & Wright.

FREDERICTON, N. B. Simmons & Burpee have the contract for the sub-structure of the bridge at Blackville. The price is \$7,300. They have also the contract for building a breakwater at Margaretville, N. S., at about \$11,000.

THE Authorities at Ottawa have been investigating the merits of the new Wall Plaster, known as

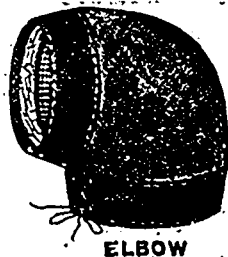
“ASBESTIC”

which is nearly the pure product of Asbestos, and possesses all the remarkable qualities of that mineral, being Absolutely Fire-Proof, and as a Plaster, Cohesive and Elastic, besides allowing a Perfect Surface Finish. The result of such examination and investigation, from actual work done in Ottawa, and the opinions of eminent Architects, is to prove that it is all that it is claimed to be. A large order has been given for this material, which is to be used in the reconstruction of the Parliament Buildings, lately destroyed by fire.

The Authorities have shown great wisdom in their choice, as the cost over ordinary plaster is very trifling, and the advantages so manifest to every Architect who has given this remarkable production careful attention, that it cannot fail to commend itself as a positive assurance of safety against fire risk, entailing the minimum of cost for such an object.

For Further Information Address

THE AMERICAN ASBESTIC CO., LTD.
 DANVILLE, QUEBEC



MICA BOILER AND STEAM PIPE COVERINGS

The Highest Non-Conductor and the Cheapest Covering on the Market.

Full Particulars from The Mica Boiler Covering Co. - 9 Jordan St., Toronto MONTREAL WINNIPEG

and have a contract with the city of St. John to furnish 1,000 tons of hardwood timber for the Sand Point works.

GUELPH, ONT.—G. R. Bruce, architect, has let contracts for a two storey store on Paisley street for J. H. Simpson as follows: Brick and stone work, Mr. Chubb; carpentry, M. Steffler; plastering, J. J. Mahoney; tinsmithing, W. Heather; painting, Moffatt Bros. The building will have plate glass front.—The contract for pavements has been awarded to the Guelph Pavement Company.

LONDON, ONT.—Whiskard's Dry Goods Emporium are remodelling their store and building an addition 38x65 ft. Humphry & Wright have the contract for carpenter work; John Heyman & Son, the brickwork; J. Fenn, the plastering and Jas. Chambers the heating.—The City Council has accepted the tender of H. O'Hara & Co. for \$55,000 worth of 3/4 per cent. sewerage debentures. The price offered was 98.—John Elliott, of St. Marys, has secured the contract of erecting a stone abutment to the Adelaide street iron bridge over the river Thames.—Moore & Henry, architects, have accepted the following tenders for improving St. James church, South London: Carpentry, William Gerry; brickwork, J. Hayman & Son; electrical work, London Electric Co.; stained glass, R. Lewis.

MONTREAL, QUE.—Resther & Son, architects, have awarded contracts as follows for one building, 5 tenements, for D. Legault, to be erected on Montcalm street: Masonry, Durocher & Bros.; carpenter and joiner's work, M. F. Kelly; brick, Boyer, Briere, Mantal & Co.—J. O. Turgeon, architect, has awarded contracts as follows for two stores and one hall on St. Catherine street for T. Prefontaine: Masonry, Ouesime Martineau; carpenter and joiner's work, Jos. Marcotte; plastering, J. B. McLeod; roofing, heating and plumbing, Lessard & Harris; painting and glazing, O. M. Lavoil; ironwork, Dominion Bridge Co.—Building permits have been granted as follows: One presbytery on Centre street for the parish of St. Gabriel—Architect, J. A. Karch; masonry, John Quinlan; carpentry, Paquet & Godbout, St. Hyacinthe; brickwork, Boyer & Co.; estimated cost, \$15,000. One house on Conde street, wood lined with brick, for Jos. Cote. One house on Sherbrooke street for Elzear Cote—Architect, A. Prefontaine; masonry, G. Guilbault; carpentry, E. Cote.—The Road Committee have divided the sewer contracts as follows: Centre, West, East, St. Ann's and St. Antoine wards, Leandre Massey; St. Denis, St. Lawrence, St. Louis, St. Marys, George Henault; St. James, St. Gabriel and Hochelaga, Jos. Mesnard; St. Jean Baptiste, Edouard

Riopel.—The following tenders for supplies have been accepted: Wire spikes, Frothingham & Workman; curbstone, Jos. Desormeau, F. D. Lariviere and F. McKeown & Co.; flagstone, F. D. Lariviere; stone for water courses, Bastien & Valiquette; stone blocks or scoria, F. McKeown & Co.; scoria blocks, F. D. Lariviere and F. McKeown & Co.; Portland cement (Johnston brand), 55c. per 100 lbs., W. McNally, St. George sewer manhole covers, M. Amasse, tile pipes, one-quarter bends and junctions, W. McNally & Co., A. Bremner, and Gyseus de Villers & Co.

BIDS.

WINNIPEG, MAN.—The city received tenders for sewer on Furby street as follows: Dobson & Jackson, \$2,487.50; Dodge & Co., \$2,344.75; W. F. Lee, \$2,083.25; W. R. Sinclair, \$2,710.25. For street paving the following tenders were received: J. G. Hargrave & Co., Isabel

street, \$7,795; Ross street, \$9,964. Scott & Co., Fort street, \$1,387.50; Donald, \$8,500. Kelly Bros., Donald, \$9,750; Nena, \$12,565; Isabel, \$9,100; William, \$3,155; Ross, \$11,332. Dodge & Co., Fort, \$2,150; Donald, \$13,087.50; Nena, \$15,871; Isabel, \$12,307.50; Cooper, \$15,69.75; William, \$16,765.30; Ross, \$15,724. W. F. Lee, Fort, \$3,007.50; Donald, \$12,332.50; Isabel, \$10,370; Cooper, \$1,441.25; Ross, \$13,582. S. Gaudaur, Donald, \$7,500. Fort, \$1,125. Tenders for hardware supplies were received from Miller, Morse & Co. and J. H. Ashdown, and from T. D. Robinson and D. E. Sprague for lumber. All the above tenders were referred to the city engineer for a report.

Myre & Lalonde, builders, Montreal, have dissolved.

St. Jacques & Normand, steam-fitters, Ottawa, have dissolved. Hormidas Normand continues.

THE THREE RIVERS IRONWORKS CO. Montreal Office: IMPERIAL BUILDING. THREE RIVERS, P. Q.

Cast Iron Water and Gas Pipes

of best quality, from 2 inches in diameter.

HYDRANTS, VALVES and GENERAL CASTINGS.

MONTREAL PIPE FOUNDRY CO., LTD

Successors to DRUMMOND McCALL PIPE FOUNDRY CO., LTD. Manufacturers of

CAST IRON WATER and GAS PIPES

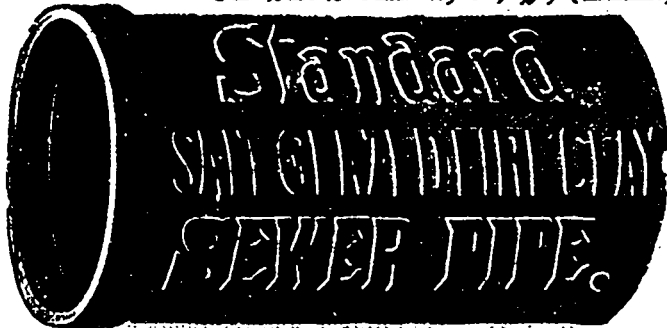
and General Water and Gas Special Castings.

Prices on Application.

Offices, Canada Life Building, MONTREAL.

THE STANDARD DRAIN PIPE CO.

OF ST. JOHNS, P. Q., (LIM.)



Manufacturers of

Salt-Glazed Vitrified SEWER PIPES

Double Strength Railway Culvert Pipes, Inverts, Vents,

AND ALL KINDS OF FIRE CLAY GOODS

ALEX. GARTSHORE, PRESIDENT.

J. G. ALLAN, SECY & TR.

JAS. THOMSON, VICE-PRESIDENT & GEN. MGR.

ESTABLISHED 1870

INCORPORATED 1896

THE GARTSHORE-THOMSON PIPE & FOUNDRY CO. LTD.

MANUFACTURERS OF SPECIAL CASTINGS AND ALL KINDS OF WATER WORKS SUPPLIES

HAMILTON, ONT.

MUNICIPAL DEBENTURES

wanted for foreign clients. We can place Debentures direct with foreign clients without charge to municipalities.

Commission allowed to persons introducing new business

ÆMILIUS JARVIS & CO. (Member Toronto Stock Exchange) 23 King St. West, TORONTO

ELECTRIC RAILWAY BONDS PURCHASED.

STOCK EXCHANGE ORDERS PROMPTLY EXECUTED

MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS

DEBENTURES BOUGHT

Municipalities saved all possible trouble
G. A. STIMSON & CO.
Investment Dealers
9 Toronto Street - TORONTO

ARTIFICIAL STONE PAVEMENTS

SIDEWALKS A SPECIALTY

CORPORATIONS Will do well to consider our work
and prices before letting contracts

The Silica Barytic Stone Company
of Ontario, Ltd.

WALTER MILLS, General Manager. Head office: INGERSOLL, ONT.

Flush Your Sewers with

THE MILLER AUTOMATIC SYPHON (PATENTED)

Received HIGHEST AWARD at the World's Columbian Exposition for

- (1) SIMPLICITY OF CONSTRUCTION, (2) EFFECTIVENESS, (3) RELIABILITY

Write for Prices and Particulars.

VICTOR HILL, General Agent. 39 D'Arcy St. TORONTO.

ST. LAWRENCE FOUNDRY COMPANY, LTD. Manufacturers of



Front St. East TORONTO, ONT.

THE HAMILTON AND TORONTO SEWER PIPE CO. (LIMITED.)



FOR SEWERS, CULVERTS AND WATER PIPES. INVERTS For Brick Sewers

Write for Discount

HEAD OFFICE AND FACTORY: HAMILTON, CANADA

STEAM AND POWER

FOR ALL DUTIES



NORTHEY Co. LTD. TORONTO, ONT.

THE LAURIE ENGINE CO., MONTREAL
Sole Agents for Province of Quebec.

CAST IRON WATER PIPES

From 4 in. to 36 in. Diameter.
BELL AND SPIGOT • TURNED AND BORED
AND EVERYTHING NECESSARY FOR

A Complete Water or Gas System

SUPPLIED BY The LONDONDERRY IRON CO., Ltd.
LONDONDERRY, NOVA SCOTIA

THE MOST COMPLETE IRON WORKS IN CANADA (ESTABLISHED 1852.)
Send for Drawings and Estimates of our work.

ALL PIPES CAST VERTICALLY

- WE MAKE
PIG IRON
WATER PIPES
PUDDLLED BAR
HYDRANTS, VALVES
PIPE SPECIALS
HEAVY CASTINGS
STRUCTURAL WORK
ARCHITECTURAL WORK
MACHINE WORK
HYDRAULIC MACHINERY
TURBINES
BAR IRON

The Central Bridge and Engineering Company, Ltd.

Capital Stock PETERBOROUGH, ONT. \$200,000.00



WM. H. LAW - Manager and Engineer.

Manufacturers of RAILWAY and HIGHWAY BRIDGES

Viaducts, Piers, Roofs, Turntables, Girders and Architectural Work

CAPACITY: 5,000 TONS PER ARCH

"RAMAPO" SAFETY SWITCH STANDS

MUNICIPAL DEPARTMENT

PORTLAND CEMENT FOR STREET PAVEMENTS.

Portland cement has been used in some parts of the United States for paving small sections of streets with much satisfaction. The city of Bellefontaine, O., has adopted this material for street paving on a liberal scale, according to Cement and Engineering News. The following description of the method of construction is given.

Excavate street 6 inches below grade line if sub-strata is gravel, sand or porous soil; if clay or an impervious soil, excavate 4 inches more and fill that with cinders, gravel or broken stone. Thoroughly roll to proper section, lay sub-drains of 3-inch tile inside each curb line. Pavement is laid in two courses: 1st layer, 4 inches thick, consists of 1 part Buckeye Portland cement and 4 parts clean gravel or broken stone and sand, proportion of gravel to sand, 2 to 1. Materials are thoroughly mixed by machine, just enough water being added so that, when well rammed, water will show at surface.

Second layer, or top 2 inches thick, which takes the wear, consists of equal parts Buckeye Portland cement and clean, sharp sand or crushed granite, including all grains to the size of a pea. Only the best of cement should be used for this purpose. The top layer is thoroughly rammed. Both bottom and top layers are divided during construction into rectangular blocks about 5 feet square, with edges neatly finished. The joints of blocks coming directly over pipes are made like the key stone of an arch, so they can be lifted up without disturbing neighboring blocks when repairs to pipes are necessary. To secure a positive foothold for horses, the surface should have v-shaped grooves 1 inch wide and 3-16 inch deep, 4 inches apart, and running at right angles with the street. Surface should be finished with an ordinary plasterer's wooden float. Curbs are part of outer blocks, and consist of 1 part cement to 3 parts fine gravel. Materials for 1 square yard equal 144 lbs. cement and 4 cubic feet of gravel. Anybody accustomed to working cement can do the work.

Taking quality of work into consideration, cement pavement is cheaper in first cost than stone, asphalt or brick, while cost of repairs is slight.

LEGAL DECISIONS AFFECTING MUNICIPALITIES.

DAME F. CARPENTER vs. The TOWN OF MAISONNEUVE.—The plaintiff claimed \$5,400 damages from the town, alleging that she was the proprietor of certain buildings in the town, and that defendant had established works for manufacturing electric light on a property adjoining hers,

that the noise and black smoke proceeding from defendant's works caused the plaintiff great damage and prevented her from leasing her property. The Superior Court maintained the action to the extent of \$225, holding that defendant had not done all that was possible to diminish the inconvenience.

QUINN v. TOWN OF ORILLIA.—Judgment in action tried without a jury at Orillia. Action to restrain defendants from pulling down portions of buildings put up by plaintiff in alleged contravention of a fire limit by-law. The plaintiff was the owner of two small farm buildings connected together and being within the limits set out in a by-law of defendants passed for the purpose of fixing fire limits and regulating the erection of the buildings within those limits. A fire took place and one of the buildings was partly destroyed. Plaintiff proceeded to replace with wood the portions destroyed. By sec. 496, sub-section 10, of the municipal act, 1892, a corporation has power to pass by-laws "for regulating the repairing or alteration of roofs or external walls of existing buildings" within the fire limits, so that the said buildings may be made more nearly fire proof. The provision of the law passed by the defendants was "that all buildings damaged by fire, if rebuilt or partially rebuilt, shall be made fire proof." Held, that this was in excess of the powers of the Council and could not be enforced. Judgment for plaintiff, as prayed, with costs. Entry stayed for 30 days. Pepler, Q. C., for plaintiff. McCosh (Orillia) for defendants.

WATER SUPPLY AND THE DEATH RATE.

The Engineering News says: There is food for reflection for officials in towns, where a high death rate from typhoid fever has led to a demand for a purer water supply, in some figures which the Jersey City, N. J., Evening Journal has obtained, showing the reduction in the death rate from typhoid fever that has accompanied the substitution, as the city supply of pure water from the highlands of New Jersey for the polluted water of the Passaic River. In January, 1895, the city's water supply was a mixture composed of 28 per cent. pure water and 72 per cent. Passaic River water, and the deaths from typhoid fever numbered 28. In February the percentage of pure water was 40 per cent. and the number of deaths 30, showing

that the percentage of pure water in January had been too small to have any effect. In March, April and May the percentage of pure water was increased respectively to 43, 58 and 50 per cent., and the number of deaths fell to 16, 9 and 6. In the five months from June to October, inclusive, the percentage of pure water averaged about 80 per cent. and the number of deaths 4 per month. During the next four months pure water alone was used and the number of deaths averaged only 3 per month. It is estimated on the basis of these figures that the introduction of a pure water supply has saved 75 deaths from typhoid fever in Jersey City in the last eight months, and, in considering this statement, it is to be remembered that similar experiences have followed the substitution of highland or filtered water supplies for polluted ones in at least a dozen or more cities in Europe and the United States."

PROTECTION OF WATER MAINS.

A cheap device to prevent the freezing of a water main, apparently laid too near the surface, is in use in Rutland, Vt., says Engineering News. The main is 8 inches in diameter, and 329 feet of it was burst by freezing in the winter of 1894-5. The committee on water proposed to lay a sewer in the street and maintain circulation in the water pipe by wasting water into the sewer. The pipe was purchased, and the city engineer, Mr. Sidney Smith, was requested to give grades for laying it. He found that the sewer in that street should be designed to serve quite a territory, as yet sparsely populated, and should be provided with an underdrain to serve higher wet land. He suggested that instead of building the sewer a well should be sunk into the porous material some distance below the surface and a hydrant branch be connected with it. Accordingly, Mr. J. M. Davis, superintendent of waterworks, sank a 12-inch sheet steel curb to a depth of 30 ft., removing the sand with a 6-inch stovepipe pump. A 3/4-inch pipe was laid from the hydrant branch to the well and provided with a valve. The job cost \$94, against \$1,200, as the estimated cost of the proposed sewer. During cold weather the valve is opened and the water allowed to flow continuously to the well. During the winter of 1895-6 and up to January 1, 1897, the water main has been kept from freezing by this device.

JOSSON CEMENT .. Manufactured at .. NIEL ON RUPELL

Is the Highest Grade Artificial Portland Cement and the Best for High Class Work. Has been used largely for Government and Municipal Works.

TO BE HAD FROM ALL CANADIAN DEALERS

C. I. de Sola, Manager in Canada :: 180 St. James Street, MONTREAL

BELLHOUSE, DILLON & CO., 30 St. Francois Xavier St., Montreal
Sole Agents for the Compagnie Generale des Asphaltes de France (Rock Asphalt).

PORTLAND CEMENT NORTH'S CONDOR

Paving and Fire Brick a Specialty

SITTING LION and WHITE CROSS Brands

NORTH'S "CONDOR" BRAND AWARDED FIRST PRIZE AND GOLD MEDAL AT THE ANTWERP EXHIBITION

MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS

ENGINEERS

WILLIS CHIPMAN

B. A. Sc. (McGill).
Mem. Can. Soc. C. E.

Mem. Am. Soc. C. E.; M. Am. W. W. Ass'n.

Civil and Sanitary Engineer
TORONTO

WM. NEWMAN, C. E.

A. M. Can. Soc. C. E., M. Am. W. Wks. Assn.
CITY ENGINEER OF WINDSOR.

Civil and Sanitary Engineer
Waterworks, Sewerage, Drainage, Pavements, &c.
Fleming Block - WINDSOR, ONT.

GEO. WHITE - FRASER

C. E., D. T. S., A. AM. INST. ELEC. ENG
CONSULTING

ELECTRICAL ENGINEER

Electric Railways and Electric Light.
SPECIALTY. Specification and Superintendence of
MUNICIPAL PLANTS.

18 Imperial Loan Building - TORONTO.

VAUGHAN M. ROBERTS

Civil and Sanitary Engineer

Waterworks, Sewers, Electric Light,
Electric Railways.

Plans and Specifications prepared.—Work
Superintended. 18 Ontario Street,
ST. CATHARINES

DAVIS & VAN BUSKIRK

Graduates Royal Military College of Canada.

CIVIL ENGINEERS

SPECIALTY: Municipal Engineering, including
Drainage, Sewerage, Sewage Disposal, Water
works, Roadways and Bridges.

W. F. Van Buskirk, A. M. Can. Soc. C. E., Stratford.
Wm. Mahlon Davis, M. Can. Soc. C. E., Woodstock.

J. McDougall, C. E.,

ENGINEER OF THE COUNTY OF YORK

GENERAL MUNICIPAL ENGINEER

Consulting Engineer for Municipalities in regard to
Electric Railway and other Franchises.

Specialties: Bridges, Foundations, Electric Railways,
and Roads. Surveys made, Plans, Specifications and
Agreements prepared, and work superintended.

COURT HOUSE, - TORONTO.

JOHN GALT, C.E. & M.E.

(Member Can. Soc. C. E.)

CONSULTING ENGINEER AND EXPERT

Specialties:
Water Supply and Sewerage, etc.
Electric Power, Lighting, Railways, etc.

Offices:
CANADA LIFE BUILDING - TORONTO

Paving Granite

Granite Sets for Street Paving. CURBING cut
to any shape ordered. — Fine Rich Colors for
Building and Monumental Purposes.
Quarries, St. Philippe d'Argenteuil, P Q

Address all communications to
JOS. BRUNET - COTE DES NEIGES, MONTREAL

THE JENCKES MACHINE CO.

80 Lansdowne Street, SHERBROOKE, QUE.

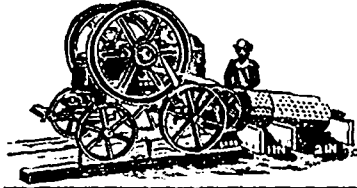
Builders of

STONE AND ORE CRUSHERS

and Macadamizing Machinery

Complete Plants Planned and Erected.

Write us for Catalogue No. 5, relating to Crushing Machinery.



THE PIONEERS IN CANADA IN THE MANUFACTURE OF ROAD-MAKING MACHINERY

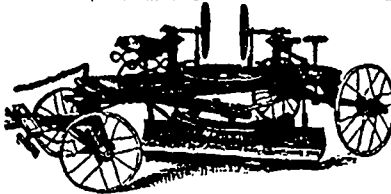
This Cut represents our

.. STEEL CHAMPION REVERSIBLE ..

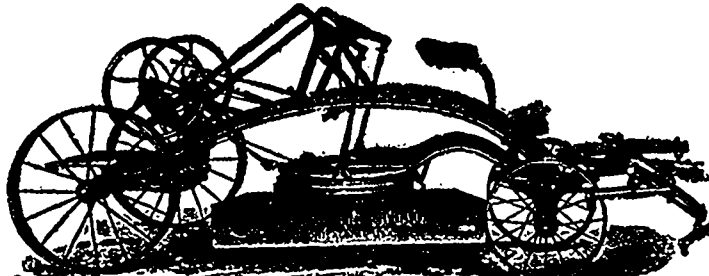
ROAD MACHINE

Simplest in Construction, Strongest in its Parts, Easiest in
Operation; the Most Durable and Efficient
Road-Making Machine Manufactured.

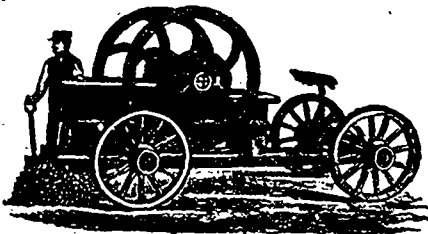
Address— **GOOD ROADS MACHINERY CO.**
HAMILTON, CANADA.



AUSTIN
Reversible
ROAD
GRADER



BEST
FINISHED
MOST . . .
COMPLETE.
We claim to have
attained
PERFECTION



Austin Rock Crusher.

Branch Houses

LONDON, ONT.

WINNIPEG, MAN.

ST. JOHN, N. B.

F. C. Austin Manufacturing Co.

Cor. Carpenter St. and Carroll Ave.,

CHICAGO, ILL.

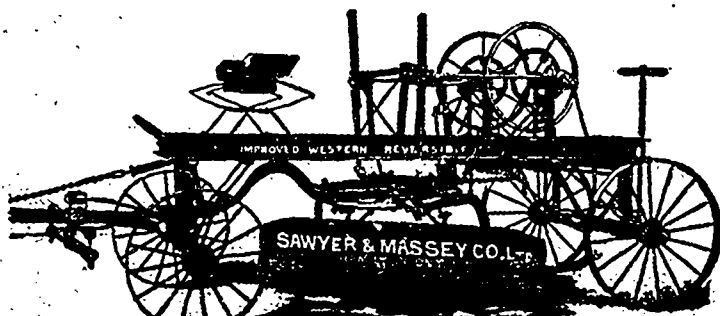
Manufacturers of . . .

A Full Line of **EARTH-MOVING** and
ROAD-MAKING MACHINERY

New Era Graders, Wheel Scrapers, Level-
ling Scrapers, Dray Scrapers, Plows, Rever-
sible Road Rollers, Ditching Machines, Street
Sprinklers, Street Sweepers, Well Drilling
Machinery Etc., Etc.



ROAD MAKING MACHINERY



We are prepared to supply Municipalities, Contract-
ors, etc., with the Latest Improved

ROAD MAKING MACHINERY

Catalogues on Application.

Correspondence Solicited

Sawyer & Massey Co., Ltd.

HAMILTON, ONT.

Prices of Building Materials.

INDEX TO ADVERTISEMENTS

In the "Canadian Architect and Builder."

LUMBER. YARD QUOTATIONS.

Toronto. Montreal.

Table listing lumber prices for various types of wood, including Mill cull boards, Hemlock scantling, and various sizes of planks and shingles.

Table listing brick prices, including Common Walling, Good Facing, and various sizes of pressed bricks.

Table listing stone prices, including Common Rubble, Large flat Rubble, and various types of granite and freestone.

Table listing Ohio freestone from The Grafton Stone Co.'s quarries, including various sizes and types of stone.

Table listing architectural and construction services, including Architects, Chimney Topping, Interior Decoration, and various trades like Plasterers and Roofers.

Table listing Kent Free stone Quarries, including River John and Quebec and Vermont rough granite.

Table listing slate prices, including Roofing and Terra Cotta Tile.

Table listing paint prices, including White lead, Red lead, and various colors and finishes.

Table listing cement and lime prices, including Portland Cements and various brands like Roman and Parian.

Table listing various construction materials and services, including Reflectors, Roofers, Sanitary Appliances, and Shingle Stains.

Table listing Toronto and Montreal cement prices, including Hydraulic Cements and various brands.

Table listing hardware prices, including Cut nails, Steel nails, and various types of spikes and nails.

Table listing iron pipe and structural iron prices, including Galvanized Iron and various sizes of pipes.