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THIS PAPER REACHES EVERY WEEK THE TOWN AND CITY CLERKS, TOWN AND CITY ENGINEERS, COUNTY CLERKS AND COUNTY ENGINEERS THROUGHOUT CANADA.

Vol. 4.

Toronto and Montreal, Canada, April 13, 1893.

No. 9

CONTRACTS OPEN.

PORT DALHOUSIE, ONT. -- Mr. M. Henry will erect four new cottages at once.

MAGOG, QUE,—Mr. A. H. Moore is preparing to erect new houses on Main street.

MILLERTON, N. B.—Mr. R. N. Weeks invites tenders until the 22nd inst, for the building of a Presbyterian church.

EASTWOOD, ONT.—Tenders are invited by Mr. W. H. Nesbitt until the 15th inst, for the rebuilding of St. Johns church.

ESTEVEN, MAN.—Mr. Crawford, of Winnipeg, contemplates erecting a large hotel on the corner of 13th avenue and 6th street.

HINTONBURG, ONT. — Arrangements have been made for the purchase of a size on which to erect a new Methodist church.

FERGUS, ONT. — The congregation of St. James church intend to proceed with the erection of a suitable edifice at an early date.

PETERBORO, ONT.—The Central Bridge and Engineering Company will efect a new black-smith shop and foundry this spring.

smith shop and foundry this spring.

BARRIE, ONT—The Agricultural Joint Stock Co. are considering the advisability of erecting new buildings in place of those recently burned.

PICTOU, N. S.—The ratepayers will vote on a by-law in a few days to expend the sum of from \$60,000 to \$100,000 for a system of waterworks.

St. Andrews, N. B.—Engineer Brewer, of the C. P. R., is making surveys for the construction of a new wharf. It will be 50-300 feet in size.

size.
WINGHAM, ONT.—Mr. John Pelton of Zet-land, who contemplates moving here shortly, has purchased a lot on which he will erect a pump

PORT STANLEY, ONT.—The Port Stanley Milling Company is being incorporated, with a capital stock of \$50,000, to creek a flour mill at

Sulths Falls, Ost.—Mr, G. T. Martin, architect, will call for tenders in a week or two for heating a bank building and private residence by hot water.

BALSAM, ONT.—Mr. W. F. R. Jones, of this place, will receive tenders until the 18th inst. for the erection of a brick church on the 9th concession.

MITCHELL, ONT.—Mr. A. F. Wilson, secre-retary Building Committee, will receive tenders until Tuesday, the 18th inst. for the erection of a brick church in this town.

QUEBEC, QUE.—The Quebec, Montmorency, and Charlevoix Railway Co. has purchased the Dinning property in Palace Ward, and intends to erect a station thereon.

ST. THOMAN. ONT.—The City Council has adopted plan No. 2 for the new city main sewer, which specifies that it shall run along St. Catharines and Rullway streets.

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.

C. H. MORTIMER, Publisher,

CONFEDERATION LIFE BUILDING, TORONTO. Telephone 2362.

64 Temple Building. Bell Telephone 2299.

Information solicited from any part of to Pominion regarding contracts open to tender

ADVERTISING BATES ON APPLICATION.

At its Convention held in Toronto, Nov. 20 and 21, 1889, the Ontario Association of Architects signified its approval of the CANADIAN CONTRACT RECORD, and pladged its members to use this journal as their medium of communication with contractors with respect to advertisements for

The following resolution was unanimously adopted at the First Annual Meeting of the Proxince of Quebec Association of Architects, held in Montreal, Oct. 10th and 11th, 1890: "Moved by M. Perrault, seconded by A. F. Dunlop, that we the Architects of the Province of Quebec now assembled in Convention being satisfied that the CANADIAN CONTRACT RECORD affords us a direct communication with the Contractors,-Resolved, that we pledge our support to it by using its columns when calling for Tenders."

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

BARTER AND EXCHANGE.

This department has been opened for the speedy barter and exchange of second-hand plant or material, or small lots of new or second-hand materials by builders and others not regularly engaged in the sale of such articles. Advertisements other than those of the above description will not be inserted.

RATES-12 words and under, 13 cents; each additional word, 1 cent (three figures count one word); on two or more subsequent insertions a discount of 10 per cent, will be allowed. Not more than four insertions of an advertisement can be granted.

Replies to advertisements may be addressed to a box at this office, in which case necessary stamps must be sent for re-inailing replies. Advertisements for this department must be prepaid.

TO DRAUGHTSMEN.—About 23 quires of Whatman's Drawing Paper for sale (Imperial size), only \$6 for the lot. Box 151 at this

TENDERS WANTED.

Tenders will be received by the undersigned up to SATURDAY NOON, MAY 6TH, 1893, for supplying

Cast-Iron Pipe for a Submerged Main.

Plans and specifications may be seen at the office of this paper. Each tender must be accompanied by a marked cheque or each deposit equal to sper cent of the amount of the contract. to 5 Pc

e lowest or any tender not necessarily ac-THOS. F. McGUIGAN, City Clerk

Vancouver, B.C., March 30th, 1893.

TENDERS

Will be received at the office of the undersigned for the erection of TWELVE TENEMENTS on Cadiux Street, up to 5 p.m. SATURDAY, 15th

H. AUSTIN JONES, 242 St. James St., Montreal.

TENDERS

Will be received till 5 p.m. SATURDAY, APRIL 2280, for the various works required for the erection of a BRANCH BANK BUILDING at Smiths Falls.

Plans and specifications can be seen from the 12th to the 22nd (inclusive) at the office of

G. T. MARTIN, Architect, Smiths Falls, Ont. The lowest, or any tender not necessarily accented.

ELECTRIC STREET RAILWAY

TENDERS WANTED.

Tenders will be received at the office of the undersigned Company up to the 17TH APRIL, 1893, for the Grading and Track Work on Three and Ore-half Miles of Electric Street Radway, in the Town of Peterboro'.

Plans, specifications and form of tender may be obtained at the office of the undersigned Company, 65-71 Front st, West, Toronto.

The lowest or any tender not necessarily accepted

The Canadian General Riectric Co., Ltd.

GORPORATION OF THE GITY OF THREE RIVERS, QUE.

Sealed Tenders will be received at the office of the undersigned up to MONDAY. TH 17TH APRIL INSTANT (1893) inclusively, for the

ONE DUPLEX, COMPOUND, CONDENSING PUMPING ENGINE,

of the enpacity of 2,000,000 gallons (U. S. gallons) per 24 hours, according to written conditions that may be procured at the above mentioned office

The lowest or any tender not necessarily ac-

L. T. DESAULNIERS, Sec.-Treas, Three Rivers Corporation. City Hall, Three Rivers, 1st April, 1893.

TO CONTRACTORS.

Tenders are solicited by the High School Board of Nugara Falls, Ont., for the erection of a 3-Story and Basement Brick School Building,

also tenders for the heating and equipment.
Tenders will be received for the various trades separately or the entire works.
Plans and specifications can be seen at the Town Clerk's office after April 10th.
Tenders received by the undersigned to May and 1802.

and, 1893.

A marked cheque for 5 per cent, of the amount of the tender required with each tender. Forms of tenders will be supplied by the undersigned on application. Lowest or any tender not necessar-

JOHN ROBINSON, Sec. H. S. Board-

Niagara Falls, Ont., April 5th, 1893.

CLERK OF WORKS.

Wanted—a thoroughly competent Clerk of Works, in Montreal. Apply, stating full particulars of experience, salary required, references,

MESSRS, TAYLOR & GORDON, Architects, 43 St. Francois Navier St., Montreal.

TENDERS

Will be received by the Secretary of the Public School Board up to APRIL 2011 for the several works required in the erection of a

Four Room Brick School Building

in the Village of St. George. Plans and specifications can be seen at the office of the Architect, also at the office of the Secretary P. S. R. No tender necessarily accepted.

R. A. LAWRASON, Sec. P.S.B. JAS A. ELLIS, Architect, Toronto Junction, Ont. St. George, Ont.



Notice to Contractors TENDERS FOR PAVEMENTS

Tenders will be received by registered post, addressed to the Caty Engineer, Toronto, up to 11 o clock, noon, on SAIURDAY, APRIL 22ND, 1893, for the construction of the following

PAVEMENTS:

Front Street, from Church to Frederick Street,

concrete. York Street, from Front to Queen Streets, as-

york Street, from 1 font to Queen Streets, asphalt with toothing.
Gerrard Street, from Parliament to River Streets, vitrified brick or cedar with granite toothing.
Queen Street, from Vonge Street to River Don, asphalt with toothing.
Winchester Street, from Parliament to Sumach

Winchester Street, from Parliament to Sumach Streets, vitrified brick or cedar with grante toothing.

Dundas Street, from Queen to Arthur Streets, asphalt with toothing.

Parliament Street, from Queen to Gerrard Streets, asphalt with toothing.

Parliament Street, from Carlton to Winchester Streets, asphalt with toothing.

Carlton Street, from Yonge to Parliament Streets, asphalt with toothing.

Carlton Street, from Yonge to Paradinent Succes, asphalt with toothing.
College Street, from Yonge to McCaul Streets, asphalt with toothing.
Bathurst Street, from King to Queen Streets, vitrified brick or cedar with granite toothing.

vitrited brick or cedar with granite toothing.

Specifications may be seen, and forms of tender obtained on and after April 18th, 1893, at the office of the City Engineer.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 5 per cent, on the value of the work tendered for under \$1,000, and 2½ per cent, on the value of the work tendered for under \$1,000, and 2½ per cent, on the value of the work over that amount, must accompany each and every tender, otherwise it will not be entertained.

All tenders must bear the bona fide signatures of the contractor and his sureties (see specifications), or they will be ruled out as informal.

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

DANIEL LAMB,

DANIEL LAMB. Chairman of Committee on Works.

Committee Rooms, Toronto, April 12, 1893.

BRANTIURD, ONT.—It has been decided to recommend exemption from taxation for to years to the Slingsby Blanker Company for the enlargement of their factory.

factory.

this place.

sion of Pickering.

PORT HOPE, ONT.—The business men have recommended to the town council to purchase the water power known as Helm's Mill, south of the front street, for the purpose of locating a nail factory here.

UPPER STEWIACHE, N. S. – Mr. Frank Cox will receive tenders until Monday, the 17th inst., for the building of a Presbyterian church in this village, the work to be completed by the 1st Jurc, 1894.

OTTAWA, ONT.—The Dominion Government will shortly commence the election of a bridge over Pond creek.—The Dominion Methodist church is to be completely renovated at a cost or

ARRPRIOR, ONT. - Mr. Galvin, Chairman Separate School Board, is having plans prepared for the rebuilding of his block of stores recently

destroyed by fire; and for a new convent which the board intends to erect.

DARTMOUTH, N.S.—Mr. Alfred Elliott, clerk, will receive tenders until the 15th [inst. for supplying special castings, water valves, lead pipe, corporation cocks, service boxes and cement required for the extension of the waterworks.

BERLIN, ONT.—The Town Council will shortly call for tenders for the construction of sewers on certain streets,—A new artificial stone walk will be constructed on King street from the American House corner to the Bank of Commerce.

NIAGARA FALLS SOUTH, ONT. — Mr. S. I. ockart is preparing to erect a new house on Ferry street.—Mr. Herman Misener contemplates building a residence for hunself on Peter Street, and will commence work in a few days

BAYFIELD, ONT.—A committee of the Huron county council, including the county engineer, were in the village recently for the purpose of locating the bridge to be constructed across the river here this summer. It was decided to select a site further up the river.

TORONTO JUNCTION, ONT.—A by-law has been introduced in Council to issue debentures for the sum of \$10,000 for the extension of the waterworks system and grading Glenholm drive.

—A cooper shop and barrel warehouse will be erected in connection with Mr. Campbell's flour

BROCKVILLE, ONT.—Mr. George Allan, architect, has prepared plans for extensive alterations and improvements to Wall street Methodist church. The seating capacity will be increased to accommodate fourteen hundred persons. The total cost, including carpentering and upholstering, will be about \$20,000.

DELORAINE. MAN.—The Chairman of the Board of Trustees of Broadway School District No. 409 invites tenders until Saturday, the 22nd inst. for the erection of a brick venered school building in above district. The work will be carried out under the supervision of Mr. W. H. Shillinglaw, architect, of Brandon.

EGANVILLE, ONT.—Tenders are invited by the Atlantic and North-west Railway Company until the 25th inst. for the work of clearing and grading the Northern Ontario extension of the above railway. Specifications may be seen at the office of Mr. C. W. Spencer, General Superintendent, Montreal, to whom tenders are to be additional.

dressed.

New Westminster, B. C.—One of the most important works that has been undertaken in this province will for some time be the construction of a traffic bridge over the Fraser river at this place, and for which is now being asked from the city and the local government. The bridge is estimated to cost \$600,000, and will be constructed by certain military companies. by certain railway companies.

by certain railway companies.

OWEN SOUND, ONT,—The two story brick building between Messrs. Parker & Co's and R. Wightman's drug stores will be pulled down in a few days to make room for a large new building which the Parker estate propose to erect. Four plate glass windows will be placed in the front of the building, which will be fitted with all modern improvements.

Windsor, Ont.—Mr. James McKellar, of this town, has purchased Bell's island and will erect a clubhouse thereon, at a cost of \$5,000.—C. L. Potter will erect a residence on his property on Victoria avenue, south of Wyandotte street.—Messrs. Maycock & Newman, architects, are preparing plans for the grand stand to be erected at the new mile track driving park.

VICTORIA, B. C .- It is stated on good author-VICTORIA, B. C.—It is stated on good authority that the Dominion Government are negotiating for the site of the Canada Western hotel on Government street, the intention being to sell the sites of the present Customs House and post office and build a large building on the hotel site for these purposes. It is also reported that negotiations are expected to be completed within a fortnight.

a fortnight,

NANAIMO, B. C.—Mr. Kelly, architect, has prepared plans for a large three-story brick and stone block to be erected on Chapse street, part of which will be fitted up to meet the requirements of the Free Preus office. The block will have a frontage of 50 feet on Chapse street, the first story of which will be used as a large store, and having plate glass front. Tenders for its erection will be called for in a few days.

LONDON ONT —Messes John Freeneson &

erection will be called for in a few days.

LONDON, ONT,—Messrs. John Ferguson & Sons will make extensive alterations to their warehouse on King street.—Mr. J. A. Gauld, architect, 78½ Dundas street, invites tenders until Saturday next, the 15th inst., for the erection of two-story double brick house on Queen's avenue.—The City Engineer has granted the following building permits; J. S. Boomer, King street, brick residence, \$4,000; Mrs. Howell, two-story brick residence, cost \$1,500.

Guelphi, Ont.—A special committee has re-

brick residence, cost \$1,500.

GUELPH, ONT.—A special committee has recommended to the Council that Mr. W. Chipman, C. E., be engaged to prepare a plan and estimate of cost for a system of sewerage for the town, also that a new fire hall be erected, at a cost of \$8,000.—Messrs. Burrows Bros. contemplate erecting a dye house as an addition to their works.—Mr. John Day, drebitect, will receive tenders until Saturday the 15th inst., for the rehuilding of a store lately occupied by Messrs. Pringle & Clums.

KINGSTON, ONT.—Messrs Gillen & Gillen

KINGSTON, ONT.—Messrs. Gillen & Gillen, architects, have drawn up plans for a first class

hotel to be erected on the property of Lieut,-Governor Kirkpatrick now occupied by Messrs, James Gowdy and W. McRossie, on the corner of Princess and Ontario streets,—Mr. James Adams, clerk of works at Kingston penitentiary, recently visited Ottawa in connection with the additions which are to be made to that institution. Two isolation buildings are to be erected at a cost of about \$25,000, and plans are now being prepared at the Public Works Department at Ottawa.

Winnipeg, Man,—Mr. H. McCowan, architect, is inviting tenders for the erection of a packing house for Messrs. J. Y. Griffin & Co.—Additions and alterations will be made to the brick veneer residence of Mr. R. P. Rollin on Garry street, under the supervision of Mr. George Browne, architect.—The congregation of St. George's church have decided to erect a new building this summer, a site having already been purchased at the corner of Isabel and Bannatyne streets. It will be constructed of frame and will cost about \$3 500—Negotiations are on foot for the purchase of the Potter house block, owned by Lieut.-Governor Schultz. The report is that the intending purchasers will erect an opera house on the property.

Montreal, Que,—Messrs, McCuaig & Main-WINNIPEG. MAN.-Mr. H. McCowan, archi-

report is that the intending purchasers will erect an opera house on the property.

Montreal, Que,—Messes, McCuaig & Mainwaring, 147 St. James street, are desirous of purchasing 100,000 hard and soft bricks, delivered at Montreal annex.—Tenders are invited by the City Surveyor until Wednesday, the 19th inst., for the construction of drains in the different portions of the city.—It is said that the Lake of the Woods Milling Company will build a large flouring mill in this city this season.—The City Council have purchased the Gregory property, located between St. Patrick street, Atwater ave., Centre street and the Grand Trunk railway, in St. Gabriel's ward, as a site for the proposed incinerators.—Mr. R. J. Tooke has purchased property on the corner of Peel street, opposite Erskine church, and will erect a large five story structure thereon. Operations will not be commenced, however, until next year.—Mr. W. M. Perrin, architect; has prepared plans for a new Sunday school building to be erected for the Douglas Methodist church on the corner of St. Catharines and Chonnedy streets. It will cost about \$21,000, and will be lighted with gas and electric light,—Mr. H. Robt. Falbord, architect, has prepared plans of a villa at Vaudreil, P. Q., for Mr. F. D. Shallow, proprietor Moniteur du Commerce, to be creeted this year.

HAMILTON, ONT.—At a recent meeting of the shareholders of the Central Fair Agricultural and

HAMILTON, ONT.—At a recent meeting of the shareholders of the Central Fair Agricultural and industrial Association, the directors were authorized to enter into negotiations with the Finance industrial Association, the directors were authorized to enter into negotiations with the Finance Committee to secure the purchase of property and the crection of buildings thereon at a cost of \$50,000.—Mr. Haskins, engineer, has submitted to the chairman of the Sewers Committee a plan of the extension of the west end sewer required to relieve the residents of No. 3 Ward. To complete the work to Queen street will cost \$26,600, but the existing difficulty will probably be remedied by the construction of the portion from the corner of Locke and Bold streets to the corner of Hess and Robinson streets, at an estimated cost of \$12,800.—Plans have been prepared for the erection of a shelter for cabmen, and tenders will be called for the work.—The Gurney-Tilden Company has purchased property on the northeast corner of John and Rebecca streets and proposes to creet additional buildings for carrying on their business.—Messrs. Burrow, Stewart & Milne have decided to make extensive alterations and additions. The wood and stone buildings to the west of the present premises will be pulled down and a new three-story building erected on the site thereof —The trustees of the Centenary church held a meeting on Monday evening last to consider the proposed improvements to the church. The galleries will be altered and the front part of the building remodelled.

TORONTO, ONT.—The estimates of the Ontario Government for 1893 include the following items

to constitute the proposed improvements to the church. The galleries will be altered and the front part of the building remodelled.

Toronto, Ont.—The estimates of the Ontario Government for 1893 include the following items for public buildings: Asylum for the insane, Toronto, \$7.245; asylum for the insane, Mimico, \$17,780; asylum for the insane, Brockville, \$100,000; asylum for the insane, Brockville, \$100,000; asylum for the insane, London, \$20,835; asylum for the insane, Hamilton, \$26,600; asylum for the insane, Hingston, \$11,850; asylum for didots, Orillia, \$3,700; reformatory for boys, Penetanguishene, \$6,105; reformatory for boys, Penetanguishene, \$6,105; reformatory for females, \$2,495; Central prison, Toronto, \$53,000; Deaf and Dumb Institute, Belleville, \$15,055; Blind Institute, Brantford, \$1,530; Agricultural College, Guelph, \$15,500; Education department, Normal school, Ottawa, \$6,000; School of Practical Science, Toronto, \$13,720; Osgoode hall, Toronto, \$500; Government House, Toronto; \$5,000; New Parliament and Departmental buildings, \$57,801; Algoma district, \$1,000; Thunder Bay district, \$1,300; Muskoka district, \$700; Parry Sound district, \$1,000; Nipissing district, \$2,100; Rainy River district, \$2,900.—A sub-committee of the City Council have recommended that the G. T. R. company be granted the right of way for the erection of a foot bridge over their tracks at the foot of Brock street. The recommendation has been referred to the City Engineer for a report thereon.—Tenders will shortly be called for constructing drains in the Exhibition grounds, the work to cost \$5,000.—The Bell Telephone company contemplate building in Parkdale.—The erection of a new school house is contemwill also erect an office building in Parkdale.— The erection of a new school house is contem-

plated at Dovercourt. — Mr. J. Ades Fowler, architect, has prepared plans for 6 pair of houses to be erected on Guelph avenue for Messrs. Palmer & Harrington. The plans may be seen at §8 Jarvis street by those desirous af tendering on the work.—The City Council has decided to exempt from taxation the buildings and plant of the Chicago Steel Wheel Wagon Company, who wish to locate in Canada.—Plans are now being prepared by Messrs. Darling, Sproatt & Pearson for a new dormitory and a large gynnasium to be erected in connection with Trinity University. The work of building will be completed before the fall term commences.—A by-law will be submitted to the ratepayers granting 200 acres of land on the north side of the proposed Ashbridge's bay channel and a bonus of \$75,000 to the Kelly Mining Company of New York who wish to establish smelting works in this city. The company agree to expend the sum of \$500,000 to buildings and plant. The representatives in the city are Messrs. J. G. Morehouse and W. V. Reynolds.—Building permits have been granted as follows: John Sullivan, 224 Bellwood ave, det, 2 story lik. dwelling, cost \$1,400; A. & S. Nordheimer, 6 story and basement, Jik. and stone warehouse, n. side Colloone street, cost \$28,000; John Leckie, additions to warehouses, 9 and 11 Church street., cost \$8,000.

FIRES.

FIRES.

The large brick flour mill and storehouse, together with all the contents, belonging to McCahill & Co., at Forest, Ont, were consumed by the recently. The loss is placed at \$24,000, the insurance being \$15,500.—Morrison Bros. harness shop and Jenkins & Sons' clothing establishment, at Petrolea, Ont., were burned on Thursday of last week. The buildings were owned by J. Huggard, of Toronto.—A frame block at the corner of Lochiel and Victoria streets, Sarnia, was destroyed by fire on the 9th inst. The losers are: Wm. Johnston, grocer; C. Eacrett, saddler; S. Dennis, butcher; W. A. Buchner, furniture, and W. Graham, butcher.—Fire was discovered in the store of the Patrons of Industry, at Dutton, Ont., on the morning of the 8th inst., which destroyed \$50,000 worth of property, including the Windsor hotel, J. Price's general store, McPherson & Drake's general store, Dutton post-office, opera house, Mechanics Institute, Davis tailor shop and F. Miller's tailor shop. Mr. A. J. Leitch owned nost of the buildings.—The store and contents of J. D. Gohen, at Norham, Ont, were completely destroyed by fire last week, Loss \$1,500, covered by insurance.—Ambrose Hayward's residence at Woodstock, Ont., has been destroyed by fire. The loss is partly covered by insurance.—Messrs. A. R. McKinley & Co.'s large window shade factory on St. Alban's Street, Toronto, was completely destroyed by fire Co.'s large window shade factory on St. Allians street, Toronto, was completely destroyed by fire on Monday last. The loss will be about \$30,000, on which there is an insurance of \$25,000.

CONTRACTS AWARDED.

GODERICH, ONT.—The Goderich Organ company have let the contract for an addition to their building, to be 32 x 48 feet and three storeys high.

NIAGARA FALLS, ONT.—Mr. Lovell has been awarded the contract for building two houses on Welland Avenue for Mr. S. Neil, and a house on Alice street for Mr. P. Glenn.

WINDSOR, ONT.—The Board of Education has accepted the tender of Mr. Alfred Dynes for a gymnasium, his tender being \$3.065. He also secured the contract for an addition to Mercer street school.

AMHERSTBURG, ONT.—Mr. Alexander Tour-angeou has been awarded the contract for build-ing the Canard River bridge, at the price of \$995. There were twelve tenders sent in, rang-ing from \$995 to \$2,300.

VANCOUVER, B. C.—Mr. James Learny has been awarded the contract by the Dominion Government for the construction of the quarantine wharf at William's Head, the amount of tender being in the neighborhood of \$15,000.

London, ONT.—Contracts have been awarded for the erection of the new St. James' Episcopal Sunday school in South London, and work will commence next week. The total cost will be about \$5,000.

about \$5,000.

TORONTO, ONT.—Messrs. A. Walsh & Co., of this city, have been awarded the contract for grading, etc., the first section of the Toronto and Scarboro Electric Railway, from the Woodbine corner to Blantyre ave.. Kingston road, at \$1,145 per mile. The contractors are to complete the work by the 15th May.—The City Council has awarded the contracts for the Ashbridges Bay improvements, the successful tenderers being as follows: Section 1, B. D. McNamee, price \$62,102; section 2, Shields & Sutton, price \$44,064.

MONTREAL, QUR.—H. Austin Jones, architect, has awarded the contract for a double tenement house, Dorchester street, for Mrs. P. J. Durack, to the following contractors: excavating, masonry and cut stone work, G. W. Turner & Co.; brickwork, John Sheehan; carpenter and joiner work, J. E. Mooney & Co.; plumbing and tinsmithing, F. Horton; plastering, G. Grenier, painting, A. Bennett; roofing, D. Nicholson.—H. Robt. Falbord, archi ect, has awarded contracts as follows for two 4-story houses on Visitation street for Messrs. J. B. Marlbiot & Fils: excavations, drains and stone work, A. MONTREAL, OUR .- H. Austin Iones, architect.

Rateau; brickwork, Alf. Gauthier; carpenter and joiner, C. Sicotte: roofing and plumbing. Rateau; brickwork, Alf. Gnuthier; carpenter and joiner, C. Sleotte; roofing and plumbing, Bombonniere & Lapiere; painting and glazing, Vallancourt & Grisebois. For seven 3-story houses, etc., on Grant and Montealm streets near Notre Dame, for Mr. P. P. Martin, wholesale merchant stone, G. Gudault; brickwork, Riopel & Landry; carpenter and joiner, Alf. Fournier; roofing and plumbing, J. E. Lewis & Frere: plastering, J. Lefebvre; painting and glazing. C. M. Lavorc, For two 3-story houses on St. Denis street for Mr. Idor Lauviere: excavations, drainage, masonry and cut stone, Latour Lauviere, brickwork, carpenter and joiner, roofing, plumbing, plastering, painting and glazing, L. M. Jette.

MUNIGIPAL DEPARTMENT.

WHAT GOOD ROADS MEAN.

THEY would make it possible for the farmer to take advantage promptly of the highest market, no matter at what season of the year.

They would save him days and weeks of time which he wastes every year wallowing through the disgusting mire of dirt

They would reduce to a minimum the wear and tear on wagons and carriages.

They would lessen the expense in keeping horses in working order, and fewer horses would be required in the country

to perform the farmer's work.

They would require less to keep them in repair than 60 the dirt roads.

They would make it easier for a team to pull several tons over their smooth surface than to draw a wagon through the mud.

They would afford ready communication with the outside world at all seasons of the year.

They would save the farmer many vex-

ations and nervous strains.

They would practically shorten the distance to the local market.

They would increase the demand for ccuntry and suburban property.—Farm and Fireside.

STRENGTH OF VITRIFIED SEWER PIPE.

That ordinary vitrified sewer pipe has an ultimate strength to withstand an internal pressure of 100 lbs. per sq. in is a state-ment which will, perhaps, surprise many engineers. Prof. M. A. Howe, in a paper in another column, reports experiments showing this to be the case, but proving that the weak point of such pipe, so far as bursting pressure is concerned, is the joints. The ordinary joint fails at about one-fourth the pressure which the pipe itself will withstand; but by using improved joints the author believes that their strength may be made equal to that of the

These facts are especially important in view of the use of vitrified pipe for watersupply conduits. In nearly every one of the few cases where vitrified pipe has been so used, great pains have been taken to keep the pipe on the hydraulic grade line so that it should not be subject to internal pressure. The decours which this makes necessary, however, may often do much to neutralize the saving over cast-iron or steel conduits. If vitrified pipe can be safely used under moderate presure, its cheapness, cleanliness and free-dom from corrosion and incrustation ought to bring it into extended use for water-works conduits.

Of course it is to be remembered in useing such pipe under pressure that while its strength is considerable, its resilience is very small. Hence it should never be used where a water hammer can come upon it. A steady pressure it can bear with safety, but any gates on the conduit except at the head should be considered out of the question. Bearing this in mind and taking proper precautions whenever the water is drawn off from or let into the pipe, it ought to be possible to use conduits of vitrified pipe under considerable pressure.

The saving in cost over cast-iron pipe in the case of the vitrified pipe main, 5.63 miles long, supplying Little Falls, N. Y., was over one-half, according to the paper

MUNICIPAL ENGINEERS, CONTRACTORS, AND MATERIALS.

by Mr. Stephen H. Babcock read before the American Water-Works Association in 1888 Eng. News, April 18, 1888). Mi. Babcock, in the vitrified pipe mains laid under his direction, has taken great pains not to subject the pipe to internal pressure and has used cast-iron pipe whenever it was necessary to drop below the hydraulic grade line. In the discussion on Mr. Babcock's paper, however, Mr. J.T. Fanning said that a 2 ft. vitrified pipe conduit 7,000 ft. long was in use under an average head of 15 ft. on the water-works of an Eastern city. The pipe forms the supply main leading from an impounding reservoir toward the city, and is connected to the lower and with the firm size. at its lower end with an iron pipe. To prevent any water hammer coming on the vitrified pipe an open-topped standpipe was placed on its lower end, with its top 3 ft. higher than the water covered with wrought-tron sleeves packed with Portland cement. This conduit has been in use for 20 years and has given perfect satisfiction.—Engineering News.

LEGAL DECISIONS AFFECTING MUNICIPALITIES.

In erecting a market place under the provisions of its charter a city is exercising a private or proprietary right, and will be held to the same degree of care, not only in the construction, but in the plan of the construction itself, and liable for the degree of negligence as would a private corporation or an individual, according to the decision of the Supreme Court of Michigan in the case of Barton vs. The City of Detroit court said that the case was not like the case of a public highway or building of a bridge, where the duty is cast upon the municipality by general law to build or maintain them.

VILLAGE OF THORNBURY AND COUNTY OF GREY.—Judgment on appeal by the village corporation from an order of Street, J., in Chambers, allowing an appeal from a taxing officer, who taxed the appellants' costs of an arbitration, and as part thereof the fees paid to the arbitrators. The question arose as to the arbitrators' fees, as to whether they were to be allowed so much a day, no matter what the length of the day, or whether they were to be allowed for a day of six hours and an extra amount where they sat longer than six hours. Appeal dismissed with costs, the court holding that the ordinary rule must be followed and that the statute could not have the effect of making each six hours' sitting a separate day.

Jackson v. Township of London was a suit brought by George R. Jackson, a farmer, against that corporation to recover damages as the result of an accident with which he met on the public highway.
At the place where the accident took place a washout occurred, and he claims the road had been narrowed as a consequence from a width of 24 to 11 feet at the approach to a bridge 14 feet wide. Plaintiff was returning home from the city one night last August about 10 o'clock and deviating about one foot from the usual path of the wheels of a vehicle, the rig was thrown down an embankment. He sustained injuries which might be permanent. The washout had occurred over a month before the accident, and the plaintiff claimed that there was negligence on the part of the corporation. Verdict on the part of the corporation. for pluntiff and \$1,000.

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A. STIMSON, 9 Toronto Street, Toronto. N.B.-Money to loan at lowest rates on first mortgage.

THOROLD CEMENT

I have tested with Reihle's Testing Machine the tensile strength of six blocks made from the barrel of Thorold Hydraulic Cement sent me last summer. The blocks were made of neat cement, and were 14 inches square at the smallest part. Four of them were kept 23 days in air, and only broke under the following weights: No. 1, 420 lbs.; No. 2, 470 lbs.; No. 3, 436 lbs.; No. 4, 420 lbs.; averaging 437 lbs. each, or 194 lbs. per square inch. The remaining two were kept one day in air and forty-seven in water, and broke under the following weight. No. 5, 420 lbs.; No. 6, 450 lbs.; averaging 435 lbs. each, or 193 lbs. per square inch.

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Putty...
Whiting, dry, per 200 lbs...
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Umber,

3d to 3d cold cut, not polished or blued, per 100 lbs... ..

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4d to 3d, ""
1d to 3d, ""

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inch, per 100 lbs...

2d, " 175

COMMON BARREL NAILS.

1 inch, per 100 lbs. 175

CLINCH NAILS.

3 inch, per 100 lbs. 85

2 and 2 4 " 100

2 and 3 4 " 115

1 3 and 1 4 " 135

1 4 and 1 4 " 125

1 5 and 1 5 " 125

1 7 and 1 8 " 125

1 8 and 2 8 " 125

1 9 and 2 9 " 125

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Quebec and Vermont rough granite for building pur-				
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nite paving blocks, 8 in. to in. x 6 in. x 4 1/2 in., per M 5	900			Kathoun Covill	Fensom, John Miller Bros. & To
nite curbing stone, 6 in.x in., per lineal foot	70			Rowe, Geo II Boller Covering.	Otis Brothers & C Leitch & Turnbull
ing (* square).				Can-Mineral Wool Co xiv	Elevator Me
" purple	4 CO 9 00		5 00 3 (0	Building Stone	Ball Electric Co.
uniading green	8 50 7 50	•	ာ်လ	Denlera. Carroll, Vick & Co IV	Engraver Can. Photo-Eng
	3 00	7	7 50	Canadian Granite Co. II	геар
PAINTS. (1= ail ¥	7 50		•	Longford Quarry and Lime Co viii	Fire Brick and
te icao, Can., per 100 lbs. 6 25	6 50		25	Morrison & Co., T.A. v	Bremner, Alex Colman-Hamilton
1020, Eng	0%	750 E	3 œ	Owen Sound Stone Co IV Samuel & Sons, Thos. II	Currie & Co. W & F Hyde & Co., F
vermillion	I 75 I 00		75 00	Builders' Hard-	Hyde & Co., F McNally & Co., V Morris, E. D
ow ochre	10	10	6	Rice Lewis & Son IV	Webster Bros. & P. Galvanized 1
m, chrome	33 30	25	20 12	Creosote Stains	Works. Douglas & Plunke
Paris as	40		30	Cabot, Samuel xii	Tucker & Dillon.

4 50	Bricks (Pressed).
	Beamsville Pressed Brick Co iv
	Don Valley Pressed
	Brick Works ix
	Morrison & Co, T A y
	Toronto Pressed Brick
	& Ferra Cotta Co iii
	The Ont. Terra Cotta
	Brick &Sewer Pipe Co vii
	Builders' Supplies.
	Adamant Mfg Coviii Bremner, Alexxii
	Copland & Co 11
	Currie & Co, W & FP xiv
	Hyde & Co., F xiv
	Maguire. Wm iv
	Morris, E. Dviii
	McNally & Co x Morrison & Co., T A v
	Rathbun Coviii
	Rowe, Geo 11
	Boller Covering.
	Can-Mineral Wool Co xiv
5 00 3 (0	Building Stone Dealers.
000	Comell Wish & Co. 117

Dealers.
Carroll, Vick & Co IV
Canadian Granite Co. II
Laurie, John II
Longford Quarry and Lime Co viii
Moir Granite Co i
Morrison & Co., TA. v
Owen Sound Stone Co IV
Samuel & Sons, Thos. II

Church and School Furniture.

Toronto. Montreal.

2 25 2 35

Cements.

Adaman Mfg. Co... viii
Bremner, Alex... xii
Currie&Co, W.&F P... xiv
McNally & Co., F... xiv
McNally & Co., Wn... x
Maguine. Wm... iv
Morris, E. D... viii
Morison & Co., T.A... v
Rathbun Co... viii
Webster Bros. & Parkes vi

Contractors and Builders. Davidson & Kelly.... II Turner & Co., G. W., vi

Contractors' Plant and Machinery Copland & Co...... II Rowe, Geo! II Cut Stone Con-tractors.

Curtis & Rowe.... II
Issac Bros.... II
Oakley & Holmes... II Chimney Topping.

Bremner, Alex.... xii Currie&Co. W &F-Pxviii Drain Pipe

Bremner, Alex xii
Currie & Co., W&F.P. xiv
Hamilton and Toronto
Sewer Pipe Co. xii
McNally & Co., W. x
Maguire, Wm. iv
The Ont. Terra Cotta.
& Pressed Brick Co. vii
The Colman Hamilion Co. Dumb Walters King & Son, Warden xi

Elevator Motors
Ball Electric Co...... IV Engravers.

Can. Photo-Eng Bu-Fire Brick and Clay Bremer, Alex. xii
Colman-Hamilton Co., iii
Curric& Co, W & F P., xiv
Hyde & Co., F., xiv
McNally & Co., W., x
Morus, E. D., viii
Webster Bros. & Parkes vi

Galvanized Iron Works. Douglas & Plunkett.. II Tucker & Dillon..... II

Grates and Tiles.
Bostwick, G. F. ... vii
Holbrook&Mollington i
Webster Bros. & Parkes vi
Rice Lewis & Son... IV

INDEX TO ADVERTISEMENTS

in the "Canadian Architect and Builder.

Iron Pipe. King & Son, Warden.. xi

Laundry Tube
Forsyth, Robt..... i

Legal.
Denton, Deds & Denton. IV

Metallic Lath.

B. Greening Wire Co. xiv
Metallic Roofing Co... ix Mortar Colors and Shingle Stains,

Ornamontal Plas.

Fainters.
Gilmor & Casey.... x
Tourville, Chas..... vi Paring.
The Guelich Silica
Barvie Stone Co...III
Forsyth, Robert.....i

Paving Materials McAuthur & Co., Alex ii Pipe Covering Can. Mineral Wool Coxiv

Plastere::s Hynes, W. J.... I Watson Bros..... II

Plato Glass
Hobbs Hardware Co., xii
McCausland & Son... v
Pilkingten Brothers... ix
Toronto Pix': Glass
Importing Co..... vii

Plumbers
Bennett & Wright... xiv
McCrae & Watson... vi Parquetry Floors
Elliott & Son..... I
Johnson, S. C.....xiv

Plumbing Supplies

Moofing Materials
McArthur & Co., Alex ii
Merchant & Co., xiv
Metallic Roofing Co. 1x

Actalite Rooting Co ix
Hoofers
Duthic & Sons. G. II
Hutson, W. D. II
Hotalic Rooting Co. ix
Rennic & Son. R. II
Stewart, W. T. II
Toronto Rooting Co. II
Williams & Co. H. II

Malcolm, W. B... iv
St. Johns Stone China:
wate Co... ii
Toronto Steel Clad Bath
& Metal Co... II
Shingle Stains
Cabot, Samuel... xii
Sliding Blinds
Lea & Sesman... 11

Terra Cotta
Toronto Pressed Brick
& Terra Cotta Co... iii
The Ont. Terra Cotta
& Brick Co... vii
The Ratitan Hollow &
Porous Brick Co... viii

Wall Paper and Ceiling Decorations Elliott & Son...... II Faircloth Bros.... v Staunton & Co., x

WireManufacturers Meadows, Geo. B.... xiv

Weather Strips St. Amour, E. vi