#### CANADIAN

# CONTRACT RECORD

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

This Paper Reaches Every Weck 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.

Vot., 18.

TORONTO, MONTREAL - MAY 1, 1907 - WINNIPEG, VANCOUVER

Nc. 0

#### THE CANADIAN CONTRACT RECORD

PUBLISHED BYERY WEDNESDAY
As an intermediate Edition of the Canadian
Architect and Builder.

#### THE C. H. MORTIMER PUBLISHING COMPANY of Toronto, Limited,

Subscription Price, \$2 per annum, payable in advance.

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#### PUBLISHERS' ANNOUNCEMENT.

To ensure publication of the CON-TRACT RECORD on time, advertisers are requested to strictly observe the following regulations:

Copy and cuts for change of advertisements must reach the publication office in Toronto not later than Satornice in foronto not later than Sat-urday preceding the date of publica-tion. The copy should show the size of the cuts, if any, as sometimes there is delay in transmitting them through the mails.

Transient advertisements for Tenders must reach the publication office by TEN O'CLOCK A. M. ON TUESDAY, but our patrons will confer a favor by forwarding advertisements earlier whenever possible.

## **Tenders**

will be received by Mr. H. J. Colwill, County Commissioner, Arthur, Ont., up till one o'clock p.m. on MONDAY, MAY 6711, 1907, for the following Concrete Bridge Work for the Corporation of the County of Wellington.

First-A Concrete Arch Bridge of 35 foot span near Arthur Village.

Second—A Concrete Abutment for a bridge in the Village of Drayton.

Third-A Concrete Abutment for a bridge over the Conestogo River five miles south west of Drayton.

Plans and specifications for these works may be seen by applying to any of the following parties: Alex, McKinnon, County Commissioner, Hillsburg, P.O.; H. J. Colwill, Arthur, or James McEwing, Drayton.

(5.) H. J. Cowlin. Assuming the program of the prog

J. HUTCHEON, Guelph, Ont., April 23rd, 1907. Engineer.

#### Surveying Practice For Sale

A Fine Surveying Practice, including Instruments, ooks, &c., and the contents of a well-equipped arveyor's office.

M. E. SQUIRE,
54 Market St., Brantford, Ont.

#### TENDERS FOR STEEL BRIDGE

Tenders, addressed to the undersigned, will be re-ceived up to noon, MAY THE 2MD, for the erection of one too fort Span Stee Bridge over the Saugeen River, Concession 4, Bentinck, also tenders per cubic yard for concrete work for abatments of said bridge. Parties tendering for steel work to submit plans of same. Specifications for concrete work from the search special be accompanied by an accepted cheque for the amount of 10 per cent, of tender.

DUNCAN CAMPBELL, Clerk, Township of Bentinck, Hanover

## Town of Goderich

ocated Tenders, addressed to the undersigned, en-dorsed "Tender for Walks," will be received up to noon, THURSDAY, THE 9TH DAY OF MAY, 1997, for the construction of approximately 76,000 square feet of

#### Concrete Walk

ecifications can be seen at the Town Clerk's

M. O. JOHNSTON.
Town Clerk, Goderich, Ont.

## Gement Gongrete Sidewalks

Gity of Guelph

Scaled tenders, addressed to John Kennedy, Esq., Chairman of the Board of Works, in care of the City Clerk, Guelph, will be received till 12 o'clock

#### Monday, May 6th,

for the construction of about 70,000 feet of Cement Concrete Sidewalks. Plans and specifications can be seen at the office of the City Engineer from whom forms of tender may be received.

e received. Tenders to state price using city cement and price sing outside cement. No tender necessarily accepted.

#### JAMES G. LINDSAY,

City Hall, Guelph, April 23rd, 1907.

## **TENDERS**

Tenders will be received at the office of the under-signed up to noon on MAY ITH, marked "Tender for Telephone Building" for the erection of a

#### Fireproof, Brick and Stone Office Building

on Hollis Street, Halifax, N. S., for the Nova Scotia Telephone Company, Limited.

The lowest or any tender not necessarily accepted.

HERBERT E, GATES, Architect,
Halifax, N. S<sub>4</sub>

Scaled tenders addressed to the undersigned will received until noon on

#### FRIDAY, THE 3RD OF MAY

tor rebuilding the Foot Bridge in the City of St. Thomas, with a reinforced concrete structure consisting of three are passed of a feet each. Plans and specifications can also blank for office, St. Thomas, and also blank for office, St. Thomas, and also blank for office, St. Thomas, and also blank for the sum of \$400.00 payable to the Treasurer of the City of St. Thomas or the Treasurer of the City of St. Thomas or the Treasurer of the County of Elgin, must accompany each tender. The committee do not bind themselves to accept the lowest or any tender.

JAS. A. BELL,

#### City of Prince Albert, Sask.

## Debentures for Sale

Scaled bids, addressed to the undersigned, will be received up to FRIDAY, MAY THE 318T, 1907, for the purchase of the following City of Prince Albert

Debentures:

\$65,034,00 Waterworks, 30 years, 4½ per cent., dated goth March, 1905.

\$34,445.00 Sewerage, 30 years, 4½ per cent., dated goth March, 1905.

\$62,000.00 Electric Light, 30 years, 4½ per cent., dated 4th July, 1906.

\$55,000.00 C. N. K. Bonus, 30 years, 4½ per cent., dated gth December, 1906.

\$120,000.00 General, 10 years, 4½ per cent., dated gth December, 1906.

Bids on first two lots to include accrued interest from 30th March, 1966, on balance from date of issue. All of above debentures are repayable in equal consecutive annual instalments of principal and interest running from date of issue.

The highest or any tender not necessarily accepted.

c. O. DAVIDSON,
Secretary-Treasurer

Complete Concrete Plant, Smith Mixer, with Double Drum Steam Hoist and Derrick, on flat

scow,
Diving Outfit, Compressed Air Plant on scow.
Austin No 3 Stone Crusher with Elevator, Portable Boiler and Engine. Steam Hoists, several Flat Scows, Stationary and Travelling Derricks, Horse Powers, Steam Drills and Sundry Plant.

THE R. MACDONALD CO., Ltd., Three Rivers, Oue.

## Tenders Wanted

Tenders will be received up till 5 o'clock on WEDNESDAY, MAY 187, 1907, for the erection of a new Methodist Church in Parry Sound. Tenders for the whole or any part of the work will be considered. The lowest or any tender not necessarily accepted. Plans and specifications may be seen on application to

REV. T. DUNLOP, or Parry Sound, Ont.

J. S. RUSSELL,
Architect,
Stratford, Ont.

## Tenders Wanted

Sealed tenders, addressed to the undersigned, and endorsed "Tender for Pump," will be received up until twelve o'clock, noon, on MONDAY, THE THRTEENTH DAY OF MAY, 1997, for furnishing, erecting and connecting complete, including foundations and all other work and materials necessary to the installation in running order of a new pump in the Amherstburg Waterworks, capable of raising water from a depth of 15 feet in the well, and delivering 800 imperial gallows per insule into a depth of 15 feet in the well, and delivering 800 imperial gallows per insule into a pounds, with a steam boiler pressure not exceeding 80 pounds per square inch, the said pump to be of the latest pattern of its type, and to have all the modern improvements and attachments; said tenders to also include the repairing and placing in perfect working order of the compound, direct acting, duples pumping engine of the above capacity, now in use in the said waterworks either, and alternative processed of the compound, direct acting, duples pumping engine of the above capacity, now in use in the said waterworks either, and alternative processed of the compound, direct acting, duples pump.

Second – 4 fl-whied pump.

No tenders necessarily accepted.

For further particulars apply to J. H. C. LEGGATT, Town Clerk, Amherstburg, Ontario.

#### City of Regina, Saskatchewan

## WATERWORKS AND SEWERACE

The City Clerk will receive scaled tenders up to five p.m. TUESDAY, 14TH MAY, 1907, for the furnishing of the following material and construction the following works?

#### CONSTRUCTION

(1) All labor and materials for constructing two Compensating Basins, 1,000,000 and 500,000 gal-lons capacity respectively. (2) Trenching for and 134,000 feet C. I. pipe; and 54,000 feet Sewer Pipe.

#### MATERIALS.

MATERIALS.
One 1, 500 gallon Pump.
1, 500 feet of C. I. Pipe.
1, 500 feet of C. Sewer Pipe.
1, 500 feet of C. Sewer Pipe.
1, 500 Corporation Cocks.
100 Cocks.
10

Plans and specifications may be seen and forms of tender obtained at the office of the City Engineer. Every tender for construction work must be accompanied by a certified cheque for \$500; every tender for materials must be accompanied by a certified cheque for \$200, payable to the order of the City of Regin.

The lowest or any tender not necessarily accepted.

ANGUS SMITH, J. KELSO HUNTER, City Engineer. City Clerk.

#### CONTRACTORS' ENGINEER

railways, roadways and bridges, requires position of entire responsibility. HILDER DAW, A. M. C. S. C. E., 790 City Hall Avenue, Montreal.

#### TENDERS

Tenders will be received by the undersigned up till noon on WEDNESDAY, MAY 8711, 1907, for the massory, terra cotta and cut stone work required for an office building for the Canadian General Electric Co., Ltd., Toronto.

The lowest or any tender not necessarily accepted.

(Signed)

DARLING & PEARSON, Architects.

2 Leader Lane, Toronto.

## TO CONTRACTORS

Tenders will be received by the undersigned until noon of SATURDAY, MAY 117H, 1907, for the yarious works required in the erection of a residence in Rosedale. Plans and specifications may be seen at the office of the undersigned. The lowest or any tender not necessarily accepted.

S. H. TOWNSEND, Architect, 15 Gerrard Street East, Toronto.



## TENDERS FOR Plumbing and Electric Wiring Work

Tenders addressed to the undersigned will be received through registered post only, up to 12 o'clock noon on

#### TUESDAY, MAY 7TH, 1907,

for the following work, viz.:

1. Plumbing work at Police Station No. 4, Wilton

Avenue.

2. Plumbing work at Fire Hall No. 9, lower Dundas Street.

3. Plumbing work at Fire Hall No. 13, upper Dundas Street.

4. Electric wiring installation, St. Lawrence Market.

Market.

Copy of specifications may be seen and tender forms obtained, together with all information relative thereto, at the office of the Property Department, City Hall, Toronto.

The usual conditions pertaining to tendering as prescribed by city by-law must be strictly complied with, and envelopes containing tenders must be plainly marked on outside as to contents.

EMERSON COATSWORTH (Mayor),



Department of Railways and Canals, Canada.

#### TRENT CANAL.

## NOTICE TO CONTRACTORS

Sealed tenders addressed to the undersigned, and endorsed "Tender for Dam and Bridge," will be re-ceived at this office until 16 o'clock on WEDNES-DAY, THE 157H MAY, 1997, for the building of a Concrete Dam and Highway-Bridge, at Buckhorn, Ont.

crived at this conceived at this conceived at this conceived at the spirit MAY; need to the concrete Dam and Highway-Bridge, as Concrete Dam and Highway-Bridge, as Conceived The Department of Railways and Canals, Ottawa, and at the office of the Superintending Engineer, Trent Canal. Peterboro, Ont., at which places forms of tender may be founded. The lowest or any tender to the sessarily accepted. By order, L. K. JONES, Secretary.

Department of Railways and Canals, Ottawa, 20th April, 1907.

Newspapers inserting this advertisement without uthority from the Department will not be paid for

#### CONTRACTS OPEN.

BELLMONT, MAN. — The Town Council are having plans prepared for fire hall, and will shortly call for tenders for erection of the building.

STRATHCLAIR, ALTA.-W. Hogg, R. Hogarth and J. Cummins will erect dwellings this season.-The Bap'ist congregation will erect a new church.

PORT STANLEY, ONT. - N. R. Darrach, architect, St. Thomas, has invited tenders for erection of a two-storey brick office building for Sterling Bank.

CORNWALL, ONT .- The Cornwall Township Council have instructed the township engineer to prepare plans for a new steel bridge over the River Aux Raisin.

RIDGETOWN, ONT. — A by-law granting a loan of \$10,000 to the Ridge-town Canning Co. to establish a factory in this town has been carried by the

SOURIS, MAN. - The Government Engineer has reported to the Town Council that between 600 and 800 h.p. may be developed on the Souris river at this point.

LENORE, MAN.—W. J. Donahue, Secretary-Treasurer School District of Gilt, wants tenders up to May 15th for purchase of \$2,200 5 per cent. 20 year

OWEN SOUND, ONT. — H. F. Slater & Co., of Learnington, are seeking a twenty-five-year franchise from the Town Council to supply natural gas for heating purposes.

MONCTON, N. B.-D. Pottinger, general manager Intercolonial Railway, wants tenders up to May 10th for double tracking the main line between this city and Painsec Junction.

HEWARD, SASK.—Storey & Van Egmond, architects, Regina, have prepared plans for a four room school to be erected here to cost \$12,000. Tenders to be called for at once.

CAMPBELLFORD, ONT.-A by-law will shortly be submitted to the ratepayers providing for a loan of \$15,000 to Dickson Bios, who purpose establishing bridge works in this town.

CARNDUFF, SASK.—By-laws will be submitted to the ratepayers on May 6th providing for improvements to school building to cost \$2,000 and a grant to the Agricultural Society of \$700.

SHAWVILLE, QUE.—W. W. Ireland, Village Secretary-Treasurer, wants tenders up to May 10th for purchase of \$25,000 5 per cent 40 year waterworks and sewerage system debentures.

OSHAWA, ONT. — The Ontario Mall-able Iron Co. intend enlarging their premises. — The Stacey Sash & Door factory, which was destroyed by fire list week, is to be rebuilt at once.

INDIAN HEAD, SASK —The rate-payers will vote on the following by-laws on May 21st: Electric light extensions, \$10,000; water and sewer extensions, \$30,000; fire hall and equipment, \$10,-

FREDERICTON, N.B.—The City Council have leased a site to R. Chesnut & Sons, who will erect a factory thereon. -J. S. Neill has had plans prepared for brick warehouse to be erected on King street.

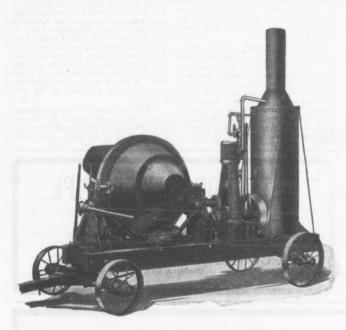
PORTAGE LA PRAIRIE, MAN.— A. E Ireland, Secretary-Treasurer of Portage la Prairie School District No. 10, wants tenders up to May 22nd for purchase of \$16,000 five per cent. 20 year debentures.

CAMPBELLTON, N. B .colm wants tenders up to May 15th for clearing, grading, etc., 50 miles of the tha at sta m

May

## You Can't Get Over The Fact

that Contractors and Engineers prefer a mixer which does steady work at all times—A Machine which goes on a job at the beginning and stays there till the end, turning out large quantities of beautifully mixed concrete every day and every hour it is wanted.



You wonder how such a simple looking machine as the "Smith" Mixer is able to produce such fine concrete. It certainly looks and is simple, but have you ever looked inside a "Smith" Drum and seen how the contents are turned over, cut away, lifted up and tumbled into a central mass many times a minute—

All this concrete is dumped in an instant.

If you want to find out how the "Smith" Mixer is stronger, more durable, quicker, and better at mixing than any other, go and look at one, then ask the contractor what he thinks.

2500 satisfied users all tell the same story—

The "SMITH" is the Best

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MAN. surer of t No. 10, for pur-20 year

T. Mal-15th for es of the SELKIRK, MAN.—H. W. Newton, secretary-treasurer Selkirk School District No. 69, wants tenders up to May 7th for rebuilding of central school. Plans with T. J. Jones, this town, and William Figlind, architect, Winnipeg.

EGLINGTON, ONT. — The Town Council will undertake a number of local improvements to cost \$7,600. — H. Waddington has purchased a lot on which to erect a residence. —J. T. Ormsby will erect a residence to cost \$10,000.

SARNIA, ONT.—F. Gelinas, Secretary Department of Public Works, Ottawa, wants tenders up to May 14th for erection of addition to the Sarnia post office. Plans with Postmaster, this town, and Department of Public Works, Ottawa.

HALIFAX, N.S.—Drs. Carruthers & Eager have had plans prepared for a hospital bu lding to cost \$11,000.—H. E. Gates, architect, wants tenders up to May 11th for erection of brick and stone office building for the Nova Scoil Telephone Co.

COOKSHIRE, QUE. — C. H. Tambs, Secretary-Treasurer Municipality of Bury, wants tenders up to May 6th for building a lattice deck bridge, also approaches for same and two cement foundations. Plans with Secretary-Treasurer.

BRANDON, MAN.—The Brandon Pump and Windmill Works will erect a three storey brick warehouse.—W. Gray & Sons, and Mansen Campbell Fanning Mill Company, both of Chatham, Ont., will jointly erect a large four-storey warehouse in this city to cost \$15,000.

LONDON, ONT.—It is probable that Peter Smerlies, of Grand Rapids, Mich., will secure the building now occupied by W. J. Reid & Company, and adjoining building and convert same into pool and billiard pailor.—H. C. McBride, architect, wants tenders up to May 3rd for erection of brick residence.

NORTH BATTLEFORD, SASK.— The Union Supply Co., of Rosthern, will erect a large flour mill to cost \$20,000, and also a grain elevator.—Storey & Van Egmond, architects, Regina, have prepared plans for an eight room school to be erected here at a cost of \$30,000. Tenders will be called for at once.

Tenders will be called for at once.

SYDNEY, C.B.—R. Gillis, architect, is preparing the plans for the threestorey building for Shaw & Mason.—It is probable that the Tanning Co. Ltd. will erect a building here. — Tenders have been invited for erection of brick church building 120 x 100 feet for the St. Andrews church congregation.

PORT ARTHUR, ONT.—Redpath & Co., of Montreal, are considering the erection of a plant here for the manufacture of cars and car wheels.—J. Muirhead has asked the City Council to guarantee the bonds of a company in which he is interested who intend to erect several mill buildings at a cost of \$100,000.

CALGARY, ALTA—It is probable that the city will purchase electric power from the Aiberia Portland Cement Co., who are about to generate 5,000 horse-power at Rednor which will be more than they require.—The ratepayers have endorsed a by-law to raise \$250,000 for the establishment of a muricipal street railway system.

PRINCE ALBERT, SASK.—F. C. Baker will erect a two-storey brick store 40 x 113 feet.—Berkman & Frakenburg have purchased a lot on which they will erect a store 50 x 60 feet.—The Imperial Bank are having plans prepared for a new building. — C. O. Davidson, City Secretary-Treasurer, is taking tenders up to May 3rd for erection of brick and stone electric light and power house.—Tenders will shortly be called for erection

of brick and stone high school building

to cost \$100,000.

HAMILTON, ONT.—The following building permits have been issued: S. McPhie, three storey brick hotel, King street, cost \$10,000; E. B. Patterson, two brick houses, Marguerite street, cost \$3,000; C. Plant, brick store building, Barton street, cost \$3,000; W. Findlay, three brick dwellings, Aberdeen avenue, cost \$6,000; Fanning & Fogwell, five brick houses, Garth street, cost \$8,000.—C. J. Myles has acquired property on Hunter street on which to erect a five-storey factory building, cost \$60,000.—S. H. Kent, City Clerk, wants tenders up to May 3rd for construction of a number of pipe sewers.—Fowlers Canadian Co., Ltd., have invited tenders for erection of factory building.

GUELPH, ONT.—H. F. McNaughten, Secretary of Public Works, Pailament Buildings, Toronto, wants tenders up to May 8th for erection of an addition to the Ontario Agricultural College.—The Board of Works have recommended that permanent roadway and sidewalks be constructed on Wyndham street to cost \$50,000.—The City Council have decided to grant a loan and free site to J. G. Gorsch & Sons, of Milverton, Ont., who have plans prepared for a three storey brick or cement building 60 x 250 feet. A by-law ratifying this agreement will shortly be submitted to the raternavers.

VANCOUVER, B.C.—W. McQueen, City Clerk, wants tenders as follows: Up to May 8th, for supply of about 72,000 steel bands for wood stave pipe.

## **GET GOOD SEWER PIPE**

Those requiring sewer pipe should see that they get the best. It is the cheapest in the end.

We manufacture the best and cheapest. It is steam pressed, salt glazed, vitrified, absolutely non absorbant and once laid will last forever.

THE CANADIAN SEWER PIPE CO.



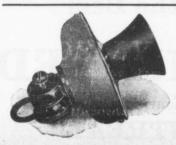
## STAR

THE CANADIAN STANDARD

THE CANADIAN PORTLAND CEMENT CO., LIMITED

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203 BOARD OF TRADE BUILDING MONTREAL



We manufacture and carry in stock at all times complete lines of

## Telephones Switchboards Supplies

We are the only manufacturers in Canada who can supply you with anything or everything for a telephone system.

The Northern Electric and Manufacturing WINNIPEG Co., Limited MONTREAL

# PLUMBERS' AND STEAMFITTERS' SUPPLIES

Iron Pipe 1-8 in. to 12 in. carried in stock

Malleable Fittings Cast Iron Fittings

Lead Traps and Bends

Valves Tools Lead Pipe Pig Lead

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TORONTO 59 Richmond St. East

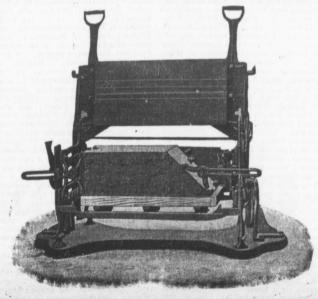
... Speaks For Itself ...

## 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.



ing

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.

Sales Agent for Quebec: T. A. CHADBURN, 242 St. James Street, MONTREAL.

May I,

Specifications at waterworks office. Up to same date for supplying and diving piles. Specifications at waterworks office. Up to May 23rd for supply of two automobile engines and two automobile hose wagons. Specifications at office of Chief of Fire Department.—A local company have purchased the Columbia brewery and will greatly enlarge the building.—J. W. Weart is organizing a company for the purpose of erecting a fourteen storey office building to cost \$500,000.—It is announced that a site has been purchased at Mount Pleasant for a new Roman Catholic church.—The Mount Pleasant Baptist church congregation have acquired property on which to erect a new building.

REGINA, SASK. — E. Carver

REGINA, SASK. — E. E. Carver wants tenders up to May 4th for erection of brick and stone church. Plans at at offices of W. M. Dodd, archivect, this city and Calgary.—Storey & Van Egmond, architect, are calling for tenders for installation of new plumbing, heating and ventilation system for the Alexandra School, and residences for J. T. Stemshorn, T. S. McMoran and J. A. Reid.—L. L. Kramer wants tenders up to May 15th for purchase of \$35,000 5 per cent. 30 year Graton Catholi: Seperate School District debentures.—J. A. McLachlan, Secretary - Treasurer Regina Public School District, wants tenders up to May 17th for purchase of \$30,000 4½ per cent. 20 year and \$75,000 4½ per cent. 20 year and \$75,000 4½ per cent. 20 year debentures.—J. Keiso Hunter, City Clerk, will receive tenders up to May 14th for construction of two compensating basins and laying of cast iron and sewer pipe, pig lead, valves, hydrants, etc. Plans and specifications at City Engineer's office.

WINNIPEG, MAN.—Eade Bros., architects, want tenders up to May 4th for erection of frame house on stone foundation.—The following building permits have been issued: Bill Telephone Co., storage warehouse. Henry street, cost \$36,000; W. A. Clark, residence, Arlington street, cost \$4,000: Dunn & Wallace, two dwellings, Maryland street, cost \$10,000; F. Baxter, dwelling, Spadina, cost \$4,000; Sutherland & King, residence, Arlington, cost \$4,500; W. Grassie, residence, Harbord, cost \$13,000; W. R. Allan, residence, Roslyn road, cost \$22,000; W. Jordan, business block, Fort street, cost \$30,000; A. Stewart, residence, Harbord, cost \$13,000; J. G. Walker, residence, Gertrude, cost \$4,000.—The Provincial Architect will shortly call for tenders for erection of five storey brick and stone addition 140 x 83 feet to the Agricultural College.—Pratt & Ross, architects, have prepared plans for the rebuilding of Deer Lodge.—A. H. Pulford intends erecting a block of buildings.—The City Council are considering the purchase and equipment of new play grounds, cost \$200,000.
—H. Ma'thews, architect, will this week take tenders for erection of a cigar box factory.

OTTAWA, ONT.— L. K. Jones, Secretary Department of Railways and Canals, wants tenders up to May 15th for building of a concrete dam and highway bridge at Buckhorn, Ont. Plans with Chief Engineer Department of Railways and Canals and Superintending Engineer, Trent Canal, Peterboro.—The Breadner Manufacturing Co. have purchased property on which to erect a three storey brick factory 85 x 25 feet.—The Ottawa Stair Works have acquired property on Somerset street on which to erect a factory.—F. Gelinas, Department of Public Works, will receive tenders as follows: Up to May 6th for dredging at following places in Province of Nova Scotia—Lunenburg, Mahone Bay, Arisaig, Port Dufferin, Petpeswick, Sheet Harbor; up to May 6th for dredging at

following places in the Province of Quebec: Blanche Shoals, Chateauguay river, Dorton, Hudson, St. Francis river, Vaudreuit, Yamaska, St. Andrews (north river), River Jesus, River L'Assomption, Hay Island (opposite Berthier), River Nicolet River Becancourt, St. Plicide, Raquet river, Point Cavagnale, River Batissan, River de Loup, en haut, River Miskinonge, River St. Maurice, Yamaska, Godfroi river, St. Pierre les Becquets, River Ouelle, Rimouski Per, River Saguenay, and Bay St. Paul, Cap au Corbeau. Specifica ions at the office of the Secretary.

of the Secretary.

MONTREAL, QUE. - The St. Lawrence Sugar Refining Co. have purchased a large block of lind in Maisonneauve. adjoining their present premises, with a view to extending same.—The following building permits have been i sued: J. A. Girard, two houses, Mount Royal Girard, two houses, Mount Royal avenue, cost \$13,000; Estate Emery Levigne, two houses, St. Denis street, Cost \$16,000; E. Lebrecque, one house,
East St. Catherine and Allwin streets,
cost \$8,500; Dr. J. B. Porter, house,
McTavish street, cost \$13,000; A. Dore, house, Drolet street, cost \$3,000; A. Dore, house, Drolet street, cost \$3,000; N. Lanctot, St. Remi, Que, two houses, St. Antonine avenue, cost \$9,000; O. Martineau, five houses, Labelle street, cost \$6,000; Rev. Sisters of the congregation of Notre Dame, school gregation of Notre Dame, school building, St. Alexander street, cost \$23,600. — Tenders have been invited for erection of five storey bil k building on Delouinier avenue for the Standard Shirt Co., Ltd. D. B. Brown, architect.

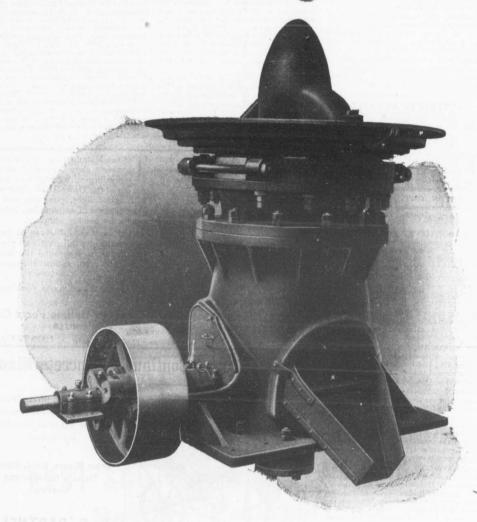
— Also for erection of a large building for the Credit Foncier Franco-Canadien on St. James street. Cox & Amos, archithe Credit Foncier Franco-Canadien on St. James street. Cox & Amos, architects.—Ross & Macfarlane, architects, have prepared plans for the new school building to be erected on Westmount avenue. The building will be 165 x 65 feet, two storeys and basement, constructed of pressed brick with stone trimmings, and is es imated to cost \$125,000.—L. E. Gauthier has purchased property on Victoria square, having a frontage of 85 feet, on which it is underfrontage of 85 feet, on which it is un stood an eight storey warehouse will be erected.—The Ames-Helden Co. have purchased a large property on Inspector

street, and it is understood a large fact-ory is to be built thereon.

TORONTO, ONT.—It is stated that the Board of Governors of the Toronto University will erect a brick building 50 x 100 feet corner of Bloor street and Avenue road, to be used as a geological museum.—The Chairman Board of Control wants tenders up to May 7th for con-struction of following works: Asphalt pavement—Roncesvalles Avenue, Queen to Dundas streets; Yarmouth road, Miles place to Shaw street; Dale avenue, Mackenzie avenue to Castle Frank avenue. Asphalt block pavement—Sim-Vitrified block pavement—East Don Esplinade, Queen to a point 250 feet north of Mai da street. Sewers—Oaklands avenue, Chelsea avenue, Sinclair avenue, Triler avenue. Hazelwood avenue, Binscarth road, Glen road, Pel-ham place and Binscarth road, Sch ller avenue, Warren road, Russill Hill road. Also a large number of concrete walks. Specifications for all works at City Engineer's office.—It is understood that the property corner of Sackville and Winchester streets has been purchased as a site for a new Roman Catholic church.—Chairman Board of Control wants tenders up to May 7th for follow-ing work: Plumbing work at Wilton avenue police station and at two fire halls on Dundas street, also electric wiring at St. Lawrence market. Specification offices of the Property Department. Specifications at R. Babington, architect, is preparing plans for a residence to be erected on Markham street for Mr. Langley, cost

\$4,000.—J. H. Galloway, architect, is preparing plans for a residence for Dr. J. L. Palmer, cost \$8,500, and has com-pleted plans for alterations to R. W. Eaton's residence on Walmer road.—The Eaton's residence on Walmer road.—1 ne United Z onist societies have decided to erect a Luilding to cost about \$25,000.—
The Property Committee of the Board of Education are in favor of purchasing property on Dufferin street, just south of Bloor, as a site for a new eight-roomed school building.—The building which the Methodist Church Order of Deaconesses purpose recting on corner of Church and Shuter streets will be a white brick and will consist of three storeys and basement. — The Women's Christian Temperance Union have had plans prepared for erection of new building on Elm street. —Bond & Smith and A. H., Cassels have the following work on hand: Additions to the Union Bank, about \$20,-Additions to the Union Bank, about \$20,000; new Union Bank branch at Cookstown, \$5,000; branch of Sovereign Bank, four storeys high on St. Paul and James streets, St. Catherines, \$50,000; new thee storey hotel at Niagara Falls, \$30,000; branch for Sterling Bunk at Goderich, \$30,000, and four storey apartment house on Spadina avenne, near Knox College, cost about \$40,000.—It is probable that the Canadiun Pacific Railroad wll take over the charter of the Owen will take over the charter of the Owen Sound & Meaford Railway Co., who had planned to construct their road from Owen Sound to Meaford this season.—P. H. Finney, architect, will shortly call for tenders for erection of six storey brick factory corner of Adelaide and Peter streets.—The congregation of the first Chician Science church have decided to purchase site for a new church building.—The following british processing the streets.—The following british processing the streets. to purchase site for a new church build-ing.—The f.llowing building permits have been issued: J. A. Orum, 2-storey brick dwelling, 509 Broadview avenue, cot \$4,000; N. Brady, 2-storey and attic blick dwelling, Galley avenue, cost \$3,000; W. B. Charlton, 2½-storey blick dwelling, Close avenue, cost \$6,000; Minnie F. Flanders, 2½-storey blick dwelling, Hayelock street, cost \$5,000. nie F. Flanders, 2½-storey blick dwelling, Havelock street, cost \$3,000; C. E. Philps, 2-storey and attic brick store and dwelling, Sorauren avenue, cost \$3,500; J. Alexander, 2 storey and attic brick dwelling, 17 Roxborough street, cost \$3,000; T. Allen, 2-storey brick dwelling, corner Forest Hil road and Heath street, cost \$7,000; W. C. Brodie, 2-storey blick store and dwelling, corner Forest bril road and Logan streets, cost Brodie, 2-storey brick store and dwelling, corner Victor and Logan streets, cost \$3,000; E. Hyland, alterations to hotel, corner Queen and Jarvis streets, cost \$5,000; D. McCall Co., 5-storey brick warehouse, Well ngton street west, cost \$70,000; James & McCormick, pair semi-detached 2-storey brick veneer dwellings, St. Clarens avenue, cost \$2,500; W. H. Mitchell, 2 detached 2-storey and attic brick dwellings, 637-630 Bathurst street, cost \$6,000; R. Jose, 2-storey detached brick dwelling, Empress crescent, cost \$4,000; G. L. Thompson, pair semi-detached 2-storey and attic brick dwellings, earlier was crescent, cost \$4,000; G. L. Thompson, pair semi-detached 2-storey and attic brick dwellings, 444-446 Markham street, pair semi-detached 2-storey and attic brick dwellings, 444-446 Markham street, cost \$7,000; C. Jol ffe, 2½-storey brick dwelling, corner Hepbourne and Have-lock streets, cost \$5,000; J. F. Halsey, 2-storey brick dwelling, Franklin avenue, cost \$3,500; D. C. Smith, 2 pair semi-detached 2½-storey brick dwellings, Cottingham street, cost \$12,000; T. P. Stewart, 2½ - storey brick dwelling, Warren road, cost \$4,000; S. J. Thompson, 2½-storey bick dwelling, Hewitt avenue, cost \$3,000; Henry Stokes, pair semi-detached 2-storey bick veneer dwellings, Edwin avenue, cost \$2,500; Ansman & Marshall, pair semi-detached 2½-storey bick dwellings, Brunswick avenue, cost \$5,600; P. Rosenbes, pair semi-detached 23/2-storey brick dwell-ings, William street, cost \$6,000; D. McLean, 2-storey and attic brick dwelling, Victor avenue, cost \$3,000; Lepper Sisters, 3 attached 2-storey brick veneer-

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ed dwellings, cost \$6,280; Grace Church, 1-storey brick addition to church, corner Aithur street and Gore Vale avenue, cost \$5,000; A. Hutchinson, 2-storey brick dwelling, Indian Grove, cost \$4,500; A. J Peppiatt, pair semi-detached 2-storey and attic brick dwellings 167-169 McDonell avenue, cost \$6,000; G. Burnside, pair 2-storey and attic brick dwellings, Gladstone avenue, cost \$6,000; M. Jaques, 2-storey and attic brick and stone dwelling, 35 Lansdowne avenue, cost \$3,000; T. W. H. Coles, 22-storey and attic brick dwelling, Oakland avenue, cost \$4,000; S. J. Graydon, 2-storey and attic brick dwelling, St. George street, cost \$5,000.

#### CONTRACTS AWARDED.

KENORA, ONT.—Erection of threestorey apartment house for C. Pope: F. Gilbert, Keewatin, contractor.

TIFFEN, ONT. — Erection of large elevator for Grand Trunk Pacific Railway: J. S. Metcalfe, contractor.

DELORAINE, MAN. — Erection of \$10,000 building for Dominion Bank: Brandon Construction Co., contractors.

PRESTON, ONT. — Construction of granolithic sidewalks for town: Royal Art Stone Paving Co., Guelph, contractors.

GEORGETOWN, ONT. — Construction of granolithic sidewalks for town: Royal Art Stone Faving Co., Guelph, contractors.

FORT WILLIAM, ONT.—Erection of building to cost \$70,000 for the Kakabeka Falls Brewing Co.: Masonry, M. H. Braden, contractor.

MONCTON, N. B.—Furnishing skylights for the new shop of the Intercolonial Railway: Metal Shingle & Siding Co., Limited, Preston, Ont., and Montreal, Que., successful tenderers.

BRANTFORD, ONT. — Supply of combination fire waggon: Canadian Fire Engine Co., London, at \$1,450; furnishing hook and ladder, W. E. Seagrave, Walkerville, Ont., at \$3,500.

Walkerville, Ont., at \$3,500.

OWEN SOUND, ONT.—Furnishing supplies for the city electric power plant awarded as follows: Three single phase 50 k. w. transformers, Canadian General Electric Co., Toronto, at \$1,225 f. o. b. Toronto; 5,003 lbs. copper wire and 1,000 glass insulators, C. W. Bongard & Co., Toronto, at 27½ cents per pound and \$37,50 respectively.

\$37.50 respectively.

SIMCOE, ONT.—The Town Waterworks Committee have awarded contracts
as follows: Construction of water tower;
The Hunter Bridge Co., Kincardine,
Ont., at \$7,400; foundation for same, the
same firm at \$1,250; supply of pipe, J.
Coates & Co., Ottawa, at \$36 per ton;
supply of valves, hydrants, etc., Kerr
Engine Co., Walkerville.

HAMUTON ONT. Empishingsteam

Engine Co., Walkerville,
HAMILTON, ONT.—Furnishing steam
fire engine for the city: Waterous Engine
Works, successful tenderers at \$5,500.—
The City Council have awarded contract
for new pump for sewerage system to
Canadian Westinghouse Co., at \$3,614
and for supply of twisted steel to Buffalo
Steel Co., Tonawanda, N. Y., at \$2.35½
per hundred pounds.
VICTORIA. B. C.—The Civic Bridges.

per hundred pounds.

VICTORIA, B. C.—The Civic Bridges and Sewers Committee have recommended the following tenders be accepted: One No. 5 D Gyratory rock crusher with motor, Hinton & Co., at \$4,378; one Austin road grading machine, Mussens Limited, at \$320; one Smith concrete mixer and engine complete, Mussens Limited, at \$1,200.—Supply of centrifugal pump for the city: R. P. Rithet & Co., successful tenderers at \$6,301.22.

WINNIPEG, MAN.—Erection of two

successful tenderers at \$6,301.22. \*\*\*
WINNIPEG, MAN.—Erection of two additional storeys on J. W. Peck & Co.'s warehouse: Carter, Halls & Oldingder, contractors; J. D. Atchison, architect.—The Board of Works have recommended that the tender of J. L. Neilson & Co. for supply of Sturtevant 4 x 12 roll jaw crusher be accepted at \$850 f.o.b. this city.—The

Board of Control have recommended that the following contracts be awarded: Supply of cast iron goods, Western Iron Works, at \$2,567; supply of brass work, R. Mitchell Co., Montreal, at \$4,988.75,—J. H. G, Russell, architect, has awarded contracts for rebuilding of Bright & Johnson's warehouse as follows: Carpenter work, W. R. Ritchie; brick and masonry, S. Brynjolfsson & Co.; plumbing and heating, C. C. Young & Co.—J. McDiarmid, this city, has been awarded cogstracts by the Canadian Pacific Railway for erection of roundhouses at Cranbrook, Coleridge, Strathcona and Swift Current.

Current.

TORONTO, ONT.—J. H. Galloway, architect, has awarded contracts as follows: Erection of residence for J. M. Prentiss, to cost \$\$\frac{1}{2}\$, ooo: masonry, Ellis & Kilbourne; plastering, T. Fitzgerald; painting, J. R. Bell; plumbing and heating, J. Elliott; roofing, J. Van Sickler.—Erection of residence for T. W. Miller, to

cost \$6,000: Masonry, Ellis & Kilbourne; carpenter work, Booth & Co.; roofing, J. Van Sickler.—The Imperial Plaster Co., this city, are furnishing the hard wall plaster for the Alexandra Theatre, King street west, the Continental Life Building, Bay and Richmond streets, and the new branch of the Traders' Bank, Yonge and Bloor streets.—J. E. Webb, contractor, this city, has been awarded contracts for the following works: Alterations to Dominion Bank, Peterborough; erection of cut stone bank building, for Bank of Toronto, St. Catharines; alterations and additions to Dominion Bank, St. Thomas; alterations to Dominion Bank, St. Thomas; alterations to Dominion Bank, St. Thomas; alterations to Dominion Bank, St. Thomas; alteration of 16½ miles of the St. Mary's and Western Ontario Railroad.—Erection of residence for J. L. Hughes: Brickwork, R. Chaulkey & Son; carpenter work, J. McKenzie. H. Simpson, architect.



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Local labor conditions are looking somewhat more assuring this week than last and it is hardly likely that May Day will see any serious developments. The builders' laborers are still unsettled and it is said that they will defer taking any definite action until July, by which time they expect the surplus of unskilled labor will have disappeared and the employers therefore more dependant on their services. The plumbers and steam-fitters are anxiously awaiting May 14th, which is the date set for the beginning of their increases. The failure to receive the increase may lead to serious complications. Local trade in plumbing supplies is very brisk, although a scarcity still exists in the smaller sizes of iron pipe.

#### NEW COMPANIES.

Whiting Hardware Company, Winnipeg, Man., incorporated, capital \$25,000. Incorporators, C. A. B. Whiting, J. Briggs, A. G. Griffin and others, all of Winnipeg.

Manitoba Linseed Oil Mills, Limited, Winnipeg, Man., incorporated, capital \$200,000. Incorporators, K. B. Stoddart, K. Carr, R.

W. Paterson, J. C. Hicks, and J. A. Machray, all of Winnipeg.

Royal Manufacturing Company, Limited, Winnipeg, Man., incorporated to manufacture steam boilers, meters, electrical appliances, etc., capital \$100,000. Incorporators, H. T. Helgeson, of Regina, C. S. Whiteworth, of Cedar Falls, Iowa, J. R. Norris, and Nellie Houston, of Winnipeg.

Canadian Consolidated Flour Mills, Limited, Winnipeg, Man., incorporated, capital \$1,000,000. Incorporators, J. Innes, of Hartney, J. Schwalm, of Glenboro, P.

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used in Canada as it is all over the inasmuch as it will do more wo

Broadfoot, of Gladstone and others.

Perfection Concrete Company, Limited, Winnipeg, Man. incorporated, to manufacture cement blocks and bricks and to deal in contractors' supplies, capital \$100,ooo. Incorporators, J. Robinson, H. F. Osler, H. B. Rugh, C. V. Alloway, and J. H. Turnbull, all of Winnipeg.

Structural Steel Company, Limited, Montreal, incorporated, to carry on business as bridge builders and dealers in structural steel and



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Atlas Table Company, Limited, Preston, Ont., incorporated, capital \$40,000. Directors, H. J. Hindson, W. F. Mickus, J. C. Hogg, and others.

Brockville Malleable Iron Company, Limited, Brockville, Ont., incorporated, capital \$60,000. Directors, J. Connolly, G. I. Mallory, J. A. MacKenzie, and others.

Caldwell Bit & Tool Company, Limited, Toronto, Ont., incorporated, capital \$50,000. Directors, C. A. Seguin, W.F. McRae, J.C. Mitchell, and others.

International Veneer & Lumber Company, Limited, Renfrew, Ont., incorporated, capital \$100,000. Directors, T. E. Porter, W. H. Burgin, and D. A. MacArthur.

Berlin District Steam Company, Limited, Berlin, Ont., incorporated, capital \$100,000. Directors, A. Bricker, J.D. Moore, W.F. Wilson, H. J. Sims, and others.

Monarch Knitting Company, Limited, Dunnville, Ont., incorporated, capital \$250,000. Directors, E. R. Lalor, G. H. Orme, and J.A. Burns.

The Saskatchewan Government have issued charters to the following companies: J. R. Chisholm Lumber & Hardware Company, Limited; Regina Windmill & Pump Company, Limited; Saskatchewan Granite & Marble Company, Limited; and the Bitulithic & Contracting Company, Limited.

#### PERSONAL.

City Engineer McCulloch, of Nelson, B. C., has resigned his position.

Mr. William Husband, for 46 years Municipal Clerk of Preston, Ont., died on April 17th.

Architect Kenwrick, of Winnipeg, who has been in England for a short trip, has returned.

a short trip, has returned.

Mr. F. C. Bodwell, C. E., well
known in Alberta and on the
Pacific coast died at Victoria on
April 15th.

Mr. J. L. Thomas, C.E., the well know architect and civil engineer of London, Ont., has decided to open a branch office at St. Thomas, Ont.

J. D. Atchison, architect, Winnipeg, will shortly remove his offices from the Northern Bank building to the new Bank of Toronto building on Main street.

It is reperted that Mr. F. N. Ruttan, City Engineer of Winnipeg, will shortly hand in his resignation to the City Council. Mr. Ruttan is said to be considering the acceptance of a position in Vancouver.

An old and respected resident of Watford, Ont., died on April 13th in the person of Mr. T. J. Howden. Deceased was a prominent contractor in the district where he lived and for several terms held the position of reeve of Watford.

J. J. Miller, contractor, Lindsay, Ont., is said to have assigned to L. R. Knight.

Bond & Smith, and A.H. Cassels, architects, Toronto, have removed from 160 Bay street to the Union Bank Building, Wellington street west.

The Nova Scotia Government have taken steps whereby all bridges and roads in the province will hereafter be under direct supervision of the Provincial Govern-ment. A new department is to be created to be known as the Road and Bridge Department, at the head of which will be a competent engineer who will be held responsible for all expenditures on roads and bridges. Each county will have one or more inspectors, who will in turn be responsible to the Road and Bridge Department for all roads and bridges in the county. It is thought this new policy will be a decided improvement over the present system.

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#### NOTES.

A. Marios & Cie, contractors, Quebec, Que., have been registered.

Pressure of business has necessitated the enlargment of the offices occupied by Mr. J. Hartley Galloway, architect, at 77 Victoria street, Toronto.

It is understood that a new engineering firm has been formed in Toronto in which Mr. C. B. Smith, Mr. W. G. Chase and Prof. J. G. Kerry, of McGill University, are the partners.

The Plumbers Union at Brandon, Man., have made application to the City Council to increase the license fee from \$2.50 to \$100. The Union men claim that some of the plumbers' work is defective and are of the opinion that the increased fee would tend to discourage other than first-class workmen and thus raise the standard of the work.

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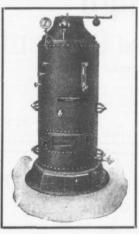
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Considerable diversity of opinion has existed, and exists at the present time, on the meaning of the word "artesian" and the principle of the "artesian well." The United " artesian States Geological Survey are authority for the following definitions, which they believe to be the most expedient at the present time :

Artesian Principle. - The artesian principle, which may be considered as identical with what is often known as the hydrostatic principle, is defined as the principle in virtue of which water confined in the materials of the earth's crust tends to rise to the level of the water surface at the highest point from which pressure is transmitted. Gas as an agent in causing the water to rise is expressly excluded from the definition.

Artesian Pressure. - Artesian pressure is defined as the pressure exhibited by water confined in the earth's crust at a level lower than its static head.

Artesian Water.—Artesian water is defined as that portion of the underground water which is under artesian pressure and will rise if encountered by a well or other passage affording an outlet.

Artesian System.-An artesian system is any combination of geologic structures such as basins, planes, joints, faults, etc., in which waters are confined under artesian pressure.

Artesian Basin. - An artesian basin is defined as a basin of porous bedded rock in which, as a result of the synclinal structure, the water is confined under artesian pressure.

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Continued on Page 1



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Artesian Area-An artesian area is an area underlain by water under

a artesian pressure.

Artesian Well.—An artesian well is any well in which the water rises under artesian pressure when encountered.

#### PUBLICATIONS.

The Ideal Concrete Machinery Company, Limited, London, Ont., have recently issued a very attrac-tive catalogue descriptive of the Ideal Concrete Block Machine. It explains in detail the numerous models manufactured, cost, results of various tests, and other information of undoubted value to intend-ing purchasers; is illustrated throughout and accompanied by a book of testimonials from owners of Ideal machines in different parts of America. Copies of these publications will be mailed to all interested parties on application.

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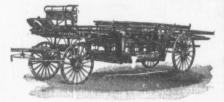
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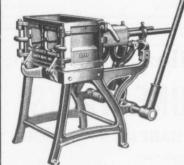
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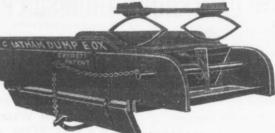
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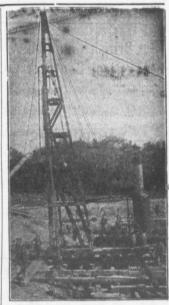
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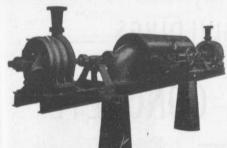
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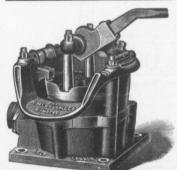
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shorts	28.00	30.00
I x 4, 6 and 8 Common	24.00	26,00
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Hemlock, 1 x 4 to 8 inch	19.00	20,00
2 X 4 to 8 inch, 12 to 16 feet	21.00	22.00
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1% inch No. 14 ft. Pine Lath	5.25	5-75
11/4 inch No. 2 4 ft. Lath	4.50	4.75
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Lath		4.25
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Birch, M. R. 1 inch	21.00	22,00
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Basswood, 11/2 to 2 inch	26.00	28.00
Elm, soft, mill run, I to 1% in	22.00	23.00
Elm, rock, mill run, I to 11/2 in	24.00	25.00
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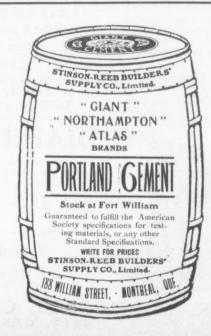
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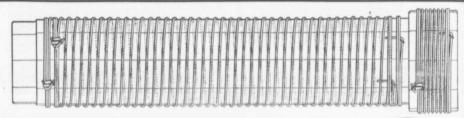


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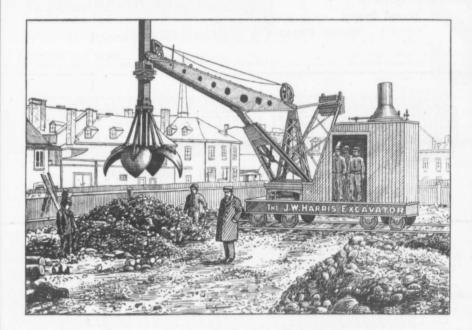
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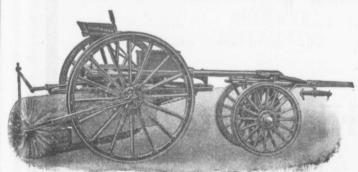
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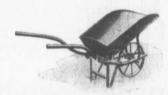
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