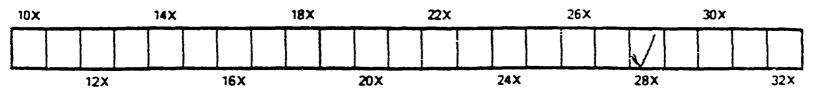
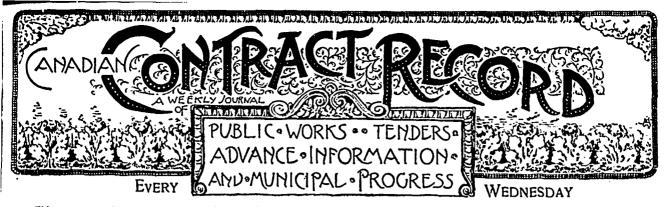
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This paper reaches every week the Town and City Clerks, Town and City Engineers, County Clerks and County Engineers Purchasers of Municipal Debentures and leading Contractors in all lines throughout Canada.

Vol. 11.

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THE CANADIAN CONTRACT RECORD,

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

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Advertising Rates on application.

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

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



Sealed tenders, addressed to the undersigned, and endorsed "Tender for Pier at Lancaster," will be received at this office until FRIDAY, THE gru OF NOVEMBER, inclusively, for the construction of a Landing Pier at Lancaster, County of Glengarry, Ont. according to a plan and a specification to be seen at the office of Henry A. Gray, Resident Engi-neer, Confederation Life Building, Teronto, on applica-tion to the Postimater at Lancaster, Ont., at the Resi-dent Engi eer's office, Room att Merchan's Bank Building, Montreal, and at the Department of Public Works, Ottawa. tion to the series office, south dent Engi eer's office, south Building, Montreal, and at the Depastmens Works, Ottawa. Tenders will not be considered unless made on the form supplied, and signed with the actual signatures of tenderers. accepted cheque on a chartered bank pay-the Minister of Public Works, accepted cheque on a chartered bank pay-

tenderersi An accepted cheque on a chartered bank pay-able to the order of the Minister of Public Works, for Four Thousand Dollars (\$4,000), must accom-pany acchine the contract or fail to complete the the party decline the contract or fail to complete the work contracted for, and will be returned in case of non-acceptance of tender. The Department does not bind itself to accept the bwest or any tender.

By order. JOS. R. ROY, Acting Secretary.

Department of Public Works, Ottawa, October 17th, 1900.

Newspapers inserting this advertisement without authority from the Department will not be paid for it.

W. J. Cook, plasterer, Montreal, is reported to have assigned.

Mention the CONTRACT RECORD when figuring on municipal woorks advertised in this paper.



NOVEMBER 7, 1900

SEALED TENDERS, addressed to the under-signed, and endorsed "Tender for L amington Wharf, will be reveived at this office until FRIDAY, 16711 DAY or NOVEMBER, 19.0, 107 the construction of a wharf at L amington, County of Essex, Ontario, according to a plan and a specificatron to be seen at the office of H. A. Gray, Engineer in charge of Harbor Works, Ontario, Confederation Life Huilding, Tornno, or application to W. C. Coulson, Town Clerk, Leaming-ton, ard at the Department of Public Works, Ottawa. Tenders will not be considered unless made on the form supplied, and signed with the actual signatures of tenderers.

tenderers. An accepted bank cheque, payable to the order of the Honourable the Minister of Public Works, for three thousand dollars (53 00000), must accompany each ten-der. The cheque will be forfeited if the party decline the contract or fail to complete the w. k contracted for, and will be returned in case of non-acceptance of ten-der.

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

By order. JOS. R. ROY, Acting Secretary.

Department of Public Works, Uttawa, 25th October, 1900.

Newspapers incerting this advertisement without authority from the Department will not be paid for it.

CONTRACTS OPEN.

ISLAND BROOK, QUE .- D. McKeag is prepating to build a residence.

RAT PORTAGE, ONT .- The rink destroyed by fire last week will be rebuilt.

APPIN, ONT.-It is probable that John Cramp will erect a residence next year.

ST. ANDREWS, N.B.-Wm. Hope purposes building a fine summer residence.

MILFORD STATION, N.S.-The railway authorities will enlarge their yards here.

BEAVER MILLS, ONT.—It is expected that a saw mill will be built here shortly

ST. MARY'S, ONT .- A new residence will be built on Wellington street by James Clyde.

VANCOUVER, B. C. – Extensions to the waterworks system in Mount Pleasant will be made.

MERRICKVILLE, ONT.-Frank Tall-man, of Kulmarnock, is preparing to build a dwelling house.

TRURO, N.S.-The authorities of the Truro academy are considering the erection of a new building.

MIDLAND, ONT .--- Mr. Fraser, engineer of the steamer Leefield, is building a residence on Hugel avenue.

VICTORIA, B. C .- M. Lawless has purchased a site on Chamber street on which he will erect a residence.

CALGARY, N. W. T. - The Calgary Clothing Company have taken tenders for an addition to their store.

LUNENBURG, N. S.-The question of building a summer hotel here will likely be taken up at an early date.

WEYMOUTH, N. S.-An effort is being made to form a company of leading citizens to install an electric light, plant.

AMULREE, ONT .- The council of North Easthope will issue debentures for \$1,300 for erection of new school house.

No. 40

BRADFORD, ONT .- Plans have been prepared for a brick veneer residence to be built on Holland street by Geo. Stoddart.

VICTORIA HARBOR, ONT. - It is under stood that the Victoria Harbor Lumber Co. intend erecting several residences next spring.

PELEE ISLAND, ONT .- Wm. Stewart, township clerk, invites offers up to November 17th for purchase of \$4,955 drainage debentures.

OWEN SOUND, ONT.-Mr. McLauchlan, promoter of the McLauchlan Park, states that about forty cottages will be erected there next year.

NORTH SYDNEY, N. S.-The Union Bank of Halifax has purchased a lot here on which to erect a brick building for banking purposes

HARRISON HOT SPRINGS, B. C .- Wm Blackmore & Sons, architects, are taking tenders for an addition to the St. Alice hotel at this place.

BROCKVILLE, ONT .- An expert will be employed by the city council to report on the needed improvements to the gas and electric light plants.

VALLEYFIELD, QUE.-As a result of recent labor troubles, the Montreal Cotton Co. may not build their proposed new cotton mill in this town.

SAULT STE MARIE, ONT .- The Provincial Board of Health have recom-mended that the town extend the waterworks and sewerage systems.

LITTLE CURRENT, ONT.—A movement is on foot to build a hospital here.—The council may take steps in the near future to provide better sewerage facilities.

GRAND FORKS, B.C.-Jas. McGregor, of Vancouver, is making a tour of the Boundary country for the purpose of selecting a site for a pyritic smelter.

NIAGARA FALLS, ONT .- The corporation has been granted permission by the government to generate 100 horse power for the purpose of lighting the town.

THOROLD, ONT .- The Niagara, St. Catharines and Toronto Railway Co. are arranging to have their swing bridge across the canal operated by electric power.

FORT WILLIAM, ONT.-B. W. Folger, president of the Mattawin Iron Works, states that the erection of a copper smelter will likely be commenced next spring.

ST. LOUIS, QUE. - The corporation has taken tenders this week for the supply of a hook and ladder truck and 100 feet of fire hose. Particulars from A. F. Vincent, secretary-treasurer.

LEVIS, QUE.-Chas. Lionais, C.E., of Montreal, has sold an iron is tes mine at Ganhby, on the Quebec Central railway, to a New York syndicate whose purpose it is to elect a sulphur factory at this place.

HARROWSMITH, ONT.—A new grist mill will be built here to replace the one recently destroyed by fire.

LEAMINGTON, ONT.—Arthur Brown will likely build a new residence.—A. Maycock is preparing plans for a new building to be built by W. T. Gregory.

MONTREAL, QUE.—The sum of \$35,000 has been subscribed towards the proposed Maternity hospital, but the management will not commence building operations until \$50,000 is assured.

ST. THOMAS, ONT.—Surveys have been completed for the bridge to be built by the Detroit and Lake Erie Railway across the ravine south of this city. The structure will be 1,236 feet in length, the abutments to be built this fall.

JOLIEITE, QUE.—The Great Northern Railway management have decided to build the Joliette branch, which will include a double track bridge at Bout de Pille. It is reported that Ross, Barry & McRae will build the road.

ST. CATHARINES, ONT.—John Kyles, solicitor, of Toronto, has given notice that he will apply to Parlament for the incorporation of a company to construct a street rulway from Nagara to Port Dalhousie, St. Catharines and Kingston.

SARNIA, ONT.—The Sarnia Street Railway Company offer for sale debentures to the amount of \$16,000. Tenders received by H. W. Milis up to 9th inst.—Work has commenced on the conversion of the street railway into an electric system.

INGERSOLL, ONT. — An agreent has been reached between the town council and the Ingersoll Water Works Co. under which the latter agree to put down 4,000 feet of mains in the residential part of the town, together with nine hydrants.

SYDNEY, N. S. - Mr. Shaw, of Mrssachusetts, has purchased property on Ferry street on which to build a large hotel, plans for which are now being prepared. The building will be frame, three stories, containing fifty rooms, with provision for an addition there:o.

DRUMMONDVILLE, QUE.—The Dominion government wants tenders by Monday, 12th inst., for erection of post office at this place. Plans at the Drummondville excise office, at the post office at Arthabaskaville, and at the Department of Public Works, Ottawa.

MONCTON, N. B.—D. Pottinger, manager Intercolonial Railway, invites tenders up to November 12th for construction of $3,\infty\infty$ feet of cibwork protection walls on Sydney and Point Tupper division, and 500 feet near Tatamagouche, on the Oxford and New Glasgow division.

GUELPH, ONT.—It is probable that next year the government will enlarge the Ontario Agricultural College in this city. —The J. B. Armstrong Manufacturing Co. purpose making a two-storey addition to their central building, and a threestorey addition to their building on Quebec street.

SELKIRK, MAN. – A Dominion government engineer has been locating the site of the proposed government wharf at this place, which will be 100 feet in width and 600 feet long. – Manager Whyte, of the C. P. R., states that a large dock will be built at the terminus of the line at Whyteswold.

PENETANGUISHENE, ONT. – The project to build an electric railway between Penetanguishene and Midland is again being considered. A company was incorporated for this purpose some time ago, C. Beck being president. – A. B. Thompson and N. Payette purpose building several residences on Main street.

BRACEBRIDGE, ONT.—The new bank building to be built here will cost about 5,000.—The sum of \$20,000 has been subscribed towards the capital stock of the Bracebridge & Trading Lake Railway Company. The Dominion government has granted a subsidy of \$48,000 towards this road. Angus McLeod and S. H. Armstrong are interested.

LONDON, ONT.—The ratepayers of West London have asked the council to extend the breakwater 150 feet.—Sewers will likely be built on Wellington and Piccadilly streets.—Hellmuth & Ivey have applied for a charter for the Santary Dairy Co., ct London, Limited, with capital of \$100,000. The company will erect buildings suitable for the carrying on of a general dairying business.

QUEBEC, QUE.—The friends of the Jeffrey Hale hospital will hold a meeting this week to consider plans for furnishing and equipping the new hospital. Some \$5,000 will be required.—Building permits have been granted as below : Mr. Cantin, three storey frame building on Notre D ime des Anges street, cost \$4,000; Mrs. Valier, repairs to building, corner Church and St. Francis streets, cost \$1,000.

NEW WESTMINSTER, B.C.—The work of building the new Fraser river dredge is about to be commenced.—It is reported that the Great Northern Railway Co. has under contemplation a scheme for extending its New Westminster branch to Steveston.—The city council are about to ask for competitive plans for a new city hall, to be of stone and to contain city offices and police stations; approximate cost, \$35,000.

DARTMOUTH, N.S.-The Dartmouth Dry Dock & Marine Construction Co., with capital of \$500,000, has been registered under the laws of the state of New Hampshire. It is thought that this company purposes building a large marine railway in this town.-American capitalists have purchased the ship-repairing plant and boiler works of M. Evans & Son, and are about to construct a large dry dock and steel ship building plant. The company purpose spending over a million dollars.

BRANTFORD, ONT.—An agreement has been reached between the city council and the Brantford Electric & Operating Co. by .which the latter will make improvements to the head gates, to cost upwards of \$7,000.—The Waterous Engine Works Co. will probably build an addition to theit works, to permit of the manufacture of pulp machinery.—H. B. Adams is building a double brick residence on Murray street, to cost \$2,000.— Geo. Wedlake, jr., will build a residence on Cayuga street, to cost \$1,400.

AYLMER, ONT.—The town council will submit two by-laws to the ratepayers on December 17th next, one for the sum of \$18,000 for the purpose of obtaining a domestic water supply from artesian wells, extension of present system of mains and alterations to pumping station, a new stand pipe being included. The other for the sum of \$18,000 for the purpose of purchasing the electric light plant now operated by the Aylmer Electric & Mfg. Co., Ltd., and making required alterations to power house plant, the intention being to operate the whole under one management.

HAMILTON, ONT.—The city engineer has estimated the cost of proposed sewage works in the west end at \$32,000 for a chemical process and \$26,000 for the bacterial system.—W. W. LaChance, architect, is preparing plans for alterations to the Alhambra hetel.-- Building permits have been granted to Donaldson & Patterson for a brick dwelling on Bay st., between King and Market streets, cost \$1,400, and for a brick dwelling on Herkimer sirect, between King and Kent streets, for J. G. Thompson, cost \$1,800; Geo. H. Milne, two brick dwellings on Mary street, between Rebecca and Wilson streets, cost \$2,400.—An engineer of the Carnegie Iron Works, of Pittsburg, last week went over the proposed extension of the Hamilton, Grimsby & Beamsville road with a view to preparing an estimate of the cost of necessary bridges.

COLLINGWOOD, ONT. — Dr. J. R. Arthur intends erecting large office building and residence on Hurontario street; building 30×65 feet, 3 floors and full basement, pressed brick and brown stone front; interior finished in quartered oak and other hardwoods. The doctor's suite will be situated on the ground floor, and will consist of large waiting room and hall, consulting room, laboratory, operating room, etc., and will be the most complete of its kind in Ontario. The upper floors will have all modern improvements for an up-to-date dwelling. The contract for foundation walls has been let to Mr. A. C. Mason, the rest of building to be finished in the spring. Plans and superintendence by Philip C. Palin, architect. —W. Bryan, of the Bryan Manufacturing Co., intends erecting a large dwelling near their works this coming spring, plans for which are being prepared by P. C. Palin, architect.

OTTAWA, ONT .- The C.P.R. will cover their coal sheds with tin.-The School Board has not yet reached a decision regarding a site for the new school for Dalhousie and Victoria wards, -- The plans for the new contagious diseases hospital have been approved by the Pro-vincial Board of Health. The building will likely be located on the hill of the rifle range park.—Wm. Kennedy, C.E., will shortly present to council his report on the condition of the waterworks plant. He will likely recommend alterations to the foundation and tail race.—The follow-ing building permits were issued last week : Mrs. Violetta Kerr, brick veneered house, Eccles street, cost \$1,600; Thos. Lawson, stone addition to machine shop and foundry, Wellington street, cost \$1,000; Geo. Banister, double brick veneered dwelling, Wellington street, cost \$1,200; James Usher, frame dwell-ing, O'Connor street, cost \$800; Alfred Provost, brick veneered dwelling, Primrose avanue, cost \$1,000 and deputition from avenue, cost \$1,000.-A deputation from the city council last week held a conference with the Canadian Underwriters' Association regarding insurance rates. The Underwriters pointed out that before any reduction could be made it would be necessary to purchase one or more fire engines and increase the size of the mains leading to the centre of the city.

TORONTO, ONT.-Mr. A. F. Wickson, architect, is preparing plans for a resi-dence for Mr. Albert Horton, to be erected in Rosedale.-The city engineer, in his fortnightly report presented to council last week, gives further particulars of the proposed sewage system for that portion of the city lying west of Roncesvalles avenue. He estimates the cost of extending Jarvis street sewer down to the end of the slip at \$4,000. The following local improvement works are recom-mended : Concrete sidewalks-Clinton street, east side, from College to Har-bord streets, cost \$2,092; Oxford street, south side, from Spadina to Augusta avenues, cost \$1,482; Elm Grove avenue, both sides, from King to Queen, cost \$1,947 each; Melbourne avenue, both sides, Dufferin street to Cowan avenue, cost \$2,044 and \$2,062 for south and north sides respectively; Gerrard street, north side, Berkeley to Ontario streets, cost \$509, Selby street, north side, from Sherbourne to Huntley streets, cost \$947; cedar block pavement on Alma avenue, from Gladstone avenue to Dufferin street. cost \$947; macadam roadway on S. Joseph street, 698½ feet west of St. Vin ent, cost \$4.382; asphalt pavement on Wyndham street, Brock to St. Clarers avenue, cost \$4,645; sewer on Summer-hill avenue, 739 leet west of Yonge street,

cost \$947.—A building permit has been granted to Godfrey Hamley for three two storey brick; and rough cast dwellings on Lewis street, cost \$2,700.

FIRES.

Review Printing Co.'s plant at Windsor, Ont., damaged to extent of \$3, 500. – Saw mill of H. F. Eaton & Sons at Milltown, N B., totally destroyed; loss \$5000, partually covered by insurance. – Building at Smith's Falls, Ont., owned by John Williscraft. – Stave and heading mill of Geo. McAllister at Bloomingdale, Ont., loss \$5,000. – Dwelling at Rothesay, N.B., owned by Fred Seeley. – Skating rink at Rat Portage, Ont., loss \$1,500. – Saw mill of P. Barnhill at Pleasant Point, near St. John, N.B., insurance \$20,000. – Richardson's cheese factory, one mile east of Gananoque, Ont., totally destroyed; loss \$3,000, insured.

CONTRACTS AWARDED.

MIDLAND, UNT .- Residence for J. Rowe: D. A. Patchell, contractor.

BERLIN, ONT.-Two-story brick house for Peter Hymen: Adam Denges, contractor.

ST. ANDREWS, N.B.—Residence for Donald McMaster: Robert Stevenson, contractor.

KAMLOOPS, B. C.—The contract for post-office and custom house building has been let to Robert McKay.

ROBSON, B.C.—The new bridge about to be built by the C.P.R. at this place will consist of two spans of 200 feet each.

MONTREAL, QUE.—J. & B. Grier and the Shearer & Brown Co. are supplying the piles required in connection with the Connors elevator.

SUMMERSIDE, P. E. I.—Rogers & Rogers have been awarded the contract for heating with hot water the brick store of Sinclair & Stewart, A Disy boiler and a Hamilton radiator will be used.

BRANTFORD, ONT.—Havil & Whitham have secured the contract for building the proposed Isolation hospital; Chas Taylor for plumbing and heating, and the Lyon Electric Company for electric lighting.

HAMIITON, ONT.—A. W. Peene, architect, has accepted the following tenders for a two-story brick dwelling at foot of Sherman ave. for the Hamilton Steel Company: Brickwork, Wm. Lane; carpenter work, Peter Paterson; painting, S. Easter.

SAULT STE. MARIE, ONT.—Blast furnaces, smelting works and a steel rail mill are to be erected here. There will be two buildings, 600 feet each in length, and one of 1,000 feet. Contrac s have been let as follows. Excavation, Peter Nelson; stone work, Talbot & Co.; carpenter work, Mr. Drayer.

BIDS.

PORT HOPE, ONT. - The following tenders were received by the town council for purchase of \$20,000 of debentures for the extension of the waterworks system : G. A. Stimson & Co., Toronto, \$18,866; The Central Canada Loan & Savings Co., Toronto, \$19,251; H. O'Hara & Co., Toronto, \$19,700.

MONTREAL, QUE. – For the supply of two electric pumps for the high level reservoir, tenders were received by the city council as follows. The Dean Stamp Pump Co., Holyoke, Mass., \$19,000; Babcock & Wilcox, four tenders, ranging from \$29,900 to \$37,400, Caledonian Iron Works, half a dozen tenders, ranging from \$37,394 to \$43,788; P. H. & F. M. Roots, of Indiana, tenders varying from \$32,087 to \$37,172.

COMPETITION FOR PLANS.

Last year the corporation of the town of Levis, Province of Quebec, advertised for competitive plans to be submitted by civil engineers for the best system of water works and sewage for the town of Levis. Recently the judgment has been given in an elaborate report which indicates a careful and conscientious study of the different plans submitted. The judges were Charles Bailiairge, ex-engineer of the city of Quebec; Chas. E. Gauvin, C. E., Queber, and Jeremiah Gallagher, C. E., Director of Water Works, City of Quebec., who have awarded the first prize, \$1,000, to Robert Surfees, CE., Ottawa, and the second prize of \$500 to Messrs. Berlinguet & Lemay, civil engineers, Quebec.

PAINT FOR ROUGH CAST SURFACES.

Answering a correspondent on the above subject, "The Painters Magazine says :

"If the walls have stood for some time, say at least one year, and first cost is no obstacle to its use, we would recommend a pure lead and linseed oil paint, white or tinted to suit, the first coat to be quite thin and oily, the second coat as stout as it is used for finish on woodwork. Should this be too expensive to suit your patron you might use either of the following : Take fine sand that has been washed and dried and mix the same with a similar quantity of Portland cement (best grade) in water to a fairly thick consistency, then add for a red tint enough Venetian red for a yellow tine pale French ochre, for a greenish tint terra verte, for a gray tint lamp black, for a bluish tint ultramarine blue, and strain through an ordinary sieve to break up any lumps that may have formed. Finally thin the mixture down with water to the consistency of thin oil paint and apply cold with large wall The wash must be be kept well brushes. stirred while being used. Should the color be too dark add some slaked lime or ordinary whiting, but be careful to use mineral colors only for tinting, because of the probable causticity of cement and lime.

If it is in any way convenient for you to apply a warm paint, we would suggest the following wash, which has been tried by the writer with excellent results: Take a 50 gallon barrel and place therein one-half bushel of builders' lime, fiesh burnt, over which pour hot water, say about ten gallons, and cover tightly to keep in the steam, while slaking. Let stand covered over night, then strain the liquid through a fine sieve into another barrel and add seven pounds of common salt, previously dissolved in hot water. In the meantime cook three pounds of rice flour in hot water to a creamy paste and add this while hot, always stirring well. Five pounds of bolted whiting are also mixed with soft water to a thin paste and added to the liquid. Finally one pound of pale glue that has been soaked in water over night is boiled as usual in a water bath and thinned with boiling hot water to make five gallons of liquid glue, which is put in with the other. Stir well, and if the total does not amount to thirty gallons add enough hot water to

make that quantity. Let the barrel stand covered for several days more, when the wash is ready for use. The wash must be applied fairly warm, therefore it is necessary to have the pots from which] the paint is used standing in hot water during the operation. Two coats of this wash will stand out white on any surface, and it may be tinted with mineral colors, as in the case of the cement wash. It is the most durable and economical coating for brick or rough cast walls that we know of, and has been in use for 100 years or more on light houses and other buildings in the United States.

A SINKING BRIDGE PIER.

An unyielding foundation is generally considered a prime essential to the successful operation of a swing bridge; but in a paper which has recendy appeared in the " Proceedings of the Institution of Civil Engineers of Great Britain," John A. Saner, engineer of the Weaver Navigation, at Norwich, England, describes a swing-bridge design which seems to overcome successfully the usual difficulties attendant upon a yielding foundation. In the district surrounding the town of Norwich, where the bridges described are located, the ground is undermined by salt-mine workings, and is subject to a gradual subsidence due to causes which Mr. Saner describes in his paper. At the locality of the bridge this subsidence his averaged for a long period about four and one-half inches each year. It is plainly evident that, under these conditions, a swing-bridge with the usual pivot pierconstruction would endure a material decrease in its clear headway above the water-level after a few years, even if more serious troubles were not encountered. In the two swing-bridges at Norwich, Mr. Saner decided to meet the problem of subsidence by doing away entitely with a masonry pivot-pier and substituting in place of it to support the swing-span a circular steel pontoon floating in the water. To steady the bridge, or to keep the pontoon upon an even keel, if we may properly so term it, and to maintain the turning point or pivot of the span in a constant position, a circular roller-girder carried by screw-piles sunk at intervals around the pontoon-chamber is provided. As this girder will, of course, settle with the screw-piles as the ground subsides, the piles were provided at their tops with an arrangement by which their length is increased as the ground settles. The whole arrangement is a very simple one, and so far as the evidence now in hand goes seems to be a very successful one for the purpose intended. Instances will occur in the practice of many bridgeengineers where the conditions of securing a stable pivot-pier foundation are very onerous, and it will repay them to make a mental note for future use of the structure described.- Engineering News.

Contractors will confer a favor upon the publishers by mentioning the CON-TRACT RECORD when submitting renders for works advertised in this paper.

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As a rule a bricklayer, with a laborer to keep him supplied with materials, will, in common house walls, lay on an average about 1,200 bricks in eight hours. In better class work, such as facing a front of a building, from 800 to 1,000 brick, properly laid, may be taken as a good day's work ; for street front, where there are arches to cut and gauge, from 500 to 800, and on very fine work, where there are a number of angles, off-sets and skewbacks to be fitted to, a man will not be able to lay more than from 150 to 300 brick per day. In plain, massive engineering workaman would average about 1,800 brick per day. In making estimates for brick work the size and quality of the building should be considered.

FELLING OLD CHIMNEYS.

Of the method of felling old chimney stacks by burning out inserted props, devised by James Smith, of Rochdale, Eng., the Scientific American say : In felling a chimney the stack is first thoroughly examined and careful notes made as to its height, weight and condition. A survey of the surroundings is then made to ascertain which is the best direction in which to overthrow the structure, and so long as the available area which is to receive the mass is a little more than than the length and breadth of the stack, it is sufficient. Having determined upon the direction of the fall and the available area to receive the stack, an incision is made in the center of the chimney at a height of 5 or 6 feet from the ground, facing the direction in which it is to fall, and corresponding cuts are made on each of the sides. As the bricks are removed, an underpinning of 6"x6" timber is inserted, the work being carried on until about two-thirds of the base of the stack has been so treated. By this time the stack usually is listing over slightly in the direction in which it istofall, the list being an indication that the chimney is resting almost entirely upon the underpin-At the same time on the reverse ning. side of the chimney there will appear a slight crack in the masonry. The underpinning is carried on until this fracture appears, for unless the greater part of the structure rests upon the supporting posts, the direction of the fall can by no means be predicted with certainty. The gap made in the base of this stack must be of sufficient width to cause the structure to drop and telescope when falling. If only a narrow gap were made, the stack would simply pivot on its base and come down intact, measuring its length on the ground ; but as it is desired to concentrate the debris, a sufficient gap is made at the base to insure that as the stack leans to its fall it will drop a few feet vertically en mass, the jar thus given to it causing the mass to crumble upon itself. As soon as the underpinning is complete, a fire of highly inflammable combustibles is built and the props are thoroughly saturated with oil and covered with pitch and tar. On the occasion of the felling of a stack at Preston, which was 250 feet in height and weighed over 3,500 tons, there was consumed in burning out the underpinning

61/2 tons of coal, 4 tons of pitch, 40 sacks of shavings, 108 gallons of tar and 126 gallons of paraffin. The burning of the props has to be most carefully watched since it is necessary that they all collapse at the same time to insure that the chimney will fall in the desired direction.

CLEANING HARDWOOD FLOORS.

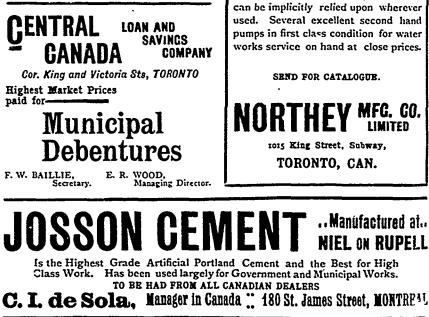
Floors that have been finished in shellac should be kept clean by thoroughly brushing off the dust with a soft hair or feather brush, or by wiping with a cloth of soft texture. If the cloth is slightly moist the dust will adhere to it more readily, but wipe with a dry cloth afterward. If any dirt that will not wipe off with a moist cloth should be deposited on the floor, wash it off thoroughly with clean (not hot) water, using soap if necessary, which also cleanse off with water as quickly as possible and wipe dry.

When the face of the floor begins to look worn and shabby, after cleansing off the dirt and wiping dry, if water has been used, rub the surface all over nicely with a mixture two-thirds turpentine and one-third raw linseed oil. To do this saturate a soft cloth of any kind with the mixture, wring it out half dry and rub the floor with it evenly. Do not use the oil so freely as to leave it standing on the surface to catch dust. To prevent this wipe off a clean, dry cloth. After the shellac is worn down to the surface of the wood sandpaper it all over evenly with a No. 1 sandpaper and give it another coat of shellac, after which continue to keep as before.

Floors finished in plain oil only should be kept in the same manner as above, more soap and water being required, and more frequent rubbing with the mixture of turpentine and linseed oil spoken of above.

Waxed floors can be cleansed by washing off thoroughly with turpentine and benzine, after which they can be rewaxed if desired.

Floors finished in "hard oil" should be kept like floors finished with shellac. A maple floor for a kitchen that has not



THE GEORGIAN BAY PORTLAND CEMENT CO.

These works are furnished with the latest and best machinery. The raw materials are of first-class quality. The process of manufacture is well tried and successful, and operated by experienced experts. The product is the finest grade of PORTLAND CEMBNT. For further information write

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CANADIAN CONTRACT RECORD.



LEGAL DECISIONS AFFECTING MUNICIPALITIES.

HADLEY VS. TOWN OF ST. PAUL .- The plaintiff complained that the municipality had constructed drains in certain lots belonging to him, and asked for their removal. The plea was to the effect that defendant followed the indications given by the plaintiff himself, who had laid out the street and planted pickets from one end to the other. The court maintained the action in part, and condemned the defendant to demolish and take away from the plaintiff's lots the part of the drain which is now constructed in them, within six months from date of judgment, unless the defendant prefers to pay the plaintiff the sum of \$658.07, value of 11,965 feet of which plaintiff is deprived by the defendant's works.

SINCLAIR VS. CITY OF HAMILTON.-This case came before the Trial Court at Toronto. Judgment in action tried at Hamilton brought to recover damages for injuries sustained by plaintiff, who, while walking in a southerly direction on the side-walk on the west side of McNab street, stumbled over a hose which was being used by defendants to flush a sewer on premises adjoining the street. Held, that the work, being done by defendants, was convenient and necessary, that they had a right, as well as a duty to do it, and that it had not been shown that such duty could have been discharged in any other way than by placing the hose across the sidewalk. The time of doing the work-the morningwas also a convenient one, and under the circumstances it was not the duty of defendants to keep a man at the hose to call the attention of it to persons passing. Refer to Atkins vs. Hamilton, 24 A.R., at p. 391, and Keachie vs. City of Toronto, 22, A.R., 371. Action dismissed with costs.

THOMAS BRENNAN VS. TOWN OF ST. LOUIS .- In this case, tried before the Superior Court in Montreal, judgment was delivered as follows : This is an action for damages for the flooding of a cellar. Plaintiff alleges that he is the proprietor of a house on the corner of Bernard and Waverly streets in the town of St. Louis ; that in the spring of 1899 said property was repeatedly flooded in consequence of the fault of the defendant in not providing drains of sufficient capacity to carry off the water, and in not providing a gully at said corner to receive the surface water ; and plaintiff claims damages in the sum of \$1,159. The defendant pleads non-responsibility; that the drains had been made in said Bernard and Waverly streets

at a time when they were not built at all, and were amply sufficient ; that the plaintiff's house was built after the said drains ; that neither of said streets had been graded ; that as to the gullies they were supplied from time to time as they became necessary ; that immediately after plaintiff's demand defendant did put a gulley at the corner of said two streets ; that the plaintiff's cellar was not flooded by surface water but by water under the surface. The proof shows that plaintiff's house was built after the drains were put in ; that the corner where plaintiff's house is is about the lowest land in its vicinity; that when the drains were put in there were no houses in the vicinity and the plaintiff's house is still the only one in a considerable radius ; that defendant did supply a gully at the corner of Bernard and Waverly streets promptly upon receipt of plaintiff's complaint ; that there exists in that vicinity about 4 feet of earth over the solid rock, and that surface of the rock forms a sort of channel for the conveyance of water, which would naturally take its course towards the plaintiffs house, which is the lowest point in the neighborhood; that there is a wide sidewalk with, on one street, a strip of land to feet wide inside the sidewalk on two faces of the plantiff's house ; the inclination of the ground from the wall of the house is towards the street. thus throwing the water away from the house; the inundations were noticed, beginning in the month of March, at a time when the ground was still frozen, and would not permit surface water to pass through it; the damage to the house is

proved up the amount of \$25 only; costs of protest \$15, and loss of rent \$134. (This latter item is not very satisfactorily proved, as 't is not certain that the building could have been let even if the cellar had not been flooded.) I am of opinion that the plaintiff has not made good his claim against the defendant.

CONSTRUCTING INTAKES.

An unusual method of constructing intakes is described in the last annual report of Mr. Wm. Murdoch, engineer of the St. John, N. B., water and sewerage works. The city obtained control of an old earth mill dam and pond for a new source of supply. A line of 36-inch pipe 50 feet long, built of 2-inch wood staves, was put together on the ice and then sunk. The outer end is in a timber crib, the water entering through a 3 x 4 foot cast-iron grid with bars 3 inches apart on centers. The pipe is covered by gravel. After it was in place, a temporary watertight cover was placed over the grid and the shore end of the pipe built into the dam against an old sluice-gate. This gate was removed and the water in the intake drained out through the opening. Meanwhile a 7 x 10-foot gate house was constructed below the dam, and a brick culvert 3 feet in diameter built back through the dam to the gate, which had been removed, together with all its fittings. The pipe and culvert were then joined.

Mr. A. Milne, late town engineer of Alymer, Ont., has been appointed superintendent of waterworks at St. Catharines, Ont.



MUNICIPAL DEBENTURES BOUGHT ÆMILIUS JARVIS & CO. (Toronto Stock Exchange) 19-21 King St. West, TORONTO Novembe 7, 1900

CANADIAN CONTRACT RECORD.

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