CANADIAN

Contract Record

A Weekly Journal of Public Works, Tenders, Advance Information and Municipal Progress

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. 15.

TORONTO, MONTREAL AND WINNIPEG, NOVEMBER 30, 1904

No. 42

THE CANADIAN CONTRACT RECORD

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Subscribers who may change their address should give prompt notice of same. In doing so give both old and sew address. Notify the pub-liabers of any irregularity in delivery of papers.

DEBENTURES FOR SALE

Tenders are invited by the undersigned until DECEMBER JIST NEXT, for the purchase of fifteen thousand dollars worth of water works debentures of the Town of Red Deer, N.W.T.

I. C. FULMER. Secretary-Treasurer.

TENDERS WANTED

Tenders will be received by the Council of the Township of Hullett up to 1 p. m. on THURS-DAY, THE 157TD BECEMBER, 104, for the erectic nof Concrete Abutments to support two steel bridges, also for a concrete arch four feet in diameter and eighteen feet long. At the same time and place tenders will be received for the steel superstructure of the said two bridges, length between abutments being. The lowest or any tender not necessarily accepted. Specifications for the Concrete work can be seen at the Clerk's office, Londesboro.

JAMES CAMPBELL, Clerk.

TOWN OF EAST TORONTO PROVINCE OF ONTARIO

TENDERS FOR **POWER HOUSE**

Tenders will be received by the undersigned up to 8 p.m. on MONDAY, DECEMBER 5TH 1904, for providing the materials and labor re-quired in making alterations and additions to

BRICK POWER HOUSE

situated at the South-west corner of Gerrard and and John Streets.
Plans and specifications may be seen and forms of tender obtained at the office of the undersigned, or at the head office of JOHN OALT, C.E. and M.R., Chief Engineer, Toronto.
A certified bank cheque for \$500 must accompany each tender.

W. H. CLAY, Clerk, Town of East Toronto.

TENDERS

will be received by the undersigned up to SATURDAY, JANUARY 774, 1995 for the reast of the Waddel Creek drain in the Township of Saraia, a distance of about 1996 rows. Plans and specifications can be seen at the The lowest or any tender not necessarily accepted.

MAGGIE LOWRIE, Township Clerk, Box 245, Sarnia

TENDERS

FOR THE SUPPLY OF

CAST IRON PIPE

Sealed tenders marked "Tenders for the supply of Cast Iron Pipe" and addressed to M. W. Plannery, Town Clerk, will be received by the Corporation of the Town of, North Bay, Gatario, Canada, not lat "than 12 o'clock, noen, of the fers DAY OF DECHMBER, 1908, for the supply of 18,000 f. of to "Cast Iron Pipe, logether Plans, specifications, bill of quantities, and form of proposal may be seen at the office of the Town Rugueer, from whom copies may be obtained.

The lowest or any tender not necessarily accepted.

M. W. FLANNERY, Town Cast.

M. W. FLANNERY, Town Clerk. North Bay, Ontario, 26th November, 1904.

CONTRACTS OPEN

MICHEL, B.C.—A new Church of England building is to be erected here.

IRON BRIDGE, ONT.—It has been decided to build a new school house

KINCARDINE, ONT.—George Mc-Kenzie will build a residence on Queen

SWAN LAKE, MAN .- Mr. Hugston, Headingly, has decided to build a mill here.

MOOSOMIN, N.W.T .- Work on the hospital here will be commenced early next spring.

THORNBURY, ONT .- Henry Pedwell, of this place, purposes erecting a saw mill at the head of Barrie Bay.

PERTH, ONT. — Plans are under way looking to the construction of a wooden dam at Bob's Lake.

ABERNETHY, N. W. T. - A joint stock company has been formed here to build a large skating and curling rink.

CHATHAM, N. B.—The purchasers of the Maritime pulp mill property here intend building a paper mill next year.

CARSONBY, ONT. — The Methodist congregation are considering the remodelling of their church.

FERNIE, B.C.-The Canadian Pacific Railway purpose building a round house, depot, and additional yards at Crow's Nest.

PRINCE ALBERT, N.W.T. - The time for receiving tenders for construc-tion of post office here has been extended to January 2, 1905.

TORONTO JUNCTION, ON T. — The Methodists of this place are making arrangements for the erection of a new church in the near future.

BRIDGEWATER, N. S.—James A. Curll, Town Clerk, will receive offers up to December 20 for purchase of \$6,000 4 per cent. debentures.

WOLFVILLE, N. S.—The Council are moving in the direction of installing an electric plant in addition to the plant already in operation.

DUNDAS, ONT. - The Board of Education have appointed a committee to consult with an architect regarding plans for a new high school.

ST. THOMAS, ONT.—The County Council have appointed a committee to report at the January session on the construction of a bridge at Port Burwell.

GLACE BAY, N. S.— The Council have decided to construct an overhead bridge across the railway track on the proposed new road to New Aberdeen.

CLIFFORD, ONT.—J. R. Aitcheson, Village Clerk, desires bids by Monday, December 5, for purchase of \$6,526.65 4 per cent. local improvement debentures.

ORANGEVILLE, ONT .- Bids wil be received by A. Hughson, Town Clerk up to Monday, December 5, for the pur, chase of \$15,000 4½ per cent. deben-

NORTH TORONTO, ONT. Webster is about to erect a residence on Sherwood ave.—George Hall has com-menced the erection of a residence on Yonge street.

CHATHAM, ONT .- Plans for market buildings have been submitted by J. L. Wilson & Son, T. J. Rutley and A. M. Piper. The estimates range from \$25,000 to \$34,000.

SOURIS, MAN.—Bids will be re-ceived by J. W. Breakey, Secretary-Treasurer, up to December 31, for the purchase of \$13,500 5 per cent. deben-

ST. JOHN, N. B.-F. A. Barbour, C. E., of Boston, has two survey parties at work in connection with the proposed extension of the waterworks system to Loch Lomond.

DUNNVILLE, ONT.—Tenders will be invited in December for the construc-

be invited in December for the construc-tion of the new County House of Industry here. The building will cost in the neigh-borhood of \$20,000. HARROW, ONT.—James H. Brown, treasurer Township of Colchester South, desires bids by Saturday, December 3rd, for the purchase of \$11,255.40 5 per cent. drainage debentures.

REGINA, N.W.T. — The Secretary-easurer of the Corporation has been nstructed to call for tenders for a steam or gasoline fire engine, which is estimated to cost about \$20,000.

MINTO, MAN.—The ratepayers of the municipalities of Minto and Odanah will vote on December 20th next on by-laws to raise \$50,000 each for repairing and improving the roads.

LEWISVILLE, N. B.-The Lewis-ville Brick Co. purpose installing new machinery.—The Water & Light Com-mittee have decided to take steps at

once to increase the electric light plant.

MORRISBURG, ONT.—W. McLea Walbank, of Montreal, has been com-missioned by the Village Council to sub-mit a report as to the most suitable site

mit a report as to the most suitable site for establishing a water power plant. HALIFAX, N. S.—J. C. Dumaresq & Son, architects, are this week taking tenders for the erection of a freestone branch banking building at Amherst, N. S., for the Bank of Montreal, work to be commenced next spring.

GUELPH, ONT.—The Bell Building Syndicate Co., Limited, has been formed, with a capital of \$40,000, to undertake the extension of the Bell Piano & Organ Co.'s factory. A new building will be built on the Royal Hotel site next year.

CALGARY, N. W. T. — Upwards of \$5,000 has been subscribed towards the erection of a Y.M.C.A. building.—A vote of the ratepayers on a by-law to raise \$60,000 to install a municipal electric light plant will be taken December 20.

PORT STANLEY, ONT. - Tenders are invited by the Department of Works, Ottawa, up to Monday, December 19th, for the construction of two breakwaters and dredging at this place. Plans on application to the Postmaster.

SEAFORTH, ONT. - McKillop Township Council will meet here on Friday, December 9, for the purpose of receiving tenders for the cement abutments and steel superstructures of five new bridges to be erected in the Township

OWEN SOUND, ONT.—H. Merriam is about to build a residence on Murdock street. — Keenan Bros., Limited, have acquired property adjoining their basket and pail factory and will likely build a large addition in the near

BRANDON, MAN .-- W. R. Marshall, architect, is preparing plans for remodelling the Imperial Hotel. The whole front will be rebuilt, a third storey added to the building, as well as a three-storey ad-dition 60 x 80 feet. The work will cost

KAMLOOPS, B.C.—Among the new buildings contemplated here are a new brick convent for the Sisters of the Sacred Heart, a brick block to built on Victoria street by F. S. Hussey, of Victoria, and a block on the same street, opposite the Hussey property, to be built by D. C.

KINGSTON, ONT.—A by-law will be submitted to the ratepayers in January to raise \$2,800 for construction of sewer on O'Kill street.—E. M. Storey, architect, is taking tenders up to noon on Thursday, December 1st, for the mason and carpenter work required in enlarging the vault in the Registry office.

PORT ARTHUR, ONT .- Mariagg & Skinner, of Winnipeg, have purchased the Northern Hotel here and will remodel and refurnish it.—The Canadian Bank of Commerce intend purchasing a site and erecting a banking building here next

SARNIA, ONT.—By-laws have been passed by the Council to borrow \$15,000 for a sewerage system for the North

Ward, \$15,000 to construct certain pavemen's, \$2,500 for enlargement of cut-off drain, and \$2,00 for pur hase of pipe for waterworks extension.

SIMCOE, ONT .- The town will put in a large concrete culvert, to take place of the bridge that crosses Creek, probable cost \$2,000.—A by-law has recently been passed to issue debentures for local improvements to the amount of \$3 000.

ST. JOHNS, NFLD. ST. JOHNS, NELD.— Hamsworth Bros., of London, England, who have purchased timber lands from the New-foundland Timber Estates, purpose building pulp and paper mills here, on which about \$500,000 will be spent

LONDESBORO, ONT. — J. Campbell, Clerk Township of Hullett, invites tenders up to Thursday, December 15, for the erection of concrete abutments and steel superstructures for two bridges, also for a concrete arch 4 feet in diameter and 18 feet long

FREDERICTON, N. B.-C. H. La Billois, Commissioner of Public Works, will receive tenders up to Monday, De-cember 12, for rebuilding Brigg's mill bridge, Carleton county. Plans at the above Department and at office of W. P. Jones, M. P. P., Woodstock.

RONDEAU, ONT.—The Dominion Government are asking for tenders up to Monday, December 19th, for the con-struction of two breakwaters and dredging at this place. Plans on application to the Postmaster and at offices of H. A. Gray, C.E., Toronto, and J. G. Sing, C.E., London.

C.E., London.

VANCOUVER, B. C.—It is proposed to submit a by-law to the ratepayers to raise \$50,000 to be expended on the improvement of Eoglish Bay. — The Bellingham Bay and British Columbia. Railway from Maple Falls across the divide in Coast Range, near Mount Baker, and on to Spokane.

PETERBORO, ONT. - The Peter-boro Shovel and Tool Co. will erect a factory 200 x 60 feet, on which work will likely be commenced early next spring.

C. H. Keefer, C. E., of Ottawa, has reported that it will cost about \$82,000 to build a new concrete waterworks dam. In addition an auxiliary 12-inch water main from the Hilyard mills to Smith street is proposed.—The Peterboro Lock Co. are looking for a site for their new

BRANTFORD, ONT .- Peter Wood intends making improvements to the Kerby House.—It is understood that plans are being drawn by a local archiin this city by a company now being formed. — An electric railway between Brantford and Hamilton seems to be assured. The route is now being surveyed and construction will be commenced early next spring. J. K. Leslie, of Toronto, is one of the promoters.

onto, is one of the promoters.

NELSON, B.C.—A large mining deal was consummated list week by which Forbes & Morton, capitalists, of Minnesota, acquired a number of important claims. The properties will be actively developed and the sum of \$100,000 is to be expended in driving a tunnel for a mile and a half on the Nettie L. mountain. F. C. Elliott, barrister, acted in connection with the deal.

OCTANAL ONT — A new Roman

connection with the deal.

OTTAWA, ONT. — A new Roman
Catholic church will be built at St. Clare,
near Richmond, next year. Father Newman, Parish Priest, was in the city last
week consulting with an architect regarding plans.—A site has been secured on
the corner of Slater and O'Connor streets
on which to erect a new Y. M. C. A.
building. — The trustees of Belt street

Methodist church are considering the erection of an addition to the Sunday school building

COLLINGWOOD, ONT. -COLLINGWOOD, ONT. — At a meeting of the Board of Directors of the Y. M. C. A. h-ld last week, the question of erecting a new building to cost about \$8,000 was considered. — W. A. McLean, C. E., of the Ontario Public McLean, C. E., of the Ontario Public Works Department, has tecommended that the County Council construct a bridge near the mouth of the Nottawasaga river.

ST. MARY'S, ONT. The ST. MARY'S, ONT. — The Grand Trunk Railway have arranged with the City Council for a water supply for their engines. The company agree to build their own water tank, with a capacity of 50,000 to 100,000 gallons, and the town will run a pipe from the water main to the railway line.—A Toronto syndicate and the part takes and t are said to have taken an option on the farm of John Legge, adjoining the Horse-shoe Quarry, for stone quarry purposes, and are prepared to expend a considerable sum in development.

WINNIPEG, MAN.—A proposition is being considered to erect a new Jewish is being considered to erect a new Jewish synagogue in this city.—J. Williams has formed a joint stock company, with a capital of \$100,000, for the purpose of being in a position to develop his stone quarry. The C.P.R. will construct a railway to the quarry, which is eleven miles from the city.—It is probable that a new Salvation Army barracks will be built in Winnipeg next year. It is said that the Canadian Northern Rallway have decided upon the plans for their new depot, and that the work of construction will be commenced early next spring.

VICTORIA, B.C. — The Victoria Memorial Committee are asking for de-signs for a memorial to Queen Victoria, signs for a memoral to Queen Victoria, to be placed in Stanley Park. Designs received by G. H. Tom up to January I. -W. Ridgway Wilson, architect, is taking tenders for the erection of a 3-storey frame residence, stable, entrance gates, etc., on St. Charles street for A. E. Todd.

—The scheme outlined by the Water Commissioner for a waterworks system Commissioner for a waterworks system includes the following quantities of pipe: 24,000 feet of 30-inch; 6,000 feet of 24-inch; 5,300 feet of 18-inch; 19,600 feet of 12-inch; 19,000 feet of 65-inch; 37,500 feet of 6-inch; 62,000 feet of

LONDON, ONT .- Charles Dengate will build two brick veneer houses on Anderson avenue.—A special committee of the City Council have recommended the submission of a by-law to the electors to raise \$15,000 for the West London breakwater.—The City Engineer has prebreakwater.—The City Engineer has pre-pared a statement showing that it will require 400,000 bricks to pave King street, between Wellington and Ridout. The City will purchase the brick and give out the contract for laying them.— R. H. Smith has been granted a permit to build three brick veneer residences on Brighton street. Brighton street.

HAMILTON, ONT. - R. & J. Poag, contractors, have purchased the property on the south-east corner of Park and Mulberry streets and intend building five Mulberry streets and intend building five or six 2-storey brick houses thereon.—
The Twentieth Century Club, recently formed, purpose erecting a club building. James Bryer is secretary.—A by-law to raise \$15,000 for market improvements, including the erection of a shelter for butchers, may be submitted to the rate-payers.—The following building permits were recently granted: Stewart & Witton, three brick houses on Robinson street, between Bay and Caroline streets, cost \$1,800 each; Herbert Holden, two brick houses, corner Wentworth and Nightingale streets, cost \$2,000.

FORT WILLIAM, ONT.—A depu-

FORT WILLIAM, ONT .- A deputation from this place last week inter-

November

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THE "CYCLOPEAN"

Bottom Dumping

CONCRETE BUCKET

Dumps the Concrete in an Undisturbed Mass

No Injury To Forms

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No Jarring of Concrete Already. Laid

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THE ONLY BUCKET THAT CONCENTRATES ITS LOAD WHEN PLACING CONCRETE IN FORMS MADE IN ANY SIZE OR SHAPE TO MEET DIFFERENT REQUIRE-MENTS

W. H. C. MUSSEN & CO.

Railway, Mining and Contractors' Supplies

MONTREAL

viewed the Premier of Ontario and reviewed the Fremier of Ontatio and requested that the Government build a
steel bridge over the Kaministiquia river.

—The Water, Light and Telephone
Board will ask the Council for \$22,000
for telephone extension, \$11,000 for
waterworks extension, and \$5,500 for improvements to the electric plant, the
work to be carried out next year.—The
Canadian Pacific Railway have decided
to build another large storage elevator to build another large storage elevator here.—John McLaurin has secured a site on Victoria ave. where he will build a large store.—Murrhead & Co. have purchased two lots on Hardisty street on which they will erect an office building. E. A. Morton is soliciting subscriptions for the building of a hockey and skating with

MONTREAL, QUE.-The City Clerk is this week taking tenders for the construction of a 2 x 3 brick sewer in Cote des Neiges road, from Pine ave. to south line of Cedar ave.—A special committee of the Board of Trade and the Canadian Underwriters Association have recom-mended that the Council take steps to mended that the Council take steps to install a high pressure water system, also that telegraph and telephone wires be placed underground.—The Evans property on Dorchester street has been acquired by Mr. Williamson for the Crichton School and the large residence thereon will be remodelled.—D. B. Martin & Co. of Baltimea and Palidelphia. tin & Co., of Baltimore and Philadelphia. have purchased the east end abattoir, Frontenac street, and will double its capacity next spring.—It is understood that Sir William Macdonald has decided to spend \$5,000,000 on the college of agriculture which he will establish at St. Anne's.-The Roads and Water Depart

ments are asking for \$2,500,000 for permente are asking for \$2,500,000 for permanent works next year. The Road Department estimates include \$50,000 for increasing the capacity of the Crais street seeinage pump; \$115,000 for Sherbrooke street storm sewer; \$600,000 for permanent pavements; \$100,000 for permanent sidewalks; \$150,000 for repairs to permanent pavements; \$30,000 for sewer for sewerage farm, and \$20,000 for other sewers. The Water Department ask \$30,000 for new hydrants; \$400,000 rolling pipes; \$75,000 for continuing 30-inch rising main to the reservoir; \$35,000 for commain from low level pumping station; \$150,000 for main pipes for projected streets;\$500,000 for construction of filtration system \$45,000 for 24-inch main in St. Anne's ward; \$40,000 for force main und Lachine canal; \$70,000 for extension high level service in North Ward \$30,000 for cementing bottom of McTavreservoir; \$25,000 for reconstrucisn reservoir; \$25,000 for reconstruc-tion of piers and superstructure of bridge at regulating gates; \$20,000 for recon-necting dead ends of pipes, and \$14,000 for re-connecting 24-inch main on Notre Dame street at Place Viper station.— The congregation of the Church of the Messiah have decided to build a new edifice on a more suitable site.—Building edifice on a more suitable site.—Building permits have been granted as follows: Laframboise & Guidmond, two 3 storey houses, City Hall avenue, cost \$6,000; H. G. Monks, two 2-storey houses, Ash dvenue, cost \$5,000; Lewis Bros. & Co., 6-storey warehouse, 8 to 14 Bluery street, cost \$100,000; F. V. Clistell, 1-storey house, 23 St. Etienne street, cost \$4,000; Duclos & Roch, two 2-storey houses, Cuvellier street, cost \$3,600; S. D. Val-

liere, Marquette street, three two-storey liere, Marquette street, three two-storey houses, cost \$4,500; Philippe Hebert, Berri st., three-storey wood and brick dwelling, cost \$1,800; S. D. Valliers, St. Hubert st., three two-storey wood and brick dwellings, cost \$1,500; Jos. Hare!, Frontenac st., three-storey wood and brick dwelling, cost \$2,500; L. A. Robillard, St. Hubert st., two-storey wood and brick dwelling, cost \$1,800.

brick dwelling, cost \$1,500.

TORONTO, ONT.—Plans for the construction of breakwaters and for dredging at Port Stanley and Rondeau, Ont., may be seen at the office of H. A. Gray, C.E., Confederation Life Building this city.—The congregation of the Kew Beach Presbyterian church are taking steps towards the erection of a new edifice on Queen street.—The Artisans' Dwelling Co. has been formed to erect about thirty dwellings on land recently Dwelling Co. has been formed to erect about thirty dwellings on land recently purchased by Prof. Goldwin Smith on Gerrard street, east of the Don.—The Metropolitan Electric Railway will be extended to Sutton next spring.—It is said that a large retail store will be built on the corner of Yonge and Dundonald treater.—The City Engage and Dundonald Cityste.—The City Engage and Street. streets.—The City Engineer has sub-mitted to the Board of Control new plans for the construction of a subway at Lans-downe ave. The estimated cost is for the construction of a subway at Lans-downe ave. The estimated cost is \$70,000 for a 32-foot roadway and two 6-foot sidewalks.—The Board of Control have approved of the City Engineer's re-commendation for the construction of a bridge to Turner's baths.—The Property Committee of the Board of Education have decided to postpone until next spring the enlargement of the Elizabeth street school.—Tenders for annual sup-plies will be received by the Chairman plies will be received by the Chairman of the Board of Control up to Tuesday,

MIXES CHEAPER

MIXES BETTER

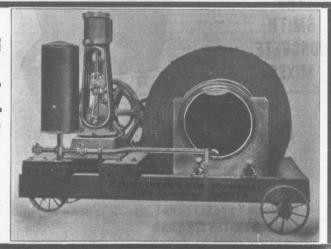
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CORRESPONDENCE INVITED FOR CONTROL OF BRANDS

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December 6. These include cement. sewer pipe, sewer brick brass and bronze castings, lead pipe, stop valves, special castings, hydrants, etc.—The City Councision Monday last gave the second reading to the by-liw to raise \$700,000 for fire protection purposes and \$300,000 for new exhibition buildings.—It is understood the City Engineer will next month stood the City Engineer will next month again recommend the establishment of a sewerage disposal plant for the eastern section of the city, to cost about \$54,000.

Building permits have been granted as follows: Flora McLean, pair two storey and attic dwellings, brick cased fronts, Wellesley street, cost \$3,200; Mrs. Grafton, pair two storey dwellings, brick fronts, w. s.de Tiverton ave., cost \$2,950; F. Terry, pair 2½ storey brick and stone dwellings, Bathurst street, near Ulster, cost \$5,000; H. B. Woodley, two storey and attic brick dwelling, 253 Avenue road, and stone to the cost \$5,000; H. B. Woodley, two storey and attic brick dwelling, 253 Avenue road, cost \$5,000; H. B. Woodley, two storey and attic brick dwelling, 253 Avenue road, cost \$3,500; J. Nightingale, pair one storey and mansard roughcast dwellings, Wright ave., cost \$2,100; L. C. Sheppard, three pair 2½ storey brick dwilings, Rathnally ave., cost \$12,000; John Drummer, pair 2½ storey stone and brick dwellings, corner Dovercourt road and Shanley street, cost \$4,500; Pilse & Elliott, pair 2½ storey stone and brick dwellliott, pair 2½ storey stone and brick dwellings, e. side Manning ave., cost \$3,600; Hcli & Davitt, pair two storey and attic stone and brick dwellings, Bathurst street, near Harbord, cost \$4,500; J. J. Mc-Kinney, pair two storey and attic brick and stone dwellings, Grace street, cost \$4,000; John Drummer, 2½ storey stone and brick dwelling, Dovercourtroad, near Shanley street, cost \$5,000; W. J. Hewitt, two storey rougheast dwelling, brick front, Langley ave., cost \$1,500; A. Elliott, two storey and attic stone and brick dwelling, corner Avenue road and Cotwelling, corner Avenue road and Cotwelling. liott, two storey and attic stone and brick dwelling, corner Avenue road and Cot-tingham street, cost \$3,500; Joseph Kent, pair two storey roughcast dwellings, brick front, Gore Vale ave., cost \$3,000.

CONTRACTS AWARDED.

THOROLD, ONT. — Joseph Battle, this place, is the successful tenderer for construction of substructure for bridge over Welland canal.

GODERICH, ONT .- C. C. Lee has ecured the contract for installation of

Webster steam heating system in Jackson Bros. clothing factory, Clinton.
WINNIPEG, MAN.—The contract for boilers for the C. P. R. hotel in this city has been awarded to the Babcock & Wilcox Co., of Montreal, at about \$9,000.

CALABOGIE, ONT. — The Council of Bagot and Biythfield have accepted the tender of Michel & Munro for con-

Speight & Van Nostrand LAND SURVEYORS, ETC.

Room 405 Temple Building, TORONTO, CAN. Field Notes of the late F. F. Passmore.

JOHN S. FIELDING

CONSULTING ENGINEER

Dams, Mills, Bridges, Machinery. Room 2, 15 Toronto Street, TORONTO, ONT. Telephone Main 3488.

J. A. I., WADDELL,
Mem. Can. Soc. C. E.
Mem. Inst. C. E.
Mem. Am. Soc. C. E.
Mem. Am. Soc. E. C.

Waddell & Hedrick Gonsulting Bridge Engineers KANSAS CITY, MO.

Canadian Head Office:
Manning Chambers, TORONTO, ONT. Montreal Office : 185 St. James Street.

struction of concrete piers for the south bridge, at \$6.75 per cubic yard.

OTTAWA, ONT. - Erection of new mnt in this city for the Dominion Government: Sullivan & Langdon, of Kingston, successful tenderers, \$262,000.—Ahearn & Soper, of this city, have been awarded the contract for electrical supplies for lighting the Welland canal, at about \$60

WATERLOO, ONT .- For purchase of \$20,000 town debentures tenders were received as follows: Dominion were received as follows: Dominion Securities Corporation, Limited. Toronto, \$22,207; H. O'Hara & Co., Toronto, \$19,852; Aemilius Jarvis & Co., Toronto, \$2,0,055; Brouse, Mitchell & Co., Toronto, \$19,650; Wm. C. Brent, Toronto, \$20,278 (accepted); Geo. A. Stimson & Co., Toronto, \$20,101.

TORONTO, ONT.-The Board of Control last week awarded the following contracts: Stone block pavement on Es-planade street, Scott to Berkeley streets, to Godson Construction Company, \$48,-290; asphalt pavement on Yorkville 290; asphalt pavement on Vorkvlie avenue, Yonge to Avenue road, to Constructing and Paving Company, \$9,675; macadam roadway on Wellesley streeet, Yonge to Church, to Civy Engineer, \$2,754.—Contracts for fitting no Domestic Science departments in Wellesley and Parkdale schools have been awarded as follows: Parkdale—Carpentering, Wm. Simpson, \$750; plumbing, Fred Armstrong, \$220; Wellesley—Carpentering, W. Simpson, \$750; plumbing, Louis Legrow, \$435.— The County Council have accepted the tender of O. L. Hicks for new abutments for Scalet bridge, at \$1,50c, also for filling in between abutments at \$260. — The steel work on the Musson bridge has been let to the Locomotive and Machine Co., of Montreal, at \$3,471.—J. Philip & Co. have been given the contract for fitting up rooms in the Court house, at \$1,457.—MacLaren & Co., of Glasgow, have been awarded the contract for sup-\$1,457 — MacLaren & Co., of Glasgow, have been awarded the contract for supplying 10-inch tubing for the pneumatic tube system in Toronto and Montreal. The quantity is 40,000 lineal feet and the price \$1.32 per foot. John Galt, C.E. & M.E., of this city, is the consulting engineer for the work, which will be compended next spring. be commenced next spring.

BUSINE -S NOTES.

J. Drury & Sons, builders, St. John, N.B., recently suffered a slight loss by fire. The assets of Brunet & Desjardins, brick manufacturers, Montreal, are to be sold.

Mrs. A.T. Riopel has registered as pro-prietress of the Artificial Marble Company, Montreal.

W. F. Lawrence, planing mill, etc., Maple Creek, N. W. T., is reported to be asking for an extension of time.

asking for an extension of time.

Armstrong & Sutherland, the well-known building contractors of Sydney and Glace Bay, N.S., have failed, with liabilities of about \$15,000, while their assets are merely nominal. The Bank of Montreal is said to be the heaviest credittor.

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RLACK BRICKS.

The new Hotel Astor and several other new buildings in New York are made of black and red bricks artistically grouped. This has become a popular notion in architecture, and it is interesting to recall that such use of different colored bricks was the result of an accident.

When the Dutch were settling Manhattan only the wealthy could afford brick houses, because at first all the bricks had to be brought over from Holland. Finally, two enterprising colonists built a brick kiln. In their inexperience, however, they burned most of their bricks black and nearly became bankrupt in consequence.

Jacob Stundam, the first Dutch poet of New Amsterdam, saved them. bought a quantity of the blackened bricks and used them with some bricks from Holland to build his house on a spot just in the rear of the present telephone building in Stone street. He designed his wall so artistically with the aid of these bricks that the colonists were amazed and delighted, and from that day on the use of vari-colored bricks has been popular at intervals in New York house constructing.

TESTING PORTLAND CEMENT.

Mr. Thos. Winstanley, of Formby, writes to the Brickbuilder on the above subject as follows :-

The amount of tree lime in Portland cement has hitherto been an uncertain quantity, for no means have been available that would show with a solute certainty whether a cement was over limed or not. The tests at present in use give results more or less correct, approximately, but the process is a somewhat lengthy one, and what is required is a test that will show if a given cement contains an excess of free lime. Such a test should be completed in a few hours-that is, the cement should attain its final hardness and strength in a few hours. From a long series of experiments made by him, the writer has come to the conclusion that by the use of a hardening chamber, such as is used for hardening lime-sand bricks, any cement can be tested for the presence of free lime in excess. In these experiments some cements were used that were known to contain a large quantity of lime, such as is usually found in cements capable of giving a quick set, and in every test the test briquette expanded and disintegrated during the process-in fact, several of them expanded 50 per cent. On the other hand, in the tests with slowsetting cements, in which the lime was not in excess of what it should admittedly be, the test briquettes did not alter in shape, and the tensile strength in ten hours was the same as after one month's natural hardening under water. Some cements, which were tested fresh from the factory, disintegrated slightly, but these same cements, after being hydrated, stood the test all right, and the hardening was complete in ten hours. The reason why this test can be relied on is due to the fact that it attacks every particle of free lime with moisture under pressure, thus slacking it and causing it to swell and disintegrate the mass where it is present in excess. At the same time it brings

about a result that would take a long time under atmospheric conditions and pressure. In the case of cements not having free lime in excess, the hardening takes place quickly in the same way as moist heat hardens lime-sand bricks, and without disintegration. It thus appears from these experiments that if a cement will stand the "hardening chamber test' it is highly suitable for the best uses for which it is required, but it will be found that such a cement will be of the slow-setting class whose strength increases with age. and which does not show a high tensile strength in a few days, and then lose it in time instead of increasing it.

PAINTS FOR OUTSIDE OF DWELL-ING HOUSES.

A writer in one of our exchanges, discussing the best paint for the exterior of dwelling bouses, suggests that if the house has not been painted before a first coat or priming of pure white lead be used, either plain or tinted, to suit the taste, and with pure raw linseed oil for a thinner, and not over 5 per cent. turpen-

tine dryer added. This is to be rubbed well into the wood and allowed to stand at least three days before the second coat is applied. For new work it is best to have three coats, and for the third and last coat a mixture of four parts white lead, by weight, to one part of zinc white, colored to suit the fancy, and thinned again with pure raw linseed oil and not over 5% Japan drier. Should it be decided to use prepared paint, let the first or priming paint be pure lead and have the prepared paint used as second and third coats, following directions on label.

If the house has been painted before, see that the surface is thoroughly dusted and every loose particle of old paint removed; touch up where needed and have the surface repainted with either two coats of pure lead tinted with color, or have two coats of prepared paint applied.

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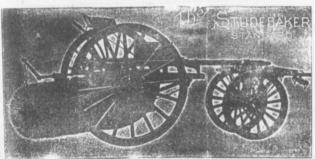
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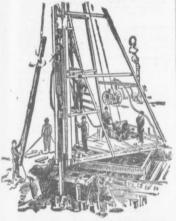
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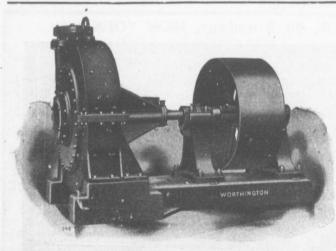
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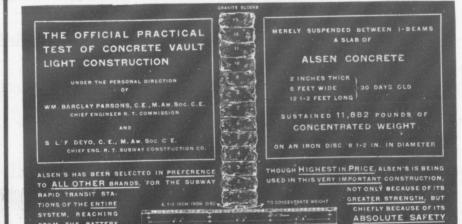
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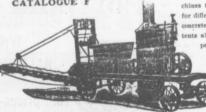
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MUNICIPA DEPARTMENT

OIL ROADS FOR BOMBAY, INDIA.

The standing committee of the Bombay Corporation, after experimenting with oil and tar to keep down the dust on some of its principal thoroughfares, have appropriated 11,000 rupees (\$5,038) to carry out further tests.

A WATERPROOF CEMENT.

Richard Liebold, of Weimar, Germany, has patented a process for the manufacture of an impermeable waterproof cement which consists in adding to the unground cement clinker a mixture of wax and caustic lime dissolved in boiling water, and then grinding the three materials together.

The inventor claims that a one-half inch coating laid onto a masonry wall will make the same perfectly waterproof.

The exact formula used in producing this cement is as follows :-

To each too kilograms of cement clink er add a mixture of 300 grams of Japan vegetable or berry wax and 20 grams of caustic lime dissolved in 8 litres of boiling water and thoroughly mixed with the same. After this mixture is cooled down, the same is dried and finely ground with the cement clinker.

Seaforth, Ont., wants to own the electric lighting plant, and has entered into negotiations for its purchase from Scott Bros., the present owners.

The water mains in Goderich, Ont., are being extended to different parts of the town that are at present poorly supplied. New foundations are to be put under the engines at the pump house.

The town of Wingham, Ont., has just completed its first year of ownership of the electric lighting plant. The revenue for the year amounted to about \$5,500 and expenses \$3,500. The ratepayers are very well satisfied with this showing.

H. B. R. Cray, B. S., C. E., has been · appointed city engineer of Kingston, Ont., at an initial salary of \$1,200 per annum. He received his training at the Royal Military College and Queen's University, graduating from the School of Mining last spring.

City Engineer Graydon, of London, Ont., has prepared a statement showing that during the past season there were two and a half miles of main sewers laid in that city at a cost of \$15,000, and about four miles of side drains, at a cost of about \$7,000-the main sewers averaging about a dollar per foot, and the side drains 30 cents per foot.

The next biennial convention of the Brotherhood of Maintenance of Way Employees will be held in Toronto. The officers of the Association are: John T. Wilson, of St. Louis, grand president; A. B. Low, of Kingston, Ont., first vice-president; W.S. Powell, of Greensboro, N.C., second vice-president; C. Boyle, Merrickville, Ont., grand secretary.

During the present year tour miles of granolithic sidewalks have been laid in Portage la Prairie, Man., at an outlay of about \$15,000. The town has secured powers to borrow \$50,000 for this purpose and the work will go on next year. This amount is not added to the debenture debt, as it is paid by those whose property is fronted by the walk and who petition for same.

The experiment of Street Commissioner Jones, of Toronto, of sweeping the asphalted streets dry and retaining the dust in a hood over the broom has not been a success. The dust was confined to some extent, but not sufficiently to make the

method of cleaning desirable. On Satday last he made another experiment, sprinkling the pavement with salt water, in the expectation that it would not freeze, and that after the sweeper had passed it would evaporate so quickly that there would be no objection to its use. Very slight sprinkling will be sufficient to lay most of the dust. The Commissioner used an ordinary water cart, throwing the finest possible spray, and hung a bag of salt from the roof of the tub.

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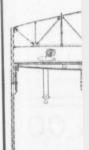
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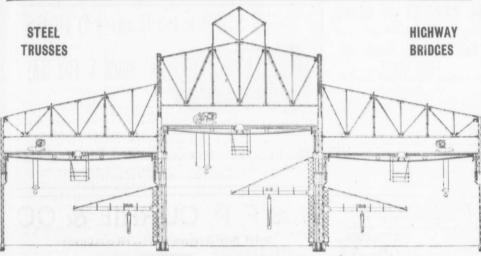
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Grante curbing stone, 6x		-	Complete (m. s.			
in in per lineal foot		70	Canadian (Packages, 350	Torento.	Moz	atreal
Buctouche Olive Freestone	85	65	lbs, net.) :			
Olive Sandstone (Indian-	4		Bashbarri Bris			
town, N. B)	80	70	Rathbun's Star	170 200		2 30
Brown Sandstone (Sack-		-	Trowel		1 85	1 95
ville, N. B	80	70	Samson	1 75 1 85		
Most red sandstone, per cu. ft		60	Monarch	1 55 1 05		
Black Pasture buff stone					1 80	1 90
per cu. ft.		50	Imperial Crescent 375 lbs.gross	175		
Nova Scotia blue grey, per cu.	ft.	65	Crescent 375 lbs.gross	230 240	1 95	2 05
Coursers, 6 to 8 in. f. o. b. S	st.		Diamond 350 "Giant" Brantford	2 20 2 30	1 85	185
Mary's, per cord		7 00	"Giant" Brantford	1 75 2 00	2 00	2 50
Footing, 6 to 10 in. per cubic	ft.	15				
Dimension Stone, f. o. b.	St.	35	American (in Bags) :			
Mary's, per cubic foot Granite (Laurentian Pink) As	h.	35	remerican (in bags) :			
lar,6 to 2 in., rise 9 in., per c		25	"Helderberg"		S.F.E.	
Dimension Stock Granite, (La	ur-		Alsen		1 80	1 95
entian Pink) for building poses, per c. ft., f.o.b. quarri	ur-		Lehigh, in hhls. ave the	2 35		2 35
poses,per c. ft., f.o.b. quarri	es	40	' cotton sacks, 150 net	2 00	2 10	2.00
Do., for polishing purposes, t	up		cotton sacks, 350 net			1.84
to 2 tons weight, per cubic fo	ot	70	"Iron Clad" in bags 350 lb "Invicta" "Adirondack" "	8.	1 8o	1 90
	F.O.	B. Halitax	"Invicta" " " "		1 65	1 70
Dimension stock granite f	or		"Adirondack" " " "		1 50	1 65
building purposes, per cu.	ft.	50				
Do., for polishing purposes,	up		Vulcanite (The Toronto P		*1.	14.28
to a tons weight, per cubic	IL.	1 00 60 00	Toronto) go lbs, per bbl.	ottery Co.	, Lin	nited
Paving sets, per thousand blo	CK	00 00	In paper bags	1 8n		
CREDIT VALLEY	STORE.		' wooden bels	2 00		
	F.0.B	. Quarries.	" cotton bags	2 10		
Rubble, per ton		65				
Brown Coursing, up to 10 p	er		English (in Barrels) :			
sup, ward	**	85	renguan (in particis):			
Brown dimension, per cub.		70	Bearly Charletter to have			
Grey coursi g, per sup, yard		1 25	Brook's Shoobridge Anchor	35 2 40	2 00	2 10
Grey dimension, per cub. ft.	**	. 50				
ROMAN STONE. F.	O. B. Fa	ctory.	Belgian (in Barrels) :			
Sills, tooled scated and throate	ed		U.S. E. S.			
35c. per lineal foot			" Josson' 2	60 9 70	2 20	* **
Hollow Block, 12-inch wall, p	er		"North's Condor 2	05 2 10	9.25	7 10
superficial foot		40	"White Cross" I	90 2 00	1 75	1 80
Window Heads and Ashlar, p		- 40	"North's Condor 2 "White Cross" 1 Hammer 2 White Star		180	I 90
superficial foot, 4-inch bed String Courses, Molded as		40	White Star	2 15 2 25	1 90	2 00
Ornamental, per lineal for	ot					
		2 00	German (in Barrels):			
Chimney Caps, \$2 to		5 00	41			
- SLATE. Toronto. Montreal.			Alsen	2 65 2 95		2 /0
	Tolonto.	Monties!	Dyckerhoff	2 05 2 75		2 40
Rorfing (# square).	140		ALCO CARGO	2 25 2 35		3.13
red	30 0	80 00	Venne's Consuling ((Whites! .			
red unfaing green	10 0	10 00	Keene's Superfine "Whites"	6 50 7 60	8 50	9 00
and a tog green	0.0	11 00				
Tena Cotta 11, per sq	13 10	9 00	Plaster Calcined N.B	28 00 33 00	10 00	21 00
Tena Cotta 11, per sq Orramental Black Sinte Roofing		77 30	Plaster Calcined N.B	1 70	120	1 60
		11.0-				835

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