

CANADIAN Contract Record

*A Weekly Journal of 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, Purchasers of Municipal Debentures and Leading Contractors in All Lines Throughout Canada

VOL. 16.

TORONTO, MONTREAL, WINNIPEG, APRIL 19, 1905

No. 9

THE CANADIAN CONTRACT RECORD

PUBLISHED EVERY 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.

CONFEDERATION LIFE BUILDING, TORONTO.
Telephone Main 2362.

Branch Offices:

38 Alliance Building, Montreal,
Telephone Main 2399.

750-721 Union Bank Building, Winnipeg.
22 Great St. Helen's, London, England.

Subscribers who may change their address should give prompt notice of same. In doing so give both old and new address. Notify the publishers of any irregularity in delivery of papers.

OLD DOORS WANTED

I am open to buy a few walnut doors from old buildings being torn down. Please state sizes, prices, or telephone M. 2701. JAS. ROBERTSON, 10 Front St. E., Toronto.

TOWN OF GALT

TO CONTRACTORS

Tenders will be received by the undersigned up to 5 p. m., MONDAY, MAY 1st, for the construction of about seven miles of Sewers and four miles of Storm Drains. Plans and specifications may be seen and forms of tender obtained at the office of the Engineer, Wm. Mahlon Davis, Berlin, or the Town Clerk, Town Hall, Galt, after SATURDAY, 15th INST. The lowest tender not necessarily accepted.

J. McCARTNEY, Town Clerk.

City of Brandon

WATER WORKS

Sealed tenders, addressed to Mr. Geo. R. Coldwell, Chairman of the Water Works Committee, for the laying of the following approximate quantities of C. I. water pipe, will be received by Mr. J. B. Whitehead, City Clerk, until 12 o'clock, noon, on MONDAY, MAY, 1st, 1905:

APPROXIMATE QUANTITIES.

1,500	lineal ft. of 12 in. C. I. pipe.
2,000	" " " 10 in. " "
1,500	" " " 8 in. " "
16,000	" " " 6 in. " "

Including all hydrants, valves, and specials required for the extensions.

All of the material will be furnished by the City of Brandon.

An accepted cheque on a chartered Bank of Canada, or a cash deposit equal to 5% of the total amount of the tender, must accompany each tender.

The Council does not bind itself to accept the lowest or any tender.

Plans, specifications, form of tender, etc., may be seen or obtained at my office, City Hall, Brandon, Man.

W. H. SHILLINGLAW, City Engineer.
Brandon, Manitoba, Canada, April 5th, 1905.

TENDERS

will be received up to MONDAY, MAY 1st, next, by the undersigned, for building of 1500 square yards, more or less, of Concrete Walks in the Village of New Hamburg. Specifications on application to

WM. MILLAR, Clerk.
New Hamburg, April 13, 1905.

TENDERS

For building Two Cement Abutments for Steel Superstructure, about 300 c. yds., will be received up to MAY 1st, by the undersigned Commissioners of Oxford and Waterloo, at whose places plans and specifications may be seen. Commissioners will meet at Franck's Hotel on Monday, 1st of May, to award contract.

F. VICKERT, FRED WALTERS,
Princeton, Bamberg.

TENDERS

Will be received by the undersigned at Cobourg up to noon of the 27th INST., for the Masonry, Cut Stone and Brick Work, and the Carpenter and Joiner's Works required in the erection of a Residence at Cobourg for Geo. T. Oliver, Esq.

Plans and specifications may be seen at Cobourg and Kingston. Lowest or any tender not necessarily accepted.

POWHR & SON, Architects,
M. Bk. Chambers, Kingston.

TENDERS

will be received by the undersigned up till noon, the 25th INSTANT, for all the various trades required in the erection of a Bank Building for the Imperial Bank of Canada at Niagara Falls, Ont. Plans and specifications may be seen and all other information obtained at the office of the Bank, Niagara Falls, or at the office of

DARLING & PEARSON, Architects,
2 Leader Lane, Toronto.

The lowest or any tender not necessarily accepted.

To Contractors

Sealed tenders, addressed to the undersigned, will be received until noon on FRIDAY, THE 28th INST., for building Concrete Abutments for the St. George Street Bridge, in the City of St. Thomas, Ont. Plans and specifications can be seen at the office of the undersigned.

JAS. A. BELL,
City Engineer.

Tenders Wanted

Sealed tenders addressed to the Chairman of the Public Works Committee, for the construction of about 40,000 superficial feet of concrete walk, 2,500 superficial feet of crossings, 4,000 lineal feet of concrete curbing, will be received at the office of the undersigned up to 4 p. m. on SATURDAY, APRIL 22nd, 1905.

Plans, specifications, form of application and instructions to bidders may be had on application to the office of Richard Smith, Town Engineer. Each tender must be accompanied by an accepted marked check or cash deposit for not less than 2% of the estimated cost, which will be subject to forfeiture in the case of failure on the part of the contractor to enter into a written contract if called upon to do so.

The Town or Committee reserves the right to reject any or all tenders or to accept any bid that appears advantageous to the Town of Midland.

THOS. I. TRUEMAN, Town Clerk.
Midland, March 29th, 1905.

FOREMAN WANTED

Advertiser in Eastern Canada wishes to get a good steady man to act as foreman in Sash, Door, and General Wood-Working Factory, must be well recommended. State experience and salary expected. Address "J. M.," care of CONTRACT RECORD, Toronto, Ont.

Debentures for Sale

Tenders will be received at the Clerk's Office, Seaforth, up till noon, MAY 8th NEXT, for \$4,000 Four Per Cent. Debentures payable at the expiration of 10 years from January 15th, 1905. Interest payable annually.

No tender necessarily accepted.

WM. ELLIOTT, Town Treasurer.
Seaforth, April 14th, 1905.

TENDERS

For supply of from 400 to 600
Barrels of

PORTLAND CEMENT

Sealed tenders, addressed to Mayor G. M. Farrington, for the supply of from 400 to 600 barrels of cement, will be received up to 6 o'clock, p. m., on MONDAY, MAY 1st, 1905. Cement to be used for sidewalk construction. Price to be quoted f. o. b. Picton, car or boat.

The lowest or any tender not necessarily accepted.

R. A. NORMAN, Town Clerk,
Town Clerk's Office, Picton, April 10, 1905.

Town of Berlin

TO CONTRACTORS

Tenders will be received by the undersigned up to 5 p. m., TUESDAY, 25th APRIL, for the grading of about 14 acres of Sewage Filter Beds, the Laying of Force Main, Sewage Carriers and Effluent Chains, and the Construction of Distributing Chambers, Valve Chambers, Etc.

Plans and specifications may be seen at the office of the Engineers, Davis & Johnston, Reonomical Block, Berlin, on and after the 10th inst. The lowest tender not necessarily accepted.

J. F. HONSBARGER, M.D.
Chairman Bd. of Sewerage Commissioners.

TENDERS FOR BLOCK PAVEMENT

Tenders wanted for the supply of material and construction of a 12 ft. wide Cedar or Tamarac Wood Pavement, about two miles in length, extending from Notre Dame Avenue to Portage Avenue, through the track property of

THE GREAT WEST DEVELOPMENT COMPANY

in 54 St. James, Winnipeg's future industrial centre.

Plans and specifications at their office, 203 McIntyre Block, Winnipeg.

The lowest or any tender not necessarily accepted.

[FOR ADDITIONAL ADVERTISEMENTS FOR TENDERS SEE NEXT PAGE.]

DEBENTURES FOR SALE

Tenders will be received by the undersigned until FRIDAY, 28th INST., for the following 4½% Local Improvement Debentures of the Town of Waterloo—\$5,549.00 payable in 20 annual instalments; \$2,937.79 payable in 20 annual instalments, also for the following Bonus Debentures, 4½% \$15,000, payable in 15 annual instalments.

A. B. McBRIDE,
Town Clerk.

TENDERS FOR BRIDGE

Sealed tenders, addressed to the Reeve, Arran Township, will be received up to 6 p. m. MONDAY, MAY 1ST, for the constructions following:

(1) Two concrete abutments containing some 200 c. yds.

(2) One Steel Bridge 100 feet span C-C, 16 foot roadway, L. load 80 lbs. per sq. ft. and moving load of 6 tons on 6 ft. axles.

(3) Bridge as above with cedar floor and steel joints.

(4) Bridge as above with steel joists floor to be furnished by Corporation.

Site, Black's Bridge, near Allenford. An accepted bank cheque, payable to Treasurer Township of Arran, for the amount of 5 per cent., must accompany each tender, the same to be forfeited if the tenderer decline the contract or fail in the performance thereof, and to be returned in case of non-acceptance.

Plans and specifications may be seen at the Reeve's or Engineer's offices.

The lowest or any tender not necessarily accepted.

R. McDOWALL, C. E.,
Engineer, Owen Sound, Ont.

R. NICOLSON, Esq.,
Reeve, Tara.

TOWN OF PORT ARTHUR
TENDERS

Sealed tenders, addressed to the Chairman of the Electric Railway and Light Commissioners, will be received at the office of the undersigned up to 12 o'clock, noon, of FRIDAY, MAY 5TH, 1905, for the purchase of the following Electrical Machinery:

One (1) 150 H. P. Wheelock Compound Condensing Engine.

One (1) 80 H. P. Boiler, Shafting, Pulleys and Belting.

One (1) 500 Volt 45 K. W. Railway Generator.

One (1) 60 K. W. 5000 Volt 125 Cycle Alternator. With all necessary switch-board and attachments.

All of which can be inspected at the power house at Current River, Port Arthur.

Tenders will be received in whole or in part. Tenders to be marked "Tenders for Electrical Machinery."

The lowest or any tender not necessarily accepted.

J. McTRIGUE,
Secretary Electric Railway and Light Commissioners.

Corporation Offices, Port Arthur, Ont.,
March 28, 1905.

CONTRACTS OPEN.

MOOSOMIN, N.W.T.—H. W. White purposes erecting a large office building.

SIDNEY, MAN.—E. R. Marshall has taken tenders on addition to school house.

GLACE BAY, N.S.—The Dominion Coal Company intend erecting about 100 houses.

PORTAGE LA PRAIRIE, MAN.—Plans have been prepared for annex to the hospital.

YORKTON, N.W.T.—The installation of an electric light plant is under consideration.

HAMIOTA, MAN.—L. B. Latimer desires tenders by 24th inst. for building a Presbyterian church.

HARROW, ONT.—Bishop McEvoy has decided to have a new R. C. church erected in this village.

MOOSE JAW, N.W.T.—Work will be commenced at once on the new brick block for T. W. Robinson Co.

KAMLOOPS, B.C.—It is proposed to submit a by-law to the ratepayers to raise \$3,500 to build a fire hall.

SOMERSET, MAN.—George Burns intends building a brick residence.—T. Rondeau also intends building.

FORT FRANCES, ONT.—Mrs. James Paul has had plans prepared for enlarging the Fort Francis hotel.

CHESLEY, ONT.—Krug Bros. & Co. propose to build a new brick furniture factory if given a loan by the town.

TREHERNE, MAN.—A by-law to loan \$5,000 to C. Weichman to erect a flour mill here was carried recently.

ACTON, ONT.—T. T. Moore, Town Clerk, desires bids by May 1st for purchase of \$6,000 20 year debentures.

BELLEVILLE, ONT.—It is reported that a second cement plant is to be built at Point Ann by an American concern.

GLACE BAY, N.S.—The Town Clerk has been instructed to call for tenders for proposed electric light building, to cost \$10,000.

BRANDON, MAN.—The School Board have decided to take immediate steps towards the erection of a Collegiate Institute building.

COLLINGWOOD, ONT.—The Collingwood Elevator Co. have completed arrangements for the construction of their elevator here.

CLINTON, ONT.—H. C. McBride, architect, of London, has been instructed to prepare plans for extensive alterations to public school here.

AYLMER, QUE.—The question of securing a sewerage system for the town will likely be considered at the Council meeting on May 1st.

ROSTHERN, N.W.T.—McFarlin Bros., of Brandon, have purchased the Queen's Hotel here and will make extensive improvements.

QUEBEC, QUE.—Stavelly & Stavelly, architects, have prepared plans for a new Sunday School building for St. Andrew's church, to cost about \$6,000.

BURNS, ONT.—John Davidson, Reeve, desires bids by May 1st for construction of the Patterson and Hunter drains in Township of Mornington.

MORRIS, MAN.—Tenders are invited by D. M. Ure up to Friday, 28th inst., for construction of a Queen truss bridge over the Morris river at Rosenton.

WALKERVILLE, ONT.—W. F. Brown asks tenders by 28th inst. for construction of the railway of the Windsor and Tecumseh Electric Railway Co.

SYDNEY, N.S.—The Dominion Iron & Steel Co. intend equipping a third blast furnace.—A. G. McLean wants bids by May 1st for erection of Falmouth street church.

PORT HOPE, ONT.—The building committee of the Presbyterian church have decided to proceed with the new building upon the plans of the Mitchell church.

PRINCE ALBERT, N.W.T.—It is understood that Willis Chipman, C. E., of Toronto, will be engaged to prepare plans for waterworks and sewerage systems here.

LAMBTON, ONT.—J. A. Macpherson, Township Clerk, is asking for tenders by May 1st for construction of cement sidewalks on Dundas street in this village.

NORTH BAY, ONT.—Mayor Purvis last week interviewed the Ontario Government regarding a grant of \$5,000 to assist in construction of sewerage and waterworks systems.

FERNIE, B.C.—T. H. Tracey, C.E., of Vancouver, may be engaged to report on a water supply for this place.—J. R. Pollock will build a two-storey residence on Riverside ave.

ST. CATHARINES, ONT.—W. B. Allan, architect, is this week taking tenders on blacksmith and erecting shops, paint shop and store house for J. M. Ross, Sons & Co.

EAST TORONTO, ONT.—A bridge is to be built over the G.T.R. tracks in connection with proposed extension of the Toronto and Scarboro Railway northwards to Little York.

SOURIS, MAN.—Residences will be built by George S. Pettypiece, E. R. McRory and C. Dickson.—Wm. Herriot is forming a syndicate to erect a large block on Crescent ave.

RAT PORTAGE, ONT.—The Council have decided to furnish power to the Maple Leaf Milling Co., who have agreed to commence the construction of their mills and elevator at once.

BARRIE, ONT.—Tenders invited by P. J. Frawley, Hillsdale, up to 22nd inst. for fire-proof vault and alterations in court house. Plans at office of Thomas Kennedy, architect, this place.

ARNPRIOR, ONT.—Elgin street ratepayers have petitioned the Town Council to construct a permanent roadway and granolithic sidewalk from Madawaska river to the corporation limits.

RENFREW, ONT.—The Town Council have decided to install a duplicate filtering plant.—A report favorable to electric power for the waterworks pumps has been presented to Council.

WROXETER, ONT.—William Wilson, Secretary School Board, will receive tenders up to 24th inst. for erection of brick or cement school building. Plans by Stewart, Witton & Taylor, architects, Brantford.

STRATFORD, ONT.—The County Council have appointed a committee to engage an engineer to prepare plans for new bridge over Thames river on boundary of Fullarton, Downie, and Blanshard Townships.

PERTH, ONT.—The ratepayers decided strongly in favor of the by-law to loan \$20,000 to Winn & Co., boot and shoe manufacturers, of Milton, Ont. They are to build a two-storey factory 150x50 feet.

HULL, QUE.—The City Council will probably extend the intake pipe about 500 feet, at a cost of \$8,000. Mayor Aubry favors the purchase of a water filter for the pumping station, which will also cost about \$8,000.

AMHERST, N.S.—A. S. Fillmore intends removing his carriage factory from Southampton to this town and operating it on a larger scale. It is proposed to erect a large building near the Intercolonial railway.

PERTH, ONT.—J. R. Mitchell, Chairman Sewer Committee, desires tenders by May 1st for supply of sewer pipe and junctions, sewer castings and Portland cement. Particulars from Harry Welch, town engineer.

EDMONTON, N.W.T.—The Water Commissioners have recommended that the pumping plant be duplicated and an addition built to the station, also that a water main be laid on Ninth street, at a cost of \$5,800.

MIMICO, ONT.—A company will make application to the Ontario Legislature to construct a pumping plant and lay mains for the purpose of supplying Mimico and New Toronto with water pumped from the lake.

NEEPAWA, MAN.—Work will be commenced this month on the new C.P.R. station.—Harry Paterson, manager of the Bell Telephone Co., has purchased a lot on Mountain ave. and will next year erect a substantial office building.

WINCHESTER, ONT.—James Drinkwater, Reeve, invites tenders up to May 15th for construction of Henderson creek drain in the village and township of Winchester; excavation, 385 yards of rock, 14,565 yards of other materials.

- 2 Steam Shovels, built by Vulcan Iron Works.
- 1 Beatty Steam Shovel with flat car to carry fittings.
- 2 Locomotives with Tenders, standard gauge, built by the Canadian Locomotive Co.
- 1 Standard Gauge Locomotive, 35 to 40 tons, cylinders 16 x 24, drivers 4 feet 10 inches.
- 1 Ten Ton Locomotive, 36 inch gauge.
- 22 Box Cars, 35 feet x 7 feet 10 inches x 6 feet 6 inches inside measurement, capacity 50,000 lbs.
- 50 Flat Cars, 36 feet long by 8 feet 9 inches wide.
- 2 Flat Cars, 36 inch gauge, platforms 8 feet by 4 feet 6 inches.
- 1 Tank Car, 30 feet over all.
- 30 K. & J. Two Way Dump Cars, capacity 2½ cubic yards, 36 inch gauge.
- 1 No. 5 Austin Gyrotory Crusher with gearing complete; includes elevator 42 feet long, 1 elevator for sand, storage bin, new head, 1 set concaves, 1 new bevel driving gear, and 1 standard revolving screen.
- 1 Marsh & Henthorn Continuous Concrete Mixer with engine on frame, capacity 250 cubic yards per day.
- 1 No. 5 Ransome Concrete Mixer, used about one year.
- 1 Hamilton Cube Concrete Mixer, capacity 125 cubic yards per day.
- 10 Stuebner Self-Dumping Buckets, capacity 1 cubic yard.
- 1 Stuebner Trolley Track Tipping Bucket, capacity 14 cubic feet.
- 1 1½ Yard Clam Shell Bucket, scissors pattern.
- 2 Self-Righting Concrete Buckets, capacity 1 cubic yard, has bails and self-locking attachments complete.
- 1 Vertical Engine, 75 H.P.
- 1 Shop Engine, 12-15 H.P.
- 1 "Rival" Engine, made by Laurie Engine Co., Cylinders 17x11.
- 1 Waterous Traction Engine 18 H.P.
- 2 25 H.P. Boilers, locomotive type on skids.
- 1 30 H. P. Boiler, locomotive type on skids.
- 1 20 H. P. Boiler, locomotive type, mounted on four wheeled truck.
- 1 Vertical Boiler, about 12 H.P.
- 1 "Imperial" special Air Hoist, 2 ton capacity.
- 1 "Dake" Hoist, 3 ton capacity.
- 1 50 H. P. Allis-Chalmers-Bullock Motor.
- 1 20 H.P. Motor.
- 1 Single purchase Winch.
- 1 Worthington Pump 6x4x6.
- 1 Beatty Rotary Pump, 10-inch suction, 9-inch discharge.
- 1 8-inch Rotary Pump, engine direct connected, side suction.
- 1 8-inch Rotary Pump with pulley, side suction.
- 1 8-inch Rotary Pump with pulley, side suction.
- 1 4-inch Rotary Pump with pulley, side suction.
- 2 1½ inch Rotary Pumps with pulleys, side action.
- 4 Derricks with swinging circles, booms 35 feet, masts 16 feet 5 inches.
- 1 Stiff leg Derrick, extra heavy, with bull wheel and swinger,
- 1 Sullivan "E" Diamond Drill.
- 1 "Mac" Rock Drill 3½x6 with tripod.
- 1 Millar patent Cableway, 1200 foot span with portable towers of timber mounted on car wheels, includes cableway engine and boiler, and complete lengths of wire rope, and patent aerial dump attachment.
- 1 Cableway 500 foot span, 85 foot towers, 1½ inch cable, complete with three drum Beatty Hoist and 1½ yard clam shell bucket.
- 1 No. 31 plate shear.
- 1 Pels lever punch, for 1 inch holes in 1 inch plate.
- 1 Drilling Machine, 26 inch feed complete with slotted table, speed cones, self-feeding attachment, almost new.
- 1 Shaper, 18 inch stroke, complete with iron counter-shaft.
- 1 Emery Wheel and Table.
- 1 Lathe 3 feet 6 inches by 17 inches.
- 1 Fan, 24 inch diameter, made by Boston Blower Co.
- 1 Cast Iron Forge with full hood and cast iron water box.
- 2 Blacksmith's Leg Vises, width of jaw 5 inches.
- 4 Blacksmith's Anvils.
- Large assortment of Blacksmith's Tools.
- About 3000 yards Page Wire Fencing, 4 feet 3 inches wide.
- 2 Well's Lights, large size.
- 1 Paint Sprayer.
- 6 Salamanders.
- 1 Ladder, 18 foot extension.
- 100 ft. of Rope Ladder.
- 1 Open Top Wood Tank, capacity 1500 gallons.
- 1 Tank Car, 30 feet over all.
- 1 Iron Tank, capacity 800 gallons, open top and bottom outlet.
- 4 Banner Stands, 1 three throw, 3 two throw, complete with connecting rods.
- 8 70 lb. Frogs.
- 2 10 ton Tangles Hydraulic Jacks.
- 2 20 ton Tangles Hydraulic Jacks.
- 3 15 ton Cone Bearing Norton Jacks.
- 2 6 ton Norton Journal Jacks.
- 2 24 inch Bottle Jacks.
- 6 large size Wheel Scrapers.
- 2 Rail Benders.
- Large assortment of Track Tools. Relaying Rails of almost every weight.
- 1 18 inch Circular Rip Saw with shafting and table.
- 1 18 inch Circular Cross Cut Saw for above.

SECOND HAND PLANT FOR SALE

cable, blocks and complete fittings, 50 foot boom.

Several sets of castings for one ton stiff leg Derrick.

4 Pile Drivers.

5 Pile Driver Hammers of different weights.

1 6x10 Double Cylinder, Double Drum Hoisting Engine, with boiler.

1 Motor driven Hoist with two plain drums, a good builder's hoist.

4 Bacon Type hoists, Jenckes make, single drum, double cylinders 8¼x10.

1 Double Drum Beatty Horse Power with quick lowering gear.

4 No. 3½ Ingersoll-Sergeant Steam Drills complete with tripods, weights and steels.

W. H. C. MUSSEN & CO.

RAILWAY, MINING AND CONTRACTORS' SUPPLIES

MONTREAL

PRESTON, ONT.—The Baptist congregation purpose building a new church, corner of King and Dover streets.—The building committee of the R. C. church have purchased a site on corner of Duke and Wellington streets on which to build a rectory.

WARSAW, ONT.—Tenders invited by D. Malony, Chairman Bridge Committee, up to 21st inst., for erection of abutments to bridge over the Indian river, between townships of Duro and Otonabee. Plans at office of J. E. Belcher, C. E., County Engineer, Peterboro.

SEAFORTH, ONT.—W. A. Elliott wants tenders by May 1st for construction of sewer on Birch street.—Morris Council have instructed Mr. Ainsley, County Engineer, to prepare plans for a steel bridge, with cement abutments, to be built over the river near Bodmin, span 110 feet.

CHATHAM ONT.—J. L. Wilson & Son, architects, are preparing plans for a residence for Warren Hear, this city.—The Bank of Montreal will build a new bank on the site of their present building. The Sovereign

Bank will also build this year.—It is reported that the Charles William, Estate will erect a new block on King street.—Tenders have been taken for the new market, municipal building and police station, on plans prepared by T. J. Rutley, architect.

SARNIA, ONT.—John Galt, C.E., of Toronto, has completed his investigations into the problem of water supply here and submitted report with estimate of cost for improvements to the present plant, also a proposed new location further up the river at Point Edward. The present location calls for \$60,000 expenditure, and the new location \$150,000.

BROCKVILLE, ONT.—D. W. Ogilvie, of Montreal, has purchased St. Lawrence park, about two miles above this city, and intends converting the property into a country home.—Tenders will be received by W. H. Osborne up to 6 p.m. of 20th inst. for supply of lumber, sewer pipe, Portland cement, cut and steel wire spikes and macadam, also for the construction of granolithic sidewalks.

GALT, ONT.—The counties of Brant, Wellington and Perth have empowered

Dr. Radford to ascertain the cost of a sanitarium to accommodate about 30 patients.—The Department of Public Works, Ottawa, are asking for tenders by 28th inst. for additions and alterations to public building here. Plans on application to Thomas Barrett.

VICTORIA, B. C.—The proposed Home for the Aged will be built on Fort street and plans will be prepared and tenders invited immediately.—Arrangements are being made by the engineering staff of the city for the paving of Johnston street with wooden blocks, at an estimated cost of \$23,000.—A power house is to be built in connection with the C.P.R. hotel now under construction here.

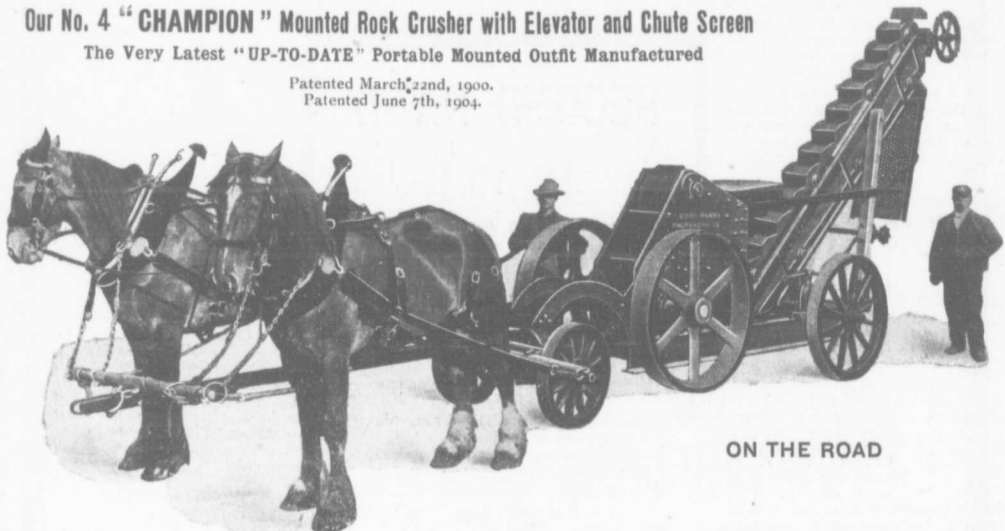
OTTAWA, ONT.—The time for receiving tenders for dredging at Port Arthur and in the Kamistiqui river has been extended to May 1st.—F. Gelnas, Secretary Department of Public Works, desires tenders by Saturday, 29th inst., for paving of a portion of Wellington street. He also desires tenders by Friday, 28th inst., for additions and alterations to the drill hall at Toronto and to

THE GOOD ROADS MACHINERY COMPANY, LIMITED, Hamilton, Canada

Our No. 4 "CHAMPION" Mounted Rock Crusher with Elevator and Chute Screen

The Very Latest "UP-TO-DATE" Portable Mounted Outfit Manufactured

Patented March 22nd, 1900.
Patented June 7th, 1904.



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The Steel "CHAMPION" Rock Crusher is the result of years of practical experience in crushing Rock from the limestone Ridges to the very hardest Syenite Rock. For crushing hard Boulders they have been proved to be superior to all competitors.

All mechanics agree that the simpler the machine the more valuable it is. In complicated machines look out for trouble and expense.

Send for latest printed matter and our 1905 Calendar to

Good Roads Machinery Company, Limited, JOHN CHALLEN, President and General Manager.

Address—Late Killey Beckett Works, 144 York Street, HAMILTON, ONT.

— L. H. GAUDRY & CO. —

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ALL WEIGHTS AND TESTS TO SUIT REQUIREMENTS.

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Prompt Shipments

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DERRICKS

We manufacture every class of Hoisting Derricks both for Hand or Power. Write for our price list of Standard Builders' and Contractors' Derricks, 1500 pounds to 7 tons capacity.

MILLER BROS. & TOMS MONTREAL

the public building at Galt, Ont.—The Public School Board have instructed the building inspector to prepare plans for new school for Central Ward, cost \$40,000, and for addition to Archibald street school, cost \$20,000.—W. G. Black wants tenders, on behalf of the city, by Thursday, 27th inst. for purchase of \$103,000 30 year 4 per cent debentures.

NEW WESTMINSTER, B.C.—The Board of School Trustees may call for competitive plans for the proposed Kindergarten building.—The sum of \$4,385 has been appropriated for the construction of a new waterworks reservoir.—A. E. Henderson, architect, of Vancouver, has been engaged to prepare plans for new buildings to be erected on the Exhibition grounds.

VANCOUVER, B.C.—Ald. Cooke has given notice of a by-law to issue debentures for \$350,000 for street improvements. Ald. Baxter will introduce a by-law to borrow money for new fire halls and fire engines.—It is the intention of the Board of Works to construct a steel bridge across the ravine at Carnarvon street, at cost of \$27,000.

FORT WILLIAM, ONT.—J. C. Stinson desires tenders by 22nd inst. for

LEA & COFFIN and H. S. FERGUSON ENGINEERS

Waterworks, Sewerage, Water Powers,
Pulp and Paper Mills

Cristine Building - MONTREAL

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

MEM. CAN. SOC. C.E. AND C.E.A., ETC.

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Specialties—Water Supply and Sewerage.

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Mem. Soc. C. E. West Penn. '87.

CONSULTING ENGINEER

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J. A. L. WADDELL, IRA G. HEDRICK,
Mem. Can. Soc. C. E. Mem. Can. Soc. C. E.
Mem. Inst. C. E. Mem. Inst. C. E.
Mem. Am. Soc. C. E. Mem. Am. Soc. E. C.

Waddell & Hedrick

Consulting Bridge Engineers

KANSAS CITY, MO.

Canadian Head Office:
Manning Chambers, TORONTO, ONT.
Montreal Office: 185 St. James Street.

a double frame house for Mrs. A. F. Woodhead and a brick veneer house for Mrs. J. McArthur.—John Galt, C. E., Toronto, is busy making surveys and collecting data before preparing designs for improvements and additions to the water supply and sewerage here. It is expected that water will be brought from Loch Lomond by natural gravitation and the pumping from the Kaministiquia River abandoned. Designs will be prepared for a complete sewerage system, part of which will have to be pumped.

OWEN SOUND, ONT.—D. B. McColl intends building a brick bake-shop on Division street.—Maitland, Rixon & Co. intend erecting a large saw mill on Manitoulin Island.—Forster & Clark, architects, are asking for tenders up to 29th inst. for erection of Y.M.C.A. building on corner of Scrope and Division streets; brick 55x92 feet, 3 stories.—Charles Thompson has purchased the property on Poulett street, opposite the White Star laundry, and intends erecting a business block.—Ryan Bros. will erect a three-storey building to replace the block occupied by J.W. Redfern and J.R. Brown.

BRANTFORD, ONT.—If given an extension of their franchise for ten years, the Brantford Electric & Operating Co. have agreed to install a new plant at the power house.—The Heintz Co., of Chicago, have decided to erect a salting station in this city.—It is understood that Mickle, Dymont & Co. intend extending their factory. —The Ker & Goodwin Co. intend building on corner of Charlotte and Colborne streets.—The Cleveland Roofing Co. are negotiating for the

establishment of a Canadian factory in this city.—The Lake Erie and Port Dover Radial Railway Co. are reviving their scheme of building from Brantford to Port Dover. E. L. Goolki and Thomas Elliott are interested.

PETERBORO, ONT.—The Department of Railways and Canals, Ottawa, are asking for tenders up to 21st inst. for supply of certain machinery to be delivered here for a dredge on the Trent canal.—Walter Stocker is meeting with success in his movement to secure the erection of a new opera house.—It is understood that residents in the west end will petition the City Council to enlarge the West Ward school.—The Canadian General Electric Co. intend building an addition of 250 feet to one of their buildings.

LONDON, ONT.—H. C. McBride, architect, has prepared plans for a brick church at Poplar Hill.—Tenders are invited up to 20th inst. for erection of bank building in this city for the Canadian Bank of Commerce. Plans at office of H. C. McBride.—The London Showcase Co. intend building a factory on Adelaide street, south of Bathurst, at cost of \$8,000.—The members of the Adelaide street Baptist church have appointed a committee to procure plans

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for extending the building and a new pipe organ at an estimated cost of \$15,000.—J. W. Older will build a brick veneer residence on Dreeaney ave.

HAMILTON, ONT.—T. Beasley, City Clerk, will receive tenders up to 20th inst. for the erection of a ward and laundry building at the City Hospital. Plans at office of A. W. Peene, architect, corner James and Main streets. The City Clerk will also receive bids up to 20th inst. for purchase of \$65,000 4 per cent debentures.—Wark & Lawrence have purchased lots 89 and 90, corner Seven and King William streets, for building purposes.—The George E. Mills Syndicate has disposed of four lots fronting on Sanford ave. and Barton street as a site for another church.—Building permits have been granted as follows: Thomas Howard, two brick houses, Oak ave., cost \$2,000; George Chapham, frame house, Chatham street, cost \$1,200; A. C. Havill, house on Main street, between Wentworth and Sanford ave., cost \$1,400.—The manager of St. Andrews church purpose improving the building at a cost of \$2,000.

WINNIPEG, MAN.—The Great West Development Co. want tenders for supply of material and construction of a cedar or tamarac wood pavement extending from Notre Dame ave. to Portage ave., about two miles.—The Canadian Bank of Commerce have purchased a site on Logan ave. for a branch office.—R. H. Moody will build a large block on west side of Albert street, north of Notre Dame.—Plans submitted by W. B. Lait, architect, for proposed Labor Temple, have been accepted.—James H. Cadham, architect, has just taken tenders on brick and stone warehouse on Ross ave. for Harry Leadley.—J. H. G. Russell, architect, wants tenders by 22nd inst. for all trades except galvanized iron work for erection of six-storey store and office building for J. H. Ashdown Hardware Co. Same architect has just taken tenders on a frame residence on Gertrude ave., Fort Rouge, for Miss M. Robertson.—The new residence of William Whyte, of the C. P. P., will be built on Wellington crescent.—R. Rogers, Minister of Public Works, will receive tenders up to 24th inst. for erection of Normal school in this city (exclusive of plumbing and heating), also up to 26th inst. for erection of Land Titles building at Neepawa, Man. Plans at office of S. Hooper, Provincial Architect, Parliament Buildings.—Dr. Devine will build a brick residence at corner of Osborne and Proud streets.—Darling, Pearson & Over, architects, have just taken tenders on erection of a building at Swan River, Man., for the Canadian Bank of Commerce.—Hooper & Walker, architects, desire tenders by 21st inst. for erection of brick veneer church at St. Charles, Man., for Rev. Father Thiéau-deau.—The School Board will call for tenders for erection of the John M. King school.—V. W. Horwood, architect, is taking tenders up to 24th inst. for erection of three brick stores on Notre Dame ave.

MONTREAL, QUE.—G. A. Monette, architect, has prepared plans for a school and academy to be built by the Congregation of the Holy Cross on Papineau

ave., near St. Catherine street, four stories, 62x123 feet, cut stone and pressed brick, cost \$40,000.—The Davies Co., Limited, of Toronto, intend building a large packing house at Point St. Charles.—L. O. David, City Clerk, wants bids by 20th inst. for general supplies, including cement, brick, tile pipe, lumber, iron castings and gulleys, crude asphalt, flagstone, granite and artificial paving blocks, etc.—The Finance Committee voted over \$212,000 last week to various public works, including erection of two new fire stations, an incinerator for the east end and a public bath. The following grants were made to the Road Committee: Outlet for Delorimier sewer, \$13,000; extension of sewage farm sewer, \$20,000; safety valves, \$1,000; permanent sidewalks, city's share, \$50,000; macadam, \$40,000; electric pump for Wellington street subway, \$1,500; Elgin basin sewer, \$75,000; Mount Royal avenue sewer, \$10,000; small sewers, \$5,000; making a total of \$140,500.—The Directors of the Windsor Hotel have called a meeting of shareholders to ratify the decision to enlarge the hotel, at a cost of about a million dollars. The building will be 10 stories and will be designed by a Canadian architect.—Edward & W. S. Maxwell, architects, have prepared plans for a 4-storey pressed sand brick building to be erected on Philips square by Alfred Joyce.

TORONTO, ONT.—Darling & Pearson are taking tenders up to 20th inst. for erection of a bank building at London, Ont., for the Canadian Bank of Commerce.—Plans of cement sidewalk to be constructed on Dundas street, in village of Lambton Mills, Ont., may be seen at the office of Montgomery, Fleury & Montgomery, Canada Life Building, this city. Tenders close May 1st.—The Haliburton Whitney & Mattawa Railway Co. have been granted one year's extension of time for beginning work on their road, which will be 106 miles long.—The Presbytery of Toronto have decided to allow Knox church congregation to erect their new building either on Wilcox street near Spadina ave., or on Spadina ave. near Harbord street.—L. C. Sheppard, James Grant, E. A. English, Robert Locke and Edgar J. Reade are organizing a company to build an apartment house on the southeast corner of Berkeley and Queen streets, to cost about \$2,000.—Plans of proposed additions and alterations to the drill hall in this city may be seen at the office of S. G. Curry, architect. Tenders close Friday, 28th inst.—C. H. Bishop, Superintendent of School Buildings, has been requested by

the Board of Education to report upon a suitable site for a large school to be built in the old St. John's ward.—The following works will be undertaken by the city: Tar macadam roadway on Shaftesbury ave., from Yonge street to 1312 feet east, cost \$8,032; asphalt pavement on McMaster ave., from Avenue road to Rathnally ave., cost \$3,742; asphalt pavement on Oxford street, from Spadina to Augusta, cost \$4,588; tar macadam roadway on Brock ave., from Bloor street to North end, cost \$4,803; on Yorkmouth road, from Christie street to Miles place, cost \$3,600, and on Hamburg ave., from Bloor to Van Horne street, cost \$15,969; asphalt pavement on Dufferin street, from King street south, cost \$13,010.—Roderick J. Parke, of this city, is acting as consulting electrical engineer for the Niagara-Welland Power Co., which proposes to establish a large power plant near St. Catharines. Harry Symons, K. C., of this city, is president of the company.—The new building to be erected by the Canadian Bank of Commerce on south-west corner of Carlton and Parliament streets will be two stories, of brick and stone, cost \$25,000.—The Property Committee of the Board of Education have decided in favor of a new heating system for Dufferin school, to cost about \$10,000.—H. Graham & Son have recently sold property for building purposes to the following: Ed. Ferris, for pair residences corner Delaware ave. and Hepburn st.; P. Fraser, three residences, north-east corner Concord and Hepburn; J. H. Aberdeen, eight houses, north-east corner College and Gladstone; John Drummer, several residences, corner Concord and Bloor; H. M. Deth, ten houses, corner Dovercourt and Hepburn; George Martin, pair residences, Dovercourt road.—R. T. Newton intends building four houses on Ossington ave., near Dewson.—It is understood that the Henderson Roller Bearing Co. have purchased the factory at 785 King st. west and adjoining property and intend building.

CONTRACTS AWARDED.

MOOSOMIN, N. W. T.—Brick hotel: A. C. McDougall, contractor, cost \$12,000.

WALKERVILLE, ONT.—Fifteen-room school building: Victor Williamson, contractor.

BRANDON, MAN.—New Y.M.C.A. building: Charles Hall, successful tenderer, \$55,677.

RIVERSIDE, N. B.—W. E. Reid, architect, has let contracts for heating and ventilating Riverside Consolidated school building to J. Steeves, of Hillsboro, a No.

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30 "Kelsey" furnace to be used, price \$1,600. The Metallic Roofing Co., Toronto, secured the contract for supplying the metal roofing and ceiling.

ST. THOMAS, ONT.—New waterworks pump: Allis-Chalmers Bullock, Montreal, successful tenderers, \$14,500.

WINNIPEG, MAN.—The C. P. R. have awarded the following contracts: Bridges on the Emerson, Pince Albert and Portal sections, Grant, Smith & Co., Minneapolis; concrete arches and rail-top culverts on the Ignace, Rat Portage and La Riviers sections, Kelly Bros. & Shane; sections houses on stone foundations, at Sunshine, Poland, and Biota, Mr. McGreevy, of Port Arthur; at Minitaki and Barclay, Mr. McFadyen, of Dryden; at Pipestone, Reston, Antler, Redvers, Manor and Beresford, C. Bennel, Brandon; section houses on posts and sills at Boharm, Mortlach, Secretan, Erfold, Herbert, Wasdeck, Aikens, Midale Ralf, McTaggart, Wilcox, Long and Hichecock, Mr. Creelman, of British Columbia; sixteen portable stations to be delivered to the company, C. Bennel, Brandon; portable stations at Balmoral and Crystal City, J. J. McDiarmid, Winnipeg.

TORONTO, ONT.—R. A. Rogers & Co. have been awarded the contract for concrete building of offices for the Canada Foundry Co., Toronto Junction, estimate about \$20,000, also for concrete work for new Home Bank building, King and Yonge streets.—F. H. Herbert, architect, has awarded the following contracts: Five story warehouse, Mincing Lane, for John W. Cowan—Brick and carpenter work, John McLeod; painting and glazing, J. McCausland & Son; roofing and galvanized iron, W. E. Dillon; plastering, Duckworth Bros. Three story store and dwelling, Yonge and Dundonald streets, for Geo. J. Melhuish—Brickwork, F. Holmes; carpenter work, Thos. Westlake; plastering, Taylor & Nesbitt; painting and glazing, S. N. Hughes; galvanized iron, W. E. Dillon; roofing, R. Rennie & Son. Storage building, Toronto Junction, for Pugsley, Ding-

man & Co.—Brickwork, Joy & Needham; armored concrete, Expanded Metal and Fireproofing Company; galvanized iron work, Wheeler & Bain; roofing, Geo. Duthie & Son.

ST. JOHN, N.B.—Seven tenders were received by the City Council for proposed waterworks extension to Loch Lomond. The total amounts of the tenders for each of the four sections follow: George M. Bryne & Co., Boston—Sec. 1, \$56,295; sec. 2, \$46,550; sec. 3, \$65,567; sec. 4, \$40,300. C. E. Trumbull Co., Boston—Sec. 1, \$54,500; sec. 2, \$47,975; sec. 3, \$61,217; sec. 4, \$38,650. George McArthur & Joseph McVey, St. John—Sec. 1, \$48,930; sec. 2, \$33,860; sec. 4, \$46,150. Gow & Palmer, Boston—Sec. 1, \$55,910; sec. 2, \$47,125; sec. 3, \$64,325; sec. 4, \$39,505. Boylston Construction Co., West Boylston, Mass.—Sec. 1, \$52,400; sec. 2, \$39,832; sec. 3, \$59,260; sec. 4, \$37,380. W. B. Byrne, Boston—Sec. 1, \$55,525; sec. 2, \$41,570; sec. 3, \$61,195; sec. 4, \$37,950. B. Mooney & Sons, St. John—Sec. 1, \$43,955; sec. 2, \$51,139; sec. 3, \$57,334; sec. 4, \$36,640. It is understood that the work will be awarded to McArthur & McVey and B. Mooney & Sons, at a total of \$176,764. The tenders received for 1,500 barrels of Portland cement were as follows: In barrels, from \$2.73 to \$3.50; in bags, from \$2.53 to \$3. For supply of 68 tons of cast iron pipe, the contract was awarded to D. Y. Stewart & Co. Five tenders were received, as follows: W. H. Thorne, 10 in., 6 in. and 4 in. pipe in 9 feet lengths, \$30.60 per ton; in 12 ft. lengths, \$31.80 per ton; total, \$2,162.40 and \$2,111.40. Vroom & Arnold, 10 in. pipe, \$31.25; 6 in. pipe, \$31.25; 4 in. pipe, \$31.25; total, \$2,125. D. Y. Stewart & Co., Halifax, 10 in. pipe, \$29.84; 6 in. pipe, \$30.34; 4 in. pipe, \$30.84; total, \$2,045. U. S. Cast Iron Pipe and Foundry Co., 10 in. pipe, \$30.40; 6 in. pipe, \$30.99; 4 in. pipe, \$31.00; total, \$2,628.20. Canadian Iron Works, 10 in. pipe, \$31.25; 6 in. pipe, \$31.25; 4 in. pipe, \$32.25; total, \$2,127.75.

BUSINESS NOTES.

The Canadian Pipe Co. commenced last year at Vancouver the manufacture of wire bound wooden water pipe, the demand for which is steadily increasing as the merits of the material become known. The attention of engineers and contractors is directed to the company's announcement referring to this material appearing in our advertisement pages.

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"EXTRACT"

RESULTS OF CANADIAN AND UNITED STATES CEMENT TESTS JULY 1ST, 1902, TO JULY 1ST, 1903, AT THE LABORATORY OF THE CITY ENGINEER OF THE CITY OF TORONTO.

C. H. RUST, City Engineer.

W. A. CLEMENT, Asst. Engineer.

Brand.	Soundness. Faiji Test.	Specific Gravity.	Residue in Per cent. on No. 100 Sieve	Setting in Minutes.		Tensile Strengths in Pounds per Square Inch.										Where Made.
				Initial.	Final.	Neat.					3 (Sand) to 1 (Cement).					
						1 dy.	7dys.	28dys.	3 mos.	1 yr.	1 dy.	7dys.	28dys.	3 mos.	1 yr.	
Alpha	O. K.	3.177	9.3	222	399	292	752	811	868	841	57	197	271	317	327	United States.
Atlas	O. K.	3.100	9.3	152	387	385	579	622	710	712	61	186	246	305	339	" "
Hercules	41% failed	3.159	7.1	120	240	292	696	836	777	711	51	174	222	242	231	Canada.
Imperial	O. K.	3.213	6.2	40	75	250	352	400	484	485	61	128	176	254	321	"
Lehigh	O. K.	3.183	9.1	166	356	348	746	849	897	880	73	201	273	334	361	United States.
Monarch	4% failed	3.154	7.5	176	355	366	653	701	731	701	66	173	242	303	355	Canada.
NATIONAL	O. K.	3.135	2.1	162	345	307	701	783	827	804	74	214	299	367	368	"
Rathbun's Star	O. K.	3.140	5.0	123	305	359	581	640	677	676	75	193	255	313	349	"
Samson	7% failed	3.118	6.3	107	252	257	462	525	583	612	67	163	231	284	338	"

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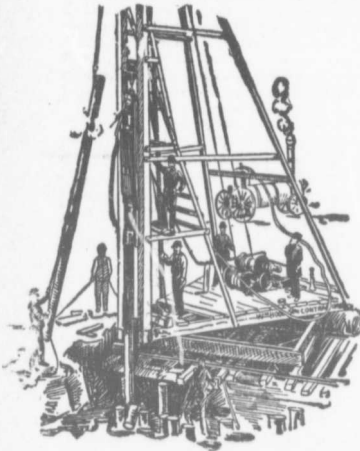
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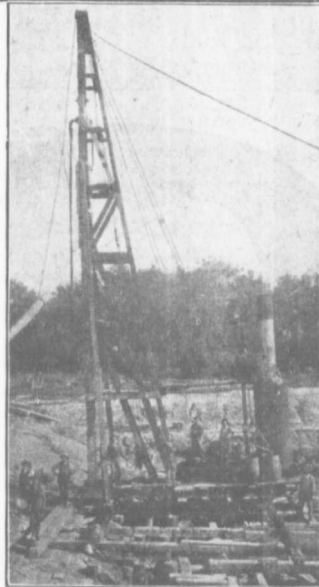
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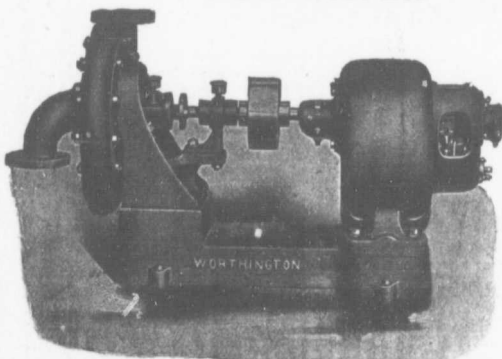
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Success has been attained in the manufacture of water pipe from wood. A few words by way of description of the method of manufacture as witnessed at

oughly kiln dried stock and are composed of three staves securely joined by a patent perfect double V joint.

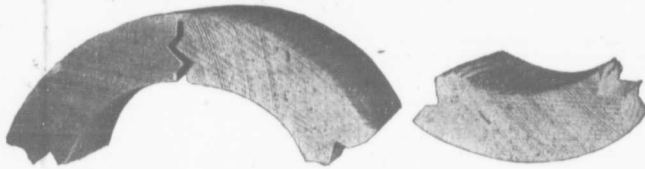
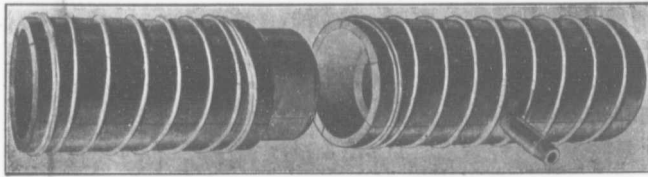
The staves are concaved and the joint formed at one operation of a ma-

inspections, viz., first, at the mill; second when received, and third after the staves are made and before being placed in the banding machine.

The accompanying sectional view shows the patent double V joint uniting the staves and forming a joint so perfect that when the segments are put together, it appears to be a cylinder with a solid shell.

The machine which bands with wire the outside of the pipe, is much like a screw cutting lathe with a tension over which the wire passes to the pipe. The wire is heavily galvanized, extra pliable steel wire ranging from 8 to 2 gauge. It is put on the pipe at a tension of from $\frac{1}{2}$ to $\frac{3}{4}$. The banding machine can be so adjusted as to space the wire any desired distance to lay solid on the pipe, the spacing being made to vary according to the specification of pressure required. All spacing is based on a factor of safety of 5.

The pipe next go to a heading machine where the ends are fitted either with tenons for inserted joint or wood sleeve coupling. From the factory they go to a tarring shed where they are rolled through a boiling mixture of tar and asphaltum, the wood taking a very heavy coating.



PIPE MANUFACTURED BY THE PACIFIC COAST PIPE COMPANY.

the factory of the Pacific Coast Pipe Company at Vancouver, B. C., will perhaps interest the reader. The pipes are made of Douglas fir, in lengths from 8 to 16 feet, and in interior diameter, from 2 to 24 inches. They are made from thor-

oughly kiln dried stock and are composed of three staves securely joined by a patent perfect double V joint. The staves are concaved and the joint formed at one operation of a machine specially designed for the purpose, the knives being set for each size and each stave being a perfect segment. All imperfect material is rejected before the pipe goes to the banding machine. The material actually is made to pass three

The Old English Fertilizers Co. is seeking incorporation, with a capital of \$100,000. It is proposed to acquire certain plaster quarries at Wallace, N.S., and limestone quarries at Pugwash, N. S. W. W. Black, of Amherst is one of the promoters.

Winnipeg Prices of Building Materials

White Brick, kiln run, per M. on car	\$12 00
White veneer brick, per M. on car	14 00
Red pressed brick, per M. on car	3 00 to 32 00
Red Sand Mould Brick	21 00
Pressed Bricks (except red)	30 00 to 40 00
Hollow Brick	13 00
Vitrified Paving Brick	38 00
Brown Pressed Brick	34 00
Water Struck Brick	35 00
Rain Wash Brick	35 00
Portland Cement, in carloads	2 62
Dimension stone, per cubic ft.	30 c to 35 c
Common rubble, per cord, delivered	10 50
Select rubble, per c'd, delivered	11 50
Rough shoddy, per cubic yard	1 50
Concrete Stone, per cubic yard	1 25
Grey Lime, per bushel at quarry	22 c
White Lime, per bushel at quarry	32 c
White Lime, per bushel delivered	22 c
White Lime, per bushel delivered	32 c
American hard wall plaster, per ton f.o.b.	15 00
Manitoba hard wall plaster, per ton f.o.b.	15 00
Ordinary hard wall plaster, per barrel	3 25
Pitch pine hard wall plaster, per barrel	4 50
Building papers, Anchor, plain	65 c
Building papers, Cyclone and Jubilee, plain	77 1/2
Building papers, Anchor, tarred	70 c
Building papers, Cyclone and Jubilee, tarred	80 c
Building papers, Shield, tarred	65 c
Sewer Pipe, 3 in., 8 1/2 c; 4 in., 10 1/2 c; 5 in., 14 1/2 c; 6 in., 16 1/2 c; 8 in., 25 c; 9 in., 30 c; 10 in., 36 c; 12 in., 45 c; 15 in., 75 c; 18 in., \$1.00; 20 in., \$1.50; 24 in., \$2.00.	

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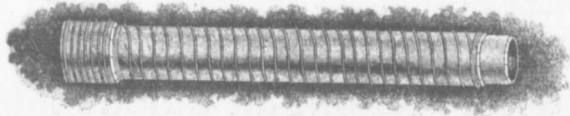
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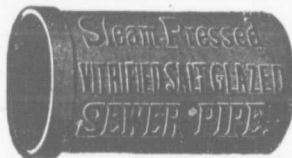
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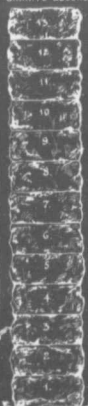
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1 inch No. 1 Pine cuts and better	\$48.00	to \$50.00
1 1/2 to 2 inch No. 1 cuts and better	51.00	53.00
1 1/2 to 2 inch No. 3 cuts and better	38.00	39.00
1 inch Pine Dressing and better shorts	25.00	27.00
1 x 4, 6 and 8 Common	18.00	19.00
1 x 10 and 12 Common	19.00	21.00
1 inch mill run sidings	21.00	22.00
1 inch mill run	20.00	21.00
1 x 10 and 12 mill culls	15.00	16.00
1 inch dead cull sidings	12.00	13.00
1 1/2 inch Flooring	25.00	27.00
Hemlock, 1 x 4 to 8 inch	14.50	15.50
2 x 4 to 10 inch, 10 to 16 feet	15.00	16.00
2 x 4 to 10 inch, 18 feet	16.00	17.00
1 1/2 inch No. 1 4 ft. Pine Lath	3.40	3.60
1 1/2 inch No. 2 4 ft. Lath	3.00	3.10
1 1/2 inch No. 1 4 ft. Hemlock Lath	2.80	2.80
XXXX Pine Shingles	2.90	
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XXX 6 butts to 2 inch	2.90	
XXXX 6 to 23-16 inch	3.10	
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Ash, white, 1sts and 2nds, 1 to 2 inch	\$33.00	to \$35.00
Ash, black, 1sts and 2nds, 1 to 1 1/2 inch	27.00	29.00
Birch, M. R., 1 inch	22.00	24.00
1 1/2 inch	23.00	25.00
Basewood, Common and better, 1 to 1 1/2 inch	24.00	25.00
Basewood, 1 1/2 to 2 inch	25.00	26.00
Elm, soft, mill run, 1 to 1 1/2 in.	24.00	25.00
Elm, rock, mill run, 1 to 1 1/2 in.	24.00	26.00
Maple, common and better, 1 to 1 1/2 inch	21.00	23.00
Oak, red plain, 1sts and 2nds, 2 to 4 inch	44.00	46.00
Oak, white, 1sts and 2nds, 1 to 1 1/2 inch	42.00	44.00
Oak, quartered, 1sts and 2nds	70.00	80.00

SLATE.

	Toronto.	Montreal.
Roofing (7 1/2 square).		
red	30 00	30 00
purple	9 00	10 00
unsfading green	10 00	11 00
black	9 00	9 00
Terra Cotta Tile, per sq.	23 00	25 00
Ornamental Black Slate Roofing		77 00

(Continued on page 13.)

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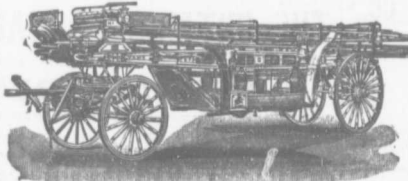
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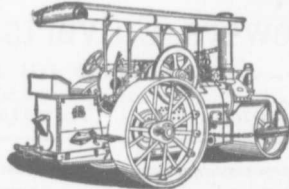
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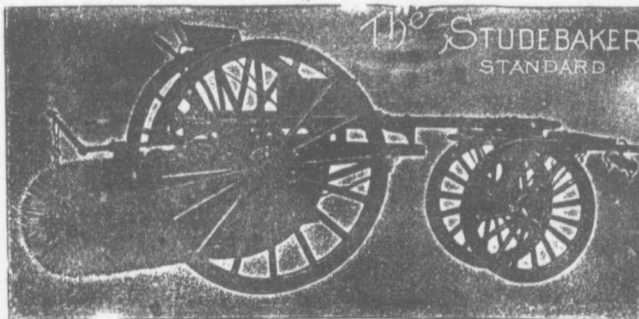
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Because no sweeper so effectively does the work for which it is designed as "The Studebaker." It Sweeps Clean. No sweeper is constructed with the same degree of care and mechanical precision. It Wears Well. "The Studebaker" has the smallest number of working parts, and has less gearing than any other sweeper made. It is free from all unnecessary complications. With reasonable care it does not get out of order. Send for complete descriptive catalogue.

Prices of Building Material
(Continued from page 12.)

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DON VALLEY BRICK WORKS.
Nos. 1, and 2, Red Pressed Bricks.....
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No. 1 Brown Pressed Brick.....
Pompeian Red, Buff and Brown Pressed
Bricks.....
Ornamental Bricks of all kinds for Man-
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Enameled Bricks of all Colors.....
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Semi-Vitrified Foundation Bricks.....
Common Stock Red and Grey Bricks.....
Sewer Bricks.....
Stone or Macadamized Roadways.....

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Red No. 1.....	13 00
" 2.....	15 50
" 3.....	9 00
Buff No. 1.....	15 00
" 2.....	13 00
Brown.....	25 00
Roman Red.....	30 00
" Buff.....	25 00
" Brown.....	41 00
Hard Building.....	8 10
" Sewer.....	7 0
" Backing.....	6 00
Moulded Ornamental from \$2.00 to \$5.00 per 100'	
Terra Cotta string Courses and Frieze, from 50c. to	
\$.50 per ft. run.	
Roofing Tiles, \$20.00 per 1,000.	

BEANSVILLE BRICK AND TERRA COTTA CO.
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Red Peerless Facing.....	\$16 00	\$21 50
" No. 1.....	14 00	19 50
" No. 2.....	12 00	17 50
" No. 3.....	10 50	15 00
Brown Peerless Facing.....	20 00	25 50
" No. 1.....	18 00	23 50
Buff Peerless.....	20 00	25 50
" No. 1.....	18 00	23 50
" No. 2.....	15 00	20 50
Moulded and Ornamental Brick from \$3 to \$10 per C.		
Roman Red (Size 12 x 4 x 1 1/4 in.).....	30 00	
" Buff.....	30 00	35 50
" Brown.....	34 00	39 50
Vitrified Paving Brick No. 1.....	18 00	23 50
" " No. 2.....	14 00	20 50
Sewer.....	8 00	13 5
Roofing Tile.....	22 00	28 00

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Bo. d.....	30 00 M. 25 00 M.
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" 2 " "	22 00

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lots f.o.b. Toronto.....	\$29 00

(Continued on page 14)

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Prices of Building Material

(Continued from page 13)

STONE.	Toronto.	Montreal
Common Rubble, per cubic, delivered at building.....	13 50	11 00
Large flat Rubble, per cubic delivered.....	14 00	18 00
Foundation Blocks, per c. ft. Granite (Stanstead) Ashlar, 6 in. to 12 in., rise 9 in., per ft. Amherst Red Sandstone Amherst, N.S., per cub. ft. on cars at quarry 40c. at quarry.....	40	50
Sackville, N.B., brown or red stone f. o. b. Quarries asiloon.....	45	45
Myers-Northport Red or River Philip Gray Sandstones f.o.b. per cubic foot.....	30	45
Stanstead granite paving blocks, 8 in. to 12 in. x 6 in. x 4 1/2 in. per M.....	75	65
Granite curbing stone, 6 x 9 in. per lineal foot.....	50 00	
Buctouche Olive Freestone Olive Sandstone (Indian-town, N. B.).....	70	70
Brown Sandstone (Sackville, N. B.).....	80	70
Meat red sandstone, per cu. ft.....	80	70
Black Pasture buff stone per cu. ft.....	50	
Hagersville Crushed Stone per ton.....	1 25	65
Nova Scotia blue grey, per cu. ft. Coursers, 6 to 8 in. f. o. b. St. Mary's, per cord.....		7 00
Footing, 6 to 10 in. per cubic ft. Dimension Stone, f. o. b. St. Mary's, per cubic foot.....		15
Granite (Laurentian Pink) Ashlar, 6 to 12 in., rise 9 in., per c ft. Dimension Stock Granite, (Laurentian Pink) for building purposes, per c. ft., f. o. b. quarries Do., for polishing purposes, up to 2 tons weight, per cubic foot		35
		40
		70
	F. O. B. Halifax	
Dimension stock granite for building purposes, per cu. ft. Do., for polishing purposes, up to 2 tons weight, per cubic ft. Paving sets, per thousand block		40
		1 00
		60 00
CREDIT VALLEY STONE.		
	F. O. B. Quarries.	
Rubble, per ton.....		60
Brown Coursing, up to 10 per sup. yard.....		1 75
Brown dimension, per cub. yard.....		70
Grey coursing, per sup. yard.....		1 25
Grey dimension, per cub. ft.		40
ROMAN STONE. F. O. B. Factory.		
6" x 3" Sills, tooled seated and throated 35c. per lineal foot. Window Heads and Ashlar, 40c per square foot. Window and Door Quoins tooled 40c. per superficial foot. String Courses, Molded or Ornamental, 6" to 12" rise 50c to \$1.50 per lineal foot. Hollow wall tooled finish 14" thick 40c. per square foot.		
LIME. Toronto.		
White Lime, per ton, Delivered	\$8 00	
Grey " " " "	7 00	
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Canadian (Packages, 350 lbs. net.):	Toronto.	Montreal
Rathbun's Star.....	1 75	2 20
Trowel.....	1 85	1 95
Samson.....	1 75	1 85
Magnet.....	1 55	1 65
Monarch.....	1 80	1 90
Hercules.....	1 75	1 75
Imperial.....	1 80	
Crescent 375 lbs. gross.....	2 30	1 85
Diamond 350 " " " " " "	2 30	1 85
" Giant" Branford.....	1 70	2 00
American (in Bags)		
"Heiderberg".....	1 90	2 00
Aisen.....	2 25	
Lehigh, in bbls., 375 lbs. cotton sacks, 350 net.....	3 35	2 10
" " " " " " " " " " " "	2 00	2 00
" " " " " " " " " " " "	2 10	1 85
"Iron Clad" in bags 350 lbs. "Invicta" " " " " " " " " " "	1 80	1 90
" " " " " " " " " " " "	1 65	1 70
"Adironack" " " " " " " " " " "	1 50	1 65
Old Reliable "Giant".....	1 80	1 85
"Improved Union".....	1 70	1 80
"Union".....	1 50	1 60
Vulcanite (The Toronto Pottery Co., Limited.		
Toronto) 350 lbs. per bbl.	1 80	
In paper bags.....	2 00	
" wooden bbls.....	2 00	
" cotton bags.....	2 10	
English (in Barrels):		
Brook's Shoobridge Anchor.....	2 35	2 40
Whites.....	2 35	2 05
Belgian (in Barrels):		
"Josson".....	2 60	2 70
"North's Condor.....	2 05	2 10
"White Cross".....	1 90	2 00
Hammer.....	1 80	1 90
White Star.....	2 15	2 25
Samson.....	1 80	1 90
German (in Barrels):		
Offenbacher.....	2 35	
Aisen.....	2 65	2 95
Dyckerhoff.....	2 65	2 75
Hercules.....	2 25	2 35

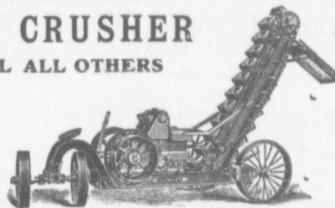
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HIGH GRADE GERMAN BRANDS FOR GRANOLITHIC AND ARTIFICIAL STONE SIDEWALKS.

Sewer Pipes, Best English Cements. Best Belgian Cements Culvert Pipes, &c. W. McNALLY & CO., Montreal

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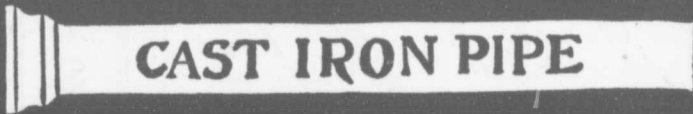
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