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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.

Voi., 7.

JUNE 18, 1896

No. 20.

THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY THURSDAY

As an Intermediate Edition of the "Canadian Architect and Builder,"

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

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Notice to Contractors

CANADIAN CONTRACTORS HAND-BOOK

A new and thoroughly revised edition of the Canadian Contractor's Hand-Book, consisting canagian Contractor's mand-Book, consisting of 150 pages of the most carefully selected material, is now ready, and will be sent post-paid to any address in Canada on receipt of price. This book should be in the hands of every architect, builder and contractor who desires to have readily accessible and properly authenticated information on a wide variety of subjects adapted to his daily requirements.

daily requirements.

Price, \$1.50; to subscribers of the CANADIAN ARCHITECT AND BUILDER, \$1.00. Address

C. H. MORTIMER, Publisher, Confederation Life Building, TORONTO

TENDERS WANTED

Bulk tenders will be received by the undersigned up to MONDAY, JUNE 22ND, for alterations and addi-tions to a shop in Parkdale. The lowest or any tender will not necessarily be accented.

CURRY, BAKER & CO., Architects, 70 Victoria St., Toronto.

TENDERS

Scaled Tenders will be received by the Secretary up to noon of IUNE 24TH for the

Erection of a Frame Building in Barrie, to ft. by rog ft., for an exhibition building and curling and hockey rink. The lowest or any tender not necessarily accepted. Plans, etc., may be seen at the offices of

Plans, etc., may occarrent & CO., Architecte.
Barrie and Orillia.

J. L. G. McCARTHY, President. JOHN DICKENSON, Secretary.

TENDERS FOR WATER METERS

The City of Vancouver B. C., are prepared to receive offers for about

150 WATER METERS

from 1/2 in. up to 4 in., delivered at their shops on Hastings Street free of all charges.

Full particulars of meters offered to be sent to the City Engineer, Col. 1. H. Tracy, as soon as practicable.

Tenders to be in the hands of the undersigned on or before Wednesday, June 24th.

T. F. McGUIGAN, City Clerk.

Toronto Public Schools

TO BUILDERS AND CONTRACTORS

Scaled tenders will be received by the Secretary-Treasurer of the Toronto Public School Board until MONDAY, JUNE 29711, AT 9 A M , SHARP, for the usual unidsummer repairs, alterations, and improvements at the several schools, in all trades.

Plans and specifications may be seen, and all information obtained at the office of C. H. BISHOP, Superintendent of Buildings, on and after FRIDAY, THE 19711 INST., between the hours of 8 a.m. and 6 p.m., including Saturdays.

Each tender must be accompanied by the deposit mentioned in the said specification and form of tender as per regulation of the Board.

The lowest or any tender will not necessarily be accepted.

accepted.

JAMES BURNS, W. Chairman of Committee. W. C. WILKINSON, stee. Sec'y. Treas.

TENDERS

For Wharf Building at Saint John, N.B., Sand Point, (West Side).

Tenders will be received by the Department of Public Works of the City of 'aint John, N. B., at their office in the said city, until TUFSDAY, THF '20TU DAY OF JUNE, INSTANT, AT 12 O'CLOCK NOON, for all the work in connection with the proposed wharf building at Sand Point, including dreelging, according to plans and specifications prejared by Hurd Peters, Esq., C. E., Engineer, for C.P.R., and which may be seen at office, City Building.

Each tender must be accompanied by a certified bank cheque, payable to the order of the director of the Department of Public Works, Santt John, N. B., for \$500, or a deposit of money for the same amount. Said amount to be forfeited should the party or parties to whom the work is awarded decline to enter into contract. And a further deposit equal to five per centum on the estimated full value of the contract, at prices named in bid, will be required to be made on entering into contract—this deposit to be forfeited should the party or parties receiving the contract refuse to proceed therewith, or fail to complete the works as required by plans and specifications.

Separate tenders may be made for the dredging and wharf building.

The Pepartment do not bind themselves to accept the lowest or any tender.

Copies of specifications may be had on application to the City Engineer or Director.

(Signed) A. CHIPMAN SMITH, Director,
Department of Public Works, Saint John, N. B.

TENDERS

\$10,000 4 p. c. Sewer Bonds TOWN OF WOODSTOCK

Scaled Tenders will be received for TEN THOUS-AND DOLLARS worth of Town of Woodstock SEW-ERAGE DEWENTURES, at the office of the undersigned, up to the agrit DAY OF JUNE, instant, said debentures to be payable in twenty years from date of issue, with four per cent, interest, payable half yearly at the Town Treasurer's office. The highest or any tender not necessarily accepted.

R. B. JONES, Finance Committee.

Woodstock, N. B., June 1st, 1896.

CONTRACTS OPEN.

ELGIN, ONT. - A Roman Catholic church will be built here.

MARMORE, ONT.-Capt. O'Neil will build a new block of stores.

MEDONTE, ON1.-Andrew Walker is excavating for a brick house.

RAPID CITY, MAN.—The woollen mill recently burned will be rebuilt. WHEATLEY, ONT .- J. D. Greaves is

preparing to build another house. THESSALON, ONT .- Debentures will be

issued to erect a fire and town hall. KASLO, B. C .- The Catholics have de-

cided to build a church, 30 × 40 feet. DESERONTO, ONT.- A Roman Catholic church to cost \$5,000 will be erected here.

GODERICH, ONT .- The Bank of Commerce will erect a new building in this

town. PPESCOTT, ONT.—The sum of \$6,000 will be expended in repairs to the public school.

NORTH BAY, ONT.—Mr. Jackson, of Bracebridge, will build a sash and door factory here.

WAWANESA, MAN - F. A. Tamblyn, whose hotel was recently destroyed by fire, will rebuild.

SMITH'S FALLS, ONT.—Extensive improvements will be made to the opera house this summer.

KINGSVILLE, ONT.—Mr. Jasperson will rebuild his flour mill. A site has not yet been decided upon.

ST. JOHN, N. B.—St. Luke's parish have decided to build a parish on the lot of land next the church.

HALIFAX, N. S.—The site is being pre-pared for a new residence for Hon. David McKeen, to cost \$25,∞0.

STURGEON FALLS, ONT.—The Sturgeon Falls Pulp Co. will expend \$75,000 on new buildings this season.

UPPER KENNETCOOK, N. S.—Nelson Weir, municipal clerk, will receive tenders until the 27th inst. for a loan of \$1,500.

INGERSOLL, ONT.—W. G. Francis, clerk, will receive proposals until the 22nd inst. for repairing the White drain and branch branch.

NEW GLASGOW, N. S.—The Aberdeen School Board will receive tenders until the 22nd inst. for the erection and finish-

ing of the buildings of the Aberdeen hospital, according to plans to be seen at the office of Wm. McIntosh & Co.

TRURO, N. S.—The Truro News says that a scheme is being mooted at Milford to erect a building for the purpose of canning eels.

ST. CATHARINES, ONT.—The Whitman Barnes Mfg. Co. are calling for tenders for the erection of a building. Tenders close June 20th.

ORILLIA, ONT.—W. H. Croker, architect, has prepared plans for a new town hall, 36×66 ft., tower eighty feet high, and roof of slate.

BARRIE, ONT.—Kennedy, McVittie & Co. will receive tenders until the 24th inst. for erecting a frame building, 80 × 205 ft., to be used as a rink.

PETROLEA, ONT.—J. A. Jackson will receive tenders until the 24th inst. for the erection of a Presbyterian church. Plans at Mr. Jackson's office.

TILBURY, ONT.—J. L. Wilson, architect, of Chatham, has prepared a preliminary sketch for a new block, corner Yonge and Queen streets.

WELLAND, ONT.—Some residents of Division street propose laying a granolithic sidewalk in front of their residences. Among them is the Hon. Richard Harcourt.

FORT WILLIAM, ONT.—Mr. Jackson intends building a residence on May street. R. F. Waddington will also, we understand, build shortly on the same street.

SEAFORTH, ONT. – Mayor Holmes and Dr. Gunn, of Clinton, waited on the Town Council in reference to the election of a general hospital. The matter was referred to a special committee.

CHATHAM, ONT.—A by-law has been passed to authorize the issue of \$30,000 debentures for waterworks purposes.—The City & Suburban Electric Railway Company also desire a contract for street lighting.

INVERNESS, QUE.—Tenders will be received by S. Turcotle, up to the 29th inst. for the repairs of the church and sacristy of St. Athanasius of Inverness, County Megantic. Plans and specifications at the presbytery.

GRIMSBY, ONT.—The council has instructed M. W. Hopkins, C. E., of Hamilton, to report on a system of waterworks for Grimsby, and to advise on the source of water supply. When the engineer's report is submitted it will likely be decided to submit a by-law.

VICTORIA, B. C.—The Bank of Montreal have purchased an additional 14 feet of the adjoining property from the trustees of Hon. Amor de Cosmos, and the plans for their new building will be altered immediately. The completed building will have an area of 2,860 square feet.

AMHERST, N. S.—H. G. C. Ketchum, C. E., of Ship Railway fame, has arrived in Amherst with instructions to proceed at once with the work. An order in Council has been granted extending the time for three years from the first of October next for the completion of the work.

PORTAGE LA PRAIRIE, MAN.—Mr. Silverthorne, architect, is preparing plans for the reconstruction of a block, corner Main street, for A. Laurens. He is also preparing plans for improvements to John McLeod's block.—W. A. Crisp is preparing to erect a residence corner Tupper street and Lorne avenue.

VALLEYFIELD, QUE. — The Cotton Company has commenced excavations for a large flume, which is to be put in at the end of the mill near the site of the Parkham residence. It is intended to develop about eight hundred horse power. Work has also been started on a new warehouse for the company. The ground

plan measures 170 × 90 feet, and it is to be three stories high.

PENETANG, ONT.—Kennedy, McVittie & Co., architects, of Barrie, are preparing plans for a brick and stone residence for Mrs. Geo. Copeland, with hardwood finish, hot water heating and all modern improvements. Tenders will be asked for shortly. The same architects are preparing plans for alterations and additions to the public school here.

PARRSBORO', N. S.—A resolution has been passed by the ratepayers authorizing the town council to apply at the next session of the Legislature of Nova Scotia for an act to provide the town of Parrsboro with a sufficient water supply, and for power to borrow \$40,000 for the purchase of debentures issued in sums of not less than one hundred dollars, or a multiple thereof, redeemable in thirty years, and bearing interest at 4 per cent. per annum, payable half yearly.

NEW WESTMINSTER, B. C.—C. H. Wilkinson has submitted a new scheme for the construction of the Fraser river bridge here. The matter has been laid before the council.—J. J. Nickson has proposed to the City Council to connect with the city water main near Sapperton by steel pipes, carrying the piping along Front street, and across the north arm of the Fraser river, by means of a submerged main, thence on to Lulu island and down the island to Steveston, with branch lines for Richmond municipality.

OTTAWA, ONT.—A. M. Calderon, architect, is taking tenders for a residence to cost \$5,000. He is also preparing plans for alterations to Rideau rink, a \$5,000 residence, and a Turkish bath building, to cost \$6,000.—Petitions have been presented to Council asking for the construction of a number of granolithic walks.—A scheme is on foot to supply Ottawa East with waterworks. The Ottawa Land Company intend making a proposition to supply water from the Little Chaudiere. Two and a half miles of pipe would require to be laid.

QUEBEC, QUE.—M. T. Raymond, architect, is preparing plans for St. Fregoire church at Sault Montmorenci. The building will be of stone, Roman style. Dimensions 192×66 feet. Tenders will be invited in July. The same architect has also prepared plans for a residence to be erected, corner of Prince Arthur and Dorchester streets, for M. A. Moreebs. — David Ouellet, architect, has prepared plans for a wood presbytery to be erected for the new parish of St. de Bienville Antoine.—A. Pion & Co. will build a wing to their establishment, 114×40 feet.—The Mother House of the Franciscan Nuns in France has approved of the new plans of the church of the Holy Sacrament on Grande Alice, and will, it is thought, contribute towards its construction.

HAMILTON, ONT.—A scheme is on foot for building a first-class summer hotel at the Beach, but the names of the promoters have not been made public. It is said the Hamilton Radial Electric Railway Company is interested in the project, and the cost is estimated at \$100,000.—The Coleman Lumber Company has taken out a permit for a two-storey brick dwelling on Ontario avenue, for George McKnight, to cost \$1,200.—The T. H. & B. Railway Company is negotiating for the disposal of bonds to raise money to build the spur line to connect the T. H. and B. with the Toronto branch of the G. T. R.—E. B. Jones, of Montreal, representing the Dominion Cold Storage Co., had a conference with Mayor Tuckett, C. R. Smith and Chairman Colquboun, regarding the establishment in this city of a warehouse to cost \$2,000,000.

LONDON, ONT.—The work of surveying the river, with a view to the establishment of a city sewage farm near Woodland cemetery, has been about half completed.—John McDonald will erect a double brick residence on Wolfe s.reet.—McBride & Farncombe, architects, are taking tenders for an addition and alterations to the Weston Wire and Nail Wor. s, addition to house on Dufferin aven.; addition and alteration to a house on Queen's avenue, brick residence on Waterloo street, and stable on Mattland street.—Herbert Matthews, architect, is receiving tenders for an addition to St. George's school on Waterloo street, and an addition to Lorne avenue school.—Mr. J. Watson, of St. Thomas, will erect two brick stores and residences combined at the corner of Hamilton road and Adelaide street, to cost \$2,000.

MONTREAL, QUE.—Several residences will be erected this summer at Point a Pic, Quebec, among which will be Mr. Lavery, one villa, M. H. Warren, one store, Melle Connolly, one cottage.—Building permits have been granted as follows: Five houses, 50×119 ft., on Bourgeois street, for John Morison; one school, 35×45 ft., 4 stories, brick, Desery street, for School Commissioners masonry and brick work, Z. Benoit; carpenter and joiner's work, A, Teliault. Two houses and one store, stone and brick, on St. Marie street, for N. Duford. Estimated cost \$5,000. Carpenter and joiner's work awarded to O. Despatie.—The directors of the Hospital for the Insane, Verdun, have sold \$35,000 worth of 4 per cent. bonds. The money is to be used in the erection of an extension to the male wing and general improvements.—The necessity of enlarging the main sewer on St. James street is becoming apparent.

WINNIPEG, MAN. --The Board of Works has recommended the construction of the following works: an asphalt pave-ment, 24 feet wide, on Donald street, from Assiniboine avenue to Portage avenue, cost \$28,000; an asphalt pavement, 24 feet wide, on Assiniboine avenne, from Donald street to Kennedy street, cost \$11,800; an asphalt pavement, 24 feet wide, on Kennedy street, from Assimiboine avenue to Broadway, cost \$10,500; an asphalt pavement on Hargrave street, 24 feet wide, from Assiniboine avenue to Portage avenue, cost \$30,000.-W. Blackwood will build an \$8,000 residence on Colony street this summer. It will be built of local brick and native stone.-The new block, corner Graham avenue and Main street, for John Dyke, of England, will be four stories, brick and stone, 25x 150 feet. The foundation is to be of stone with brick superstructure, relieved by stone dressings. Down stairs there will be three stores, one fronting on Main street and two small ones on Grahame. The upper part is to be arranged for offices and rooms.

TORONTO, ONT.—The Chairman of the Board of Control will receive proposals until the 15th of July for the privilege of constructing and maintaining a telephone service for the citizens of Toronto for a term of five years or longer.—The City Engineer has recommended the construction of a twenty-four foot asphalt roadway on Brunswick avenue, between College and Ulster streets, at a cost of \$10,350.—The Board of Control has made a grant of \$6,000 to the Industrial Exhibition Association, for the erection of machinery buildings.—Building perimits have been granted as follows: Jas. McIntosh, 2½ storey bk. engine house, n. side Esplanade, near George street, cost \$1,200; W. A. Hart, 1201 Queen west, 2 storey r. c. factory, n. side Pearson ave., w. of Sorauren, cost \$1,200; A. Coulter, brick store and dwelling, cor. De Grassi and Gerrard streets, cost \$1,400; L. J. Cosgrave, three-storey bk. hotel, southwest cor. of Queen street and Strachan ave., cost \$7,000; J. T. Pears, cor. Pears are, and Avenue road, bk. residence, cost \$1,400; Provident Investment & Guarantee Co., 2 storey bk, stables, 570 Yonge

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st., cost \$1,700; Wm. Mullock, 2 storey bk. addition and alterations, 149 Yonge st., cost \$7,000; Carroll Bios., pr. s. d 2 storey and attic bk. dwelling, 196 Berkeley st., cost \$4,000; E. J. Davies, Copland Brewing Co., 2 storey and attic bk. dwelling, 194 Berkeley st., cost \$2,000; Jas. Mason, 2 storey and attic bk. dwelling, 35 Queen's Park, cost \$8,000.

FIRES.

A summer hotel at Sturgeon Point, Ont., owned by Wm. Simpson, has been burned. Loss heavy, with small insurance.—Johnson's roller mills at Dresden, Ont., were burned recently.—McKendry & Co.'s dry goods establishment at Toronto, was gutted by fire last week. Loss \$200,000.—The Presbyterian church at Millbrook, Ont., was burned on the 4th inst. Insured for \$2,500.

CONTRACTS AWARDED.

GRIMSBY, ONT.—Mrs. Makepeace has awarded the plumbing contract of her new residence to Frank Squibb, Hamilton.

PETROLEA, ONT.—O'Hara & Co., of Toronto, secured the \$172,000 debentures for waterworks purposes, at a premium of 3%.

ST. CATHARINES, ONT.—Chatfield & Co. have been awarded the contract for the hot water heating of Mrs. Haynes' residence.

HAMILTON, ONT.—The Gurney-Tilden Co., Ltd., report a good demand for furnaces, radiators, etc., orders coming in from coast to coast.

TORONTO, ONT. — J. A. Berridge, painter, 518 Manning ave., has been awarded the contract for painting and glazing the High School at Port Hope.

Welland, Ont.—J. E. Cutler has been awarded the contract for the supplies for a residence at Fort Erie, and also for building a residence at Wamfleet for C. McCallum.

MILVERTON, ONT.—Thirteen tenders were received for the new school building. The contract has been awarded to Jacob Bundscho, Neuert Bros. receiving the sub-contract for mason work.

BRANTFORD, ONT.—The contract for all trades for a brick school building for Balfour street mission, West Brantford, has been awarded to Havill & Whiteham, of this city. Hewitt & MacLaren, architects.

ST. SCHOLASTIQUE, QUE.—Vincent & Dufresne, C. E., of Montreal, have been awarded the contract of straightening and deepening the Belle Riviere near St. Scholastique, in the county of Two Mountains. There will be 53,000 yards of dredging.

PORT HOPE, ONT.—The contracts have been awarded as follows, in connection with the new High School building: Mason and brick work, John McGill; carpentering and joinering, S. Coombs; slating and galvanized iron work, Jos. Brundrette; plumbing, Millward & Son.

HULL, QUE.—The Christian Brothers have given the contract for erecting a college building at Buckingham to contractor Fauteaux, of this city.—The council have accepted the offer of R. Wilson Smith, of Montreal, for the purchase of \$65,000 of debentures, and of Mr. Bazin, of Ottawa, for \$10,000.

ORILLIA, ONT.—Kennedy, McVittie & Co., architects, have awarded the contract for Rev. Father McPhillips' presbytery to J. R. Eaton, of this town. It will have all modern improvements, and will be of brick, with stone dressings. The same architects have started the work on Sanderson's residence on Ceda. Island.

WINNIPEG, MAN .- The contract for

completion of the Dussern school has been awarded to Kelly Bros. & Co. at \$1,640, and that for the Argyle school to T. M. Harrington, his tender being \$1,825.—The Manitoba government opened 12 tenders for \$100,000 worth of drainage debentures, bearing interest for 30 years at 4½ per cent. The tender of Geo. A. Stimson & Co., Toronto, was accepted. They offered \$113,451.

KINGSTON, ONT.—Contracts for building a residence on University avenue for A. Malone have been awarded as follows: Mason work, W. Langdon; carpentering, J. Hooper; plumbing, heating and metal work, McKelvey & Birch; painting and glazing, Savage Bros.—The successful tenderers for alterations and improvements to Livingston, Bros' store are: Mason work, A. Newlands; carpenter's work, R. Gaw & Co.; metal work, Simmons Bros. & Pollie; plumbing and gas fitting, J. Jamieson. The architect is W. Newlands.

MONTREAL, QUE. — Mr. St. Jean, architect, has awarded a contract for important reparations to the church of St. Athanase, d'Iberville, to Poileau & Bros.—L. A. Montbriand, architect, has awarded contracts as follows. 2 houses on Bleury street for Mr. Levesque—Masonry, A. Dufort; carpenter and joiner's wcrk, W. Gariepy; roofing, plumbing and heating, Lerperance & Therriault; brick, Olo. Deguise; plastering, H. Contant; painting and glazing, A. Delage; iron work, Dominion Bridge Co. Same architect has let the masonry contract for one house on St. Denis street for A. R. Archambault, to Latreille & Bros.

BUSINESS NOTES.

Landry Nelson, plumber, Ottawa, is dead.

W. B. Inwood, plumber, Toronto, has assigned.

The assignment is reported of George Beaucage, contractor, Quebec.

Hurtubise & Co., hardware merchants, Montreal, is in financial difficulties.

W. T. Stewart & Co., Toronto, have commenced business as felt and slate roofers.

Wilford Baril, paint merchant, Montreal, has made an assignment. Liabilities, \$28,000.

A partnership has been formed between Thomas Armstrong and Edward Petit, plumbers, Montreal.

A. B. Dodswell, hardware merchant, foronto, has placed his estate in the hands of an assignee.

Crevier & Hetu, plumbers, Montreal, have dissolved partnership. S. C. Crevier will continue the business.

George Howe, dealer in paints and

oils, Ottawa, has assigned to P. Larmouth. Liabilities, \$14,000; assets, \$12,000.

The Attorney-General has taken proceedings at Montreal for \$112,500 against Ald Prefontaine and Messis. C. N. Armstrong and F. X. Choquette, trustees of the subsidy of \$112,000 voted by the Quebec Legislature during the Mercier regime for the settlement of claims against the Montreal and Sorel Railway Company. It is claimed that the payments were irregularly made.

STANDARD SHAPES OF STRUCTURAL IRON.

Uniformity of rolled sections of iron and steel has long been a desideratum, says the Engineering Record, and considerable progress has been made towards securing it in Europe, where very convenient and rational systems of decimal increments and common sizes have been accepted by many of the leading mills, and great convenience and simplification of proportioning and ordering have resulted. The adoption of similar general regular sections has been urged in this country, and a pronounced beginning has been made by the Association of American Steel Manufacturers. On Jan. 17 last this association adopted certain rational sections of I beams, channels and angles as standard, and announced that members of the Association charge for any weight ordered which is not in the schedule, the price for the next higher weight there given; also that an extra charge of one-tenth of a cent per pound will be made on bills ordered to an accuracy greater than three-fourths of an inch of total length.

Steel sections only are enumerated, and the Carnegie Steel & Iron Company has just issued a list of sizes, tables and diagrams of the different shapes in which the weight is calculated at area x 3.4. All beam and channel flanges slope uniformly 16^{2}_{3} per cent. = 927'42'' = 1in 6, and the radu of fillets and corners are simply functions of minimum web thicknesses. Diagrams give the scales of the minimum weights and corresponding three principal dimensions, and the usual moments, coefficients, etc., are given in accompanying tables. Twelve heights of beams, from 24 to 3 inches, 10 lengths of channels, from 15 to 3 inches, and corresponding cast separators, and 20 sizes of angles, from 6 × 6 inches to 34 × 34 inch,



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Railway and Contractors' Plant.

BRIDGE BUILDERS

BELLEVILLE, ONT.

are given. All of these have a section index and can be ordered by it from any mill in the Association, which will aim both to keep them in stock and to roll them specially more promptly than any special sizes.

HORSE HAULAGE.

At a meeting of the Society of Engineers, held at the Royal United Service Institution, Whitehall, on the 2nd inst, Mr. S. Herbert Cox, president, in the chair, a paper was read by Mr. T. H. Brigg, on "The Mechanics of Horse Haulage," a subject which has importance for contractors.

The author pointed out that it was well known, first, that it is easier for a horse to draw a two-wheeled cart up a hill if the load be put forward; and, secondly, that on the level or going downhill the load should be placed at the back. The principle involved in the first case is, that a horse can pull and exercise his force better when the weight is applied so as to hold him more firmly to the ground; whilst in the second case, when a horse does not require to exert much force to keep the load in motion, he should be relieved of all the buiden possible, and even himself be partially carried, in order to save his legs both from physical exertion and percussion, thus enabling him to travel further and easier. This moving of the load to and fro has been practised with two wheelers of every description ever since the time when Roman charioteers stood backward or forward in their chariots as they travelled up and down hill. Exactly the same principles, only to a greater extent, apply to horses drawing four-wheeled waggons, &c., with their heavier loads, though perhaps the application of the principles is not so obvious to the ordinary observer as in the case of two-wheeled vehicles. The author explained that his system of attaching draught animals to vehicles is one which automatically confers those mechanical conditions which enable them to do the most work at the least cost. In a perfectly simple manner the shafts of both two and four-wheeled vehicles are made to constitute the necessary mechanical levers, which are so actuated by the horse's own pull, and by an automatic upward lift, that at one time the horse makes himself equal to a much bigger and heavier horse, therefore can pull a a bigger load, whilst at other times he is equal to a strong but lighter horse, thus able to move along with ease and comfort. The acting and co-acting forces are effective in causing the wheels at certain convenient times to ease the horse by carrying a part of his weight, whereas at other times when climbing hills and starting loads, & , the horse is enabled automatically to transfer such a proportion

of the load to his own body as the condition of the road may require. In this way his feet not only obtain a better grip upon the ground, but his body gains a two-fold mechanical advantage over his load. With the new system there is no possibility of the horse having to carry a load downhill or on level ground, as with the old system. The horse will maintain a good and sprightly action over a greater period of time, because the attachment avoids needless hammering of his legs and feet, thus causing him less pain, less exhaustion, and giving the animal greater speed and power of endurance. By the Brigg attachment the author showed that the horse's useful life is in many cases more than doubled, for he is not hampered on good roads by having to carry any portion of the load or vehicle, but the reverse; thus his energy, his legs and his feet are effectively and profitably preserved, and the author claims that it practically gives a new life to old horses.

The municipal corporation of the county of Essex have made application to the Ontario Crown Lands Department for patents of two town lots on Bedford and Peter streets, in the town of Sandwich, on which are erected the county gaol, court house and registry office. The buildings have been for many years standing where they are, and their total value is \$65,000 or \$70,000. Only recently they discovered that the site belonged to the Ontario Government.

Electric cranes, operated by the circuits supplying power and light, are used at the Sandycrost foundry in England. A novel feature is the addition of electromagnets to such cranes for readily lifting pieces of iron and steel, one magnet, excited by 51/2 amperes at 110 volts, being capable of supporting any weight up to two tons. So great a labor saver is this magnetic crane, it is stated, that three men now do in 15 minutes work that which formerly kept six men busy for an hour and a half.

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Perhaps the most remarkable feat of building moving was that successfully accomplished in Chicago recently when a large stone church, with a massive square tower, was jacked up from its foundations and moved a distance of fifty feet to another lot. The church was moved in order to admit light into the rooms of a big hotel on Michigan avenue, at the corner of Twenty-third street. The hotel directly adjoined the Immanuel Baptist church, and new owners of the hotel figured that the rooms next the church would-be worth vastly more if they had more light. They paid for the entire cost of moving the church, bought new land for it to stand on, and also bought the lot from which it was moved. The moving was done with entire safety and success.

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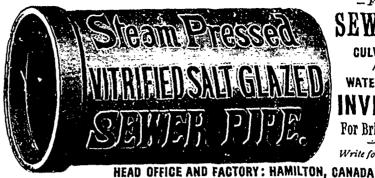
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PURIFICATION OF DRINKING WATER BY MEANS OF FILTRATION.

The importance of pure water in determining the health of a community has long been recognized and cannot be over-estimated.

At the present time it is impossible for many cities and large towns to obtain the required amount of water from a naturally pure source, and in the future, with the enormous increase in population and the number of manufacturing towns established along the banks of the small strems and rivers, this difficulty will be manifestly greater. Therefore the possibility of purifying, by artificial means, water which has been polluted by sewage and which contains both organic matter and bacteria, has become a question of great importance in many communities.

In considering any method for accomplishing this object, two things must be borne in mind, viz., its efficiency and its cost. The objections which have been urged against filtration are:

First, that while a filter might remove the coarse material in suspension, it would allow all the organic matter in solution and the bacteria to pass through unchanged.

Second, that even if a filter were efficient for a short time, it soon becomes clogged and saturated, and then the condition of water which passes through is worse than when it entered.

Third, that the cost and maintenance of a properly constructed filter is so great that it cannot be universally adopted as a means of purifying water.

The report of the Massachusetts State Board of Health for the year 1894 contains some very interesting and important facts upon all these points.

For the past seven years the board has maintained an experimental station at Lawrence for the sole and express purpose of testing the efficacy of the filtration of water to purify it and render it fit for household purposes. The water tested was that of the Merrimac river, which is lined from source to mouth with manufacturing towns and which may be taken as a fair sample of river water contaminated with a considerable amount of organic matter.

The filters were of all sizes and thicknesses, from those a few feet square and ten inches in depth to the large filter covering two and one-half acres, through which the water supplied to the city of Lawrence has been filtered since 1893.

Chemical and bacteriological examinations were made weekly, and sometimes daily, of the water of ingress and egress. Sand of different sizes was used, and the filters were run both intermittently and continuously. The results of this careful and painstaking investigation, extending over a number of years, and every source of error being eliminated, are both astonishing and gratifying.

From a bacteriological standpoint they prove that a properly constructed and properly managed filter will remove from 98 to 98.84 per cent. of the ordinary bacteria in water, and that if such bacteria as the bacillus prodigiosous, which is very similar to the typhoid bacillus, be added to the water in varying proportions, the filter will remove from 99 to 99.993 per cent. The organic matter in solution is greatly diminished and the water is chemically purified.

Moreover, the efficiency of the filter, instead of diminishing, increases with age and use, owing to the formation of a gelatinous coating about each grain of sand, which serves to entangle the bacteria in their progress.

The rate of filtration may reach five million gallons daily per acre of filter without impairing the efficiency. If the surface clogging is properly removed, there will be no appreciable difference in the quality of the filtered water during or after the process of removal.

Finally, the cost of construction and maintenance of such filters is not so great as was supposed, and is not to be compared with the benefits derived from their use. The one which has been in successful use in the city of Lawrence proves that the plan is practicable in supplying cities with potable water. It seems to us that the knowledge derived from these experiments should be spread abroad and the attention of municipal authorities called to them.—Medical Record.

SPECIFICATION FOR BRICK PAVING.

The specification for brick paving adopted by the city of Peoria, Ill., for the coming year's work, includes the following:-The foundation is to be 6 in. of concrete, composed of one part natural cement, 11/2 parts sharp sand, and four parts broken stone concrete, covered with a zin. cushion of sand. The size of the bricks is to be 21/2 in. by 4 in. by 8 in.. or 3 in. by 4 in. by 9 in., and they are required to withstand the following tests:-(1) A transverse tests flatwise, in which they shall show a nodulus of rupture of 2,200 lb. per square inch; (2) an absorption test, in which, after fortyeight hours' immersion, they shall show an absorption of not more than 2 per cent. of their own weight; (3) an abrasian test, in which twelve bricks are placed in a cylindrical rattler, 24 in. by 3 ft., with 300 lb. of smoothly-worn scrap iron, in pieces varying from 1/2 lb. to 5 lb. weight, and revolved one hour at fifteen revolutions per minute, after which the loss by weight for the smaller brick is to be not more than 9 per cent., and of the larger brick not more than 7 per cent. The cement is to be tested for fineness, time of setting, soundness and tensile strength. In the pavement the bricks are to be set on edge in rows running transversely across the street, except at street intersections, where the rows shall make an

angle of 45 deg. with the curb lines. After laying, the bricks are to be settled by a roller weighing not less than 250 lb. per lineal inch, or by tamping by a 60 lb. rammer on a 2 in. by 12 in. by 12 ft. plank. The joints are to be filled with sand.

NEW YORK'S GREAT SEWER.

In their report to the Bronx Valley sewer commission, of which Mayor Strong and other prominent New Yorkers are members, the engineers of the commission recommended that the location of the sewer southwardly through the valley follow closely the general line of the river through the low land to the northerly end of Bronx park, and should then take a general easterly course to the outlet at High Island. This great sewer will be one of the largest drainage channels in the world. The size of the sewer, based on a prospective population, is submitted as follows. Kensico to White Plains, pipe sewer two feet in diameter; White plains to Haitsdale, brick sewer equivalent to circular sewer, three feet in diameter; Hartsdale to Tuchahoe, three and a half feet in diameter; Tuchahoe to Woodlawn, four feet in diameter; Woodlawn to outlet, five feet in diameter. The length of the sewer from Kensico to outlet at High Island will be 21.7 miles.

The cost of the sewer from High Island to Kensico, inclusive of land damages and improvements on the river, is estimated by the engineers at \$3,617,-310.

ONTARIO GOOD ROADS ASSOCIATION.

The annual meeting of the Ontario Good Roads Association will be held at the grounds of the Industrial Exhibition, Toronto, on Tuesday, the eighth day of September.

Arrangements will be made for a special exhibit of modern roadmaking machinery, crushers, bridges, culvert pipe, etc., during the fair. For this purpose the exhibition authorities will set apart sufficient ground to enable exhibitors to show the working of their machines. A. W. Campbell, C. E., Provincial Instructor in Roadmaking, will assist in completing arrangements.

The Association desires and is justly entitled to the co-operation of all manufacturers and others interested.

ARPHALT BETON.

Another kind of asphalt beton has been introduced in Austria, under government direction, a principle recommendation being the quickness of hardening which characterizes it. It is described as an earthy brown powder, having a slight odor of tar, and consists mainly of sulphur and iron slag, analysis showing 33.53 per cent. of sulphur, 8.21 of tar, 27.82 of iron slag, and 0.43 water, the iron slag containing 43.01 per cent. of silica, 22.42 of ferrous oxide, 30.9 of alumina, and 4.16 of The hardness is attributed chiefly lime. to the formation of an iron sulphide, the tar acting as a reducing agent. The silica, clay, and lime, though possibly combining at a slower rate, are regarded simply as impurities.

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CONDITION OF THE MARKET.

TORONTO: There is a fair demand for builders' supplies from country points, but of city trade nothing encouraging can be said. Heavy hardware is a little easier, and plumbers' supplies also show a slight improvement. Galvanized iron receives some call. On brass goods a material advance has taken place. The glass market is quiet, and dealers hold good stocks in hand. Paints and oils are weakening.

MONTREAL: A fairly active trade is reported in lead pipe and galvanized iron. In iron pipe the feature of the market is the irregularity in discounts. Plumbers' supplies are quiet. The arrivals of cement for last week were 3,500 barrels of English and 6,000 Belgian, as against 2,650 barrels of English for the previous week,

2,650 barrels of English for the previous week,	_ delivered	14 CO	14 ∞	
	Large flat Rubble, per toise,	.0	18 ∞	4od, hot cut, per 10, lbs
making a total to date of 21,770 barrels Eng-	delivered	18 00 50	50	20d, 16d and 12c, hot cut, p
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1.U31 BER.	Granite (Stanstead) Ashlar, 6		25	or blued, per 100 lbs
A A	in. to 12 in., rise 9 in., per it. Mont Freestone		60 70	3d to 5d cold cut, not polishe
CAR OR CARGO LOTS.	Thomson's Gatelawbridge, cu. ft.		75 80	or blued, per 100 lbs
Toronto. Montreal.	Credit Valley Rubble, per car		••	FINE BLU
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1 x 10 and 12 dressing20 00 22 00 18 00	sion, per cubic foot Clark's N. B. Brown Stone,	60	75	4d to 5d, " "
	Clark's N. B. Brown Stone,			3d, "
Spruce culls	per cubic foot, f.o.b Brown Free Stone, Wood-	1 15	1 00	
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tinch dressing and better2000 2200 1300 2000	point, Sackville, N.B., per cub. ft.	1 15	1 00	inch, per 100 lbs
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-1/ and thicker cutting up	Cape Bauld, N. B., Brown			SLATIN
plank24 00 26 00 22 00 25 00	Freestone	90	70	5d, per 100 lbs
inch strips, 4 in to 8 in. mill	Cocaigne, N. B., Gray Free-	-00		4d, " "
	stone (olive-green)	90	7)	3d, " "
Inch string, common	OHIO PREESTONE, PROM THE GR.	AFTON ST	ONE CO. S	2d, " "
11/2 inch flooring	QUARRIES.	92	1 (0	COMMON BA
1% inch flooring	No. 1 Buff Promiscuous No. 1 Buff Dimension	95	1 05	z inch, per 100 lbs
XXX shingles, sawr, per M	No. 1 Blue Promiscuous	66	70	74 " " "
	No. 1 Blue Dimension	65	75	¥ " " · · · · · · · · · · · · · · · · ·
XX shingles, sawn	Sawed Ashlar, No. 1 Buff,	-		CLINCH
VAI D QUOTATIONS.	any thickness, per cub. ft	1 10	1 20	
	Sawed Ashlar, No. 1 Blue,	٠.		3 inch, per 100 li
Mill cull boards and scantling 10 00 10 00 12 00 Shipping cull boards, pro-	any thickness, per cub. ft	8,	90	2 and 21/4 " " "
miscuous widths 13 00 13 00	Sawed Flagging, per sq. ft., for each inch in thickness.	0634	071/3	11/2 and 11/4 "
Shipping cull boards, stocks 1600 1600	Above prices cover cost freight :			12 "
Hemlock scantling and joist	small lots add 5 to 10 cents per cu	bic foot.	•	1 "
up to 16 ft	small lots add 5 to 10 cents per cu Quebec and Vermont rough			SHARP AND FLAT
Hemlock scantling and joist	granite for building pur-			3 inch, per 100 lb
up to 18 ft	poses, per c.ft. f.o.b. quarry 3	3 1 50		2½ and 3½ " " "
Hemlock scantling and joist up to 20 ft	For ornamental work, cu. it. 3	\$ 20		2 and 2½ " " "
Cedar for block paving, per	Granite paying blocks, 8 in. to	**		11% and 11% " " "
cord	12 in. x6 in. x41/2 in., per M Granite curbing stone, 6 in.x	50 ∞		174
Cedar for kerbing, 4 × 14.	no in the lineal foot	70		1 " "
Cedar for kerbing, 4 × 14,	20 in., per lineal foot	70		STEEL W
Cedar for kerbing, 4 × 14, per M	20 in., per lineal foot SLATE.	70		STEEL W
Cedar for kerbing, 4 x 14, per M	zo in., per lineal foot SLATE. Rocfing (\$\mathbb{E}\$ square).			Steel Wire Nails, 75 %
Cedar for kerbing, 4 × 14, per M	zo in., per lineal foot SLATE. Rocting (\$\mathcal{E}\$ square). red	18 00	20 00	Steel Wire Nails, 75 % Iron
Cedar for kerbing, 4 × 14, per M	zo in., per lineal foot SLATE. Roefing (B square). 11 red 12 purple	18 00 00	10 00	Steel Wire Nails, 75 % Iron
Cedar for kerbing, 4 × 14, per M	zo in., per lineal foot SLATE. Rocfing (\$\varphi\$ square). red purple urtading green	18 00 00 9 00	10 00	Steel Wire Nails, 75 % Iron
Cedar for kerbing, 4 × 14, per M	zo in., per lineal foot SLATE. Rocfing (& square). red purple urtading green block	18 00 00 0 00 8 00	10 00	Steel Wire Nails, 75 % 1ron Iron pipe, ¼ inch, per foot "" ½ "" "" ½ "" "" ½ "" "" ½ "" "" ½ ""
Cedar for kerbing, 4 × 14, 14 00 14 00 15 01 15 01 15 00 16 00 16 00 15 00 16 00 16 00 16 00 16 00 16 00 16 00 16 00 17 00 17 00 17 00 18 00 19 00	zo in., per lineal foot SLATE. Rocfing (\$\varphi\$ square). red purple urtading green	18 00 00 0 00 8 00 25 00	10 00	STEEL W. Steel Wire Nails, 75 % **Tron** Iron pipe, ½ inch, per foot "" " ½ " " " " " " " " " " " " " " " "
Cedar for kerbing, 4 × 14, per M	zo in., per lineal foot Rocfing (\$\varphi\$ square). red purple u-tading green black Terra Cotta Tile, per sq	18 00 00 0 00 8 00	10 00	Steel Wire Nails, 75 % 1 Tron Iron pipe, ¼ inch, per foot 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Cedar for kerbing, 4 × 14, 14 00 14 00 15 M	zo in., per lineal foot SLATE. Rocfing (\$\varepsilon \text{square}\). "red "purple "urbading green "black Terra Cotta Tile, per sq Ornamental Black Slate Roof- ing	18 00 00 0 00 8 00 25 00	10 00	Steel Wire Nails, 75 % Iron Iron pipe, ½ inch, per foot " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " ½ " "
Cedar for kerbing, 4 × 14, per M	zo in., per lineal foot SLATE. Rocfing (& square). "red "purple "urlading green "black Terra Cotta Tile, per sq Ornamental Black Slate Roofing PAINTS. (In oi	18 00 00 0 00 8 00 25 00 8 50	10 00 6 00 5 50	STEEL Wire Nails, 75 % Iron Iron pipe, ¼ inch, per foot """ ¼ """ """ ¼ """ """ ¼ """ """ ¼ """ """ 1 ½ """ "" 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ "" 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ "" 1 ½ """ """ 1 ½ "" """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ "" """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ "" """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ "" """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ "" """ 1 ½ "" """ 1 ½ "" """ 1 ½ "" """ 1 ½ "" """ 1 ½ "" "" 1 ½ "" """ 1 ½ ""
Cedar for kerbing, 4 × 14, per M	zo in., per lineal foot Rocfing (& square). red purple u-tading green black Terra Cotta Tile, per sq Ornamental Black Slate Roof- ing PAINTS. (In oi White lead, Can., per 100 lbs. 6 2	18 00 00 0 00 8 00 25 00 8 50 77, 39 78.	10 00 6 00 5 50	Steel Wire Nails, 75 % 1ron Iron pipe, ¼ inch, per foot "" ½ "" "" "" ½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" Toronto, 65 per cent. dis
Cedar for kerbing, 4 × 14, per M	zo in., per lineal foot SLATE. Rocfing (\$\varepsilon \text{ square}\$). "red "purple "urdading green black Terra Cotta Tile, per sq Ornamental Black Slate Roofing PAINTS. (In of White lead, Can., per 100 lbs. 6 2 "zinc, Can., u " 6 5	18 00 00 9 03 8 00 25 00 8 50 71, 39 16.	10 00 6 00 5 50 5 50 6 00 6 50 7 50	STEEL Wire Nails, 75 % Iron Iron pipe, ¼ inch, per foot """ ¼ """ """ ¼ """ """ ¼ """ """ ¼ """ """ 1 ½ """ "" 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ "" 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ "" 1 ½ """ """ 1 ½ "" """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ "" """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ "" """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ "" """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ """ """ 1 ½ "" """ 1 ½ "" """ 1 ½ "" """ 1 ½ "" """ 1 ½ "" """ 1 ½ "" "" 1 ½ "" """ 1 ½ ""
Cedar for kerbing, 4 × 14, per M	zo in., per lineal foot	18 00 00 9 03 8 00 25 00 8 50 71, 39 75.	5 50 6 00 6 50 7 50 4 50 5 00	STEEL Wire Nails, 75 % Fron Iron pipe, ½ inch, per foot " " ½ " " " " " " " " " " " " " " " "
Cedar for kerbing, 4 x 14, per M	zo in., per lineal foot Rocfing (\$\varphi\$ square). " red " purple " urtading green black Terra Cotta Tile, per sq Ornamental Black Slate Roof- ing PAINTS. (In oi White lead, Can., per 100 lbs. 6 2 " zinc, Can., " " 6 5 Red lead, Eng	18 00 00 00 8 00 25 00 8 50 7, 30 75 0 750 0 175	10 00 6 00 5 50 5 50 6 50 6 50 7 50 4 50 5 50 1 75	Steel Wire Nails, 75 % 1ron Iron pipe, ¼ inch, per foot " " ¾ " " " " " " " " " " " " " " " "
Cedar for kerbing, 4 x 14, per M	zo in., per lineal foot	18 00 00 00 8 00 25 00 8 50 8 50 7, 39 75 0 5 50 0 1 75 0 1 00 0 12	10 00 6 00 5 50 5 50 6 50 6 50 7 50 4 50 5 50 1 75	Steel Wire Nails, 75 % Iron Iron pipe, ½ inch, per foot " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " 1½ " " " " 2 " " Toronto, 65 per cent. dis Montreal, 60 to 65 per Lead pipe, per lb
Cedar for kerbing, 4 x 14, per M	zo in., per lineal foot	18 00 9 00 8 00 25 00 8 50 17, 20 1b. 15 5 50 17 50 1 7 50 1 1 00 1	5 50 6 00 6 50 7 50 4 50 5 50 100 115 90 100 125 90 100 125 90 100 125 90 100 100 125 90 100 100 125 90 100 100 125 90 100 100 125 90 100 100 125 90 100 100 125 90 100 100 125 90 100 100 125 90 100 100 125 90 100 100 125 90 100 100 125 90 100 100 125 90 100 100 125 90 100 100 125 90 100 100 125 90 100 100 100 100 100 100 100 100 100	Steel Wire Nails, 75 % 1ron Iron pipe, ¼ inch, per foot " " ¾ " " " " " " " " " " " " " " " "
Cedar for kerbing, 4 x 14, per M	zo in., per lineal foot	18 00 00 00 8 00 25 00 8 50 7 50 0 7 50 0 1 7 50	550 600 650 750 450 500 100 175 90 100 10 12 3 5	Steel Wire Nails, 75 % Iron Iron pipe, ½ inch, per foot " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " Z " " " Z " " " Z " " " Z " " " Z " " Z " " Z " " Z " " Z " " Z " " Z " " Z " " Z " " Z " " Z " " Z " " Z " " Z " " Z " " Z " " Z adl Lead pipe, per lb
Cedar for kerbing, 4 x 14, per M	zo in., per lineal foot	18 00 9 00 8 00 25 00 8 50 71, \$\pi 1b\$. \$ 5 550 0 7 50 0 175 0 100 0 175 0	5 50 6 00 6 50 7 50 4 50 5 50 10 115 90 1 00 110 115 90 1 00 10 115 7 12 7 12 7 12	Steel Wire Nails, 75 % Iron Iron pipe, ½ inch, per foot " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " ½ " " Toronto, 65 per cent. dis Montreal, 60 to 65 per Lead pipe, per lb
Cedar for kerbing, 4 x 14, per M	zo in., per lineal foot	18 00 9 00 8 00 25 00 8 50 7 50 0 7 50 0 5 75 0 1 00 0 1 22 5 10 0 5 20 7 50 0 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1	5 50 6 00 5 50 1 60 1 75 0 1 00 1 2 3 5 15 20 7 1 12 14 20	Steel Wire Nails, 75 % Iron Iron pipe, ¼ inch, per foot "" 34 "" "" "" 14 "" "" "" 14 "" "" "" 14 "" "" Toronto, 65 per cent. dis Montreal, 60 to 65 per Lead pipe, per lb. "" Waste pipe, per lb. Discount, 30 % off in sm Galvant Adam's—Mar's Best and C
Cedar for kerbing, 4 x 14, per M	zo in., per lineal foot	18 00 00 00 8 00 25 00 8 50 7, \$\frac{1}{2}\$ \(\text{ib.}\) 5 5 50 0 7 50 0 175 0 10 5 10 5 10 5 5 20 7 12 5 10 5 5 20 7 12 5 10 5 5 20 7 12 5 10 5 5 20 7 12 5 10 5 5 20 7 12 7 12	10 00 6 00 5 5 50 5 50 6 00 6 00 7 50 4 50 50 100 102 100 102 102 102 102 102 102 10	Steel Wire Nails, 75 % Iron Iron pipe, ½ inch, per foot " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " " " Z " " " " " "
Cedar for kerbing, 4 x 14, per M	zo in., per lineal foot	18 00 9 00 8 00 25 00 8 50 7, \$9 16. 5 5 50 0 5 50 0 1 70 0 12 5 10 5 20 7 12 10 10 10 10 10 10 10 10 10 10 10 10 10	5 50 6 00 6 50 7 50 4 50 5 50 10 10 12 3 5 15 20 7 7 12 12 12 12 12 18	Steel Wire Nails, 75 % Iron Iron pipe, ½ inch, per foot " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " " Z " Toronto, 65 per cent. dis Montreal, 60 to 65 per Lead pipe, per lb Waste pipe, per lb Discount, 30 % off in sm Galvant 16 to 24 guage, per lb 26 guage, " "
Cedar for kerbing, 4 x 14, per M	ro in., per lineal foot	18 00 9 00 8 00 25 00 8 50 7, \$\frac{9}{16}\$. 5 5 5 50 0 1 75 0 1 75 0 1 75 0 1 75 1 77 1 72 1 77 1 75 1 77 1 75 1 75 1 75 1 75 1 75	5 50 6 00 6 50 7 50 4 50 5 20 1 00 1 175 90 1 00 12 2 15 12 12 12 18 58 59 62 63 63	Steel Wire Nails, 75 % Iron Iron pipe, % inch, per foot " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " Toronto, 65 per cent. di Montreal, 60 to 65 per Lead pipe, per lb
Cedar for kerbing, 4 x 14, per M	zo in., per lineal foot. Roching (& square). red purple urtading green black Terra Cotta Tile, per sq Ornamental Black Slate Roof- ing PAINTS. (In oi White lead, Can., per 100 lbs. 6 2 rine, Can., " 6 5 Red lead, Eng 4 0 venetian, per 100 lbs 1 6 vermillion 9 Indian, Eng 1 Yellow ochre Yellow chrome 1 Green, chrome 1 Black lamp 2 Black lamp 2 Black lamp 2 Blue, ultramarine 2 Blue, ultramarine 2 Blue, inseed, raw, & Imp. g.al. 3 bolled 1 refined, 7	18 00 9 00 8 00 25 00 8 50 7 50 0 7 50 0 1 75 0 1 12 5 2 10 5 2 10 5 2 10 6 2 10 6 2 10 6 2 10 6 3 10	5 50 6 00 6 50 7 50 4 50 5 20 1 00 1 175 90 1 00 12 2 15 12 12 12 18 58 59 62 63 63	Steel Wire Nails, 75 % Iron Iron pipe, ¼ inch, per foot "" ½ "" "" "" ½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ " "" 1½ " "" 1½ " "" 1½ " "" 1½ " "" 1½ " "" 1½ " "" 1½
Cedar for kerbing, 4 x 14, per M	zo in., per lineal foot Rocfing (* square). " red " purple " urtading green black Terra Cotta Tile, per sq Ornamental Black Slate Roof- ing PAINTS. (In oi White lead, Can., per 100 lbs. 6 2 " zinc, Can., " " 6 5; Red lead, Eng 40 " veretian, per 100 lbs 16 " vermillion 9; " Indian, Eng 10; " Vellow ochre 12 Yellow chrome 12 Green, chrome 12 Green, chrome 12 Black lamp 12 Blue, ultramarine 12 Oil, linseed, raw, & Imp. gal. 3; " boiled " refined," 7	18 00 900 25 00 25 00 8 50 71, \$\frac{3}{2}\$ 18. 5 5 7 50 0 1 75 0 1 75 0 1 75 0 1 75 100 25 100 25 100 25 100 25 100 25 100 25 100 25 100 25 25 20 20 20 20 20 20 20 20 20 20 20 20 20	5 50 6 00 5 5 50 5 50 6 50 7 50 4 50 5 00 1 10 175 90 1 100 112 12 13 13 15 12 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	Steel Wire Nails, 75 % Iron Iron pipe, ½ inch, per foot " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " Z ad Lead pipe, per lb
Cedar for kerbing, 4 x 14, per M	ro in., per lineal foot	18 00 9 00 28 00 25 00 8 50 7, \$\sqrt{15}\$. 5 5 50 0 175 0 175 0 175 0 175 175 175 175 175 175 175 175	5 50 6 00 5 50 1 50 1 75 90 1 00 12 2 15 12 18 58 59 57 57 59 59 77 59 7	Steel Wire Nails, 75 % Iron Iron pipe, ¼ inch, per foot " " ¾ " " " " " " " " " " " " " " " "
Cedar for kerbing, 4 x 14, per M	zo in., per lineal foot	18 00 9 00 8 00 25 00 8 50 7 10 17 50 0 175 0 175 0 175 0 100 1 12 100 1 2 15 15 16 17 18 18 18 18 18 18 18 18 18 18	10 00 6 00 5 5 50 5 50 6 00 6 50 7 50 4 50 50 100 100 100 100 100 100 100 100 1	STEEL Wire Nails, 75 % Iron Iron pipe, ¼ inch, per foot "" ¾ "" "" "" "" ½ "" "" "" "" 1½ "" "" "" "" 1½ "" "" "" "" 1½ "" "" "" "" 1½ "" "" "" "" 1½ "" "" "" "" 1½ "" "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ "" "" "" 1½ " "" 1½
Cedar for kerbing, 4 x 14, per M	ro in., per lineal foot Rocking (# square). " red " purple " purple " urtading green " black Terra Cotta Tile, per sq Ornamental Black Slate Roof- ing PAINTS. (In oi White lead, Can., per 100 lbs. 6 2 " zinc, Can., " 55 Red lead, Eng 40 " venetian, per 100 lbs 16 " vernetian, per 100 lbs 16 " vernetian, per 100 lbs 16 " vernetian, per 100 lbs 16 " venetian, per 100 lbs 16 " refined, " yellow chrome " Paris white, Eng., dry 9 Litharger, Eng.	18 00 9 00 25 00 25 00 8 50 27, \$\frac{1}{2}\$ 16. 5 5 5 50 0 5 00 0 12 5 10 0 12 5 20 0 12 5 20 0 12 5 20 0 12 15 20 16 85 17 18 85 18 85	5 50 6 00 6 50 7 50 4 50 5 00 1 00 12 25 12 18 58 59 10 62 75 12 12 13 58 50 75 90 1 00 10 12 12 15 12 15 15 15 15 15 15 15 15 15 15 15 15 15	Steel Wire Nails, 75 % Iron Iron pipe, ¼ inch, per foot " " ½ " " " " " " " " " " " " " " " "
Cedar for kerbing, 4 x 14, per M	ro in., per lineal foot Rocking (# square). " red " purple " purple " urtading green " black Terra Cotta Tile, per sq Ornamental Black Slate Roof- ing PAINTS. (In oi White lead, Can., per 100 lbs. 6 2 " zinc, Can., " 55 Red lead, Eng 40 " venetian, per 100 lbs 16 " vernetian, per 100 lbs 16 " vernetian, per 100 lbs 16 " vernetian, per 100 lbs 16 " venetian, per 100 lbs 16 " refined, " yellow chrome " Paris white, Eng., dry 9 Litharger, Eng.	18 00 9 00 28 00 25 00 8 50 7 50 0 7 50 0 175 0 10 0 175 10 12 10 12	5 50 6 00 5 50 1 50 1 75 12 12 15 10 12 15 15 10 17 12 15 12 15 15 10 17 10 10 11 10 10 10 10 10 10 10 10 10 10	Steel Wire Nails, 75 % Iron Iron pipe, ¼ inch, per foot " " ¾ " " " " " " " " " " " " " " " "
Cedar for kerbing, 4 x 14, per M	ro in., per lineal foot. Roching (& square). " red " purple " urtading green black Terra Cotta Tile, per sq Ornamental Black Slate Xoof- ing PAINTS. (In oi White lead, Can., per 100 lbs. 6 2 " zinc, Can., " 6 5. Red lead, Eng	18 00 900 25 00 8 50 8 50 75, \$2 18. 5 5 7 50 0 173 20 0	5 50 6 00 5 50 1 50 1 75 0 1 20 12 25 12 25 15 0 60 75 0 1 75 12 20 12 25 12 2	STEEL Wire Nails, 75 % Iron Iron pipe, ¼ inch, per foot " " ½ " " " " " " " " " " " " " " " "
Cedar for kerbing, 4 x 14, per M	zo in., per lineal foot. Rocfing (\$\mathbb{E}\$ iquare). " red " purple " urdading green black Terra Cotta Tile, per sq Ornamental Black Slate Roof. ing PAINTS. (In oi White lead, Can., per 100 lbs. 6 2 " zinc, Can., " " 6 5 Red lead, Eng 4 0 " venetian, per 100 lbs 1 6 " vernillion 9 " Indian, Eng 1 1 Yellow ochre 1 Yellow ochre 2 Yellow chrome 2 Green, chrome 2 Black lamp 1 2 Black lamp 2 Black lamp 2 " Paris where a sq. per 100 lbs 7 Putty 1 5 " refined, " 7 Putty 2 Whiting, dry, per 100 lbs 7 Paris white, Eng., dry 9 Litharge, Eng 1 Sienna, burnt 1 OEMENT, LIM OEMENT, LIM	18 00 900 25 00 8 50 8 50 75, \$2 18. 5 5 7 50 0 173 20 0	5 50 6 00 5 50 1 50 1 75 12 12 15 10 12 15 15 10 17 12 15 12 15 15 10 17 10 10 11 10 10 10 10 10 10 10 10 10 10	Steel Wire Nails, 75 % Iron Iron pipe, ½ inch, per foot " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " ½ " " " " Z " " " " "
Cedar for kerbing, 4 x 14, per M	zo in., per lineal foot Roching (& square). "red "purple "urtading green black Terra Cotta Tile, per sq Ornamental Black Slate Roofing PAINTS. (In oil White lead, Can., per 100 lbs. 6 2 inc, Can., in 6 5 ked lead, Eng 4 50 inc, Can., in 6 5 ked lead, Eng 4 50 inc, Can., in 6 5 inc, Can., in 7 inc, Can., in 6 5 inc, Can., in 7 inc, Can., in 7 inc, Can., in 6 inc, Can., in 7 inc, Can., in	18 00 9 00 8 00 25 00 8 50 7, \$\phi\$ lb. 5 5 50 0 5 50 0 175 0 125 5 20 7 125 7 127 8 5 17 20 18 39 18 39	5 50 6 00 5 50 1 50 1 75 90 1 00 12 2 15 12 15 10 10 10 17 15 10 10 10 10 10 10 10 10 10 10 10 10 10	STEEL Wire Nails, 75 % Iron Iron pipe, ¼ inch, per foot " " ¾ " " " " " " " " " " " " " " " "
Cedar for kerbing, 4 x 14, per M	zo in., per lineal foot	18 00 9 00 28 00 25 00 8 50 7, \$\frac{9}{16}\$. \$ 5 7 50 0 5 7 50 0 1 25 5 20 10 25 15 20 17 69 18 85 19 10 19 10	5 50 6 00 5 5 50 5 50 5 50 5 50 5 50 5	Steel Wire Nails, 75 % Iron Iron pipe, ½ inch, per foot " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " " " ½ " " " " " 2 " " Toronto, 65 per cent. dis Montreal, 60 to 65 per Lead pipe, per lb
Cedar for kerbing, 4 x 14, per M	zo in., per lineal foot Roching (& square). "red "purple "urtading green black Terra Cotta Tile, per sq Ornamental Black Slate Roofing PAINTS. (In oil White lead, Can., per 100 lbs. 6 2 inc, Can., in 6 5 ked lead, Eng 4 50 inc, Can., in 6 5 ked lead, Eng 4 50 inc, Can., in 6 5 inc, Can., in 7 inc, Can., in 6 5 inc, Can., in 7 inc, Can., in 7 inc, Can., in 6 inc, Can., in 7 inc, Can., in	18 00 9 00 28 00 25 00 8 50 7, \$\frac{9}{16}\$. \$ 5 7 50 0 5 7 50 0 1 25 5 20 10 25 15 20 17 69 18 85 19 10 19 10	5 50 6 00 5 5 50 5 50 5 50 5 50 5 50 5	STEEL Wire Nails, 75 % Iron Iron pipe, ¼ inch, per foot " " ¾ " " " " " " " " " " " " " " " "

Toronto. Montreal.	Toronto. Montreal.
BRICK—≫ M	Portland Cements.— Newcastle " 250 185 195
Common Walling	Helgian, Josson, artificial 340 250 265 275
Sewer	linglish, artifical, per bbl. 263 290 255 265 Belgian, natural, per bbl. 230 240 170 185
Red, No. 1, f.o.b. Beamsville 16 00	Canadian 230 250 180 185 Roman 200 225
Red, No. 1, f.o.b. Beamsville 16 00 14 00 14 00 9 00	Parian 11 450 475 550 575
Buff ai 00 Brown 24 00	Superfine " 6 50 7 00 8 00 9 00 Hydraulic Cements.—
Roman Red 30 00	Thorold, per bbl 1 50 1 25 1 50
11 Buff	Queenston, 11 150 150 160 Napanee, 11 150 150
Sewer	Hull, 11 1 50 1 50 Ontario, 11 1 25
Roof Tiles 22 00	Keene's Coarse "Whites" 4 50 4 75 4 50 4 75
Hip Tile(each) 20 Ridge Tile	Fire Bricks, Newcastle, per M 27 00 35 00 15 00 21 00 " Scotch " 27 00 35 00 19 00 21 00
Ridge Tile	Lime, Per Barrel, Grey 40
ard " " " 800 1200	Plaster, Calcined, N. B 200
Hard building brick 650 Ornamental, per 100 3 00 10 00	" " N.S 200 250
SAND.	Hair, Plasterers', per bag 80 100
Per Load of 11/2 Cubic Yards 1 25 1 25	HARDWARE. Cut nails, 5cd & 6ed, per keg 2 65 2 25
STONE.	Steel 11 11 11 275 250
Common Rubble, per toise, delivered	CUT NAILS, PENCE AND CUT SPIKES.
Large flat Rubble, per toise, delivered 18 ∞ 18 ∞	40d, hot cut, per 10, lbs 270 230 3ed, " " 275 235
Foundation Blocks, per c. st. 50 50 Kent Freestone Quarries	20d, 16d and 12t, hot cut, per
Kent Freestone Quarries Moncton, N. B., per cu	100 lbs
ft., f.o.b	8d, 9d, 11 11 " 290 250
Freestone, per cu. it., f.o.b. 95	6d, 7d, " " 3 05 2 65 4d to 3d, " " " 3 2 2 8 3 3d, " " " 3 63 3 2 5
Ballochmyle	3d, " " 363 325 2d, " " " 415 375
Granite (Stanstead) Ashlar, 6	4d to 5d cold cut, not polished
in. to 12 in., rise 9 in., per st. 25 Mont Freestone 65 70	or blued, per 100 lbs 3 15 2 75 3d to 5d cold cut, not polished
Thomson's Gatelawbridge, cu. ft. 75 80	or blued, per 100 lbs 355 315
Credit Valley Rubble, per car of 15 tons, at quarry 8 ∞	FINE BLUED NAILS. 3d, per 100 lbs
of 15 tons, at quarry 800 Credit Valley Brown Cours- ing, up to 10 inch, per sup.	2d, " 450 415
yard, at quarry 175 325 Credit Valley Brown Dimen-	CASING AND BOX, PLOORING, SHOOK AND TOBACCO BOX
sion, per cu. ft. at quarry 60 75	NAILS. 12d to 30d, per 100 lbs 2 50 2 60
Credit Valley Grey Coursing, per superficial yard 1 50 200 2 15	
Credit Valley Grey Dimen-	6d and ad " " 295 200
	44.0.30
per cubic foot, f.o.b 1 15 1 00	3d, " 3 70 3 60 FINISHING NAILS.
per cubic foot, f.o.b 1 15 1 00 Brown Free Stone, Wood- point, Sackville, N.B., per	a inch. per 100 lbs 2 to 2 os
cub. It	21/2 10 21/2 " " 3 25 3 10
MadocRubble, delivered, per toise	1½ to 1½ " " " 3 60 345
Madoc dimension floating, f. o. b. Toronto, per cubic ft. 30 32	134
o. b. Toronto, per cubic st. 30 32 Cape Bauld, N. B., Brown Freestone 90 70	SLATING NAILS.
Cocaigne, N. B., Gray Free-	5d, per 100 lbs
Stone (olive-green) 90 7) OHIO PREESTONE, FROM THE GRAFTON STONE CO.'S	301
QUARRIES.	2d. " 4 25 3 85 COMMON BARREL NAILS.
No. 1 Buff Prumiscuous 92 100 No. 1 Buff Dimension 95 105	1 inch, per 100 lbs 3 75 3 35
No. 1 Blue Promiscuous 60 70 No. 1 Blue Dimension 65 75	36 ··· ·· ·· ·· ·· ·· · · · · · · · · ·
Sawed Ashlar, No. 1 Buff,	CLINCH NAILS.
any thickness, per cub. ft 1 10 1 20 Sawed Ashlar, No. 1 Blue,	3 inch, per 100 list. 3 35 2 95
any thickness, per cub. ft 8: 90 Sawed Flagging, per sq. ft.,	2 and 2 1/4 " " 3 65 3 25
for each inch in thickness. 00% 07%	1½ and 1¾ " 385 345 1½ " 450 410
Above prices cover cost freight and duty paid. For small lots add 5 to 10 cents per cubic foot.	i " 500 460
Ouebec and Vermont rough	SHARP AND PLAT PRESSED NAILS.
granite for building pur- poses, per c.ft. f.o.b. quarry 33 1 50	3 inch, per 100 lbs. 375 345 21/2 and 31/4 " " 400 360
For ornamental work, cu. ft. 35 20 Granite paving blocks, 8 in. to	2 and 21/4 " " 420 375
12 in. x 6 in. x 4 1/2 in., per M 50 ∞	11/2 " " " 500 460
Granite curbing stone, 6 in.x 20 in., per lineal foot 70	1 " " 5 50 5 10
SLATE.	STEEL WIRE NAMES. Steel Wire Nails, 75 % discount from printed list
Rocfing (\$ square).	Iron Pipe:
11 purple 00 10 00	Iron pipe, ½ inch, per foot 6c. 6c. 11 15 17 17 17 17 17 17 17 17 17 17 17 17 17
urtading green 9 00 6 00 black 8 00 5 50	11 11 12 11 11 11 11 11 11 11 11 11 11 1
Terra Cotta Tile, per sq 25 00 Ornamental Black Slate Roof-	11 11 14 11 11 11 12 12 12 12 17 17 17 17
ing 8 50	11 11 1 1 24 24
PAINTS. (In oil, V lb.	11 11 11 11 30 30 11 1 2 11 11 43 43
White lead, Can., per 100 lbs. 6 25 5 50 5 50 6 00	Toronto, 65 per cent. discount.
" zinc, Can., 11 11 6 50 7 50 6 50 7 50 Red lead, Eng	Montreal, 60 to 65 per cent. discount.
" venetian, per 100 lbs 1 60 1 75 1 60 1 7	Lead Pipe: Lead pipe, per lb 7c.
" Indian, Eng 10 12 10 12	Waste pipe, per lb
Yellow ochre 5 10 3 5 Yellow chrome 15 20 15 20	
Green, chrome	Galvanized Iron: Adam's—Mar's Best and Queen's Head:
Black lamp 15 25 12 25	16 to 24 guage, per lb 4%c. 4%c.
Blue, ultramarine	26 guage, " 4% 5 28 " 5 5%
" " boiled " 57 63 62 63	Gordon Crown—
Putty 2½ 2½ 2½ 2½	26 guage, " 4½ 4¾
Whiting, dry, per 100 lbs 75 1 00 60 75 Paris white, Eng., dry 90 1 25 90 1 00	Note.—Cheaper grades about %c. per lb. less
Litharge, Eng 4 5 450 500	Structural Iron:
Sienna, burnt	Steel Beams, per 100 lbs 275 250
OEMENT, LIME, etc.	" angles, " 250 230
Portland Cements.— German, per bbl 3 25 2 55 2 65	" plates, " 255 235
London " 2 50 2 75 1 92 2 95	Sheared steel bridge plate 2 35