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Vol. 3.

Toronto and Montreal, Canada, April 23, 1892.

No. 11

#### THE CANADIAN CONTRACT RECORD.

Weekly . ournal of Public Works, Tenders, Advance Information and Municipal Progress.

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

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

C. H. MORTIMER, Publisher,

14 KING ST. WEST. - TORONTO, CANADA.
Telephone 2362.

64 Temple Building, -Bell Telephone 2299. Montreal

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

ADVERTISING NATES ON APPLICATION.

#### TENDERS WANTED.

Tenders will be received at the office of the undersigned until SATURDAY, APRIL 23RD, 1892, for the erection of a pair of semi-detached houses on Huron street, near Lowther avenue.

The lowest or any tender will not necessarily be accepted. Contractors will be required to furnish satisfactory evidence of their ability, financial and otherwise, to properly execute the

S. H. TOWNSEND, A.R.C.A.. 53 King St. East.

#### TENDERS WANTED.

Tenders will be received at the office of the undersigned until MAY 6711, 1892, for the several works necessary in alterations and additions to a Residence on St. Alban's Street Plans may be seen at the office on and after Wednesday,

April 27th.

The lowest or any tender will not necessarily be accepted. Contractors will be required to fur nish satisfactory evidence of their ability, financial and otherwise, to properly execute the work

S. H. TOWNSEND. Architect. 53 King Street East.

## Notice to Contractors.

Tenders will be received addressed to the undersigned up to noon on WEDNESDAY THE 27711 INST., for the following water works supplies

About 100 tons cast iron water pipes.

- nat 100 tons east iron water pipes,
  5 tons special eastings.
  10 b inch valves.
  6 4 inch valves.
  500 service cocks as per sample,
  6 tons lead pipe.
  350 service boxes,
  1000 feet galvanized iron pipe.

Any information required will be given on application to the City Engineer.

The above quantities are only approximate and the Committee will only bind themselves to take what they actually require, and the Committee do not bind themselves to accept the lowest or any tender.

N. C. POLSON. Chairman Water Works Committee. Water Works Office, Kingston, April 12, 1892.

#### TO CONTRACTORS.

Tenders received at the office of the undersigned until noon of APRIL 301H, for the erection of a Terrace of Five Houses of West Street. Lowest or any tender not necessarily accepted. Plans and specifications may be seen at our office.

\*\*COMPART OF THE PROPERTY OF THE

Lion Block, Kingston, April 2 st

### TO CONTRACTORS.

Tenders will be received at the office of the under signed until noon of MAY and, for work required in making certain alterations and improvements to St. John's Chu ch, Portsmouth. Lowest or any tender not necessarily accepted. Plans and specifications may be seen at our offices on and after the 27th inst.

POWER & SON, Architects
Lion Block, Kingston, April 2181.

### TENDERS

Will be received by undersigned up to 5 o'clock p.m. THURSDAY, 28 ril INST., for the several works required in the erection of a Brick House on north side D'Arey Street.

The lowest or any tender not necessarily ac-

STRICKLAND & SYMONS, Architects, 18 Toronto Street.

# ELECTRIC LIGHTING.

Tenders will be received at the office of the Town Clerk, Chatham, Ontario, up to 12 o'clock noon, of THU RSDAY, THF 28TH DAY OF APRIL, INST., for lighting the streets of the Town of Chatham by electricity.

The number of lights required; number of times to be lit during the year, how long each night, and duration of contract, will be made known on application at this office.

The Council will reserve the right to purchase the plant at any time after completion, and also the right to reject any or all tenders.

JOHN TISSIMAN, Town Clerk.

Town Clerk's Office, Chatham, Ont., April 7th, 1892.

## LIQUIDATOR'S AUCTION SALE

OF VALUALE LEASEHOLD PROPERTY AND

#### Terra Cotta and Plaster Goods, etc.

WEDNESDAY, 27th APRIL, 1892. at ri a.m.

There will be offered for sale at public auction at the premises of the Hynes Terra Cutta and Brick Company, Esplanade, foot of Jarvis street, To onto, by Messra, Oliver, Coate & Co., the following assets of the said

Oliver, Coate & Co., the following assets of the said company:

Parcel 1—Stock of manuf ctured Terra Cetta, very complete, parcel 2— oll stock of moulds and models, for se in manufacture of Ter a Cotta; parcel 3—Valuable plaster, models and cases all mounted and in good order; parcel 4—ito, b of manufactured centre flowers and brackets; parcel 5—Leachold property in the City of Toronto, being water lot, having thirty-three feet frontage on the south side of Laplanade treat the foot of Jarvis) extending to the windmill it with two kins and builtings erected thereon, and soiler, engine, pugmills, 'and presest, and a quantity of s'affing, beiling and pulley. Itso office furniture, safe, etc.

The whole of the said assets together with the good will of the business of the company, w. I be offered first en the and if in two wild with the be offered first en the and if in two wild with the premises between to and 12 octock moon each day until the date of sale. Inspection can be made on application to H. W. SMITH, Lequidator, Wickham, Thomson & Firigerald, Solicators, 6: Canada Life Buildings or to Oliver Coate & Co., Auctioneers.

### TENDERS

Will be received until the 30TH INST., for the erection of a HOUSE IN ROSEDALE

CHAS J. GIBSON, Architect, 9% Adelaide St. East, Toronto.

## CIVIL ENGINEER WANTED

Applications addressed to the undersigned will be received up to 6 o'clock p.m. THURSDAY APRIL 28711. 1892, for the position of Fown Engineer and Surveyor to take charge of the Engineer's Department of the Town of Toronto

The appointee to hold office during the pleasure of the Council.

of the Council reserves the right to reject any or all applications.

For full particulars regarding the position, apply to J. H. Hoover, Chairman of the Comapply to J. H. mittee on Works

Applications to be marked "Engineer's Appli-

ROBE, 1 LEIGH, Town Clerk, P. O. Box 405.

## Toronto Junction, April 21st. 1862.

CONTRACTS OPEN. . PORT HANRY, MAN. The C. P. R. will erect a station here.

ST. ROSE, OUE -A new Protestant Church is being erected at this place

TRENTON, ONT .- The Proctor House lately destroyed by fire, will be rebuilt.

LOCH WINNOCH, ONT.-The Presbyterians have decided to build a new church.

SARNIA, ONT .- The Curling Club contemplate erecting a new rink to cost \$3,500.

FLEMING, MAN. - Plans have been prepared for a new station to be erected by the C. P. R.

ELEBORN, MAN. The plans for the new school house are waiting approval by the Gov., nment. NAPINAA. MAN. — The citizens are aguaing for a bridge across the Souris river at this place.

Ashtekort, B. C.—Subscriptions are being solicited for a new Presbyterian church to be crected here.

ARNURIOR. ONT — The Baptists have secured site and will build a handsome crutch at an early date.

ACTON, ON1. Mr. Joseph McClure is about to unid a new dwelling on the corner of Church and build a new dw Wilbur streets.

DURHAM, ONT,— The Rev. Father Cassin has purchased the Humber Estate and will transform it into a church

BRADIORD, ONT.—Plans for the new High School building have been approved and tenders will be called for shortly.

MILLHANK, ONT -J R. Jones is calling for tendets for a brick school house. Plans at the office of A. Hepburn, architect, Stratford.

WOODSTACK, ONT G C Eden Town Clerk will receive tenders until the 30th first for the purchase of debentures to the amount of \$145,000

Coll is Gwood. Ost - The Property Committee wishes to obtain plans and estimates for a system of heating by steam for the market building

SHEEBURNE, ONT. - Thos. J. Watson will re-ceive tenders up to May 7th for the erection of a brick Orange Hall. Plans and specifications at his office.

PERTH, ONT.—The ratepayers will sole on a by-law on the 9th of May to grant a bonus of

\$11,000 to Robt Gemmell  $\mathcal{R}$  ( o. to even a woollen factory,

WINDSOR, ONT - The Council has decided to make extensive alterations to the town hall. The Public School Board will erect new school build ings near Crawford avenue.

St. JOHN, N. B. The citizens have decided to memorialize the Dominion Government to erect and equip a grain elevator here similar to the one the Government built in Hahlax.

SEBRINGVILLE, ONT.—Geo, Hamilton, Secretary, will receive tenders until May 4th next for the erection of a mill, bath, granary and weigh house for the Schringville Flax Company

CHATHAM, ONT.—Plans have been accepted for the new chutch which the congregation of the First Presbyterian church propose to erect. The building will cost in the neighborhood of \$25,000.

NORWAY, ONT.—At the annual vestry inceting of St. John's church held recently, a commutee was appointed to proceed with the erection of a new church—Rev. C. Ruttan—rector.

RAT PORTAGE, ONT.- Plans are being pre-pared by Mr. C. H. Wheeler, architect, of Win-ingeg, for the new St. Albion church to be erected in this town. It will be constructed of stone and will cost \$10,000.

MONCTON, N. B.- Mr. W. H. Faulkner has decided to erect a three story brak building on Main street. The general offices, machine shop round house and station of the Intercolonial Righ way are to be lighted by electricity.

VANCOUVER, B. C. - A. C. P. R. engineering party are making a survey of the route for the new railway from Revelstoke to the 1 pper Action lake, which is the first section to the line proposed to be constructed to Kootenay lake.

to be constructed to Kootenay mass.

Torrow Just Tion, ONT - It is stated that ar rangement, have been made with a Montreal synthesis about a street tailway. The dicate to build an electric street railway. The line will run along Dundas and Keele streets to Davenport Road, and thence to Toronto.

Davenport Road, and thence to Toronto.

PEMDROKE, ONT,—Mr. C. W. Spence, of the C. P. R. was in town recently consulting with the Council about the construction of bridges across the mouth of the Muskrit river—A water works system is again being agianted with a fair prespect of the by-law being carried.

STRATHROY, ONT,—The Fire and Water Committee are considering the advisability of recommending that a system of water works be constructed at once, and are holding communication with several towns and clines in the province with the view of severing the best system.

Ottawa, ONT—With South, Deputy Mins.

the new of seeming the best system.

OTTAWA, OS1—Win Smith, Deputy Minister of Marine, will receive lenders until the 14th May next, for the construction of four automatic whistling buoys three bell buoys and six can buoys four feet in diameter. All made of iron or steel, delivered as follows: two of the whistling buoys and all the can buoys at Halifax, the othertwo whistling buoys and the beh buoys at St. John, N. B. Plans may be seen at the Department of Public Works, this city, and at the agencies of the department. Halifax and Pictor.

KINGSTON, OST—The bill to morrograft the

agencies of the department, Halifax and Pictou KINGSTON, ONE—The bilitto incorporate the Kinston belt line railway company has been read a first time before the Private Bills Committee in Parliament. The pentioners are B. W. Folger, R. Crawford, R. P. Curtis, and H. D. Titus, They want permission to operate a railway of the gauge of four feet and one half inches from a point distant as the company desires including Cataraqui and Pertsmouth. The capital stock of the company will be stoo ood. They purpose to build elevators, storchouses warehouses, eugine houses, shells, wharves and piers.

London, Ont.—A clint house is to be exercted.

LONDON, ONT -A child house is to be erected here for the Veung Leberals Association - Mr. J. D. Sharman will erect a residence on the corner of St. James and Richmond streets, to cost \$2,000 - The Park Avenue Presbyterian congre-53,000—The Park Avenue Prestyterian congre-gation are biving plans perpared for alterations and extensions to their church. The plans in clude a new front and tower, higher walls, etc.— Three cortages are to be built on Hynan street for Mr. Stephen B, Coon.—Mr. D. Wade will erect a two-storey brick house on the corner of Adelaide and Grosvenor streets.—Mr. O. Graydon will receive tenders until the 20th inst. for the construction of cloak rooms at the Collegiate Institute.—Tenders will be received at the office of the Water Works Engineer until the 26th inst. for painting the buildings at Springbank.—G. Craddoch, architect, will receive tenders until noon to day for the erection of a residence on the corner of Oxford and Wellington streets.

HAMILTON, ONT. - A new church is to be erected in the Parish of St. Peter, in the northeast end of the city.-Mr. Jas. Balfour, architect, is preparing plans for a handsome new residence for Mr. Geo T. Tuckett, to be erected on the block bounded by King, Queen, and George streets, to cost about \$25,000. The plans will be completed and tenders called for at an early date. - The City Clerk will receive tenders until noon to-day for the erection of the maternity hospital. Plans at office of Lucian Hills, architect, 113/2 King street east.-Building permits have been granted as follows during the past week. Hamilton Street Railway Company, bk, power house on Guise street, cost \$15,000; Thomas Smith, a-storey bk. dwelling on West avenue north, between Wilson and Evans streets, cost \$1,200. George Behrens, 134-storey bk, dwelling on Wentworth street, between Cannon and Barton streets, cost \$800.-R. Clohecy, architect, wants tenders for the erection of a brick residence on Grant avenue.

TORONTO, ONT. -The enlargement of the church of St. John the Evangelist, corner Stewart and Portland streets, is contemplated. The erection of a new edifice is also spoken of.-Mr. John I. Beer has purchased and torn down the Bull's Head hotel, on the corner of Niagara and Douro streets, on the site of which he intends to erect a new building to cost about \$28,000 -Tenders are wanted at 751 Manning ave. until noon to-day for slating, roofing, plastering, plumbing, painting and drains, -A proposition to enlarge St. Simon's church on Howard street was discussed at its vestry meeting held recently. It was decided to extend the church in a westerly direction, and to make additions to the transepts. These improvements will cost in the neighborhood of \$5 000 -Mr M Morgan Harbor Master will receive tenders until Wednesday, the 27th inst., for dredge ing at the western channel of the bay. Plans at the Harbor Master's office.-Mr. Rogers, 327 Church street, is about to build a residence on his property adjoining.-A fine residence is to be built on De Lisle avenue. Deer Park, for an American gentleman. Messrs, Bonnick & Duke are looking after the work .- Extensive additions to the Bellamy Works at Scarboro are to be carried out.—Building permits have been granted to the following. E. A. Forster, det. 2-storey bk. dwelling, e. side Doa Mills rd, nr. Danforth rd., cost \$1.500: R. Watt. 2-storev bk. store and dwelling, 163 Brunswick ave., cost \$2.200, Urquhart & Smith, det. 2-storey and attic bk. dwelling, n. side King st . west of Jamieson ave. cost \$4 500 Teagle & Darwent, 332 Clinton st., three att two storey and attic bk. dwellings, 114 Palmerston ave., cost \$6,000; Jas. Crowther, pr. 2-storey and attic bk. dwellings, s. side Wood st., nr. Yonge, cost \$3,800, and three att. 2-storey bk. stables, in rear s. e. cor. Yonge and Wood sts., cost \$2,500, Land Security Co., 3-storey bk. office building, s. w. cor. Victoria and Adelaide sts., cost \$10,000.

MONTREAL, QUE.-The Council of the Board of Trade has decided to memorialize the Dominion Government with a view of securing a subsidy for a line of steamers plying between the St. Lawrence and the West India islands.-Messrs. Roy & Gauthier, architects, are preparing plans for the following works. R. C. church at Aylmer, Que., Church of St. Joachim, at Shefford, Que.; R. C. church at Stanbridge, Que.; R. C. church at Pakenham, Ont.: church at St. Albert, Ont.: R. C. church at St. Prudentienne, Que., church at West Manchester, U. S.; church at Fitchburg, Mass., U. S .- The City Clerk will receive tenders until Tuesday, the 26th inst., for the supply of bricks, cement, lime, lubricating and other oils, cotton waste, packing, lamps, hardware, and lumber required by the Water Works Department, also for 40 tons of best soft pig land, to be delivered at the water works yard, St. Charles Borromee street.-L. J. Seargeant, General-Manager Grand Trunk Railway, will receive tenders until the 31st May, for stores of various kinds required by the company at Montreal, London, Hamilton and Portland during twelve months commencing July 1st, 1892.—The trustees of Erskine church have had plans prepared for the improvement of the building. They were submitted and considered recently, but nothing definite was decided upon. The church authorites will meet again at any early date to consider the matter.-The City Clerk will receive tenders until Thursday, the 28th inst., for repairs to the Bousecours market.-Theo. Daoust, architect, is preparing plans for the following works. Residence for A. Valequette; eighteen cottages for T. Barbeau at Point Claire; three tenement dwellings on St. Denis street for Mr. R G. Martineau: tenement on St. Hurbert street for Mr. D. Renand; two tenements on Maple street. -St. James Club is talking of spending \$50,000 on improvements to their building .- W. E. Doran, architect, is calling for tenders for the erection of two stores on St. Catherine street.

#### FIRES.

Mr. Wm. Wilson's residence near Dorchester Station, Ont., was burned on Wednesday last, loss \$1,200.-The outbuildings of the Methodist church at Cataraqui, Ont., were destroyed by fire on the 19th inst - The large grain warehouse and elevator at Cobourg, Ont., occupied by W. D. Matthews & Co. of Toronto, was burned on Tuesday last. The building was owned by the Grand Frunk Railway Company. Loss \$2,000, insurance \$1,200,-Cozens & Bell's saw mill and machine shop at Sault Ste. Marie. Ont. was destroyed by fire on the 19th inst loss \$6,000 no insurance Mr. P. Christie's shingle mill at Severn Bridge, Ont., was destroyed by fire on Thursday Loss, \$3.000; insurance, \$2,000.—The Anglican church at Northfield Centre, Ont., was burned on the 11th inst.

#### CONTRACTS AWARDED.

ORILLIA, ONT.—Mr. G. R. Eaton, of this town, has received the contract for the new post office.

[ [SMITE STALLS, ONT.—The contract for erecting the market building has been awarded to Mr. M. Ryan

LACHINE QUE The Council has awarded the contract for the electric light plant to the Edison General Electric Company.

OWEN SOUND, ONT.—Messrs, T. B. Horton & Son have been awarded the contract for the Beech street sewer at \$999.75

FORT WILLIAM, ONT.—The contract for the new Hudson Bay Company's store has been awarded to Mr. John Saul of Winnipeg.

WROXETER, ONT.—Mr. W. Davidson has been awarded the contract for the building of a \$5,000 brick church for the Presbyterians of this place.

HAMILTON, ONT.—The Hamilton Bridge & lool Co., has secured the contract for the ironwork for the electric power house for the street railway company.

PRESCOTT, ONT.—The contract for the erection of the new Presbyterian church has been awarded to Messrs. Ward & Steele. of this place, at the contract price of \$12,600.

TORONTO, ONT.—The Water Works Committee have accepted the following tenders for supplies: iron and steel. Rice Lewis & Son. brass work, Wilson & Cousins. lumber. Reid & Co., general stores, F. W. Mernit, pipe laying, Burns & McCommack; oil, McColl Bross.

MONTREAL, QUE. - W. L. Thomas, architect, has awarded the contracts for the Temple Emmanuel on Stanley street, as follows; masonry and carpentry, Jark & Tate; Roofing, Montreal Roofing Co..; plumbing and heating, F. Horton; plastering, J. McLean. - Messrs. Taylor & Gordon, architects, have accepted the following tenders for McGill College library: masonry, Peter Nicholson; brickwork, A. Cowan; carpentry, Geo. Roberts; roofing, G. W. Reed; heating, Garth & Co.,; plastering, Morrison & Son; painting John Murphy. - Theo. Daoust, architect, has awarded contracts for store and dwelling at Point Claire, as follows, masonry, W. Mayer, carpentry, M. Mayer .- Jos. Hanes, architect, has let contracts for two stores on Bleury streer 25 follows: carpentry, H. Demeris; masonry, N. Duforte, -W. E. Doran, architect, has awarded contracts for the erection of three houses for Mr. Strachan, Valois, Que.

## ROPES A SUBSTITUTE FOR MOLDINGS.

It is not known, probably, that new manilla rope will make beautiful and economical spiral moldings for wood-work. Rope may be used as spiral moldings in circular and curved work where wooden molding could not be employed without incurring extraordinary expense. The cash cost of rope will not usually amount to half the price of spiral moldings of the same size. Whatever may be the size selected, the rope should be soaked for a few hours in thin starch and glue, equal parts thoroughly mingled together. When the rope is to be nailed in place, take it from the vessel in which it has been placed and wipe off all the adhesive matter; then secure one end with a brad or two, and twist the rope until the spiral strands appear more prominent than when a rope is not twisted firmly. After the molding topes are secured where they are to remain, take a small stick of hard timber, dressed off like a three square file, and draw the stick firmly in the creases between the strands of the rope, in order to make the strands appear more prominent. Such moldings may be finished with wood-filler, painted and varnished. Some prefer to soak the ropes in boiled oil instead of thin starch and glue. But oil will be more expensive, and no better than the other material. The writer observed recently the columns and pilasters of an elegant suburban villa, all of which were finished with beautiful spiral moldings made of inch rope. Manufacturer and Builder.

#### USEFUL HINTS.

To glue ebony to mahogany or other hard woods, use the finest white glue or gelatine dissolved in acetic acid or strong vinegar. The surface of the wood should be roughened.

A correspondent of the Scientific American gives the following account of his experience with mortar of which sugar was one of the ingredients :-- "We use the cheapest grade of beet sugar, costing here four cents a pound, and all lumps must be mashed up before putting in the mortar. The mortar must be dry or 'stiff' when the sugar is put in, as it makes it very soft when mixed thoroughly. We put the sugar in when we temper it for putting on the wall, and put it in the hair mortar only, or first coat, and use about forty pounds of sugar to the hundred yards. It is a little harder to put on than without sugar. But the result is we have a wall that cannot be easily damaged. We can draw a trowel corner over it, and bearing hard can only mark it. It does not crack by pounding on it, nor the clinches be easily broken off. It does not color the coat, and we can find no fault with it, while on the other hand, it is far su-perior to the unsweetened. We figure the extra cost at tour cents per yard. sand here is very poor and loamy.'

#### PERSONAL.

Mr. R. Findlay, architect, Montreal, has removed from the New York Life Building and will on and after 1st of May, 1892, occupy rooms No. 14-15, 4th floor, in the Sun Life Assurance Building.

## MUNICIPAL DEPARTMENT.

## I.EGAL DECISIONS AFFECTING MUNICIPALITIES.

WHAT CONSTITUTES THE LOWEST BID.-A decision of more than usual interest to builders and to officials awarding public contracts is that recently rendered by Judge Childs of the New York Supreme Court at Buffalo. The Buffalo water commissioners having advertised for bids on a new pumping engine required, instead of accepting the lowest bid, awarded the contract to another concern whose bid was considerably higher. A citizens' association fought the award as contrary to law, but according to the decision of Judge Childs the parties offering to furnish material or do the work advertised for at the lowest money consideration are not necessarily to be considered the lowest bidders. In the words of the judge:

"The fifth objection urged by the plaintiff is that the commissioners exceeded their jurisdiction in this, that they arbitrarily awarded the contract to the highest bidder. In considering this question, it must be conceded that the commissioners were to decide upon which was the lowest bid, and for that purpose were to consider all the facts legitimately before them; their decision being subject to review upon the same facts, and to be overthrown if so far unsupported as to indicate an arbitrary or improper act on their part; otherwise to be sustained. The single fact that the contract was awarded to the party requiring the most money for the work is not at all decisive of this question. If the successful bidder offered a machine more valuable than its competitor, it may have been the lowest bidder although requiring more money."

It was allowed that the element of risk, because the pump offered by the lowest bidder had no record and was to that extent experimental and problematical, was of vital importance and justified the commissioners in interpreting, as the most advantageous offer, the bid that on the face of it was the highest.—American Contractor.

There has been a great deal of criticism (observes Stone, of Indianapolis,) on the pavement question in American newspapers. But in American cities it is universally the practice, as soon as a pavement is laid, to tear it up again for the laying of mains and pipes. There is no pavement that will withstand such treatment. No matter how secure the foundations or how well the pavement be laid, nor of what material, it will be injured, if not ruined, by tearing it up in portions, for street purposes. In truth, the heavier the foundation and the better the work, the more it will be injured by being torn up in sections. A scheme for street improvement should include not only improvements for the moment, but should anticipate the future. It is ruinous to spend good money for one improvement to ruin it by other improvements. A municipality should include the paving with the other improvements, and when a street is improved it should be perfected. As it goes, in American cities we neither have the pavements, the improvements, nor the money they cost. They would cost less at the beginning, and would last

### MUNICIPAL ENGINEERS, CONTRACTORS, AND MATERIALS.

and water mains, and electric conduits are as much a part of street improvements as pavements, and the improvement should include the whole or none.

include the whole or none.

The bursting of water pipes by freezing forms the subject of a letter by John Tyndall in The Plumber and Gecorator, n the course of which he states that the air does not play a sensible part in the bursting of water pipes. In his early days he was accustomed to give expression to the apparent paradox that there is no such thing as real uniformity in nature. In regard to pipes considered "almost uniform," the slightest accident, says Tyndall, on the interior surface, a specy of dirt, for example, will start the crystallization at one point rather than at another. That example, will start the crystalization at one point rather than at another. That the freezing should occur with absolute uniformity throughout a water pipe he regards as physically impossible. Specs of dirt will cause some portions of a pipe to be filled by a solid plug, while other portions continue filled with water. Spaces of liquid he considers sure to occur now and then between the ice plues. occur now and then between the ice plugs, and if the latter be of any length, it would require a considerable force to push them reads of settle totally affections and settle totally affections of purchase that the tube will be torn asunder acrossing the settle totally as the settle t the line of least resistance.

#### PERSONAL.

Mr. J. C. Kennedy has resigned his position of town engineer of Owen Sound, Ont., to accept a more lucrative position at New Glasgow, Nova Scotia.

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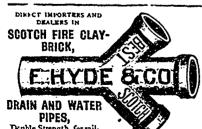
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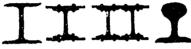
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R., f o.b	SLATING NAILS.  SIATING NAILS.  CLINCII NAILS.	Contractors' Plant and Machinery Copland & Company Rowe, Geo.  Crosnic Maline Cabot, Simuel.  Cut Mone Contractors. Adamson, Jos Curis & Rowe. Isaac Brothers.	vi II II III III	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Míg. Co. St. Johns Stone Chinaware Co. Roofing Materials Merchant & Co. Metallic Roofing Co. Samuel, Benjamm & Co. Samuel, Benjamm & Co.	v xiii v iu ii
R., f o.b	1½ " " 175 275  SLATING NAILS.  Sd, per toolbs 85 85 4d, " 85 85 3d, " 125 125  COMMON BARREL NAILS.  I inch, per toolbs 150 150 34 " 125 125  CLINCH NAILS.  1 inch, per toolbs 175 225  2 inch, per toolbs 175 175  CLINCH NAILS.  3 inch, per toolbs 85 85  3 inch, per toolbs 85 85	Contractors' Plant and Machinery Copland & Company Rowe, Geo.  Creaste Maine Cabot, Samuel.  Cut Stone Contractors. Adamson, Jos Curis & Rowe. Isaae Brothers. Oakley & Holmes.	vi II II III III	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Míg. Co. St. Johns Stone Chinaware Co. Rtoofing Materials Merchant & Co. Metallic Roofing Co. Samuel, Benjamin & Co. Sanitary Appliances Booth & Son. Sanitas Míg. Co.	v xiii v iu ii x x x
R., f o.b	1½ " " 175 275  SLATING NAILS.  Sd, per toolbs 85 85 4d, " 85 85 3d, " 125 128  2d, " 125 128  COMMON BARREL NAILS.  I inch, per toolbs 175 175  CLINCH NAILS.  CLINCH NAILS.  inch, per toolbs 175 125  215 225  CLINCH NAILS.  inch, per toolbs 175 125  225 225  CLINCH NAILS.  1 inch per toolbs 175 125  225 225  Linch nails 185 85  2½ and 2½ " 100 100  2 and 2½ " 115 115	Contractors' Plant and Machinery Copland & Company Rowe, Geo. Creaste Maline Catos, Samuel. Cut Stone Contractors. Adamson, Jos Curtis & Rowe. Isaae Brothers. Oakley & Holmes. Chimney Topping. Bremner, Alexander.	vi II III III III IV	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Míg. Co. St. Johns Stone Chinaware Co. Roofing Materials Merchant & Co. Metallic Roofing Co. Samuel, Benjamm & Co. Samuel, Benjamm & Co. Sanitas Míg. Co. Lves & Co. H. R.	v xiii v in ii x x x v v IV
R., f o.b	1½ " " 175 175  SLATING NAILS.  Sd, per toolbs 85 85  4d, " 85 85  3d, " 125 123  2d, " 175 175  COMMON BARREL NAILS.  1 inch, per toolbs 150 150  ½ " " 175 175  CLINCH NAILS.  2 inch, per toolbs 150 250  2 23d 2½ " 100 100  2 23d 2½ " 100 100  2 23d 2½ " 115 115  1½ and 1½ " 120 200 200  1 100 250 250	Contractors' Plant and Machinery Copland & Company Rowe, Geo. Creosote Malus Cabot, Samuel Cut Stone Contractors. Adamson, Jos Curtis & Rowe Isaac Brothers. Oakley & Holmes. Chimney Topping.	vi II II III III II IV xiv	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Mig. Co. St. Johns Stone Chinaware Co. Roofing Materials Merchant & Co. Metallic Roofing Co. Samuel, Benjamin & Co. Sanitary Appliances Booth & Son. Sanitas Mig. Co. Ives & Co., H. R. St. Johns Stone Chinaware Co. Roofers	v xiii v iu ii x x v V IV tx
Ri, f o.b.	11/4 " " 175 175  1 " " 225 225  5d, per toolbs 85 85 4d, " 85 85 3d, " 125 125 2d, " 175 175  COMMON BARREL NAILS.  1 inch, per toolbs 150 150 3/4 " " 175 175  CLINCH NAILS.  2 (LINCH NAILS.  2 (LINCH NAILS.  3 (LINCH NAILS.  4 100 100 2 2nd 2/4 " 100 100 2 2nd 2/4 " 115 115 1 1/4 and 1/4 " 115 115 1 1/4 and 1/4 " 12 00 20  SHARP AND FLAT PRESSED NAILS.  3 SHARP AND FLAT PRESSED NAILS.	Contractors' Plant and Machinery Copland & Company Rowe, Geo. Creosote Status Catos, Samuel. Cut Stane Contractors. Adamson, Jos Curis & Rowe. Isaac Brothers. Oakley & Holmes. Chimney Topping. Bremner, Alexander Curic & Co., W. & F. P. Hansen, Harald M. Consulting Engineer.	VI II III III III IV xiv xii	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Míg. Co. St. Johns Stone Chinaware Co. Roofing Materials Merchant & Co. Metallic Roofing Co. Sanuel, Benjamin & Co. Santitary Appliances Booth & Son. Sanitas Míg. Co. Ives & Co. H. R. St. Johns Stone Chinaware Co. Roofers Duthie & Sons, G. Forbes, Duncan.	v xiii v iii ii x x x v v v IV yx III III
Ri, f o.b. 100 River John, N. S., brown Freestone, per cu ft. f.o.b. 95 Ballochmyle 105 New York Blue Stone. 105 Granite (Stanstead) Ashlar, 6 in, to 12 in, rise gin, per ft. 70 Mowat Freestone. 70 Credit Valley Rubble, per toise, delivered 1300 1400 Credit Valley Brown Coursing, per superficial yard. 250 300 290 Credit Valley Brown Dimension, per cubic foot. 90 Credit Valley Grey Coursing, per superficial yard. 150 200 215 Credit Valley Grey Dimension, per cubic foot. 75 Badoc Rubble, delivered, per thise. 75 Madoc dimension floating, ft. 1400 1450 1400 1450 Madoc dimension floating, ft.	1½ " " 175 175  SLATING NAILS.  \$5d, per toolbs	Contractors' Plant and Machinery Copland & Company Rowe, Geo. Cerosote Maline Cabot, Samuel. Cut Stone Contractors. Adamson, Jos Curris & Rowe. Isaac Brothers. Oakley & Holmes. Chimney Topping. Bremner, Alexander Curie & Co., W. & F. P. Hansen, Harald M. Consulting Engineer. Barry, A. B. Drain Pipe	VI II III III III IV xiv xii	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Míg. Co. St. Johns Stone Chinaware Co. Roofing Materials Merchant & Co. Metallic Roofing Co. Samuel, Benjamin & Co. Sanitary Appliances Booth & Son. Sanitary Appliances Booth & Son. Sanitary Mig. Co. Ives & Co. H. R. St. Johns Stone Chinaware Co. Roofers Duthie & Sons, G. Forbes, Duncan. Metallic Roofing Co. Husson W. D.	v xiii v iii iii x x x v V V V V V V V V V V V V V V V V
R., f o.b	1 " " 175 175  SIATING NAILS.  Sd, per toolbs	Contractors' Plant and Machinery Copland & Company Rowe, Geo. Creante Mains Cabot, Samuel. Cut Stone Contractors. Adamson, Jos Curtis & Rowe. Isaac Brothers. Oakley & Holmes. Chimney Topping. Bremner, Alexander. Curric & Co., W. & F. P. Hansen, Harald M. Consulting Engineer. Barry, A. B. Drain Pipe Adamson, Jos. Brenner, Alexander. Brenner, Alexander.	vi II II III II II IV xiv xii II	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Míg. Co. St. Johns Stone Chinaware Co. Rtoofing Materials Merchant & Co. Metallic Roofing Co. Sanuel, Benjamm & Co. Sanuel, Benjamm & Co. Sanitary Appliances Booth & Son. Sanitas Míg. Co. Ives & Co. H. R. St. Johns Stone Chinaware Co. Roofers Duthie & Sons, G. Forbes, Duncan. Metallic Roofing Co. Hutson, W. D. Rengin L.	v xiii v iu iii x x x v v v iii V yx x II III vi
River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	SLATING NAILS.  5d, per toolbs	Contractors' Plant and Machinery Copland & Company Rowe, Geo.  Cerosote Stains Catot, Samuel.  Cut Stone Contractors. Adamson, Jos Curis & Rowe. Isaac Brothers. Oakley & Holmes.  Chimney Topping. Bremner, Alexander Curic & Co., W. & F. P. Hansen, Harald M. Consulting Engineer. Bary, A. B.  Drain Pipe Adamson, Jos. Bremner, Alexander Curic & Co., W. & F. P.	vi II II III II II IV xiv xii II	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Míg. Co. St. Johns Stone Chinaware Co. Roofing Materials Merchant & Co. Metallic Roofing Co. Samuel, Benjamin & Co. Sanitas Míg. Co. Sanitas Míg. Co. Lves & Co. H. R. St. Johns Stone Chinaware Co. Roofers Duthie & Sons, G. Forbes, Duncan. Metallic Roofing Co. Hutson, W. D. Rennic & Son, R. Reggin, J. Stewart, W. T.	v xiii v iu ii x x v V V IV ix II
River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	11/2 " " 175 175  1 " " " 225 225  Sd, per toolbs	Contractors' Plant and Machinery Copland & Company Rowe, Geo.  Creosote Mains Cabot, Samuel.  Cut Stone Contractors. Adamson, Jos Cursis & Rowe. Isaae Brothers. Oakley & Holmes.  Chimney Topping.  Bremner, Alexander. Cursie & Co., W. & F. P. Hansen, Harald M.  Consulting Engineer. Barry, A. B.  Drain Pipe Adamson, Jos.  Brenner, Alexander. Cursie & Co., W. & F. P.  Hannlon and Toronto Sewer Pipe Co., MeNally & Co., W.	VI III III III III III III III III III	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Mig. Co. St. Johns Stone Chinaware Co. Rtoofing Materials Merchant & Co. Metallic Roofing Co. Samuel, Benjamm & Co.  Sanitary Appliances Booth & Son. Sanitas Mig. Co. Ives & Co. H. R. St. Johns Stone Chinaware Co. Roofers Duthie & Sons, G. Forbes, Duncan. Metallic Roofing Co. Hutson, W. D. Rennic & Son. R. Reggin, J. Stewart, W. T. Toronto Roofing Co. Williams & Co. H.	v xiii v iii iii x x x v V V V XX III III vi III III III III III III III
River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	1 " " 175 175  1 " " 1 25 225  Sd, per 100 lbs	Contractors' Plant and Machinery Copland & Company Rowe, Geo. Creosate Maline Cabot, Samuel. Cut Stone Contractors. Adamson, Jos Curtis & Rowe. Isaac Brothers. Oakley & Holmes. Chimney Topping. Bremner, Alexander. Curric & Co., W. & F. P. Hansen, Harald M. Consulting Engineer. Barry, A. B. Drain Pipe Adamson, Jos. Bremner, Alexander. Curric & Co., W. & F. P. Hamilton and Toronto Sewer Pipe Co. McNally & Co., W. Maguire, William. McRae & Co.	vi II II III III II II II II II II II II	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Míg. Co. St. Johns Stone Chinaware Co. Roofing Materials Merchant & Co. Metallic Roofing Co. Samuel, Benjamin & Co. Santiary Appliances Booth & Son. Sanitas Míg. Co. Ives & Co. H. R. St. Johns Stone Chinaware Co. Roofers Duthie & Sons, G. Forbes, Duncan. Metallic Roofing Co. Hutson, W. D. Rennic & Son, R. Reggin, J. Stewart, W. T. Toronto Roofing Co. Williams & Co., H. Shingle Stains Cabot, Samuel.	v xiii v iii x x x v v v iv iii vi iii vi iii vi iii ii
River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	1 " " 175 175  SIATING NAILS.  Sd, per 100 lbs	Contractors' Plant and Machinery Copland & Company Rowe, Geo.  Creosote Status Catot, Samuel.  Cut Stane Contractors. Adamson, Jos Curis & Rowe. Isaac Brothers. Oakley & Holmes.  Chimney Topping. Bremner, Alexander. Curic & Co., W. & F. P. Hansen, Harald M.  Consulting Engineer. Barry, A. B.  Drain Pipe Adamson, Jos. Bremner, Alexander Curic & Co., W. & F. P. Hamilton and Toronto Sewer Pipe Co. McNally & Co., W. Maguire, William. McRae & Co. Milton Pressed Brick & Sewer Pipe Co. Morris, E. D.	vi II II III II II II II II II II II II I	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Míg. Co. St. Johns Stone Chinaware Co. Roofing Materials Merchant & Co. Metallic Roofing Co. Samuel, Benjamin & Co. Sanitary Appliances Booth & Son. Sanitas Míg. Co. Ives & Co. H. R. St. Johns Stone Chinaware Co. Roofers Duthie & Sons, G. Forbes, Duncan. Metallic Roofing Co. Hutson, W. D. Rennic & Son. R. Reggin, J. Stewart, W. T. Toronto Roofing Co. Williams & Co. H. Shingle Statins	xiii v iii x x V IV XX III III III III III III
River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	1 " " 175 175  SLATING NAILS.  \$4d, " " 85 85  3d, " 125 125  2d, " 175 175  COMMON BARREL NAILS.  1 inch, per 100 lbs	Contractors' Plant and Machinery Copland & Company Rowe, Geo.  Cerosote Status Catot, Samuel.  Cut Stone Contractors. Adamson, Jos. Curris & Rowe. Isaac Brothers. Oakley & Holmes.  Chimney Topping. Bremner, Alexander. Curric & Co., W. & F. P. Hansen, Harald M. Consulting Engineer. Bary, A. B.  Drain Pipe Adamson, Jos. Brenner, Alexander. Curric & Co., W. & F. P. Hamston and Toronto Sewer Pipe Co. McNally & Co., W. Maguire, William McRae & Co. Milton Pressed Brick & Sewer Pipe Co. Morris, E. D.  The Ontario Terra Cotta Pressed Brick & Sewer Pipe Co.	vi II	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Míg. Co. St. Johns Stone Chinaware Co. Roofing Materials Merchant & Co. Metallic Roofing Co. Samuel, Benjamin & Co. Sanitary Appliances Booth & Son. Sanitary Appliances Booth & Son. Sanitas Míg. Co. Ives & Co. H. R. St. Johns Stone Chinaware Co. Roofers Duthie & Sons, G. Forbes, Duncan. Metallic Roofing Co. Hutson, W. D. Rennic & Son, R. Reggin, J. Stewart, W. T. Toronto Roofing Co. Williams & Co., H. Skingle Stains Cabot, Samuel Sliding Bilinds The Win. Cane & Sons Míg. Co.	xiii v iii x x V IV III III III III
River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	Starting nature.  Starting nat	Contractors' Plant and Machinery Copland & Company Rowe, Geo. Creosite Maline Cabot, Samuel. Cut Stone Contractors. Adamson, Jos Curtis & Rowe. Isaac Brothers. Oakley & Holmes. Chimney Topping. Bremner, Alexander. Curric & Co., W. & F. P. Hansen, Harald M. Consulting Engineer. Barry, A. B. Drain Pipe Adamson, Jos. Brenner, Alexander. Curic & Co., W. & F. P. Hamilton and Toronto Sewer Pipe Co. McNally & Co., W. Maguire, William McRae & Co. Milton Pressed Brick & Sewer Pipe Co. Morris, E. D. The Ontario Terra Cotta Pressed Brick &	vi II III III III III IIV IV IV IV IV Viiiiiiii	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Míg. Co. St. Johns Stone Chinaware Co. Roofing Materials Merchant & Co. Metallic Roofing Co. Samuel, Benjamin & Co. Sanitary Appliances Booth & Son. Sanitas Míg. Co. Ives & Co. H. R. St. Johns Stone Chinaware Co. Roofers Duthie & Sons, G. Forbes, Duncan. Metallic Roofing Co. Hutson, W. D. Rennic & Son, R. Reggin, J. Stewart, W. T. Toronto Roofing Co. Williams & Co. Histony Milliams Cabot, Samuel. Slitting Bittuds The Win, Cane & Sons Míg. Co. Statued and Decorative Glass Castle & Son Dominion Stained Glass Co.	xiii v iii x x V IV XX III III III III III III
River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	1 " " 175 175  SLATING NAILS.  \$4d, " " 85 85  3d, " 125 125  2d, " 175 175  COMMON BARREL NAILS.  1 inch, per 100 lbs	Contractors' Plant and Machinery Copland & Company Rowe, Geo. Creosote Mains Cabot, Samuel. Cut Stone Contractors. Adamson, Jos Curtis & Rowe. Isaae Brothers. Oakley & Holmes. Chimney Topping. Bremner, Alexander. Curie & Co., W. & F. P. Hansen, Harald M. Consulting Engineer. Barry, A. B. Drain Pipe Adamson, Jos. Bremner, Alexander. Curie & Co., W. & F. P. Hamilton and Toronto Sewer Pipe Co. McNally & Co., W. Maguire, William. McRae & Co. Milton Pressed Brick & Sewer Pipe Co. Morris, E. D. The Ontario Terra Cotta Pressed Brick & Sewer Pipe Co. The Colman-Hamulton Co. Wright & Sons. C. B. Dumb Walters	vi II III III III III III III III III II	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Míg. Co. St. Johns Stone Chinaware Co. Rtoofing Materials Merchant & Co. Metallic Roofing Co. Samuel, Benjamin & Co. Sanitary Appliances Booth & Son. Sanitas Míg. Co. Lves & Co. H. R. St. Johns Stone Chinaware Co. Roofers Duthie & Sons, G. Forbes, Duncan. Metallic Roofing Co. Hutson, W. D. Rennic & Son. R. Reggin, J. Stewart, W. T. Toronto Roofing Co. Williams & Co., H. Shingle Stains Cabot, Samuel Stainel and Decorative Glass Castle & Son. Dominion Stained Glass Co. Elliott & Son. Farcloth Bros.	xiii v iii x x V IV XX III III III III III III
River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	Starting Nails.  Starti	Contractors' Plant and Machinery Copland & Company Rowe, Geo. Creosite Maline Cabot, Samuel. Cut Stone Contractors. Adamson, Jos Curtis & Rowe. Isaac Brothers. Oakley & Holmes. Chimney Topping. Bremner, Alexander. Curric & Co., W. & F. P. Hansen, Harald M. Consulting Engineer. Barry, A. B. Drain Pipe Adamson, Jos. Brenner, Alexander. Curric & Co., W. & F. P. Hamilton and Toronto Sewer Pipe Co. McNally & Co., W. Maguire, William McRae & Co. Milton Pressed Brick & Sewer Pipe Co. Milton Pressed Brick & Sewer Pipe Co. Morris, E. D. The Ontario Terra Cotta Pressed Brick & Sewer Pipe Co. The Colman-Hamilton Co. Wright & Sons, C. B. Dumb Watters King & Son, Warden. Electric Lighting	vi II II III III II II II II II II II II	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Mig. Co. St. Johns Stone Chinaware Co. St. Johns Stone Chinaware Co. St. Johns Stone Chinaware Co. Metallic Roofing Co. Samuel. Benjamm & Co.  Sanitary Appliances Booth & Son. Sanitas Mig. Co. Ives & Co. H. R. St. Johns Stone Chinaware Co. Noofers Duthie & Sons, G. Forbes, Duncan. Metallic Roofing Co. Hutson, W. D. Rennic & Son, R. Reggin, J. Stewart, W. T. Toronto Roofing Co. Williams & Co. H. Shingle Stalus Cabot, Samuel. Stiding Blinds The Win, Cane & Sons Mig. Co. Statued and Decorative Glass Castle & Son. Dominton Stained Glass Co. Elliott & Son. Faircloth Bros. Gilson Bros. Stained Glass Works. Grinson, G. & J. E.	xiii v iii iii x x V IV xx III III III III III III V V V V
River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	SIATING NAILS.  \$5d, per 100 lbs	Contractors' Plant and Machinery Copland & Company Rowe, Geo.  Creosote Status Catot, Samuel.  Cut Stone Contractors. Adamson, Jos Curis & Rowe. Isaac Brothers. Oakley & Holmes.  Chimney Topping. Bremner, Alexander. Curic & Co. W. & F. P. Hansen, Harald M. Consulting Engineer. Barry, A. B.  Drain Pipe Adamson, Jos. Brenner, Alexander. Curic & Co. W. & F. P. Hamston and Toronto Sewer Pipe Co. McNally & Co., W. Maguire, William. McRae & Co. Milton Pressed Brick & Sewer Pipe Co. Morris, E. D. The Ontario Terra Cotta Pressed Brick & Sewer Pipe Co. The Colman-Hamilton Co. Wright & Sons, C. B.  Dumb Walters King & Son, Warden.	vi III III III III III III III III III I	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Míg. Co. St. Johns Stone Chinaware Co. Rtoofing Materials Merchant & Co. Metallic Roofing Co. Samuel. Benjamm & Co. Sanitary Appliances Booth & Son. Sanitas Míg. Co. Lves & Co. H. R. St. Johns Stone Chinaware Co. Roofers Duthie & Sons, G. Forbes, Duncan. Metallic Roofing Co. Hutson, W. D. Rennic & Son. R. Reggin, J. Stewart, W. T. Toronto Roofing Co. Williams & Co., H. Shingle Stains Cabot, Samuel. Stained and Decorative Glass Castle & Son. Dominion Stained Glass Co. Elliott & Son. Farcloth Bros. Gilson Bros. Stained Glass Works. Grimson, G. & J. E. Hobbs Hardware Co.	xiii xiii xiii xiii xiii xiii xiii xii
River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	1 " " 175 175  3d, per 100 lbs	Contractors' Plant and Machinery Copland & Company Rowe, Geo. Cressite Maline Cabot, Samuel. Cut Stone Contractors. Adamson, Jos Curtis & Rowe. Isaac Brothers. Oakley & Holmes. Chimney Topping. Bremner, Alexander. Curric & Co., W. & F. P. Hansen, Harald M. Consulting Engineer. Barry, A. B. Drain Pipe Adamson, Jos. Bremner, Alexander. Curric & Co., W. & F. P. Hamilton and Toronto Sewer Pipe Co. McNally & Co., W. Maguire, William McRae & Co. Milton Pressed Brick & Sewer Pipe Co. Morris, E. D. The Ontario Terra Cotta Pressed Brick & Sewer Pipe Co. The Colman-Hamilton Co. Wright & Sons. C. B. Dumb Watters King & Son, Warden. Electric Lighting Royal Electric Co. Toronto Electrical Works. Electors.	vi II III III III III III III III III II	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Mig. Co. St. Johns Stone Chinaware Co. Reofing Materials Merchant & Co. Metallic Roofing Co. Samuel, Benjamm & Co. Sanitary Appliances Booth & Son. Sanitas Mig. Co. Ives & Co. H. R. St. Johns Stone Chinaware Co. Roofers Duthie & Sons, G. Forbes, Duncan. Metallic Roofing Co. Hutson, W. D. Rennic & Son, R. Reggin, J. Stewart, W. T. Toronto Roofing Co. Williams & Co., H. Shingle Stalus Cabot, Samuel. Slitting Ithiuls The Win, Cane & Sons Mig. Co. Stained and Decorative Glass Castle & Son Dominion Stained Glass Co. Elliott & Son. Faircloth Bros. Gillson Bros. Stained Glass Works. Grinison, G. & J. E. Hobbs Hardware Co. Longhust & Co., H. McCausland & Son.	v   xiii   v   v   v   v   xiii   v   v   xiii   v   v   xiiii   v   v   xiiiii   v   xiiiii   v   xiiiii   v   xiiiii   xiiiii   xiiiiii   xiiiiii   xiiiiii   xiiiiii   xiiiiiii   xiiiiiiii
River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	1 " " 175 175  5d, per 100 lbs	Contractors' Plant and Machinery Copland & Company Rowe, Geo.  Creosote Status Catot, Samuel.  Cut Stone Contractors. Adamson, Jos Curitis & Rowe. Isaac Brothers. Oakley & Holmes. Chimney Topping. Bremner, Alexander. Curric & Co., W. & F. P. Hansen, Harald M. Consulting Engineer. Barry, A. B.  Drain Pipe Adamson, Jos. Brenner, Alexander. Curric & Co., W. & F. P. Hamlton and Toronto Sewer Pipe Co. McNally & Co., W. Maguire, William. McRae & Co., Milton Pressed Brick & Sewer Pipe Co. Morris, E. D. The Ontario Terra Cotta Pressed Brick & Sewer Pipe Co. The Colman-Hamilton Co. Wright & Sons, C. B.  Dumb Watters King & Son, Warden Electric Lighting Royal Electric Co. Toronto Electrical Works.  Electators. Ives & Co., H. R. Lettch & Turnbull	vi II III III III III III III III III II	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Míg. Co. St. Johns Stone Chinaware Co. Rtoofing Materials Merchant & Co. Metallic Roofing Co. Samuel, Benjamm & Co. Sanitary Appliances Booth & Son. Sanitas Míg. Co. Ives & Co. H. R. St. Johns Stone Chinaware Co. Roofers Duthie & Sons, G. Forbes, Duncan. Metallic Roofing Co. Hutson, W. D. Rennic & Son, R. Reggin, J Stewart, W. T. Toronto Roofing Co. Williams & Co. Histing Blinds Cabot, Samuel. Stating Blinds The Win, Cane & Sons Míg. Co. Stained and Decorative Glass Castle & Son. Farcloth Bros Gillson Bros. Stained Glass Works. Grinson, G. & J. E. Hobbs Hardware Co. Longhust & Co., H. McCausland & Son. Spence & Son, J. C. Victoria Stained Glass Co.	xiii xiii xiii xiii xiii xiii xiii xii
River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	1 " " 175 175  5d, per 100 lbs	Contractors' Plant and Machinery Copland & Company Rowe, Geo. Cressite Malins Cabot, Samuel. Cat Stone Contractors. Adamson, Jos Curtis & Rowe. Isaac Brothers. Oakley & Holmes. Chimney Topping. Bremner, Alexander. Curric & Co., W. & F. P. Hansen, Harald M. Consulting Engineer. Barry, A. B. Drain Pipe Adamson, Jos. Bremner, Alexander. Curric & Co., W. & F. P. Hamilton and Toronto Sewer Pipe Co. McNally & Co., W. Maguire, William McRae & Co. Milton Pressed Brick & Sewer Pipe Co. Morris, E. D. The Ontario Terra Cotta Pressed Brick & Sewer Pipe Co. The Colman-Hamilton Co. Wright & Sons. C. B. Dumb Walters King & Son, Warden. Electric Lighting Royal Electric Co. Toronto Electrical Works. Elecators. Ives & Co., H. R. Lentch & Turnbull. Enigravers.	vi III III III III III III III III III I	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Míg. Co. St. Johns Stone Chinaware Co. Rtoofing Materials Merchant & Co. Metallic Roofing Co. Samuel, Benjamm & Co. Sanitas Míg. Co. Lves & Co. H. R. St. Johns Stone Chinaware Co. Roofers Duthie & Sons, G. Forbes, Duncan. Metallic Roofing Co. Hutson, W. D. Rennic & Son. R. Reggin, J. Stewart, W. T. Toronto Roofing Co. Williams & Co., H. Shingle Stains Cabot, Samuel. Stains Blinds The Wm. Cane & Sons Míg. Co. Stained and Decorative Glass Castle & Son Dominion Stained Glass Co. Elliott & Son Farcloth Bros Gilson Bros. Stained Glass Works. Grinson, G. & J. Hobbs Hardware Co. Longhurst & Co. Victoria Stained Glass Co. Terra Cotta Morrison & Co. T. A.	X   X   X   X   X   X   X   X   X   X
River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	Stating nails.  Stating nails.	Contractors' Plant and Machinery Copland & Company Rowe, Geo.  Creosote Status Catot, Samuel.  Cut Stone Contractors. Adamson, Jos Curitis & Rowe. Isaac Brothers. Oakley & Holmes. Chimney Topping. Bremner, Alexander. Curric & Co., W. & F. P. Hansen, Harald M. Consulting Engineer. Barry, A. B.  Drain Pipe Adamson, Jos. Brenner, Alexander. Curric & Co., W. & F. P. Hamston and Toronto Sewer Pipe Co. McNally & Co., W. Maguire, William. McRae & Co., Milton Pressed Brick & Sewer Pipe Co. Morris, E. D. The Ontario Terra Cotta Pressed Brick & Sewer Pipe Co. The Colman-Hamilton Co. Wright & Sons, C. B.  Dumb Watters King & Son, Warden. Electric Lighting Royal Electric Co. Toronto Electrical Works Electors. Ives & Co., H. R. Leuch & Turnbull Engravers. Lanadaan Photo-Eng Bureau. Fire Brick and Clay.	VI III III III III III III III III III	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Mig. Co. St. Johns Stone Chinaware Co St. Johns Stone Chinaware Co St. Johns Stone Chinaware Co Stone Chinaware Co Metallic Roofing Co Samuel. Benjamun & Co. Sanitary Appliances Booth & Son. Sanitas Mig. Co. Ives & Co H. R. St. Johns Stone Chinaware Co.  Roofers Duthie & Sons, G. Forbes, Duncan. Metallic Roofing Co. Hutson, W. D. Rennie & Son. R. Reggin, J. Stewart, W. T. Toronto Roofing Co. Williams & Co H Shingle Stains Cabot, Samuel. Stitting Blinds The Win. Cane & Sons Mig. Co. Stained and Decorative Glass Castle & Son. Dominion Stained Glass Co. Elliott & Son. Farcloth Bros Gilson Bros. Stained Glass Works. Grinson, G. & J. E. Hobbs Hardware Co Longhust & Co., H McCausland & Son. Spence & Son. J. C. Victoria Stained Glass Co. Terra Cotta Morrison & Co T. A. Toronto Pressed Brick & Terra Cotta Co.	X   X   X   X   X   X   X   X   X   X
River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	SIATING NAILS.  5d, per 100 lbs	Contractors' Plant and Machinery Copland & Company Rowe, Geo  Cerosote Status Catoo, Samuel.  Cut Stone Contractors. Adamson, Jos. Curis & Rowe. Isaac Brothers. Oakley & Holmes.  Chimney Topping.  Bremner, Alexander. Curic & Co., W. & F. P. Hansen, Harald M.  Consulting Engineer. Bary, A. B.  Drain Pipe Adamson, Jos. Brenner, Alexander. Curic & Co., W. & F. P. Hamblion and Toronto Sewer Pipe Co. McNally & Co., W. Maguire, William McRae & Co. Milton Pressed Brick & Sewer Pipe Co. Morris, E. D. The Ontario Terra Cotta Pressed Brick & Sewer Pipe Co. The Colman-Hamulton Co. Wright & Sons, C. B.  Dumb Watters King & Son, Warden Electric Lighting Royal Electric Co. Toronto Electrical Works  Electors. Ives & Co., H. R. Leitch & Turnbull  Enipraeers. Landdhan Photo-Eng Bureau  Fire Brick and Clay. Adamson, Jos. Brenner, Alexander.	vi II II III III III III III III III III	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Míg. Co. St. Johns Stone Chinaware Co. Metallic Roofing Co. Sanuel, Benjamm & Co. Sanitas Míg. Co. Ives & Co. H. R. St. Johns Stone Chinaware Co. Roofers Duthie & Sons, G. Forbes, Duncan. Metallic Roofing Co. Hutson, W. D. Rennic & Son, R. Reggin, J. Stewart, W. T. Toronto Roofing Co. Williams & Co. H. Shingle Stains Cabot, Samuel. Sliding Blinds The Win, Cane & Sons Míg. Co. Stained and Decorative Glass Castle & Son. Farcloth Bros. Gillson Bros. Stained Glass Co. Elliott & Son. Farcloth Bros. Gillson Bros. Stained Glass Works. Grinson, G. & J. E. Hobbs Hardware Co. Longhurst & Co. H. McCausland & Son. Spence & Son, J. C. Victoria Stained Glass Co. Terra Cotta Morrison & Co., T. A. Toronto Pressed Brick & Terra Cotta Co. The Ontario Terra Cotta, Brick & Sewer Pipe Co.	X   X   X   X   X   X   X   X   X   X
River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	SIATING NAILS.  5d, per 100 lbs	Contractors' Plant and Machinery Copland & Company Rowe, Geo. Cressite Malins Cabot, Samuel. Cut Stone Contractors. Adamson, Jos Curtis & Rowe. Isaac Brothers. Oakley & Holmes. Chimney Topping. Bremner, Alexander. Curric & Co., W. & F. P. Hansen, Harald M. Consulting Engineer. Barry, A. B. Drain Pipe Adamson, Jos. Bremner, Alexander. Curric & Co., W. & F. P. Hamilton and Toronto Sewer Pipe Co. McNally & Co., W. Maguire, William McRae & Co. Milton Pressed Brick & Sewer Pipe Co. Morris, E. D. The Ontario Terra Cotta Pressed Brick & Sewer Pipe Co. Wright & Sons. C. B. Dumb Walters King & Son, Warden. Electric Lighting Royal Electric Co. Toronto Electrical Works Elecators. Ives & Co., H. R. Lench & Turnbull Engravers. Canadan Photo-Eng Bureau Fire Brick and Clay. Adamson, Jos. Brenner, Alexander. Colman-Hamilton Co. Curric & Co., W. & F. P.	vi III III III III III III III III III I	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Mig. Co. St. Johns Stone Chinaware Co. Roofing Materials Merchant & Co. Metallic Roofing Co. Samuel. Benjamm & Co. Sanitary Appliances Booth & Son. Sanitas Mig. Co. Ives & Co. H. R. St. Johns Stone Chinaware Co. Ives & Co. H. R. St. Johns Stone Chinaware Co. Ives & Co. H. R. St. Johns Stone Chinaware Co. Hutson, W. D. Rennic & Sons, G. Forbes, Duncan. Metallic Roofing Co. Hutson, W. D. Rennic & Son, R. Reggin, J. Stewart, W. T. Toronto Roofing Co. Williams & Co., H. Stingle Stains Cabot, Samuel. Stiding Itlinds The Wim, Cane & Sons Mig. Co. Stained and Decorative Glass Castle & Son Dominion Stained Glass Co. Elliott & Son. Faircloth Bros. Gillson Bros. Stained Glass Works. Grinson, G. & J. E. Hobbs Hardware Co. Longhust & Co. Longhust & Co. The McCausland & Son. Spence & Son. J. C. Victoria Stained Glass Co. Terra Cotta Mortson & Co., T. A. Toronto Pressed Brick & Terra Cotta Co. The Ontario Terra Cotta, Brick & Sewer Pipe Co. The Rantan Hollow & Porous Brick Co.	X   X   X   X   X   X   X   X   X   X
River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	1	Contractors' Plant and Machinery Copland & Company Rowe, Geo.  Creosote Status Catoo, Samuel.  Cut Stone Contractors. Adamson, Jos. Curis & Rowe. Isaac Brothers. Oakley & Holmes. Chimney Topping. Bremner, Alexander. Curic & Co., W. & F. P. Hansen, Harald M. Consulting Engineer. Barry, A. B.  Drain Pipe Adamson, Jos. Brenner, Alexander Curic & Co., W. & F. P. Hamilton and Toronto Sewer Pipe Co. McNally & Co., W. Maguire, William. McRae & Co., W. Maguire, William. McRae & Co., The Ontario Terra Cotta Pressed Brick & Sewer Pipe Co. The Ontario Terra Cotta Pressed Brick & Sewer Pipe Co. The Colman-Hamilton Co. Wright & Sons, C. B.  Dumb Walters King & Son, Warden Electric Lighting Royal Electric Co. Toronto Electrical Works Electors. Ives & Co., H. R. Leuch & Turnbull Engravers. Lanadian Photo-Eng Bureau Fire Brick and Clay. Adamson, Jos. Brenner, Alexander. Colman-Hamilton Co. Currie & Co., W. & F. P.	VI II I	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Míg. Co. St. Johns Stone Chinaware Co. Metallic Roofing Co. Sanuel, Benjamm & Co. Sanuel, Benjamm & Co. Sanuel, Benjamm & Co. Sanuel, Benjamm & Co. Sanitas Míg. Co. Lves & Co. H. R. St. Johns Stone Chinaware Co. Roofers Duthie & Sons. G. Forbes, Duncan. Metallic Roofing Co. Hutsom, W. D. Rennic & Son. R. Reggin, J. Stewart, W. T. Toronto Roofing Co. Williams & Co. H. Shingle Stains Cabot, Samuel. Sliting Blinds The Win, Cane & Sons Míg. Co. Stained and Decorative Glass Castle & Son. Dominion Stained Glass Co. Elliott & Son. Farcloth Bros. Gillson Bros. Stained Glass Works. Grinson, G. & J. E. Hobbis Hardware Co. Longhurst & Co., H. McCausland & Son. Spence & Son, J. C. Victoria Stained Glass Co. Terra Cotta Morrison & Co., T. A. Toronto Pressed Brick & Terra Cotta Co. The Ontario Terra Cotta, Brick & Sewer Pipe Co. The Rantan Hollow & Porous Bnek Co.	X   X   X   X   X   X   X   X   X   X
River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	SIATING NAILS.  5d, per 100 lbs	Contractors' Plant and Machinery Copland & Company Rowe, Geo. Cressite Maline Catot, Samuel. Catot, Samuel. Catot, Samuel. Cut Stone Contractors. Adamson, Jos Curit & Rowe. Isaac Brothers. Oakley & Holmes. Chimney Topping. Bremner, Alexander. Curric & Co., W. & F. P. Hansen, Harald M. Consulting Engineer. Barry, A. B. Drain Pipe Adamson, Jos. Bremner, Alexander. Curric & Co., W. & F. P. Hamilton and Toronto Sewer Pipe Co. McNally & Co., W. Maguire, William McRae & Co. Milton Pressed Brick & Sewer Pipe Co. Morris, E. D. The Ontario Terra Cotta Pressed Brick & Sewer Pipe Co. One Colman-Hamilton Co. Wright & Sons. C. B. Dumb Walters King & Son, Warden. Electric Lighting Royal Electric Co. Toronto Electrical Works. Elecators. Ives & Co., H. R. Lench & Turnbull Enipracers. Landan Photo-Eng Bureau Fire Brick and Clay. Adamson, Jos. Brenner, Alexander. Colman-Hamilton Co. Curric & Co., W. & F. P. Hyde & Co., Francis Morris, E. D. Wright & Sons, C. B.	vi III III III III III III III III III I	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Mig. Co. St. Johns Stone Chinaware Co. Roofing Materials Merchant & Co. Metallic Roofing Co. Samuel. Benjamm & Co. Sanitary Appliances Booth & Son. Sanitas Mig. Co. Ives & Co. H. R. St. Johns Stone Chinaware Co. Ives & Co. H. R. St. Johns Stone Chinaware Co. Ives & Co. H. R. St. Johns Stone Chinaware Co. Hutson, W. D. Rennie & Sons, G. Forbes, Duncan. Metallic Roofing Co. Hutson, W. D. Rennie & Son, R. Reggin, J. Stewart, W. T. Toronto Roofing Co. Williams & Co., H. Stingle Stains Cabot, Samuel. Stiding Bilinds The Wm. Cane & Sons Mig. Co. Stained and Decorative Glass Castle & Son. Dominion Stained Glass Co. Elliott & Son. Farcloth Bros. Gillson Bros. Stained Glass Works. Grinson, G. & J. E. Hobbs Hardware Co. Longhust & Co., H. McCausland & Son. Spence & Son. J. C. Victoria Stained Glass Co. Terra Cotta Mortison & Co., T. A. Toronto Pressed Brick & Terra Cotta Co. The Ontario Terra Cotta, Brick & Sewer Pipe Co. The Ranian Hollow & Porous Brick Co. Terra Cotta Fireproofing Mortison & Co., T. A. Rathbun Co. The Raritan Hollow & Porous Brick Co.	xiii viii ii x x v v V V V V V V V V V V V V V V V V
River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	1	Contractors' Plant and Machinery Copland & Company Rowe, Geo.  Creosote Status Catod, Samuel.  Cut Stone Contractors. Adamson, Jos. Curis & Rowe. Isaac Brothers. Oakley & Holmes. Chimney Topping. Bremner, Alexander. Curric & Co., W. & F. P. Hansen, Harald M. Consulting Engineer. Barry, A. B.  Drain Pipe Adamson, Jos. Brenner, Alexander. Curric & Co., W. & F. P. Hamilton and Toronto Sewer Pipe Co. McNally & Co., W. Maguire, William. McRae & Co. Milton Pressed Brick & Sewer Pipe Co. Morris, E. D. The Ontario Terra Cotta Pressed Brick & Sewer Pipe Co. The Colman-Hamilton Co. Wright & Sons, C. B.  Dumb Walters King & Son, Warden Electric Lighting Royal Electric Co. Toronto Electrical Works.  Elecators. Ives & Co., H. R. Leitch & Turnbull Engravers.  Landian Photo-Eng Bureau.  Fire Brick and Clay. Adamson, Jos. Brenner, Alexander. Colman-Hamilton Co. Curric & Co., W. & F. P. Hyde & Co., Francis Morris, E. D Wright & Sons, C. B  Galeanized Iron Works. Douglas & Plu kett.	VI III III III II IIV XXIV XXIV XXIV XX	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Mig. Co. St. Johns Stone Chinaware Co. St. Johns Stone Chinaware Co. St. Johns Stone Chinaware Co. Metallic Roofing Co. Samuel. Benjamm & Co. Sanitary Appliances Booth & Son. Sanitas Mig. Co. Ives & Co. H. R. St. Johns Stone Chinaware Co. Noofers Duthie & Sons, G. Forbes, Duncan. Metallic Roofing Co. Hutson, W. D. Rennic & Son, R. Reggin, J. Stewart, W. T. Toronto Roofing Co. Williams & Co., H. Shingle Stalus Cabot, Samuel. Sliding Blinds The Win, Cane & Sons Mig. Co. Statued and Decorative Glass Castle & Son. Dominion Stained Glass Co. Elliott & Son. Faircloth Bros. Gillson Bros. Stained Glass Works. Grimson, G. & J. E. Hobbs Hardware Co. Longhurst & Co., H. McCausland & Son. Spence & Son, J. C. Victoria Stained Glass Co. Terra Cotta Morrison & Co., T. A. Toronto Pressed Brick & Terra Cotta Co. The Ranian Hollow & Porous Brick Co. Terra Cotta Fireproofing Morrison & Co., T. A. Rathbun Co. The Raritan Hollow & Porous Brick Co. Wall Paper and Ceiling Decorations Elliott & Son.	xiii viii ii x x v v V I V II II II II II II II II V V V V
River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	SIATING NAILS.  5d, per 100 lbs	Contractors' Plant and Machinery Copland & Company Rowe, Geo.  Creosofe Status Catoo, Samuel.  Cut Stone Contractors. Adamson, Jos. Curis & Rowe. Isaac Brothers. Oakley & Holmes. Chimney Topping. Bremner, Alexander. Curic & Co., W. & F. P. Hansen, Harald M. Consulting Engineer. Barry, A. B.  Drain Pipe Adamson, Jos. Brenner, Alexander. Curic & Co., W. & F. P. Hamlton and Toronto Sewer Pipe Co. McNally & Co., W. Maguire, William. McRae & Co. Milton Pressed Brick & Sewer Pipe Co. Morris, E. D. The Ontario Terra Cotta Pressed Brick & Sewer Pipe Co. The Colman-Hamilton Co. Wright & Sons, C. B.  Dumb Watters King & Son, Warden. Electric Lighting Royal Electric Co. Toronto Electrical Works. Elecators. Ives & Co., H. R. Lench & Turnbull Engravers. Lanadhan Photo-Eng Bureau  Fire Brick and Clay. Adamson, Jos. Brenner, Alexander. Colman-Hamilton Co. Currie & Co., W. & F. P. Hyde & Co., Francis Morts, E. D. Wright & Sons, C. B  Galcanized Iron Works.	VI III III III III III III III III III	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Míg. Co. St. Johns Stone Chinaware Co. Metallic Roofing Co. Sanuel, Benjamm & Co. Sanitas Míg. Co. Lves & Co. H. R. St. Johns Stone Chinaware Co. Roofers Duthie & Sons, G. Forbes, Duncan. Metallic Roofing Co. Hutsom, W. D. Rennic & Son. R. Reggin, J. Stewart, W. T. Toronto Roofing Co. Williams & Co. H. Shingle Stains Cabot, Samuel. Sliting Blinds The Win, Cane & Sons Míg. Co. Stained and Decorative Glass Castle & Son. Dominion Stained Glass Co. Elliott & Son. Farcloth Bros. Gillson Bros. Stained Glass Works. Grinson, G. & J. E. Hobbs Hardware Co. Longhurst & Co., H. McCausland & Son. Spence & Son, J. Victoria Stained Glass Co. Terra Cotta Morrison & Co., T. A. Toronto Pressed Brick & Terra Cotta Co. The Ontario Terra Cotta, Brick & Sewer Pipe Co. The Rantan Hollow & Porous Brick Co. Terra Cotta Fireproofing Morrison & Co., T. A. Rathbun Co. The Rantan Hollow & Porous Brick Co.	xiii viii ii xx v v V I I I I I I I I I I I I I I I I I
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River John, N. S., brown Freestone, per cu ft., f.o.b. Ballochmyle	SIATING NAILS.  5d, per 100 lbs	Contractors' Plant and Machinery Copland & Company Rowe, Geo.  Creosote Status Catod, Samuel.  Cut Stone Contractors. Adamson, Jos. Curis & Rowe. Isaac Brothers. Oakley & Holmes. Chimney Topping. Bremner, Alexander. Curric & Co., W. & F. P. Hansen, Harald M. Consulting Engineer. Barry, A. B.  Drain Pipe Adamson, Jos. Brenner, Alexander. Curric & Co., W. & F. P. Hamilton and Toronto Sewer Pipe Co. McNally & Co., W. Maguire, William. McRae & Co. Milton Pressed Brick & Sewer Pipe Co. Morris, E. D. The Ontario Terra Cotta Pressed Brick & Sewer Pipe Co. The Colman-Hamilton Co. Wright & Sons, C. B.  Dumb Walters King & Son, Warden Electric Lighting Royal Electric Co. Toronto Electrical Works.  Electors. Ives & Co., H. R. Leitch & Turnbull Engravers.  Lankin Photo-Eng Bureau.  Fire Brick and Clay. Adamson, Jos. Brenner, Alexander. Colman-Hamilton Co. Curric & Co., W. & F. P. Hyde & Co., Francis Morris, E. D. Wright & Sons, C. B.  Galeanized Iron Works. Douglay & Plu kett Hedges & Lankin Tucker & Dillon.  Grates and Tiles.	VI III III IIV III III IIV IV IV IV IV I	Plumbing Supplies Booth & Son. Garth & Co. Sanitas Míg. Co. St. Johns Stone Chinaware Co. Roofing Materials Merchant & Co. Metallic Roofing Co. Samuel. Benjamm & Co. Sanitary Appliances Booth & Son. Sanitas Míg. Co. Ives & Co. H. R. St. Johns Stone Chinaware Co. Roofers Duthie & Sons, G. Forbes, Duncan. Metallic Roofing Co. Hutson, W. D. Rennic & Son. R. Reggin, J. Stewart, W. T. Toronto Roofing Co. Williams & Co., H. Shingle Stains Cabot, Samuel. Stained and Decorative Glass Castle & Son. Dominion Stained Glass Co. Elliott & Son. Farcloth Bros. Gilson Bros. Stained Glass Works. Grimson, G. & J. E. Hobbis Hardware Co. Longhurst & Co., H. McCausland & Son. Spence & Son. J. C. Victoria Stained Glass Co. Terra Cotta Morrison & Co., T. A. Toronto Pressed Brick & Terra Cotta Co. The Rantan Hollow & Porous Brick Co. The Rantan Hollow & Porous Brick Co. Wall Paper and Ceiling Decorations Elliott & Son. The Rantan Hollow & Porous Brick Co. Wall Paper and Ceiling Decorations Elliott & Son. The Rantan Hollow & Porous Brick Co. Wall Paper and Ceiling Decorations Elliott & Son. Farcloth Bros. Staunton & Co., M.	viii viii ii x x v v V V V V V V V V V V V V V V V V