

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. 14.

AUGUST 26, 1903

No. 28.

THE CANADIAN CONTRACT RECORD.

PUBLISHED EVERY WEDNESDAY

As an Intermediate Edition of the Canadian Archivect and Builder.

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

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

CONFEDERATION LIFE BUILDING, TORONTO Telephone 2362. Branch Offices:

Imperial Building, Montrea!. 22 Great St. Helen's, London, E. C.

Telephone Main 2290.
Advertising Rates on application.

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 paper.

TENDERS

Pumping Plant

Sealed, separate or bulk tenders addressed to the clerk, Town of Wiarton, will be received up to 6 p.m. of MONDAY, AUGUST 31ST, 1993, for the supply and construction of the following:

One Compound Duplex Pumping Engine, capacity 720,000 gals. per day.
 Two 70 Horsepower steel Bollers, 12 x 66.
 3,000 feet of 10" and 3,200 feet of 8" water pipe and specials.

4. The construction of One Cement Concrete Reservoir, capacity 260,000 gals 5. The construction of One Power House of stone, galvanized iron roof.

6. The laying of 3,000 feet of 10" and 3,200 feet of 8" water pipe.

An accepted bank cheque payable to the order of the Treasurer, Town of Winton, for five per cent, of the contract price must accompany each tender, the same to be forfeited if the tenderer decline the contract or fail in the performance thereof, and will be returned in case of non-

Plans and specifications may be seen at the Clerk's Office.

The lowest or any tender not necessarily accepted.

W. J. FERGUSON, Clerk of Wiarton, Wiarton, Ont.

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

The assignment is reported of George Wilson & Company, builders and lumber dealers, St. Catharines, Ont., with large liabilities. The cause of the failure is believed to be the loss sustained recently by fire in their lumber yards.

TOWN OF GANANOQUE PROVINCE OF ONTARIO

WATERWORKS AND SEWERAGE WORKS

NOTICE TO CONTRACTORS

Sealed tenders will be received by the Mayor of the Town of Gananooue, Out., until 6 p.m. on

Tuesday, September 15th, 1903,

for the construction of a System of Water-Works and a Sewerage System, according to plans and specifications to be seen at the office of the Chief Engineer at Gananoque and at Toronto, No tender necessarily accepted.

W. N. ROGERS, Esq., Mayor, Gananoque, Ont.

WII,LIS CHIPMAN, C.E, Chief Engineer, 103 Bay Street, Toronto.

Tenders Wanted

for the Construction of Water Works at Springhill, N.S.

Sealed tenders will be received addressed to the undersigned up to 8 p. m. on

Tuesday, 1st September, 1903,

for furnishing all material and labor connected with the construction of a gravitation system of waterworks in the town of springhill, N. S., of rest-iron mains and sping of about 18 miles of rest-iron mains and sping of about 18 miles of rest-iron mains and sping of about 18 miles of rest-iron mains and sping of about 18 miles of rest-iron mains and sping of about 18 miles of rest-iron mains and sping of rest-iron bein accordance with form supplied and must be accompanied with accepted bank cheque for 36 per cent, of tender, payable to the town treasurer of Springhill, as security for the proper fulfilment of the contract.

The contract.

Plans and specifications may be seen after the 18th inst at the Town Clerk's office at Springhill, or at the office of JOHN GALT, Consulting Ringin-eer, Toronto.

The lowest or any tender not necessarily accepted.

DANIEL McLEOD, Town Clerk. Springhill, N. S., August 12, 1903.

The Arcola Brick Company, of Arcola, N. W. T., are installing a complete brick making plant.

CONTRACTS OPEN.

EGANVILLE, ONT.—Dr. Maloney intends building a residence and office.

TROUT LAKE, B.C.-Cowan & Co. are preparing to build another saw mill.

CANSO, N.S.-A. N. Whitman & Co. have decided to rebuild their warehouse here.

CACHE BAY, ONT.—The council have taken steps to introduce electric

PILOT MOUND, MAN. - W. W. Shore contemplates building an hotel here.

WATERVILLE, QUE. - The pro-osed town hall is estimated to cost \$8,000

KINCARDINE, ONT.-Gledhill & Company are about to build a block of

HOSMER, B. C .- The Elk Lumber Manufacturing Co. will build a saw mill here.

ST. STEPHEN, N. B.—Negotiations for the new shoe factory have been suspended.

SEBRINGVILLE, ONT.—It is understood that Jacob Esch intends building a residence.

TARA, ONT. - The officials of the Methodist church contemplate building a new parsonage.

WALKERVILLE, ONT. — Mrs. Rourke is about to build a residence on Garfield avenue.

NORTH TORONTO, ONT. - Six ew houses are about to be built on Merton street.

HANOVER, ONT .- The erection of new post office will not be commenced until next spring.

PEMBROKE, ONT. — Dr. Bayne's church is to be enlarged and improved and a new pipe organ installed.

CHILLIWACK, B.C. — The British Columbia Government is taking tenders for erection of school house here.

JANETVILLE, ONT. - Rev. W. D. Harrison wants tenders by 31st inst. for erection of Methodist parsonage.

CARBERRY, MAN. - C.P.R. surveyors are laying out a line of railway from this place to Neepawa.

NANAIMO, B.C.—It is said that A. 7. Wilson & Co., of San Francisco, will build a large saw mill at this place.

VICTORIA, B. C. — It is expected that the contract for the new C. P. R. tourist hotel here will be awarded shortly.

ENDERBY, B. C .- The saw mill here has been purchased by the Okanagan Lumber Co., who will double its capacity.

GALT, O. T.-A Toronto architect has prepared plans for forty houses to be built here by Miss Dickson, of Toronto

REVELSTOKE, B. C. - The city

authorities are looking into the question of securing a more permanent water sup-

VIRDEN, MAN.—A. G. McDougall, secretary treasurer of the village, is prepared to receive offers for \$6,000 deben-

WOLFE ISLAND, ONT.—E.J.Daw-son, township clerk, desires tenders by October 1st for construction of steam ferry boat

LONDON, ONT. — Plans for new bridge over the Thames river show a span of 160 feet, with two approaches, cost \$10,000

LORETTE, QUE.—A new electric light company has been formed here, Joseph A. Verret and Joseph Durand being interested.

FAIRVILLE, N.B.—The authorities have taken the necessary legal steps to expropriate the land required for a new school building.

WHITBY, ONT .- The by-law to pro vide \$65,000 for waterworks and electric light systems was carried by a large majority last week.

L'ORIGINAL, ONT. — Schetagne Bros., proprietors of the Ottawa Hotel intend building a new stone and brick structure next spring.

HUMBERSTONE, ONT. — The Reeve is taking tenders this week for building of four concrete bridges in the township of Humberstone.

WOODSTOCK, UNT. - A by-law granting a bonus of \$5,000 to A. Henderson to establish a furniture factory here was carried on 20th inst.

BONNY RIVER, N.B.—John Matheson will receive tenders up to the 31st inst. for erection of school house for district No. 5, parish of St. George.

LONDONDERRY, N. S. — A. Walsh, manager of the Royal Bank, making arrangements to erect a new bank building adjoining the post office.

LETHBRIDGE, N.W.T .- The time for receiving tenders for construction of waterworks and sewerage system has been extended to September 12th.

WOODGREEN, ONT. — Bids received by W. J. Waterworth, treasurer township of Mosa, up to 29th inst., for purchase of \$866.50 drainage debentures

VANKLEEK HILL, ONT .- F. W. Thistlethwaite, town clerk, will receive tenders up to 29th inst. for construction of 13,962 square feet of granolithic side-

ARTHABASKAVILLE, QUE.-Bylaws were carried a few days ago authorizing the raising of funds to build a new town hall and to give a bonus of \$3,000 for a hospital.

WHITECHURCH, ONT. - James Gaunt has bought a lot in Lower Wingham, and we understand intends building -George Garton will probably build a residence.

ST CATHARINES, ONT. September 10th the ratepayers will vote on a by-law to grant a loan of \$20,000 to Joseph Etherington and others to establish a carpet factory here.

PERTH, ONT. — The ratepayers of Dalhousie and North Sherbrooke townships carried a by law last week to issue debentures to build a steel bridge at the head of Dalhousie Lake.

KINGSTON, ONT .- It is said that the supplementary estimates of the Dominion Government will contain an appropriation of \$10,000 for a new barracks in the fair grounds here.

STRATFORD, ONT. — The Hood Milling Co. will double the capacity of their flour mill. — The Hamburg Felt Shoe Co. have commenced the founda-

tion of a factory addition 32 x 60 feet, two-storeys high.

FORT WILLIAM, ONT .ment has been reached with the Flavelle Co., of Lindsay, by which the latter agree to erect here an elevator of not less than 500,000 bushels capacity and a flour mill of at least 2,000 barrels a day.

IOHN, N. B .- The New Bruns-ST. JOHN, N. B.—The New Bruns-wick Petroleum Co., in which St. John parties are interested, have decided to sink 100 wells in the St. Joseph district and to build a large refinery.—W. S. Mitchell, architect, has asked for tenders for erection of business premises, corner King and Ludlow streets, for E. O. Par-

ALMONTE, ONT .- The Street Committee has been authorized to build a granolithic sidewalk on Clyde street, cost not to exceed \$3,000.—The committee has been given further time to report upon the cost of the power house.

LEAMINGTON, ONT. property known as Bell's Point has been purchased by a syndicate of Leamington men, including Dr. Hillier, Dr. Hughes and A. P. Boles, who intend erecting a number of summer cottages.

QUEBEC, QUE.—It is understood that the Great Northern Railway work-shops, burned last week, will be rebuilt without delay.—The Wolvin Co. will build a new floating elevator to replace the one burned recently.

SYDNEY.N.S.-Donald M.McAdam M. P. P., is asking for tenders up to 29th inst. for erection of brick and stone opera house on George street, from plans by Chappell Bros. & Co., architects. The building will be 62 x 98 feet, four storeys and basement

REGINA, N.W.T .- At a meeting of the city council on the 18th inst., John Galt, C.E., of Toronto, was finally engaged to install waterworks and sewerage systems and electric light plant. Twork will be commenced immediately A large warehouse will be built here by the Massey Harris Co.

SARNIA, ONT .- The question of building a four-room school is under consideration by the Board of Education.
Robert Kettle has purchased property under con-Robert Kettle has purchased property on which to build a brick livery barn.—Lambton county council have under consideration the building of an iron bridge on the town line between Warwick and Plympton.

OTTAWA, ONT. — Tenders close noon to-day (Wednesday) for supplying the city with a five ton steam road roller. Particulars from N. J. Ker, city engineer.—It is probable that the Hotel Cecil will not be completed until next spring.

The Ottawa Improvement Commission are having plans prepared for extensive improvements at Rockliffe park, including roadways, speedways, etc.

HAMILTON, ONT.—The Hamilton, Caledonia and Lake Erie Railway Co. Caledonia and Lake Eric Railway Co.
have purchased from the Thompson
Estate a site for power dam at Indiana,
near Cayuga, on the Grand River. The
power canal will be one mile and a half
long.—Manager Kennedy, of the International Harvester Co., says that three more large buildings, including a binder twine factory, will likely be erected.

ST. BONIFICE, MAN. — By-laws were carried a few days ago providing

the sum of \$3,500 for the completion of Tache school at Norwood and exempting from taxation a proposed linseed oil mill. Engineer by recommendation Laberte, of Montreal, that a water supply be obtained by the sinking of artesian wells, has been adopted by the council. The work will cost about \$50,000.

TORONTO JUNCTION, ONT. It is the intention of Mr. Lennox to build several residences on Humberside avenue. The C. P. R. are making surveys with the intention of changing the course of the road from Islington to Lambton.— Mr. Proctor purposes building two residences on Pacific avenue. — William Mahon intends building on Ontario street.—The Union Stock Yards Co. will likely invite tenders early next month for new hotel.

EDMONTON, N. W. T.—The Bank of Montreal will erect a new building here at an early date.—The survey for the high level bridge across the Saskatchewan river at this place has been completed .-Revillon Freres will erect a four-storey warehouse, 150×50 feet, and in the spring it is the intention to build a seven-storey apartment block.—The Brackman Ker Milling Co. and the Alberta Grain Co. will each erect a large grain elevator

at this point.

MONTREAL, QUE.—The Market Committee have approved of the plans for the enlargement of the eastern cattle market. — The Puebla Light & Power Co., of this city, has been incorporated by the Dominion Government, the pro-moters including L. S. Colwell, broker, and A. E. Worswick, engineer. The and A. E. Worswick, engineer. The charter permits the company to construct and operate works for the generation and distribution of electric light and power.—
The Richelieu & Ontario Navigation Co. have decided to rebuild the steamer Montreal.—The city surveyor has given notice of the intention to construct a 2 × 3 brick sewer on Sherbrooke street, from Peel street to west of Stanley street.— Building permits have been granted as follows: J. B. Tappa, two-storey building, Duquette street, cost \$1,700; Jos.A. Groulx, pair two-storey buildings, Huntley st., cost \$1,200 each; Thos. Dionne, pair one storey buildings, corner St. Catharines and Panet streets, cost \$1,500 each (J. A. Godin, architect); Ed. Cox, two storey building, Huntley street, cost \$1,000; Darling Bros., alterations to \$1,000; Darling Bros, alterations to two-storey building, Ottawa street, cost \$1,100; W. H. Dunn, alterations to four-storey building, St. Andre street, cost \$1,500.—J. Micheals is building a residence on Westmount avenue, from plans by Percy R. Barnes, architect.

WINNIPEG, MAN. found that the proposed fire halls cannot be erected with the funds now available. and it is proposed to ask authority from the Government to issue debentures for the additional sum required.—The coun-cil are favorably impressed with the proposition submitted by the Great Falls Power Company for supplying the city with electric power, and it is believed that an agreement will be reached with that corporation.—A sixth storey is to be added to the Steele block on Portage avenue.—John Schwab, architect, has in hand a terrace of eight houses on Duf-ferin avenue for F. Letchzier. — The council have not yet agreed upon a site

THE HANOVER PORTLAND CEMENT GO. LIMITED

HANOVER, ONTARIO.

Manufacturers of the Celebrated

SAUGEEN BRAND" of Portland Cement

Prices on Application.

for the proposed hospital building .- Jas. Chisholm, architect, is taking tenders up to 29th inst. for brick residence to be built on Wellington Crescent.—Charles Cahill wants tenders by 29th inst. for erection of brick and stone school build-Mary's avenue, from plans by ing on St. Mary's avenue, from pians by Samuel Hooper, architect.—The Holman Meat Co., St. Mary's street, are about to erect a brick and stone building from plans by S. Hooper.—J. Greenfield, architect, wants bids by 31st inst. for frame school house for trustees of Bourne school district No. 18.

VANCOUVER, B. C .- Building continues brisk in this city. John Morton will build a two-storey store and dwelling on corner of Nelson and Denman streets. J. Adamson is about to build a residence on Burrard street.—The British Columbia Permanent Loan & Savings Co. have acquired possession of the property on the north-east corner of Hastings and Cambie streets, and intend building thereon a fine stone structure, to building thereon a fine stone structure, to cost about \$100,000. -No selection has yet been made of plans for the new high school building.—Revised plans are be-ing prepared by Blackmore & Sons, architects, for a residence at corner of Davie and Brougham streets for Thomas Foster, to cost about \$7,500.—The con-tract will likely be let this week for stone and steel station for the British Coland steel station for the British Col-umbia Electric Railway Co.—It is the intention of W. Suthers, recently from Australia, to erect a residence for him-self in the west end, to cost about \$50,000.

CHATHAM, ONT. - The Radial Railway Co. have secured their charter from the Dominion Government and will The first section to build the railroad.
The first section to be built will be from Chatham to Wallaceburg. N.H.Stevens, William Ball, and David Gordon are interested. — The Minister of Public Works has promised that an appropriate will be seed to be considered. works has promised that an appropria-tion will be placed in the supplementary estimates for the erection of armouries at this place.—T. J. Rutley, architect, wants tenders by 26th inst. for erection of frame dwelling house.—A. M. Piper, architect, has taken tenders on a brick residence on Duluth street for Hugh Garrett.—The township of Charham is about to build an iron bridge across the Sydenham river. iron bridge across the Sydenham river, at an approximate cost of \$15,000, plans for which have been prepared by W. G. McGeorge, C. E., this city.

TORONTO, ONT.—Plans of water-works and sewerage systems to be con-structed at Gananoque, Ont., are on view at the office of Willis Chipman, C.E., Tenders close September 15th. The time for receiving tenders for the Lethbridge sewerage and waterworks system has been extended to September 12th. Plans may be seen at the office of Willis Chipman. — Mr. Jones, Street

THE CREY AND BRUCE PORTLAND CEMENT COMPANY

> of Shallow Lake, Limited. Manufacturers of

BRAND OF **PORTLAND CEMENT**

Very finely ground. Unsurpassed for Side-walks, Floors and all work requiring the Highest Grade of Portland Cement. For prices

A. D. CREASOR, Sec'y-Treas. Head Office, Owen Sound, Ont

Commissioner, is preparing estimates for the new city stables in the northern part of the city.—It is reported that Klaw & Erlanger, heads of a theatrical trust in Erlanger, heads of a theatrical trust in the United States, have secured an option on a site in the city on which to build a on a site in the city on which to build a first-class theatre. The Convocation Hall Committee of Toronto University are taking steps to co-operate with the trustees in the selection of a site and in the preparation of plans for the Convocation Hall about to be erected.—Only two tenders were received for reconstruction of the Glen road bridge in Rosedale, and it is undergood that these are in every of it is understood that these are in excess of the appropriation for the work.—Building permits have been granted as follows: William Moss, pair brick dwellings, east side Margueretta street, near Bloor, cost \$2,800; W. McCartney, two-storey brick store, corner Bathurst street and Olive avenue, cost \$3,800; H. H. Beasley, two-storey and attic brick and stone dwelling,

SCRAPERS

COLUMBUS AND WHEEL AND CANADIAN TRAC



Pressed Bowls and Square Bowls.
Also Graders,
Ocushers, Rollers, Spreading Wag-ons, Dump Carts, Road Plows, Moulds for Concrete Tile, etc., etc.

YER & MASSEY GO., LIMITED HAMILTON, CANADA.

Portland Cements

Highest Grade

Ganadian, German, English and Belgian

DRAIN PIPES and Connections of all kinds. PAVING BRICKS, ENAMELLED BRICKS, FIRE BRICKS, FIRE CLAY, Etc., Etc. 34 34

F. HYDE & CO.,

31 Wellington Street

MONTREAL



PHA Portland Cement

Quality Unexcelled. The Recognized Standard American Brand, Always Uniform. Best in the World for Sidewalks. ALPHA PORTLAND CEMENT CO, anufacturers of but one grade—Strictly Straight Portland.

General Office: ALPHA, N. J.

Sole Canadian Sales Agent **HENDERSON & TAYLOR**

65 to 73 Pearl Street, Toronto, Ont.

STRUCTURAL IRON WORKS

Fire Escapes, Library Racks, Sidewalk Door, Jail Cells, Iron Stairs, Railings, Etc., Etc.

WRITE FOR ESTIMATES.

ROPE

Carried in Stock. Supplied in any Length. Blocks, Clips, Thimbles. Special Ropes for special uses.

THE DOMINION WIRE ROPE CO., LIMITED MONTREAL

ÆMILIUS JARVIS.

EDWARD CRONYN.

JOHN B. KILGOUR.

C. E. A. GOLDMAN

MUNICIPAL DEBENTURES BOUGHT

EMILIUS JARVIS & CO. (Toronto Stock Exchange) 19-24 King St. West, TORONTO, Ont.

5 Harbord avenue, cost \$2,000; E. P. Howe, two-storey and attic brick dwelling, Ronscesvalles avenue, cost \$4,500; James Dunkley, two-storey dwelling, east side Lansdowne avenue, near Marion street, cost \$1,700; F. W. Cox, pair two-storey stone and brick dwellings, 170 and 172 Pape avenue, cost \$2,600; G. W. Milligan, two-storey and attic brick and stone dwelling. Crescent road, near Lamstone dwelling. Crescent road, near Lamstone dwelling. Milligan, two-storey and attic brick and stone dwelling, Crescent road, near Lam-port avenue, cost \$8,000; Ontario Government, addition to Normal school, cost \$5x,000, and addition to new School of Science building, cost \$31,000.

Brick Catholic church at Marmora, Brick Catholic church at Marmora, Ont., totally destroyed; loss \$1c,000. Shops of the Great Northern Railway at Quebec; loss \$75,000, covered by insurance.—Fire at Brucefield, Ont., on 18th inst. destroyed the American Hotel owned by Mrs. Murrap, residences of D. C. Campbell and Mrs. Geo. Baird and harness shop of J. Snider.—Business block at Hespeler, Ont., owned by Henry & Tate, almost totally destroyed; loss \$10,000. loss \$10,000.

CONTRACTS AWARDED.

VANCOUVER, B. C. — Ten houses on Howe street for William Suthers: Charles H. Mills, contractor.

NEWBLISS, ONT.—New church: E. A. Horton and G. E. Parslow, of Brockville, successful tenderers.

ROBERVAL, QUE.—Addition to the Ursuline Convent: Joseph Giroux, of St. Casimir, contractor.

QUEBEC, QUE.—Residence for J. Pelletier, corner Richelieu and Suther-land streets: Emile Morrisette, contractor

HULL QUE. — The International Portland Cement Co, have just let the contract for structural steel work of new factory.

MONTREAL, QUE.—New tug for Harbor Commissioners: L. A. Cie Tontbraid, of Sorel, successful tenderer, \$33,300.

WALKERTON, ONT.—Brant coun-cil have let the contract of bridge at 12th concession to Hunter Bros., Kincardine, at \$2,800.

Speight & Van Nostrand

LAND SURVEYORS, ETC. m 405 Temple Building, TORONTO, CAN. Field Notes of the late F. F. Passmore.

"CHAMPION"

Frame Mounted Rock Crusher, the Best ertable Machine for Townships or County



The Good Roads Machinery Co., Limited (Late Killey-Beckett Engine Works)

144 YORK STREET - HAMILTON, ONT. ST. JOHNS, P. Q.

ALMONTE, ONT .- New C. P. R. station: General contractor, A. C. Gilmour; stone work, George Bradford; estimated cost \$8,000.

SAULT STE. MARIE, Methodist church: Geo. Hughes, contractor \$17,000 exclusive of heating, lighting and plumbing.-Heating of new

THE PHOENIX BRIDGE & IRON WORKS.

MONTREAL

CENERAL STEEL CONTRACTORS

Large Stock I BEAMS, CHANNELS, ANGLES, TEES, ZEES and PLATES always on hand.

Consulting Engineers and Cement Work Specialists

Designing Cement Plants. Specifications and Estimates. Superintendence of Construction.

Inspection and Reports of Cement Material and Properties.
Analysis and Tests of Raw Material and Cement.

Designed and constructed 24 CEMENT PLANTS in United States and Canada 20 YEARS PRACTICAL EXPERIENCE designing, constru ng and operating cement works.

CEMENT PROPERTIES FOR SALE.

For further information address- ROBERT F. WENTZ, M.W.S.E., PRES'T

OFFICES: 12-15 Babp's Block, - - NAZARETH, PA., U. S. A. TORONTO, ONT., CAN.

Rotary Man Power Concrete Mixer



Capacity five cubic yards per hour.

Continuous in Action.

Specially adapted for Sidewalk and Street Work, and all classe of concrete work where a thorough mixture with but small capacity is required.

E. F. DARTNELL.

Sales Agent.

180 St. James Street. Montreal.



FOR

Sewers, Culverts and Water Pipes

Inverts for Brick Severs

WRITE FOR DISCOUNTS

HAMILTON, ONT.

TORONTO, ONT.

The Canadian Bridge Co., Limited

WALKERVILLE, ONT.

MANUFACTURERS OF

RAILWAY AND HIGHWAY BRIDGES

Locomotive Turn Tables. Roofs, Steel Buildings and Structural Iron Work of all descriptions

ALWAYS IN STOCK

PIG LEAD, PIG TIN AND SOLDER

Syracuse Smelting Works, montreal, P.Q.

Notice to Contractors.

The Niagara Falls Machine & Foundry Co., Limited, Niagara Falls, Ont.,

are making a specialty of improved HOISTING AND BUILDING ENGINES.
Write for Prices.

ARTIFICIAL STONE PAVEMENTS

SIDEWALKS A SPECIALTY

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

The Silica Barutic Stone Company of Ontario, Limited.

WALTER MILLS General Manager.

Head Office : INGERSOLL, ONT.



Flue Linings Fire Brick Fire Clay **Portland Cement**

Ask for catalogue and discounts.

Toronto Pottery Co. TORONTO, ONT,

Sales Agents.

PORTLAND

SAMSON BRAND

CEMENT MAGNET BRAND

MANUFACTURED BY

THE OWEN SOUND PORTLAND CEMENT COMPANY, Limited, Owen Sound, Ont.

Works at SHALLOW LAKE, ONT.

Manufacture "RATHBUN'S STAR" Brand

The Leading Canadian Portland Cement.

Capacity of Works: 500,000 Barrels Per Year.

SALES AGENTS

The RATHBUN CO.
310-312 Front Street West, Toronto, Ont.

St. Lawrence Portland Cement Co. 101-102 Board of Trade Building, MONTREAL.

LIGHTNESS, STRENCTH AND ECONOMY



Prompt attention given all inquiries. All goods built to order.

Long Distance Phones 686 and 684 W. E. SEAGRAVE, WALKERVILLE

Fire Apparatus

Road Machinery

FIRE ENGINES in five sizes, with a full line of firefighting goods

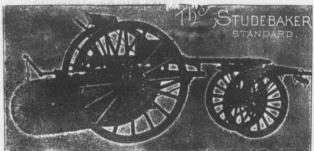
We Rebuild other makes of Fire Engines with our patent Boiler.

BRANTFORD PITTS DOUBLE ENGINE STEAM ROAD ROLLER

IN THREE 81ZE8-10, 12 and 15 ton. CORRESPONDENCE SOLICITED.

WATEROUS, Brantford, Canada

Hugh Cameron & Co., Selling Agents, 16 East Queen Street, Toron to



tackpole
Patent Improved Street Sweeping Machine to the Standard of Perfection We also make an

Because no sweeper so effectually 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 complet descriptive catalogue

Heaman, Mnfr., London, Ont



Studebaker Sprinkler

(PATENT IMPROVED.)

Does not clog or get out of order. Greatest width of spra-Can be graded from driver's seat to any volume.

IMPROVED VERTICA SPRAY

Rep

C(

R

CON

Co

R

F

TI

municipal building: Colliton & Anstey,

TORONTO JUNCTION, ONT. Hospital for consumptives on Button-wood Farm: Architect, F. H. Herbert, Toronto; contractor, D. C. Walton, this

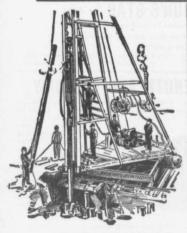
WINNIPEG, MAN .- The Canadian Northern Railway have given a contract to John Kennedy for the grading of a branch line from Swan river to Thunder Hill, a distance of 20 miles.

CHATHAM, ONT.—Residence for ohn McLellan in Chatham township: Blonde Bros. Co., contractors.—Steam heating of Harrison Hall: James Watt & Sons, successful tenderers. Work will cost abuat \$3,000.

TORONTO, ONT.—Sewers: Bernard avenue, Kendall avenue to Dupont street, \$1,916.80, and Queen street, Ashport avenue to 330 feet east, \$299, both to John McGuire; Wallace and Campbell avenues, City Engineer, \$3,281.

MEMRAMCOOK, N. B. — T. S. McManus, of this place, has been awarded the contract for repairing the Courteney branch of the Intercolonial Railway extending from the Marsh Bridge to the Ballast wharf. Over a million feet of timber will be utilized in the reconstruction. the reconstruction.

James T. Bryant & Sons, plasterers, Hamilton, Ont., are reported to have assigned.



Portable Boilers Hoisting Engines Pumping Machinery

TOLET

Bridge Building, Trestle Work, Wharves, Dams, Diving Submarine Work and General Contracting.

WM. HOOD & SON 10 Richmond Sq. MONTREAL

DEBENTURES

Municipalities contemplating the issue of Debentures will find it to their advantage to communicate with

G. A. STIMSON & CO.

Investment Dealers 24 and 26 King St. W.

THE DELANO-OSBORN ENGINEERING CO., LIMITED

MANNING CHAMBERS, TORONTO

CONSULTING CIVIL, MECHANICAL AND ELECTRICAL ENGINEERS.

Pittsburgh Testing Laboratory,

Inspecting and Metallurgical
Engineers and Chemists
SPECIALTIES: Inspection of RAILS and all
material for BRIDGES BUILDINGS, and
other structures, cast iron pipe, wood
and steel railroad cars.
Expert examination and reports, chemical
analyses and physical tests of all kinds,
Cement Testing.

146 St. James Street, - Montreal, P.Q.

ALFRED J. STEVENS

Temple Building, TORONTO.

Engines, Steel Plate Fans. Conveying Machinery, Rock Crushers.

Please mention this paper when corresponding with advertisers.

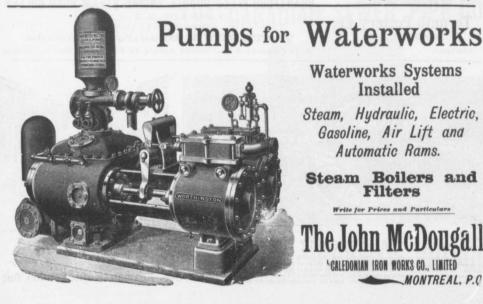


and Foundation Work.

By 5-ton Automatic Steam Pile Ham Water Jet or Drop Hammers, Dock Building, Submarine Work and Dredging.

BUILDING MOVER AND WRECKER General Contracting.

JNO. E. RUSSELL, - Toronto 908 Queen St. R.—Phone M. 2007.



Waterworks Systems Installed

Steam, Hydraulic, Electric, Gasoline, Air Lift and Automatic Rams.

Steam Boilers and **Filters**

Write for Prices and Particulars

The John McDougall

GALEDONIAN IRON WORKS CO., LIMITED MONTREAL, P.O. S.

ial

MUNICIPAL ENGINEERS, CONTRACTORS AND MATERIALS

WILLIS CHIPMAN

Hon. Grad. McGill University.

M. Can. Soc. C.E. M. Am. Soc. C.E.

Mem. Am. W.W. Ass'n.

WATERWORKS, SEWERAGE WORKS, GAS WORKS, ELECTRIC LICHT AND POWER PLANTS
Reports, Surveys, Construction, Valuations

103 BAY STREET - TORONTO

R. E. SPEAKMAN, C.E. A. M. Inst. C. E., 1878

CONSULTING ENGINEER

Waterworks, Sewerage and Sewage Disposal.
Municipal Improvements.
Godobale Pewements.
Electric Light Plants.
Drainage and Irrigation of Land.
Coal Handling Plant and Machinery.
Plans, Specifications and Estimates.
Construction and Valuations.

Canada Life Building - TORONTO

Roderick J. Parke CONSULTING ENGINEER

Hydraulic Power Development. Long Distance Power Transmission. Steam Plants, Electric Lighting and Power Systems. Tests. Valuations. Reports.

51-51 Janes Building, Cort. TORONTO, CANADA King and Yonge Street TORONTO, CANADA Telephones (Nice-Long Distance Main 3047 (Residence-Long Distance North 2004 Telegraphic address: "Rodparke." W. U. Code, Univ. Relition.

WILLIAM H. BREITHAUPT, G.E.

CONSULTING STRUCTURAL ENGINEER

Foundations, Bridges, Buildings.

BERLIN, ONT.

CEMENT TESTING

Dr. J. T. Donald fficial Analyst to the Dominion Government.

Established 1880.

Physical and Chemical Tests on all kinds of EMENTS and RAW MATERIALS. Prompt eturns and lowest rates consistent with accurate

12 St. François Xavier Street. Montreal, Canada

ROSS & HOLGATE

Consulting and Supervising Engineers

Waterworks, Electric Light and Power Plants, Structural Work, Reports, Estimates, Arbitrations.

80 ST. FRANCOIS XAVIER ST. - MONTREAL

RAILS For Contractors, Switches, Girders. &c. New and Second Hand LOCOMOTIVES & CARS

John J. Gartshore 83 I Opposite Queen's Hotel.) TORONTO.

FIREMEN'S LADDERS

-AND-

LADDER TRUCKS

We make the lightest, quickest, strongest and cheapest. Every Town and Village needs them and can afford them. They will save 50 times their price in insurance premiums. Write for circulars and quotations.

THE WAGGONER LADDER CO., Limited LONDON - -ONT.

John H. Jackson

CIVIL ENGINEER

WATER POWER, ELECTRIC RAIL-WAYS, STRUCTURAL STEEL.

Niagara Falls, Canada

Associated with Charles H. Mitchell, C. E., Hydraulic Engineer.

CHARLES BRANDEIS

Consulting Blectrical and Mechanical Engineer.

Elect c Lighting, Power and Railway Liverpool London and Globe Building, MONTREAL,

Long Distance Telephone Main 3256

Yet The Mixer Made Greatest Concrete



This is only one of 30 or more styles of machines that we make for different kinds of concrete work. 10 patents allowed, others

Mortar and **Asphalt Mixers**

Pactory, Pactory, Colicago. DRAKE STANDARD MACHINE WORKS Pactory, Office and Salestroom, 298-300-302 W. Jackson Boul. CHICAGO, ILL., U. S. A.

SMITH CONICAL **CONGRETE** MIXER

18

Different Sizes and



Mixes in Batches. Discharges by Tilting while Running. Mounted on Skids or Trucks. Catalogue on Application.

SOLE CANADIAN AGENTS

Mussen & Co., Montreal 763 Craig St.,

GANADIAN **CONTRACTOR'S** HAND-BOOK

and Estimator

Third Edition

Price \$1.50; to subscribers of the Canadian Architect and Builder, \$1.00.

SEND FOR A COPY

C. H. Mortimer Publishing Co. Toronto.

Please mention THE CONTRACT RECORD when corresponding with advertisers.

McKELVEY CONCRETE MIXERS

MANUFACTURED W. A. MCKELVEY, McKinnon Building,



These machines are made to mix either continuously or in batches, and can be operated either by Hand, Steam or Gasoline Power.

WATER WASHED SAND FOR HIGH GRADE WORK.

The Sand and Dredging Co., of Toronto, have had in operation the past season a steam barge with a sand-dredging apparatus, with a daily capacity of 80 yards of water washed sand, suitable for the best quality of concrete, mason work, brickwork, or plastering. This sand is not lake shore sand which has been rolled not lake shore sand which has been rolled along the beach for years until each grain is worn round, but it is taken from deep water, and is sharper and more angular than the best bank sand and absolutely free from any trace of loam, which is a drawback to almost all the bank sands around Toronto. Examples of the class of work which has been done with water washed sand are seen in the new Dairy Building, the foundation and cement blocks in the Art Gallery Building at the Exhibition grounds, and Spadina avenue pavement foundation, from Queen street to College street. The city engineer says he never saw a better piece of concrete laid in Toronto than the latter. Appended will be found a report of tests which show will be found a report of tests which s the advantage of water washed sand.

REPORT OF COMPARATIVE TESTS OF DIF-FERENT SANDS FOR CONCRETING PURPOSES.

All tests made with German Hercules cement. All briquettes made with same percentage of water in the mixtures. Al mixtures 3 parts sand to 1 part cement. Results are tensile strength in pounds per square inch:

Standard		Coarse Water
Quartz.	Pit Sand.	Washed Sand
24 hour test 64 lbs.	51 lbs.	52 lbs.
7 day test 177 lbs.	157 lbs.	213 lbs.
28 day test 275 lbs. Specific gravity 2,62	212 lbs.	300 lbs.
	2,67	
(Sgd.)	Chas. V	V. Dill,

Assistant Engineer. December 29th, 1902.

It will be noted that in 7 days the water washed sand showed an additional strength for same cement of 36 per cent., and in 28 days 41 per cent.

The Builders' Supply Company has been incorporated with a capital of \$100,000. S. Loynnahan and Thos. F. Sullivan, of Montreal, are interested.

BUSINESS NOTES.

Rochon & Bosquet, masons, Montreal, have dissolved.

The dissolution is announced of Parnell & Ball, plumbers, St. Catharines, Ont.

R. E. Speakman, C. E., of Toronto, has been appointed city engineer of St. Cath-arines, Ont., at a salary of \$1,500 per year.

The new plant of the Ontario Asphalt Block Company at Windsor, Ont., com-menced operations on August 12th. The plant will have a capacity of 50,000 blocks

pen day.

The George A. Fuller Construction
Company, of New York, is announced to
have decided to enter the Canadian field,
having already secured the contract for an
eleven-storey building in Winnipeg for the
Union Bank.

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

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

CONSULTING ENGINEER and EXPERT

National Trust Building Toronto
20 King Street East
Specialties—Water Supply and Sewerage.

MUNICIPAL SUPPLIES

Complete Stone Crushing Plants, 75, 100 and 300 tons per day, Road Graders, Mud Scrapers, Rock Drills, Steam Road Rollers, Gasoline Fire Engines, etc.

T. A. MORRISON & CO.

204 St. James St.

MONTREAL

WATERWORKS PIIMPS

Municipalities contemplating the installation of waterworks pumps will find it to their advantage to investigate our pumps-both as to cost and service.

Northey pumps are giving satisfaction under all sorts of conditions in scores of towns in Canada.

WE MAKE



Write or telegraph and we will send a representative to you to make a personal inspection.

Northey pumps are designed for efficient, continuous work and meet the requirements.

Morthey Company Company Simited, Foronto

.. Manufactured at. NIEL ON RUPELL

Is the Highest Grade Artificial Portland Cement and the Best for High Class Work. Has been used largely for Government and Municipal Works. TO BE HAD FROM ALL CANADIAN DEALERS

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

The KERR ENGINE COMPANY, Limited

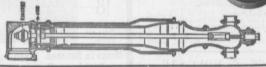
PUMPING MACHINERY

HYDRANTS and VALVES

Are our Specialty

Don't fail to write us for Catalogue and price

WALKERVILLE, ONTARIO





"Lehig Portland Cemer

Capacity 11,000 Barrels every Day in the Year. For Sidewalks and all other work re usring the highest quality Portland Cement

Used by the U.S. Government and the largest contractors and users of Portland
Cements in the United States.
Absolutely the most popular Cement in Canada on account of its merits.

For Prices, etc., address THORN CEMENT CO. - Buffalo, N. Y.

Portland Cement...

PORTLAND

Write or Telegraph to BELLHOUSE, DILLON & CO. 201-208 Coristine Building, St. Nicholas Street, Montreal

for prices---Large stock constantly on hand.

August

District

Special Flange

ALEX.

THE

Mani

Specia

Water

The

field.

or an

M.E. PERT onto

at.

ELL

REAL

660

real

tly

Ornamental and Drinking **Fountains**



Very Neat and Artistic For Man and Beast.

Iron Fences from \$1 per foot upwards. Lawn Vases, Lawn Seats and Benches, Lawn Rollers, Hitching Posts, Etc., Etc.

Send for Bulletin No. 18.

District Offices

MONTREAL

HALIFAX

WINNIPEG

VANCOUVER

VICTORIA

ROSSLAND

Montreal Pipe Foundry Co., Limited

Special Castings Flange Pipe

CAST IRON PIPE

Valve Boxes general Supplies

Works at:

LACHINE, QUE.
THREE RIVERS, QUE
LONDONDERRY, N. S.

Combined daily capacity: 175 Tons Pipes and Castings.

HEAD OFFICE CANADA LIFE BUILDING.

MONTREAL

ALEX. GARTSHORE, President. J. G. ALLAN, Secretary and Treasurer. Jas. Thomson, Vice-President and General Manager.

LIMITED.

Manutacturers of:::

Flexible and Flange Pipe, Special Castings and all kinds of Waterworks Supplies

GAST IRON PIPE

3 inches to 60 inches diameter.

For Water, Gas, Culvert and Sewer

HAMILTON, ONT

Paving Granite

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

Address all communications to

JOS. BRUNET - COTE DES NEIGES, MONTREAL

M. BEATTY & SONS WELLAND, ONT.

Dredges, Ditchers, Derricks and Steam Shovels

of various styles and sizes to suit any work.

Submarine Rock Drilling Machinery Submarine Rock Drining Machinery Hoisting Engines, Suspension Cableways Horse-Power Hoisters, Gang Stone Saws, Centrifugal Pumps for Water, Sand and Gold Mining, and other Contractors' Plant.

Prices of Building Materials.

PRESSED BRICK, Per M.
MILTON PRESSED BRICK AND SEWER PIPE C | MILTON PRESSED BRICK AND SHWER PIPE CO. | P.O.B. | P.O. Backing. L. G. Backing. L. G. B.

DON VALLEY PRESSED BRICK WORKS.

NOS. 1 and 2 Buff Pressed Bricks.

NO. 1 Brown Pressed Brick.

NO. 1 Brown Pressed Brick.

NO. 1 Brown Pressed Brick.

Ornamental Bricks of all kinds for Mantel purposes.

Groun Terra Cotta Bricks for lining.

Grind Street Parallel Bricks for lining.

Grind Bricks of Bricks.

Grind Bricks of Bricks.

Common Stock Red and Grey Bricks

tewer Bricks.

one for Macadamized Roadways.

SOROHTO PRESSEND BRICK AND TREES COTTA Please write to heave 34 Toronto st., T SORONTO PRESSED BRICK AND TERRA COTTA WORLD F.O.B. F.O.B. Milton, Ont. Montreal Red No. t. 18 50

" 2 10 50

" 3 8 50

Buff No. 1 15 00

1 3 0 00

Brown 20 00

Roman Red. 30 00

" Buff. 30 00 18 00 16 00 14 00 20 00 18 50 35 50 30 50 33 50 40 50 12 00 11 50

oofing Tiles, \$20.00 per 1,00	10, \$23.00 Moi	ntrea
BEAMSVILLE BRICK AND	TERRA COTT	A CO.
	F.O.B. Beamsville.	F.O.B. Montreal.
Red Peerless Facing	\$15 00	\$20 50
14 No.1		18 50
" No. 2	11 00	16 50
" No. 3	8 50	14 00
Brown Peerless Facing	20 00	25 50
" No. 1		23 50
Buff Peerless		25 50
" No. 1	18 00	23 50
" No. 2	15 00	20 50
Moulded and Ornamental B	ick from \$3 to	\$10 per C:
Roman Red (Size to VAVIL	in.). af on	33 50
" Buff " "	28 00	33 50
Buff " "	. 34 00	39 50
		23 50
Vitrihed Paving Brick No. 1.	15 00	20 50
Sewer	6 50	18 00
Roofing Tile		26 00
FIRE B	RICK	
TORONTO POTTERY CO.	F. O. B. T	oronto
	Car lots	Less
Boyd	21 00 M.	26 oo M.
W. W. Co.	24 50 M.	28 50 M.
Savage Crown	28 50 M.	32 00 M
STON	-	
SIUN	Toronto.	. Montreal
Common Rubble, per totse,	Loronto	monerear
delivered at building	** **	11 00
delivered at building	13 50	11 00
Large flat Rubble, per tolse, delivered		-9
delivered	14 00	18 00
Foundation Blocks, per c. ft.	30	50
Granite (Stanstead) Ashlar, 6		
in. to 12 in., rise oin., per ft,		25
Amherst Red Sandstone		100
Amherst, N.S., per cub. ft.	85	70
Sackville. N. B., brown stone		
f. o. b. Quarries	35	45
Masillon	30 00	
Stanstead granite paving		
blocks, 8 in. to va in. x6 in.		
x4% in. per M		50 00
Granite curbing stone, 6x		
20 in. per lineal foot		70

Portland Ceme

HIGH GRADE GERMAN BRANDS FOR GRANOLITHIC AND ARTIFICIAL STONE SIDEWALKS.

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

Dominion Bridge Co., I

P. O. Address, MONTREAL, P. Q. Works at LACHINE LOCKS, P.Q.

For Railways and Highways Piers, Trestles, Water Towers Tanks, Buildings, Roofs, Girders, Beams and Columns .

Toronto Agent : GEO. B. EVANS. 38 Canada Life Bldg., TORONTO, ONT

CEMEN DRTLAND



SEWER PIPES FIRE BRICKS FIRE CLAY

ALEX. BREMNER

50 Bleury Street, MONTREAL

P. CURRIE & CC

345 St. James St., Montreal

SEWER PIPES.

CULVERT PIPES, ETC. VENT LININGS, FLUE COVERS,

> FIRE CLAY, WHITING.

FIRE BRICKS.



PORTLAND GEMENTS.

HIGH GRADE ENGLISH GERMAN

> BELGIAN PLASTER OF PARIS

> > BORAX,

CHINA CLAY.

	Toronto. M	Iontreal.
Buctouche Olive Freestone	85	65
Olive Sandstone (Indian-	-03	-3
town, N. B)	80	70
Brown Sandstone (Sack-		
ville, N. B	80	70
Moat red sandstone, per		
cu. ft Black Pasture buff stone,		60
Black Pasture buff stone,		
per cu. II.		50
Nova Scotia blue grey, per cu Coursers, 4 to 6 in. bed, f.	. It.	05
b., St. Mary's. per cord	0.	
Pooting, 21/2 to 3 in. wide, 6	I 4 00	3 00
thick, per running foot	70	
Bridge Stone, 10 to 13 in. thi	cle	
f. o. b. St. Mary's, per cor	d 6 00	9 00
Granite (Laurentian Pink) A	sh-	
lar,6 to 2 in., rise 9 in., per	cft.	25
Dimension Stock Granite, (I	AUT-	
entian Pink) for building'	pur-	
poses, per c. ft., f.o.b. quar	ries	40
Do., for polishing purposes	up	
to 2 tons weight, per cubic;	Joot	70
	F.O.B.	Halifax
Dimension stock granite		Toronto Marie
building purposes, per cu	. ft.	50
Do., for polishing purposes,	up	
to a tons weight, per cubic	ft.	1 00
Paving sets, per thousand bl	ock	60 00
CREDIT VALLEY	STONE.	
	F.O.B. 0	marriae
Rubble, per ton	2.0.D. V	60
Brown Coursing, up to 10	per	- 00
sup, yard		2 00
Brown dimension, per cub.	ft.	70
Grey coursing, per sup. var-	1	1 25
Grey dimension, per cub. f	L	50
SLATE.	Toronto.	Wantraal
	roronto.	montiest
Roching (# square).		
red	30 CO	80 00
purple unfading green	9 (0	10 00
olack	10 00	11 00
Tena Cotta Tile per sq	9 00	9 00
Ornamental Black Slate Roofing		25 00
Diete 2 coming	477 77	

			Montreal.	
PORTLAND	ORM	ENT.		
English-				-
Brook's Shoobridge Ancho	5 3	2 40	2 00	2 10
Excelsior Brand				3 15
Belgian -				
"Castle" Brand			3 10	2 . 2
" Josson" Brand	2 60	2 70	2 30	2 45
"North's Condor	2 40	250	2 10	2 15
"White Cross "	2 15	2 20	1 85	1 95
Atlas	2 50	2 70	2 25	2 30
Hammer "			1 8o	1,90
Samson			1 80	1 90
V d Cross Brand				1 90
Waterloo "				2 20
Waterloo "Racvel's 396 lb. bbl				2 55
Levie Bros., " White Star				2 50
White Star	2 25	2 55	2 06	2 10
Gern n				
Off-n acher Brand	2 80	2 90	2 30	2 45
Dyckerhoff	2 40	2 50	2 51	2 20
Karlstadt	2 Ro	2 90	2 40	250
Hercules	2 40	2 75	2 10	2 30
Нееттоот	2 40	2 50	2 10	2 15
Cannon	2 40	2 50	2 10	2 15
Heidelberg	2 40	2 50	2 10	2 15
Canadian	- 4-	- 0-		0
Star Brand	2 40	3 00		
Ensign "	2 15	2,70		
Citadel "	2 00			
Trowel "			1 75	I 80
Samson Bran 1	2 50	2 60	* 75	1 00
Magnet '	2 30	2 40		
Monarch "	2 10	2 40		
Hercules "	2 40	2 50		
Lion Brand	2 25			
American—	2 23	2 35		
Alpha Brand				- 4-
	2 45	2 50	2 50	
Alsen's	2 50	5.0	2 25	2 35
Lenigh, in bble., 375 lbs.		2 00		2 50
" cotton sacks, 250 net		2 20		250
rapei bags		2 0		2 35
Kanne's "uperfine "Whites"	10 00		9 00	
Keene's Coarse "Whites"	6 50	7 00		7.00
Fire Bricks, Newcastle, per M	27 00	32 00	18 00	
" Scotch "	28 00	33 00	17,00	33
Lime, 100 lbs., Grey White		30		
Plaster, Calcined, N. B		2 00		2 00
U U N.S		2 00		9 00