CANADIAN

CONTRACT RECORD

A Weekly Journal of Engineering, Public Works, Tenders, Advance Information and Municipal Progress

This Paper Reaches Every Week the Town and City Clerks, Town and City Engineers, County Clerks and County Engineers, Leading Civil Engineers and Contractors throughout Canada, and Purchasers of Municipal Debentures.

TORONTO, MONTREAL - FEBRUARY 13, 1907 - WINNIPEG. VANCOUVER

THE CANADIAN CONTRACT RECORD PUBLISHED EVERY WEDNESDAY

VOL. 17.

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Davis Chambers, 615 Hastings St., Vancouver, B.C. Telephone 2248

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CONTRACTORS

The undersigned having acquired the Canadian Rights for the use of the Raymond Concrete Pile, are prepared to lease to responsible con-tractors the exclusive right to use this form of piling in certain specified territcrites. Address communications to THE RAYMOND CONCRETE PILE CO.

of Canada, Coristine Building, Montreal

To Contractors

To Contractors Tenders will be received until noon on FRI-DAY, FEBKUARY 1571, for the Construction of Reinforced C. norete Abutments and Hers for a Bridge to be built on the hiver Thames between the Township of Natrid in the County of Middlesers. Pians and specifications can be seen at the office of either of the undersigned. A de-posit of \$4 00.00 must accompany each tender as squarantee of good faith. This amount will be returned after the successful tend-rer has signed a contract. Tenders are to be made out on forms supplied. The committee do not bind themselves to accept the lowest or any tender. JAS. A. BEIL, County Engineer, Elgin County, CharLES TALRUT. St. Th mes Ont. County Commissioner Middlesex C unit. London, Ont.

To Contractors

Tenders will be received until noon on FRI-DAV FRBRUARY synt for the erection of Reinforced Concrete Abutments for a Bridge to be built over the Otter Creek in the Township of Bayham for the County of Right known as the Cook's Mill Bridge Plans and spec fack. A deposit of 5100 00 must arcs mpany 'ach tender as ', guarantee of gord faith This amount will be returned after the successful university a contract. Tenders are to be ado to thin themselves to accept the lowest or any tender. JAS. A. BELL.

JAS, A, BELL, County Engineer. 8t. Thomas, Ont.

Tenders

will be received up to FEBRUARY 19 TH, by JNO, S.FIEL ING.C.E. 15 Toronto street. Toronto, for STRUCTURAL STEEL work, Trestle, etc. as per plans on view now.

Tenders

for Factory Building oo x to8, at Niagara Fatls, Ont. All trades will be received by $\mathbf{J}^{*}\mathbf{O}$. S, **FIELDING**, C.E. 15 Toronto street, Toronto, up to Feb. 20th. Plans on view now.

Tenders

Feb. 29th.

TENDERS

WANTED

No 50

whole or separate will be received for all trades for Stone and Brick School 28 x 48, one storey. Plans at office of

CITY OF BRANDON TENDERS FOR GEMENT

Sealed tenders addressed to the Chairman of Board of Works and endorsed "Tender for Cement" will be received by the undersigned until ar e'cleck noon of THURSDAY, APRIL 19, 1907, for supplying from 6,000 to 8,000 bbls. Of Portland Cement to the City of Brandon. Specification and form of tender may be obtained on application to W. H. Shillinglaw, City Engineer, Brandon, Man. The lowest or any tender not necessarily accepted. HARPY BROWN

HARRY BROWN, City Clerk

Brandon, Manitoba, Canada, February 8, 1907.

City of Winnipeg

Point du Bois Hydro-Electric Development.

IENDERS FOR TRAMWAY

Sealed tenders addressed to the Chairman of the Board of Control, and marked on the envelope "Tender for Tranway," will be received at the office of the tender of the tender of the tender of the sym DAY OF FEBRICARD of MONAY. THE store of twenty-four miles of single track transvay between Lac du Bonnet and Peint du Bois. Topies of the instructions to bidders, specifications and form of tender may be obtained and the plans and profiles may be seen, on and after Friday. February ist, at the Power Engineer's Office, Car-negic Library Building, Winnipez. Cheque payable to the odder of the City Trensurer, for the sum called for in the Instructions to Bidders (§5,000.00) which cheque will become forcit to the corporation in the event of the successful contractor relating upon to as. Alternative tenders will be received for the follow-ing perions of the work: (1) Treak-like dired the the corporation of the difference of the sum after for and the received for the follow-ing perions of the work: (1) Treak-like dired (certified cheque Stream). (2) Remainder of construction as specified (certified

\$1,500). (c) Remainder of construction as specified (certified

cheque \$3,000). These tenders will be subject to the same general conditions as those specified for tender for the whole

work. The board reserves the right to reject any or all tenders, or to accept any bid which appears advan-tageous to the City of Winnipeg. M. PETERSON. Secretary.

Board of Control Office, Winnipeg, January 23, 1907.

[FOR ADDITIONAL ADVERTISEMENTS FOR TENDERS SEE NEXT PAGE]

Two Stiff Leg Derricks in good repair, mast 35 et, boom 65 to 70 feet, capable of lifting seven tons, Two other feet, boom 65 to 70 feet, capaon with or without swinging wheel, with or without swinging wheel, THE CADWELL SAND & GRAVEL CO., Box 117, Windsor, Ont.

L. C. WIDEMAN, Architect, Guelph, Ont.

for CONCRETE DAM AND POWER HOUSE for Town of Streetsville will be received by JNO. S. FIELDING, CE., 15 Toronto street, Toronto, Plans on view after 10th instant. Tenders in by

For Sale

Two Canadian patents, covering Labor-Saving Device. Information given on application.

Box 512, St. Catharines. Ont.



Temiskaming and Northern Ontario Railway Commission

TENDERS FOR OFFIGE BUILDING

Sealed tenders addressed to the undersigned and endorsed 'Tender for Office Building '' VID BARCH, 1007, for the erection of a General-Office Building at North Bay, Ontario. Tians and specifications may be sere at the office Building at North Bay, Ontario. The add specifications may be sere at the Ministry of the Commission, 32 Toronto Street, North Bay. A certurbed chaque for \$3,500 must accompany acch ender. The successful tenderer must enter promptly finto a contract and furnish security for the amount of \$50,000 for the completion of same. Cheques of unsuccessful tenders will be re-turned t them. The toron year bender not necessarily not capted. A. J. MCGER.

A. J. MCGEE,

Secretary-Treasurer.

Toronto, February 9th, 1907. Papers inserting this advertisement without authority will not be paid for same.

WANTED

Two architectural draughtsmen, capable of hand-ling drawings for buildings from start to finish. STEWART & WITTON, Hamilton, Canada



TENDERS FOR STRUCTURAL **STEEL WORK**

Tenders addressed to the undersigned will be received by registered post only up to noon on WRDNEDAY, WREKUARY 20TH, 1907, for the supply and instaliation of structural steel work required in the erection of a new fire hall on Addiside structural forms of tender and all information obtained at the office of the City Architect, City Hall, Toronto.

Toronio. Envelopes containing tenders must be plainly marked on the outside as to contents. The usual conditions relating to tendering as pre-scribed by the City By-law must be strictly complied with or tenders will mot be enter-tained. The lowest or any tender not necess-arily accepted.

EMERSON COATSWORTH (Mayor), Chairman Board of Control.

City Hall, February 8th, 1907.

CITY OF SASKATOON PROVINCE OF SASKATCHEWAN

WATER WORKS AND SEWERACE

Tenders will be received by the Secretary-Treasurer the City of Saskatoon until 8 p. m. on

WEDNESDAY, MARCH 20TH, 1907

for the following works: Contract "A".—Labor on Pipelaying for Water Works and Sewerage, comprising about 27,000 feet of trenching. Contract, "C".—Concrete Foundation for Water

Contract, "C". - Concrete Foundation for Water Tower. - Concrete Foundation for Water Tower. - Sedimation Basin. Plans, specifications, etc., may be seen at the office of the Chief Engineer, rog Bay Street, Toronto, Ort., or at the office of the Resident Engineer, Saskatoon, Sask. No tender necessarily accepted. JAS. R. WILLSON, Esq., WILLIS CHIPMAN. Mayor, Chief Engineer, Saskatoon, Coief Engineer, Saskatoon, Coief Engineer, Saskatoon, Toronto, Ont. ADAM TUREFE Fee

ADAM TURNER, Esq., Saskatoon, Sask. Sec.-Treas.,

City of Winnipeg DEBENTURES

Sealed tenders addressed to the Board of Control, and marked "Tender for Debentures," will be received at the office of the City Comptroller, City Hall, Winnipeg, Manitoba, up to noon on FRIDAY, the iST MARCH next for the purchase of \$1,594-

the 151 MARNET many the second second

\$ 118,174.97 57,365.93	run	7	years	from	18t	May,	1906.	
90,330.02	6.6	15	66	44	64	84	66	
318,218.04	66	20	**	66	44	44	44	
920,417.59	44	30	**	44	**	46	**	
90,000.00	66	30	41	**	17th	Jan.,	66	

\$1,594,506.55

\$1,594,506.55 Tenders may be for the whole or part ; no tender eccessarily accepted. Purchaser to pay accrued naterest on current coupons and take delivery and nake payment in Winnipeg. Further information desired will be furnished on te payment urther info lication.

D. S. CURRY, City Comptroller.

Winnipeg, 18th Jan., 1907.

TO CONTRACTORS

Bulk tenders will be received by the idersigned, up to THURSDAY, FEBRUARY *TH*, INST. for the erection of a Stone Church uilding for the Parish of St. Columbkill at Toledo, or

s and specifications may be seen at architect, Kingston, and at the re v. John T. Hanley, Toledo, Ont.

HENRY P. SMITH, Architect. Crown Bank Building, Kingston, Ont.

CONTRACTS OPEN.

SEDLEY, SASK .- J. Glenn will erect an elevator here.

DUNDASS, ONT .- J. W. Dickson is about to erect several new houses.

ACTON, ONT.-It is probable that a new English church will be erected in this town.

RENFREW, ONT.-Scott & Jamie-son will erect a cold storage warehouse in this town.

BARRIE, ONT.—The Simcoe County Council will appropriate \$35,000 for road improvements.

FRANKLIN, MAN. — Plans have been completed for a new school house to be built here.

BELGRAVE, ONT. - Work shortly commence on the erection of a new school building.

CALGARY, ALTA.-The local lodge of Elks intend to erect a club building here to cost \$40,000.

PRIMROSE, ONT. - Considerable damage was recently done to Sheppard's dam, near this village.

BUCKHORN, ONT.—It is probable that a new Presbyterian church will be erected in this village.

MEDICINE HAT, ALTA. - The Medicine Hat Milling Company intend erecting a new elevator.

PICTOU, N. S. — The ratepayers have decided to expend \$11,000, for re-pairs to school buildings.

WESTON, ONT .- It is reported that the Bullen Brick Co., of Chicago, are about to establish yards here.

WELLAND, ONT .- L. A. Skinner, J. Bauhmafer, have purchased lots on which they will erect dwellings.

BROCKVILLE, ONT.-The Fire & Water Committee have recommended the purchase of 250 feet of hose.

REID, ONT.-J. V. Walsh will re-ceive tenders up to March 1st for build-

ing of a cement foor and walls. MORRIS, MAN.-D. M. Ure, Town Secretary-Treasurer, will receive tenders up to February 22nd for grading.

CAMROSE, ALTA.—The ratepayers will shortly vote on a by law to raise \$10,000 for fire fighting apparatus.

BRANDON, MAN. — Architect Elliott calls tenders by February 23 for college building, Summerland, B.C.

ALLISTON, ONT.—A. Merner has purchased the Alliston foundry, and will make extensive additions to the building.

REGINA, SASK. -- It is reported that the Canadian Pacific Railway will con-struct a branch from this city to Prince Albert.

WALTON, ONT.-T. H. Bolger will receive tenders up to February 23rd for erection of a cement and brick school house.

BERLIN, ONT.—The Town Council have decided to grant a 30 year franchise to the Dominion District Steam Heating Company

EDMONTON, ALTA.-It is report-d that the Canadian Society of Equity, Limited, will erect several elevators and warehouses.

POINT ST. CHARLES, OUE .-

The Dominion Government have definitely decided to erect a new post office

building here. SASKATOON, SASK.-A. McDon-ald Company, of Winnipeg, are reported to have purchased a site on which to erect a warehouse.

NORTH BAY, ONT.—A. McDonald has purchased the Roman Catholic church property, and will erect a block of buildings thereon.

LINDSAY, ONT.—The Board of Education are inquiring as to the cost o fire escapes with a view to erecting same on the school buildings.

HALIFAX, N. S.-The Public School Board are having plans prepared for the remodelling of the Albro street school also for a new school house.

INNISFAIL, ALTA.-Tenders will shortly be called for 8 room brick school, also school at Pipestone, Man., by architect Horwood, Winnipeg.

ST. JOHN, N. B.-W. D. Baskin is interested in the erection of a large rink. -J. E. Wilson intends erecting an addition to his foundry 40 x 100 feet.

WAPELLA, SASK .- T. F Town Secretary-Treasurer, will receive tenders up to February 18th for purchase of \$4,000 6 per cent. debentures.

HENSALL, ONT.-E. Rannie is taking tenders up to February 20th for carpenter work necessary in erection of a large shed for Methodist church.

FORT FRANCIS, ONT.—A by-law to raise \$24,533.17 by debentures for the extension of the sewerage system will shortly be voted on by the ratepayers.

CARLETON PLACE, ONT .- The by law, authorizing a loan of \$10,000 to Bates & Ennis to establish a knitting mill here, has been carried by the ratepayers.

BELLEVILLE, ONT. - Engineers are now engaged in laying out piers and docks to be constructed for the Lehigh Portland Cement Co., of Allantown. Pa.

PICKERING, ONT.-It is probable that a large building will be erected by the Pickering College to take the place of the one destroyed by fire some months ago

LETHBRIDGE, ALTA. — A. L. Foster will erect a residence here at a cost of \$4,000.—The Presbyterians are considering the establishment of ladies college in this town. a

ladies college in turs town. GUELPH, ONT.-M. P. Lynch will receive tenders up to February 19 h for all trades required in erection of a brick and stone school building. Plans with and stone school building. Plans L. C. Wideman, architect, this city.

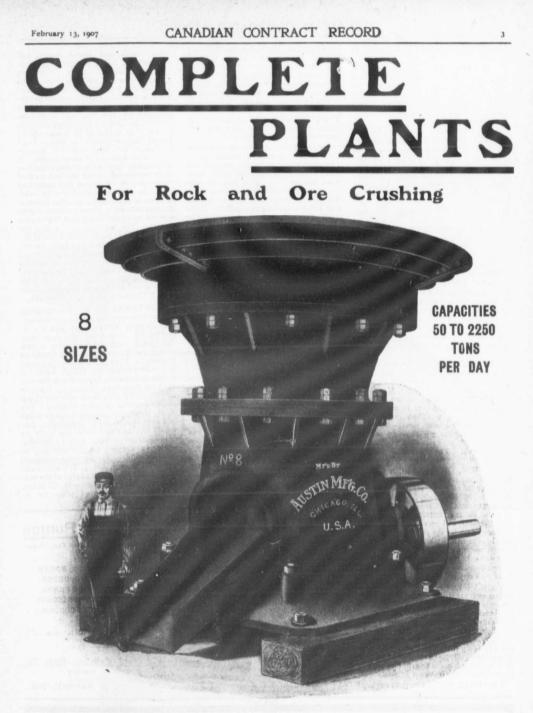
STRATFORD, ONT. - Alderman Paul will erect a two-storey brick build-ing on Downey street.—The City Counwill shortly take tenders for supply of

tile, lumber, castings, cement, stone, etc. PICTON, ONT.-The Ontario Interurban Railway Co. will shortly apply for incorporation with power to construct an electric railway from Belleville to Picton with branches to Weller's Bay and the Sand Banks.

REGINA, SASK .- Darling & Pearson, architects, Winnipeg, are calling for tenders for warehouse and office building for Nichols Shepard Company at Regina, also brick Methodist parsonage at Regina.

PETERBORO, ONT. — The City Council have decided to have an expert report on the question of installing a fire alarm system.—The Peterboro Steel Rolling Mills Co. are considering the erection of a new plant.

ST. CATHARINES, ONT. - The Niagara, St. Catharines & Toronto Railway have filed plans for the extension of their line from this city to Virgil.—Chair-man of Committee of Works is taking



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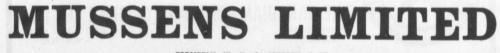
City

g a Steel

g the The Rail-

ion of Chairtaking Designs and Estimates Furnished for the installation of Rock and Ore Crushing Plants, including Gyratory and Jaw Crushers, Elevators, Screens, Bins, Conveyors, etc., etc.

Portable Plants for Road Building, Contractors' Uses, etc., a specialty.



FORMERLY W. H. C. MUSSEN & CO. Head Office: MONTREAL

tenders up to to-day for construction of sewers.

SELKIRK, MAN.-F. Gelinas, Department of Public Works, Ottawa, will receive Tenders up to February 26th for construction of a public building in this town. Plans at office of above department and with J. Chisholm, architect, Winnipeg.

SIMCOE, ONT.—The Town Council w II introduce a by-law to authorize construction of a waterworks system to cost \$70,000.—The Palm & Payne Sprayer Co. are negotiating with the Town Council in reference to establishing a factory here. They are asking for a loan with which they intend erecting a two-storey building.

OSHAWA, ONT.-Willis Chipman, C. E., Toronto, has been instructed to prepare plans and report to the Town Council, on the question of extending the sewerage system. - T. Morris, town clark, will receive tenders up to February 18.h for purchase of \$3,400 4½ per cent. debentures.

GALT, ONT,—The ratepayers will vote on a by-law on February 21st a loan of \$15,000 to the Canadian Brass Manufacturing Co., who propose to establish their works in this town.—A by-law authorizing the issuance of \$10,000 deber.tures for extensions to waterworks system will also be voted on the same date.

date. QUEBEC, QUE, —The Quebec Cartage & Transter Co. have purchased property on which to erect stables and other buildings. — The Magdalem River Valey Ralway Co., are seeking incorporation with power to construct a road from Cap a l'Ours through the valey of the Magdalen river. —The Domin-on Goverment are about to erect a new building here to be used as a school for gunnery. The estimated cost is \$50,000.

LONDON, ONT.—The City Council have decided to call for tenders for the construction of three septic tanks.—S. W. Titus, of New York, has submitted a scheme to the City Council for the supply of water for the city.—O. F. Graydon, city engineer, will receive tenders up to February 14th for the following work and supply of cement walks, cement curb and gutter, sewer pipe and cement, lamber, hardware, broken stone, iron castings, corner irons, etc. Plans and specifications with city engineer.

corner irons, etc. Fians and specifications with city engineer. VANCOUVER, B. C. — Extensive alterations are to be made to the Vancouver Opera House. — The City Engineer has recommended that repairs be made to the Cambie street bridge which w li cost \$11,000.—The Hastings Shingle Manufacturing Co. have taken out a bulding permit for the erection of a large saw mill, cost \$25,000.—Baynes& Horrie have taken out a permit for repairs to M :Kinnon block to cost \$7,700.

VICTORIA, B. C. - The public school

board have decided to ask the City Council for \$85,000 wth which to erect two new buildings. — The Plimley Automobile Co. have purchased property corner Government and Superior streets, on which they will erect a large building. — The Bikeries, Limited, are contemplating the erection of a new building.— The City Council have decided to purchase a plant for treating blocks with creosole at a cost of \$10,000.

HAMILTON, ONT.-H. S. Kent, City H.all, wli receive tenders up to February 19th, for supply of cast iron pipe, valves, lead pipe and other hardware for the city. Specifications with Secretary of Waterworks Department --The Sewers Committee will recommend that \$13,615 be appropriated for sewer construction throughout the city.-The City Engineer is again pointing out the need of larger electric pumps at the waterworks.-The Board of Police Commissioners have the commended the erection of a new station to cost \$5,000.-J. H. M Is has received an offer for his property on east King street, on which it is reported a large hotel may be erected.

PORT ARTHUR, ONT. — The International Heating & Lighting Company, Cleveland, Ohio, are applying to the City Council for a franchise to operate a gas plant.—Mayor Clavet intends erecting a new bulding and has sold property adjoining that on which he will build, the purchasers of which, intend to erect a new block thereon.—J. Murhead is promoting the estall shment of a large m 11 here. Options have been secured on property on which to erect the necessary buildings.—Tenessee Copper Co. will erect a large smelter either in this city or at Kashabowie.

OTTAWA, ONT.-N. J. Ker has purchased property on Clemow avenue on which to erect a bulding. He has also had plans prepared for a large residence.-The Oitawa Car Co. have decided to erect large factories for the manufacture of railway rolling stock.-W. H. Cluff has purchased property corner Bank and James streets, and will erect a block of stores thereon. — The Canada Stove Company propose to extend their premises.—The City Council will apply to the Provincial Government for authority to issue debentures for \$40,000 to cover cost of building additions to the city hall. — Woods, Limited, will erect a five-storey building, 70 x 200, at a cost of \$100,000.—A. F. Lagatt has purchased the Ottawa Fruit Exchange Balling, and will enlarge same by an addition of three stories. It is probable that he will erect another large warehouse in the western part of the city.— H. K. Egan and associates have decided to erect a new rink building at cost of \$75,000.—The Masonic Temple refered to n our last issue will be erected on corner Bink and Wellington streets. The building will he 66 x 100 feet, five stories high, and will cost \$125,-000. E. L. Horwood and L. F. Taylor, this city, are the architects.—F. Gelmas, Department of Public Wirks, wil: neceive tenders up to February 26th for construction of a public building at Selkirk, Man. Plans at offices of above department and with J. Chisho'm, architect, Winnipeg.

MONTREAL, QUE. - The Canadian Pacific Railway have pur hased considerable property in Westmount with the intention of constructing two spur 1 nes. The same company will erect a new station in Westmount. - The Canadian Rubber Co. have purchased 3,781 square feet of property in St. Mary's ward. - It is reported that the Grand Trunk Railway have purchased the Mechanic's Institute and adjoining properties with the intention of erecting an office building. - The E N. Heney Co. will erect new factories in Fairmount, at a cost of \$1co,000, providing certin concessions are made by municipal ty. - The Consumers Cooperative Brewery Co. are applying for incorporation. Among those interested are S. N. Parent, Ald. J. T. Gadbois and G. Normandin. The capital of the concern will be \$1,000,000.-H. C. Stone, architect, has prepared plans for an





February 13, 1907

February 13. 1907

add tion to the Coristine Bu Iding, cost \$100,000.—Laporte, Martin & Co. have purchased a bu Iding corner of W I iam and St. Paul streets and will remodel same. — L. E. Oumiet has purchased Poire Halle and will erect a three-storey building on the property at a cost of \$10,000.—A. A. Ayer & Co. have purchased property on St. Henry street with the intention of erecting a cold storage plant thereon.—Jenkins Bros. expect to build a foundry 100 x 60 feet in the near future.

WINNIPEG, MAN. — Bright & Johnson, whose building was recently destroyed by fire, have decided to erect a new structure on the site. — Glube & Berger hive purchased D. McArthur's hotel, and intend remodelling same. — H, B. Rugh, architect, has prepared plans for a four-storey building to be erected on Ellice avenue for the Young Womens Christian Association. — The Canadian Pacific Ra Iway purpose carrying out the following improvements : Construction of a steel bridge on the line from Lethbridge to Macleod, at an estimated cost of \$1.000,000; the erection of a new station at Port Arthur; erection of lodging bu IJings at Ignace, Ont; I sying out of a new yard at Coalridge, Alta.; extension of the

> It seems peculiar that the "PRIESTMAN'S" EXCAVATOR AND DREDCER

less than most. For particulars writ G. P. WALLINGTON, Canadian Representative, 11 Front Street East Tor

rest of the rk with less use and the lars write

is not us*d in Canada as it is all over the world, inasmuch as it will do more wo labor than any Excavator at present in Esterhazy branch from Sheho, Sask., to Wetaskiwin, Alia.; grade reductions on the Medicine Hat section and on lines from Lethbridge to Macleod, also the living of 80 pound steel rails on 330 miles of the road in place of the light rail now used.—Herbert Rugh, architect, wants tenders for Hague Armington warehouse, Winnipeg. by February 22.—



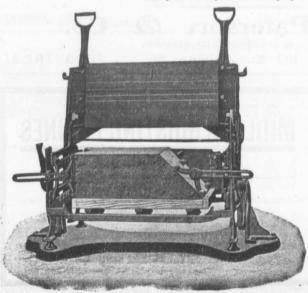
Sectional View of finished

CANADIAN SHOVEL LIMITED & TOOL CO. HAMILTON, CANADA

... Speaks For Itself ... THE MILES CONCRETE BUILDING BLOCK MACHINE

Makes 40 Different Sizes of Stone in Any Design, as well as the Specials, viz.: Water Table, Gable, Circle, Angle, Chimney, Cornice, Pier Blocks, etc.

Catalogues and Information Cheerfully Furnished.



This Machine makes all blocks face down—" the only practical way "—allowing of a richer and finer facing, producing blocks that are perfect in appearance and impervious to moisture.

Let us tell you how the "Miles" will pay for itself over any other machine in three months' operation.

Manufactured and Sold by VINING BROS. M'f'g. Co. Niagara Falls, - Can.

Manitoba Linseed Oil Mill will build a large plant this spring, having secured a site here.—Most prominent electrical people say they know nothing of rumored electric railway line from. Winnipeg to St. Vorbert.— Architect Eade wants tenders by February 19 for ten-roomed brick school. — Deer Lodge, Silver Heights, destroyed by fire, will be rebuilt.—Architect Melville calls tenders for brick residence in Winnipeg, brick business block for National Trusts at Saskatoon and a \$250,000 solid brick apartment block to be erected in Winnipeg.—Architect Clemens will soon call for tenders for store and dwelling corner Victor and Sargent.—Plans have been completed for additions to C.P.R. shops in the city to cost over half a million. Building operations will shortly commence.

TORONTO, ONT.— John S. Fielding, C.E., has extended the time for receiving tenders for factory building at Nisgara Falls to the 20th inst.—The Ottawa River Railway Co, will apply next session of the Ontario Government for power to construct a branch lne from a point in the township of Digby to a point in the township of Mara, also a branch from a point in the township of Calledon.—The Star theatre is to be demolished and a new structure will be erected on the site, at a cost of \$125,000.—The Temiskaming and Northern Railway Commission have rejected all tenders received for the erection of office building at North Bay, the figures being too high. New tenders will lkely be called for.—The Board of Education have decided to make the following additions to the school buildings throughout the city : Jarvis and Harbord Collegiate Institutes are to have four extra class rooms each; Leslie street, Pape avenue and Brock avenue schools will be increased by four rooms each; Howard school by two rooms, Perth avenue by five, and Queen Alexandra. Grace street, Essex street, and Wihrow avenue each by six rooms. An additional storey will be added to the King Edward schools. The building outlay on High schools will be abded to the King Edward school. The building outlay on High schools will be abded to the King Edward school. The building outlay on High schools will be abded to the Keng Edward school. The building outlay on High schools will be abded to the Rene will amount to \$300,000. — The city architect has issued the following building perm.ts: Mr. Hall, 2-storey brick building, Hewitt avenue, cost \$2,800; D. Corbet, 2½storey brick dwellings, brick fronts, Clinton street. cost \$2,500; C. Dickin, pair 2-storey oughcast dwellings, brick fronts, Clinton street. cost \$2,500; H. Lewis, pair semidetached 2-storey brick fronted dwell ngs, 18 20 North Markham street, cost \$2,500; R. Watson, brick, stone and cement smoke stack, at 371 Sorauren avenue, cost \$2,600; E. J. Galbraith, pair 2-storey roughcast dwellings, brick fronts, Westmoreland avenue, cost \$3,000; A. M. Stewart, pair semi-detached 2storey roughcast dwellings, brick fronts, 609 611 Crawford street, cost \$3,200; J. Hess, 2-storey and attic brick dwelling, Manning avenue, cost \$2,500; R. M. Speirs, 2-storey and attic brick dwelling,

Woolfrey avenue, cost $\$_{3,600}$; Corporation of the City of Toronto, 1-storey brick, steel and concrete grand stand in Exhibition Park, cost $\$_{215,455}$; 1-storey brick, stone and steel horticultural building in Exhibition Park, cost $\$_{90,000}$; H. Hutson, 4 attached 2-storey and attic roughcast stores and dwellings, brick fronts, Ossington avenue, cost $\$_{5,000}$; H. A. Knowles, 2-storey brick dwelling, 598 Church street, cost $\$_{5,000}$, F. Cochrane, Minister of Lands, Forests and Mines, will receive tenders up to March 1st for construction of a dock and approach at Rondeau Provincial Park, County of Kent. Plans at office of above department and with superintendent of park.—The Chairman Board of Control will receive tenders up to February 20th for suppl⁻ and installation of structural steel work required in the erection of new fire hall on Adelaide street west. Plans at City Architect's office.—The Carbon Paper & Ribbon Manufacturing Co. have Bros. intend erecting a large number of houses in the Riverdale district.

February 13, 1907

CONTRACTS AWARDED.

WALKERVILLE, ONT. - Construction of large coal sheds for W. Woollatt





& Sons, and remodelling of F. S. Archer's store : A. Mapes, this town, contractor.

store: A. Mapes, this town, contractor. BRACEBRIDGE, ONT.- Boring of wells for town: James Peat & Sons, Petrolia, Ont. - Construction of dam for the Georgian Bay Power Co.: Amhursen Hydraulic Construction Co.; Montreal, Que, contractors.

WINNIPEG, MAN .- Construction of concrete piers and abutments for bridge concrete piers and abutments for broke at Saskatoon for Canadian Pacific Rail-way: J. McDiarmid Co., this city, con-tractors. —John Girvin & Co. secured contract to erect Fairchild Co's warehouse Winnipeg for \$92,500.

Winnipeg for \$92,500. PICTON, ONT — Purchase of \$15,000 4 per cent 30 year High School debentures; A. E. Jarvis & Co, Toronto, successful tenderers at \$13,038. Other bidders, W. C. Brent, Toronto, \$13,759; Wood, Gun-dy & Co., Toronto, \$13,908; Dominion Se-urities Corporation, Toronto, \$13,531. All hids included acrude interest. VICTOPIA P. C. Conservation of a

VICTORIA, B. C.-Construction of a VICTORIA, B. C.—Construction of a wharf for Alaska Steamship Co.: British Columbia General Contract Co., contract-ors. Cost \$15,200.—Supply of cast iron water pipe for city : R. P. Rithet, this city, successful tenderer at \$44 per ton.— Erection of new buildings and alterations to present premises for Victoria Pheenix Brewing Co.: W. McK. Ross, this city, contractor.

contractor. VANCOUVER, B C. - Laving of wood-block pavements: Pender street, Richard street to C. P. R. track: I ronside, Rainie & Camphell, successful ten erers at \$14,100,51; Seymour street, Pener to Georgia streets: Barber Asphalt Co., successful tenderers, at \$14,28. - Supply of automobile fire engine: International Power Co., Manchester, N. H., success-ful tenderers, at \$12,668. WINNUBCC MAN. The Board of

ful tenderers, at \$12,668. WINNIPEG, MAN.—The Board of Control have recommended that the fol-lowing tenders be accepted : Plumbing in 25 houses : Morton & Arnet, successful tenderers, at \$1.806,59 ; sewer connection in 25 houses : C. E. Esser at \$1:553:75 ; supply of waterworks specials. Northern Iron Works, this city, at \$70 per ton : supply of two 250 h. p. water tube boilers with auto chain grate : Babceck & Wil-cox Co., Montreal, at \$14,500 : supply and erection of one 1,000 k. w Steam turbo-generator : Westinghouse Co., Hamilton, erator : Westinghouse Co., Hamilton, at \$46,000.

at \$46,000. ST. THOMAS, ONT.—Hamilton & Stett, this ctv, have been awarded the following contracts: Hot water heating and nlumbing and metal ceiling in new Oak Hall building; plumbing and iron work, Mr. Fallan's house; metal ceiling in Anderson & Co.'s store : heating and veutilating school on gravel road; plumb-ing, heating and iron work for H Lindop's house. This firm are also preparine plans for hot water h ating for the two top stories of the Home Bank building.





WALKERVILLE, ONT



REINFORCED CONCRETE WATER TOWER.

10

The water tower at Ober Schoneweide, near Berlin, Germany, is one of the first executed by Messrs. Wayass & Freytag according to the Ministerial Regulations of April 16th, 1904. The cylindrical container is 4.2 meters in diameter and 4.5 inches in height, and holds about 55 cubic meters (72 cubic yards) of water. It rests on a platform which is carried by 6 recof the structure, which was completed in 1906, amounted to M. 150,000 (about $\pounds 7,50^{\circ}$). The annexed diagrams (Figs. 1 to 5) illustrate the general construction of the tower, and the reinforcement of the platform and the container.

TAR MACADAM.

NIAGARA FALLS SOUTH, February 4th, 1907.

Editor CONTRACT RECORD:

this or any other country, and in doing so I wish to point out that there are many reasons why success is not gained, some of which I will mention :

First, often the formation to receive the tar macadam is not sufficiently even to allow of an even bearing for paving, thus causing deflects when traffic passes over the surface.

Second, as the finished surface of the paving only requires a small

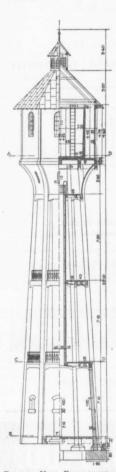
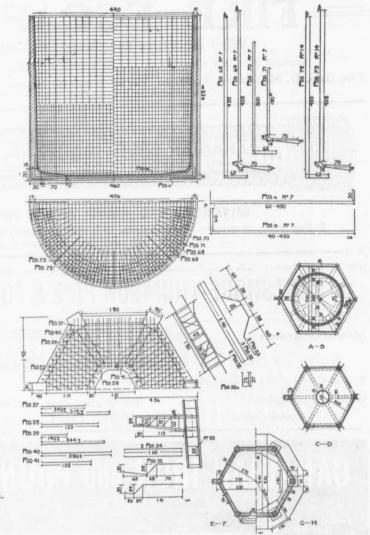


FIG. 1.—NEW REINFORCED CON-CRETE WATER TOWER AT OBER SCHONEWEIDE.



FIGS. 2 TO 5.—REINFORCED CONCRETE WATER TOWER AT OBER SCHONEWBIDIE: WORKING DRAWINGS.

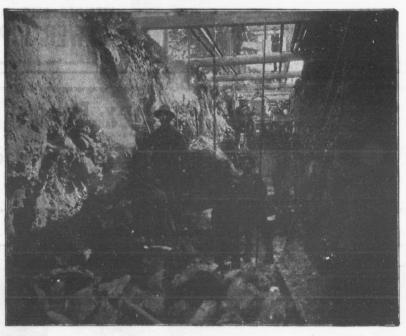
tangular columns 24⁵ meters in height and of 60 x 60 cm. cross section. The wall of the container is 10 cm. thick at its upper edge and 20 cm. at its juction with the bottom, which is 12 cm. thick. The stand-pipe is 1.10 metres in duameter, and has sides 5 cm. thick. The wind pressure was calculated as 150 kg./m.2, or about 30 lbs. per square foot, normal to the direction of the wind. The cost your issue of January 30th on "Tar Macadam," I notice experimental lengths have been tried in London, England, without success.

As 1 have not only experimented but have supervised the actual preparing and laying of many thousands of yards of tar macadam for various public and private bodies, in England, and with most satisfactory results, 1 may say that I thoroughly recommend its use in

contour, the same contour should be given to the formation. This in most cases is either left too flat or much too steep and altogether unsuitable for the reception of the macadam.

Last, a great percentage of people who have experimented with this class of pavement, although having shown great care in having the stone, tar, etc., properly prepared and mixed, a very

"INGERSOLL" ROCK DRILLS



Three out of the ten of our "Ingersoll" steam drills used by Messrs. Laurin and Leitch in excavating rock at St. Louis de Mile End, Quebec. These rock drills are fully described in catalogue No.81.]

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TORONTO: Traders Bank Bldg. NELSON: Josephine St. VANCOUVER: 416 Seymour St.

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February 13, 1907

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Baxter, Paters	on	80	(Co											•	•		ł
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February 13, 1907

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6 inches thick when rolled, can be laid at about \$1 per superficial yard within a distance of from 50 to 60 miles of the quarry in which the stone or slag is produced, and is quite suitable for much heavier and faster traffic than is usually found on the Thames embankment.

Yours truly, HERBERT EDMUND HOLLOWAY.

[Mr. Holloway is prepared to answer any reasonable questions regarding tar macadam .- THE ED-ITOR.]

NEW COMPANIES.

The Woodstock Cold Storage Company, Limited, Woodstock, N. B., incorporated, capital \$15,-000. Incorporators J. F. Tilley, A. Miles, J. A. Hayden, all of Woodstock, and others.

R. G. Haley, H. W. Gross, J. W. Vanwart, all of St. John, N. B., and others are seeking incorpora-tion as the Hillsboro H4rdwood Flooring Company, Limited.

A license has been granted the Arbor Oil Company, incorporated under laws of the State of Michigan, to transact business in the Province ot Ontario. W. G. Richards, Chatham, Ont., is attorney.

The Crescent Machine Company,



Portland Cemen **Monarch Brand**

Highest quality-guaranteed to fulfill the requirements of specifications for Portland Cement approved of by the Canadian and American Societies of Civil Engineers.

Prompt shipments from mill or stock at Fort William and Port Arthur.

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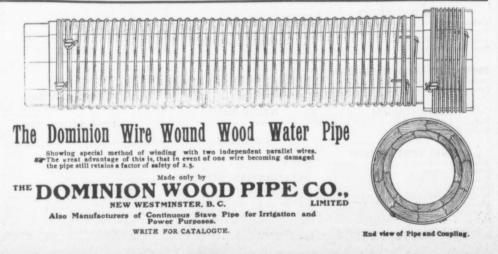


Six Stage Turbine Pump, Electric Motor and High Speed Steam Engine. Built for the Montreal Water and Power Co., to do '4520 imperial gallons a minute against 300 feet head. Overall Eff. 70 per cent.

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Blue

Limited, Montreal, Que., incorporated, capital \$20,000. Grabble, W. A. Patterson, H. S. Williams, and W. Bovey, all of Montreal.

16

The Kelly Island Lime Company, Limited, Windsor, Ont., incorpor-ated, capital \$40,000. Directors, A. R. Bartlet, N. A. Bartlet and Agnes W. McGregor.

The North Atlantic Dock & Shipbuilding Company, Limited, Mon-treal, incorporated, capital \$1,500,-Incorporators, A. C. Ross, 000. C. B. Ross, both of North Sydney, N. S., W. H. Moore, of Toronto, and others.

The Niagara Cobalt Silver Mining Company, Limited, Niagara Falls, Ont., incorporated, capital \$750,-000. Directors, E. B. Scofield, D. F. Harrington, and others.

The Great Northern Gold Fields, Limited, Montreal, Que., incorpor-

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THE ONTARIO PORTLAND CEMENT GO. LIMITED HEAD OFFICE : BRANTFORD, ONT. THE JOHNSON CORRUGATED STEEL BAR **REINFORCED CONCRETE** Manufactured by THE CORRUCATED STEEL BAR CO. OF CANADA, LIMITED Office: Coristine Building, MONTREAL New, Re-built and Second-hand TRACTION and PORTABLE ENGINES (Simple and Compound) For drawing and driving Rock Crushers, Road Graders, Coment Mizers, Grinders, Threshers, Plows, Saw Mills and miscellancous uses. HICHWAY All Powers Correspondence Soli BRIDGES Sawyer & Massey Co., Ltd.

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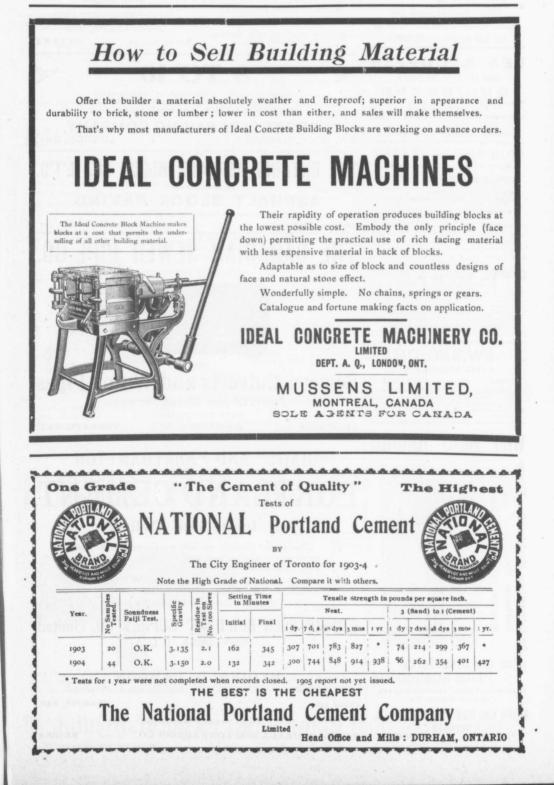
CANADIAN CONTRACT RECORD

ated, capital \$2.000,000. Incorperators, F. McKenzie, J. F. Mc-Kenzie, A. R. Johnson, M. J. Morrison, and J. A. O'Sullivan, all of Montreal.

The Eastern Construction Com-

pany, Limited, Ottawa, Ont., incorporated, capital \$1,000,000. Incorporators, J. Gillespie, C.E., H. H. Short, F. H. Honeywell, S. B. Johnson and J. B. Prendergast, all of Ottawa. The Larder Lake Exploration & Development Company, Limi'ed, Haileyhury, Ont., incorporated, capital, \$500,000. Directors, J. McL. Deacon, N. Fink, and others.

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18 CANADIAN CONTRACT RECORD February 13, 1907 MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS John H. Jackson WILLIS CHIPMAN McDOUGALL & McRAE Hon. Grad. McGill University. M. Can. Soc. C.E. M. Am. Soc. C.E. Mem Am. W.W. Ass'n. CIVIL ENCINEER ENGINEERS WATER POWER, ELECTRIC RAIL-WATERWOBES, SEWERAGE WORKS, GAS WORKS, BLECTRIC LIGHT AND POWER PLANTS Reports, Surveys, Construction, Valuations WAYS, STRUCTURAL STEEL. Electric Light and Power Plants. Electric Railroads. General Consulting Work. Niagara Falls, Canada Associated with Charles H. Mitchell, C. E., Hydraulic Engineer. **IO3 BAY STREET - TORONTO** Citizen Building OTTAWA LEA & COFFIN 8 S _____ TO 10 D and H. S. FERGUSON ENGINEERS contracts under construction continually. That is why we can do work CHEAPER, QUICKER, BETTER, than small contractors. Waterworks, Sawerage, Water Powers Pulp and Paper Milis Reinferced Concrete Structures of Every Description. FOREST CITY PAVING COMPANY, Ceristine Building - MONTREAL B. V. HOLE, MANAGER RODERICK J. PARKE A.M. Can. Soc. C.E. A.M. Amer. Inst. E.E. THE ONTARIO ASPHALT BLOCK CO., L'T'D. **CONSULTING ELECTRICAL ENGINEER.** MANUFACTURERS OF Riectrical Light and Power. Steam Plants, Gas Power Plants, Water Power Plants. Hotimates. Tests. Reports. Valuations. ASPHALT BLOCK PAVING Information and samples furnished municipalities on application sa-ss Janes Building - TORONTO, CAN. Main Office : WINDSOR. ONT. Works : WALKERVILLE, OFT. Long Distance Telephones-Office and Residem Cable Address "Rodparke" (W. U. Code.) PIPE CO. A. W. Connor, B.A., C.E. E. R. Clarke, B.A.Sc. W. Monds, B.A.Sc. W. Monda, B.A.BC. CONSULTING ENGINEERS CONSULTING ENGINEERS Hydraulic, Musicipal and Railway Work; Long Distance Power Transmission; Machinery: Pumpa; Complete Industrial Plants; Fire-proof Siteel or Relinforced Concrete Office and Mill Buildings; Bridges, Towers, etc. CEMENT TESTING LABORATORY 56 TORONTO ST. TORONTO, ONT MANUFACTURERS OF LEWIS THOMAS J. FOR CIVIL ENGINEER. Sewers, Culverts and Water Pipes LONDON - - ONTARIO Consulting Regineer for Municipal and County Work. Electric Railways, Bridges, Water-works, Sewerage, Wharves, Docks, etc. 307 Species attention to Valuations and Arbi-trations. **Inverts** for Brick Severs WRITE FOF DISCOUNTS HAMILTON, ONT. ST. JOHNS, P.Q. TORONTO, ONT. SUPPLY APPLIANCES WATER "GIANT" AND "NORTHAMPTON" Villagos PORTLAND CEMENT Specialty Corporations, Municipalities, For Immediate Delivery -The above Cement we fully guarantee to tulfil the requirements of Canadian and American Societies of Systems Btc. Civil Engineers. Large stock always carried at Fort William, Port Residences. Arthur and Duluth. Sprinkler Telegraph, Telephone or write for prices. STINSON-REEB BUILDERS' SUPPLY CO. Limited MONTREAL, P.Q. For Wood and Steel Tanks, **REGINALD LAWSON** Steel Substructures WESTERN REPRESENTATIVE, UNION BANK BUILDING Windmills, Pumps, Gaseline Engines, Hydraulic Engines, Etc. WINNIPEG, MAN. Phone 3397 ANTARIO WIND ENGINE AND PUMP CO., LTD. For the Province of Saskatche TORONTO MOSTREAL REGINA STORAGE AND FORWARDING CO. REGINA

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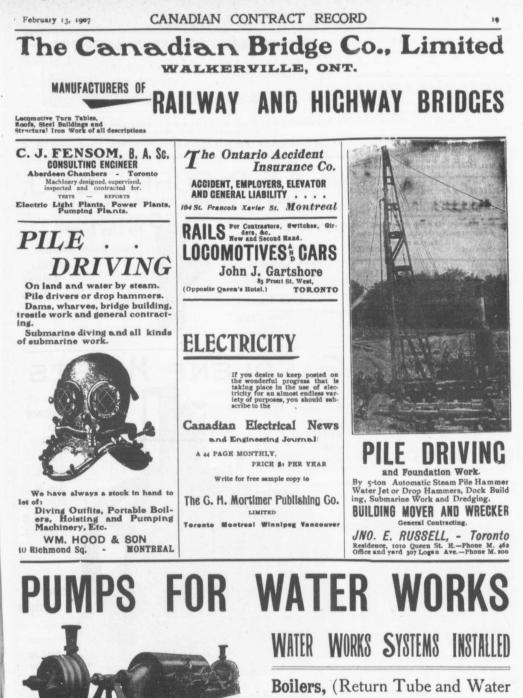
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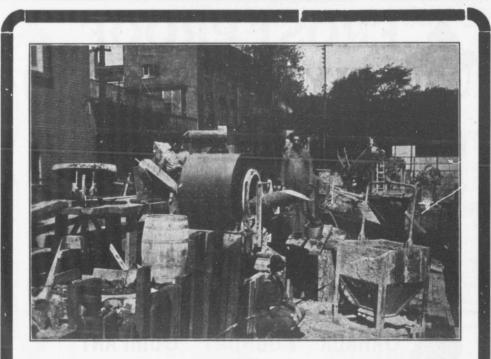
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February 13, 1907



Ransome Gongrete Mixers are the most up-to-date machines on the market.

The Ransome Mixer is used extensively on all large contracts to-day. The above illustration shows one of our No. 1 Ransome Mixers, owned by Peter Lyall & Sons, at work on the New Windsor Hotel—MONTREAL.

SIMPLE IN CONSTRUCTION - EFFICIENT - EASY TO OPERATE

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