

CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF PUBLIC WORKS, TENDERS, ADVANCE INFORMATION AND MUNICIPAL PROGRESS

EVERY WEDNESDAY

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. 13.

FEBRUARY 26, 1902

No. 4

THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY WEDNESDAY

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

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

C. H. MORTIMER PUBLISHING COMPANY
of Toronto, Limited,

CONFEDERATION LIFE BUILDING, TORONTO
Telephone 2362.

Branch Office:
Imperial Building, Montreal,
Telephone Main 1290.

Advertising Rates on application.

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TENDERS WANTED.

Sealed tenders addressed to either of the undersigned (with whom plans and specifications can be seen) will be received until noon on MARCH 17, 1902, for the erection of two Steel Bridges, to be built over the River Thames. One near the Muncey Station, M.C.R., between townships of Caradoc and Delaware, consisting of two spans each 125 feet C to C, and two spans each 60 feet C to C, 16 foot roadway; the other about 5 1/2 miles south of Glenora, C. T. R., consisting of one span 240 feet C to C. This bridge is to be designed for a solid concrete roadway 16 feet wide. At the same time tenders will be received for Concrete Substructures for the above bridges.

CHAS. TALBOT, Bridge Commissioner, County Building, London, Ont.
JAS. A. BELL, County Engineer, City Hall, St. Thomas, Ont.

TO STEEL BRIDGE BUILDERS

—AND—

MASONRY CONTRACTORS.

Sealed tenders endorsed "Tenders for Superstructure," will be received by P. W. Harmer, Esq., Clerk, Nepean Township, Westboro, Ont., until 4 o'clock, p. m. 13TH MARCH, 1902, for the construction and erection, ready for traffic, of Three Riveted Lattice Steel Spans, to replace the bridges over the river lock, known as Mouth of Jock, Chapman's and Fladley's Bridges. Average haul from nearest R. R. station, 7 miles; extreme distance between bridges, 7 miles. Each tenderer must furnish complete plans, strain sheets, specifications, etc., or their tenders will not be considered. Each span must be proportioned to carry (in addition to its own weight), a moving load of 1250 lbs. per lineal foot, and also to carry with absolute safety a concentrated load of 10 tons on two axles, 8 foot centres. Tenders for each span must be accompanied by an accepted cheque for \$50, and tender for 3 spans by an accepted cheque for \$50, in favor of P. W. Harmer, Treasurer, Nepean Township. For further particulars re superstructure, apply to undersigned (address, 124 Sparks St., Ottawa, Ont.) Plans, specifications, etc., etc., for the masonry, etc., to carry the above superstructures may be seen at township clerk's office, Westboro, Ont., 2 1/2 miles west of Ottawa, (on Ottawa Electric R. R.), and tenders for same will be received until 4 o'clock, p. m., 13th March, 1902.

J. B. LEWIS,
Engineer in charge.

'SEALED TENDERS

Addressed to the undersigned, will be received up to noon of MONDAY, MARCH THIR 3RD, for all trades required in making additions and alterations to premises No. 58, 60, 62 and 64 Wellington Street West. Plans and specifications may be seen at the offices of the undersigned. The lowest or any tender not necessarily accepted.

GOUINLOCK & BAKER, Architects,
714 Temple Building, Toronto.

TENDERS WANTED

Tenders will be received at the clerk's office, Seaford, until APRIL 2ND, NEXT, for the construction of certain drains within the Municipality. Plans and Specifications to be seen at the clerk's office.

The lowest or any tender not necessarily accepted.

WM. ELLIOTT,
Clerk.

Dated Feb. 22nd. 902.

TENDERS

For the erection of an Addition to the Dental College Building, Toronto, will be received until SATURDAY, 8TH MARCH, 1902, addressed to the undersigned and endorsed "Tenders for Dental College."

Plans and specifications may be seen at the office of the Architect, David B. Dick, 17 Toronto Street, Toronto.

The lowest or any tender will not necessarily be accepted.

J. B. WILLMOTT,
Secretary R.C.D.S.,
96 College Street, Toronto.

CONTRACT OPEN.

EDMONTON, N.W.T.—The Edmonton Clothing Co. will enlarge their premises.

WOODSTOCK, N. B.—The movement to erect a hospital has made some progress.

PORT ELGIN, ONT.—A by-law to grant a bonus of \$10,000 will be voted on March 7th.

BERLIN, ONT.—Several large donations have been made towards a new Y. M.C.A. building.

BATH, N. B.—The farmers of this vicinity purpose building a telephone line for local use.

AYLMER, QUE.—The town council will advertise for tenders for lighting the city by electricity.

WALKERTON, ONT.—Over \$13,000 has been subscribed for erection of county hospital.

LEVIS, QUE.—The municipality has decided to call for new tenders for construction of waterworks system.

NIAGARA FALLS SOUTH, ONT.—It is expected that a new Catholic church will be built here.

TAMWORTH, ONT.—W. A. Rose and L. P. Wells have decided to build a block to contain three large stores.

QUEENSTON, ONT.—At a public meeting held recently it was decided to build a hall to perpetuate the memory of Laura Secord.

CARDSTON, N. W. T.—C. O. Card purposes starting a new flour mill here in which he will install an electric light plant.

CLOVER BAR, N. W. T.—I. S. Doze invites offers up to March 20th for purchase of \$2,000 corporation debentures.

GLENWOOD, N. S.—Oliver Pitman is asking for tenders up to March 14 for repairing the Goose Bay dyke at this place.

HAMILTON, ONT.—The engineer at the beach pumping station has recommended that the pumping machinery be duplicated.

DUNBLANE, ONT.—John Richardson, of this place, is asking for tenders up to March 10th for erection of brick school house.

NEW DUNDEE, ONT.—New residences will be built this year by Philip Roth, Henry Gravel, Gideon Bock and John McDonald.

OUTREMONT, QUE.—The proposed new school will be built at the corner of St. Catharine road and Page-neulo avenue.

SHERBROOKE, QUE.—Reports are current of the building by Mr. Higgins of a modern hotel on the site of the Sherbourne House.

HALIFAX, N. S.—Tenders are asked up to March 8th for alterations and additions to brick shed at North street for the Intercolonial Railway.

MINNEDOSA, MAN.—The Northern Elevator Co. will improve their facilities for handling grain.—John Wake purposes building an elevator this summer.

SMITH'S FALLS, ONT.—G. T. Martin, architect, has prepared plans for a Masonic arcade building to be built by George Dart; estimated cost \$10,000.

NIAGARA FALLS, ONT.—The by-law to provide \$2,500 to purchase a site for the McPherson Frog & Switch Co.'s building was carried here on Monday last.

SHELburne, N. S.—Tenders are asked by E. M. Bill up to April 2nd for erection of court-house and jail in this village. Plans by S. H. Tremaine architect, Halifax.

HULL, QUE.—Mr. Brodeur, architect, is calling for tenders for erection of presbytery in connection with the Church of St. Cecile de Masham, to be of brick, cost about \$7,000.

TORONTO JUNCTION, ONT.—An official of the Dominion Public Works Department has been looking over the available sites for proposed post-office and custom-house.

MIDLAND, ONT.—It is understood that plans are under consideration for the building of a new Presbyterian church.—Dr. W. H. Mosley has in view the erection of a new residence this spring.

HINTONBURG, ONT.—Mr. Lewis, C. E., has reported to Nepean township council that the cost of a bridge at Lemay's creek will be \$4,000. Plans for the bridges on the Jock river are before the council.

STURGEON FALLS, ONT.—A deputation from this vicinity have asked the Ontario Government for a bonus of \$3,000 per mile for a railway to be built from Sturgeon Falls to Lake Temagami, a distance of 30 miles.

FREDERICTON, N.B.—F. W. Emerson, of Sackville, B. F. Pearson, of Halifax, and others are seeking incorporation as the Bay of Fundy Oil Co., with a capital of \$500,000, to bore for oil and gas in New Brunswick.

ST. CATHARINES, ONT.—It is possible that the Canada Wheel Works, of Merriton, will be removed to this place.—It is rumored that T. L. Wilson, of the Wilson Carbide Works, will build two more furnaces in his factory.

MASHAM, QUE.—The contract has not yet been finally awarded for the new convent to be built this spring, which will be brick and will cost about \$25,000.—Rev. Father Garon will build a new presbytery on the old cemetery grounds.

COWANSVILLE, QUE.—Among the structures to be built this year are a large freight house by the C. P. R., warehouse by W. Vilas, cold storage and cheese curing building by the Dominion Government, hotel by E. C. Lavery, and steel oil tank by the Imperial Oil Co.

LONDON, ONT.—Moore & Henry, architects, have invited tenders for a wholesale building to be built for W. J. Thompson.—Herbert Matthews, architect, is preparing plans for a six-storey building for D. S. Perrin & Co., confectioners, this city, also for an English church to be erected in Melbourne.

GLACE BAY, N.S.—The town council has prepared a bill for submission to the Legislature to empower the town to borrow \$150,000 for a waterworks system. C. M. Odell, C. E., has been appointed consulting engineer for the construction of the proposed system.

SAULT STE. MARIE, ONT.—W. R. Graham is preparing plans for a double dwelling to be built by F. H. Scarfe and a residence on Albert street for John Jenkins.—S. W. Fawcett will erect a stone building on Queen street, and W. Hallam and M. McKechnie will erect stores.

ST. JOHN, N.B.—The sum of \$35,000 has been subscribed towards proposed Y. M.C.A. building.—The city council has decided to urge upon the Dominion Government the granting of liberal assistance towards the construction by the Imperial Dry Dock Co. of a dry dock in St. John harbor, to be not less than 620 feet in length.

GODERICH, ONT.—The Huron, Bruce and Middlesex Railway bill is now before the Ontario House.—The Huron County Packing and Cold Storage Co. have accepted the plans of W. R. Belden for the erection of various buildings, including a pork factory and a poultry finishing station. The buildings will cost about \$75,000.

QUEBEC, QUE.—The Sorel Electric Co. is seeking incorporation to build an electric railway through the counties of Vercheres, Richelieu and Yamaska.—W. H. Robert, of Beauharnois, E. B. Greenshields, C. J. Fleet and C. B. Featherstonhaugh, of Montreal, are seeking incorporation to develop light and power at Beauharnois.

NORTH TORONTO, ONT.—J. S. Roberson, secretary of the National Sanitarium Association, addressed the Board of Health on Saturday last in regard to the proposed hospital in this

town. The association wishes to build a hospital for consumptives, to cost about \$10,000. There is considerable opposition to the movement.—It is announced that a \$40,000 house is to be erected in Glen Grove Park by a member of a large Toronto firm of furriers.

BRANTFORD, ONT.—James Ward, Jr., invites tenders up to March 5th for erection of new school in S. S. No. 7, Brant.—Negotiations have been concluded between the city council and the Grand Trunk Railway Co. whereby improved transportation facilities will be provided for this city. The G. T. R. will construct a new line from Lynden to Brantford, a switch into the Holmedale district, and build a subway bridge under the Buffalo and Goderich line.

SYDNEY, N.S.—The members of St. George's church have decided to build a new three storey parish house.—The Dominion Coal Co. have decided to build an electric railway from Sydney to Glace Bay, a distance of 15 miles.—W. Falconer will erect a three-storey brick building, 40 x 100 feet, on Charlotte street.—A. D. Ingraham will build a similar structure adjoining.—McDonald & Hanrahan will erect a three storey brick structure on the site of their present store.

VANCOUVER, B. C.—It is reported that Johnson Bros., millers, of Asotin, Eastern Washington, are arranging to establish flour mills here.—Parr & Fee, architects, have prepared plans for a new building, 25x80 feet, to be built adjoining the post office for the Canadian General Electric Co. It is stated that Edwards Bros., photographers, will build on the same street.—Hydraulic engineers are making plans for the proposed water power development at Coquitlam Lake.

WINDSOR, ONT.—A movement is on foot to form a joint stock company to build a Masonic temple in this city.—Alderman Bedford will move in council that a committee be appointed to consider the question of building a new city hall.—J. L. Wilson & Son, architects, Chatham, are preparing plans for new manse in Thamesville for St. James Presbyterian church.—J. A. Carswell, architect, this city, has been instructed to submit plans for parochial residence to be built adjoining St. Alphonsus church on Park street; estimated cost \$7,000.

WINNIPEG, MAN.—D. McNicoll, manager of the Canadian Pacific Railway, is expected here this week to confer with the city authorities regarding the proposed subway and station.—J. Greenfield, architect, is building a residence for Dr. J. M. Hutchinson.—S. Hooper, architect, this city, has invited tenders for addition to college at St. Boniface, Man., brick on stone foundation, four stories, with all modern improvements, also for a new brick and stone residence corner York and Edmondton streets, this city, for M. McManus.—James H. Cadham is asking for tenders up to March 1st for erection of church, corner Portage avenue and Spence street.

MONTREAL, QUE.—Hutchinson & Wood, architects, have called for tenders for the new Point St. Charles Railway Y. M. C. A. building. It will consist of basement and two storeys, and will cost about \$24,000.—The congregation of St. Mary's parish have decided to rebuild the church burned last week.—The city surveyor has reported that 9,390 toise of stone will be required this year for repairing the streets of the city.—The Fire and Light Committee have decided that two new fire stations are required, one on Craig street and the other on Youville square.—A deputation from St. Henri and St. Cunegonde will interview the Minister of Railways and Canals this week regard-

ing the building of a bridge across the canal at Aqueduct street. The cost will be in the neighborhood of \$75,000.—It is understood that the officials of the water department will strongly urge the installation of an electric pump at the high level reservoir.—It is announced that the Canadian Pacific Railway have definitely purchased 380 acres of land in the east end on which it is proposed to build new shops, and it is understood that work will begin early this spring.—Tenders close Thursday, March 6th, for supplying the city with 5,000 feet double jacket fire hose, 100 salvage covers, 4 trussed extension ladders, 300 feet of trussed wall ladders, 4 ladder water tower attachments, and 12 three-gallon hand extinguishers.

OTTAWA, ONT.—The Rideau Lakes Navigation Co., of which Capt. Noonan is manager, will build a new boat this year, at cost of \$35,000.—F. Gelinas, secretary Department of Public Works, invites tenders up to March 14th for construction of extensive breakwater at Pointe St. Pierre, Gaspé county, Quebec. Plans at above department and at office of P. Beland, clerk of works, post office, Quebec; and office of resident engineer, Merchants Bank Building, Montreal. Cheque for \$3,000 to accompany each tender.—The Ontario Government has been asked to grant a bonus of \$3,000 per mile for a 45-mile railway to be built between Morrisburg and Ottawa.—Arrangements are under way for the establishment of a one-mile race track on the Moore estate on the Aylmer road. The proposition is to organize the Ottawa Valley Hockey Club, with a capital of \$75,000. The Moore homestead would be used as a club house, and in addition the building of track, stables and grand stand would be undertaken. Fred C. Chittick is one of the promoters.—The details of the proposed expenditure of \$20,000,000 by the C. P. R. are as follows: 300 additional locomotives, \$3,800,000; 5,000 freight cars, \$3,500,000; 100 passenger cars, \$600,000; 40 sleeping, dining and parlor cars, \$520,000; new workshops, \$1,500,000; reduction of grades and improvement of alignment in North Bay and Carleton junctions, \$500,000; ditto between Winnipeg and the mountains, \$3,000,000; second track between Winnipeg and Fort William, \$2,500,000; improvement in grades and alignment of Short Line between Montreal and St. John, \$900,000; additional elevators, terminals, sidings, etc., \$3,000,000.

TORONTO, ONT.—The application of the Schomberg Aurora Railway Co. for approval of the plans for crossing the Grand Trunk Railway at a point north of King station is now before the Dominion Parliament.—The proposed enlargement of Huron street school will cost \$12,500.—F. H. Herbert, architect, is taking tenders up to 5 p.m. to day (Wednesday) for erection of residences, stable and driving shed on McCaul street for John Patterson.—C. F. Wagner, architect, 18 Toronto street, wants tenders for filling in and levelling two lots on Queen street east, Bimby Beach.—The Menzie Manufacturing Co. will immediately commence to rebuild the portions of their factory destroyed by fire last week.—Tenders are invited by the city up to noon of Tuesday, March 4th, for the following works: Asphalt pavement on Markham street, from 759 feet south of College street to Arthur, and on Cottingham street, from Avenue road to Rathnally avenue; cedar block pavement on Bulwer and Soho streets; brick pavement on portions of Pearl street, Waterloo avenue, and Carleton street; macadam roadway on Bredalbane street and portion of Dovercourt road; stone curbing on York street, from Queen to King

streets; concrete pavement on lane south of King street, from Church to west end; also for the construction of a large number of concrete sidewalks in different parts of the city.—The Mackey Stained Glass Co. have purchased the property at 34 and 36 Richmond street east, where they propose erecting a factory.—The Board of Control is about to advertise for tenders for fittings for the new St. Lawrence market.—The city engineer has prepared an estimate showing in detail the cost of disposing of the sewage of the city by two plants, one for the district west of Spadina avenue and the other for the district east of that street. The cost will be nearly \$2,000,000, but for the system west of Spadina avenue, which it is first proposed to install, the cost would be only \$527,000.—At a meeting of delegates from different Women Societies of the city, held last week, the proposal to erect a woman's building was abandoned owing to the cost, and it is probable that the original intention of building a memorial hall will be adhered to.—It is expected that tenders will be invited immediately for the new science building of Toronto University.—Charles A. McArthur, 418 Wellesley street, is asking for tenders up to Friday, 28th inst, for the painter's work required in cleaning and decorating St. Giles' Presbyterian church, Oak street.—Plans have been completed for the new St. Michael's College to be built on St. Joseph street, and work will be commenced early in the spring.—Tenders are asked by J. B. Wilmott, 96 College street, up to Saturday, March 8th, for erection of addition to the Dental College building. Plans at office of D. B. Dick, architect, 17 Toronto street.—Building permits have been granted as follows: John Robson, two story and attic, brick and stone dwelling, west side of Beatrice street, near Grace street, cost \$2,500; H. Smith, two-storey and attic, semi-detached brick dwelling, east side Albany avenue, near Barton avenue, cost \$6,000; R. Davies, alterations to St. Charles Hotel, Yonge street, cost \$2,000; Thomas Cruttenden, three-storey brick and stone store, south-east corner Sherbourne and Howard street, cost \$4,000; Thomas Wilkins, three attached residences, Maitland Place, cost \$7,000; S. Henderson, brick dwelling, 185 Jameson avenue, cost \$4,500.—S. Crane, brick dwelling, corner Duke and Sherbourne streets, cost \$1,800; C. W. Chadwick, brick dwelling, Delaware avenue, cost \$3,000; Alex. Manning, alterations to warehouse for cold storage purposes, 73-79 Colborne street, cost \$6,000.

FIRES.

Car shops of Rhodes, Curry & Co., Amherst, N. S., partially destroyed.—Window shade and art goods factory of the Menzie Mfg. Co., 41 Pacific avenue, Toronto, totally destroyed, also the finishing building of the Merchants' Dyeing & Finishing Co. The loss of the respective firms is \$96,000 and \$75,000.—Flour and feed store of J. A. McCargar, liquor store of George Sibbett, and general store of the Brown estate at Bracebridge, Ont., total loss about \$10,000.—Spoke factory of E. H. Phelps & Co. at Merriton, Ont.; loss \$40,000.—Surgical instrument warehouse of J. W. Stevens & Son, 145 Wellington street west, Toronto, damaged to extent of \$1,500.

CONTRACTS AWARDED.

PENETANGUISHENE, ONT.—\$33,000 debentures have been sold to O'Hara & Co., Toronto, at \$33,114.17.

LONDON, ONT.—Alterations to store: Architect, H. C. McBride; carpenter and joiner's work, R. G. Wilson; brick work, Everett & Sing.

NIAGARA FALLS, ONT.—A. Anderson, of Toronto, The Bell Telephone Co., and the Home Telephone Co. have submitted to the council offers for installation of fire alarm systems.

ST. MARYS, ONT.—Concrete and steel bridge over Reynold's creek, between Dorchester and Dereham: Concrete work, John Elliott, this place; superstructure, Stratford Budge Co. The bridge will cost \$1,175.

HAMILTON, ONT.—The following tenders were opened by the Board of Works last week for annual supply of cement: T. Ramsay, \$1.85 a barrel, Alpine brand; John Lucas, Owen Sound, \$1.69, Sampson brand; Rathbun Company, \$1.73, Star brand; M. McNally Company, Montreal, \$1.95, barrel of 385 pounds; John Mann & Son, London, \$1.75, Sailor brand; Cayuga Lake Portland Cement Co., \$1.60; F. B. Holmes & Company, Detroit, \$1.73, Alpha brand; F. A. Carpenter & Com-

pany, \$1.68, Vulcanite brand; Bellhouse, Dillon & Company, Northampton, Pa., \$1.63; Thome Cement Company, \$1.69; Grey & Bruce Portland Cement Company, \$1.90; W. A. Freeman & Company, \$1.75, Nazareth brand. The tender of the Cayuga Lake Cement Co. has been recommended for acceptance. Other tenders accepted were: Lumber, McAllister & Thompson, \$17.32 per thousand feet; spikes, Wood, Vallance & Co., \$2.42 per hundred pounds. The only tender for sewer pipe was from the Hamilton & Toronto Sewer Pipe Co.

TORONTO, ONT.—Contracts for the Arts Building on the Toronto Exhibition grounds have been accepted as follows: Carpentering, A. B. Coleman, \$2,950; plastering, J. M. Gander, \$1,443; roofing, Douglas Bros., \$1,625; painting and glazing, Faircloth & Co., \$210; moulding, Jos. McCausland & Son, \$241; electric wiring, Jones, Moore & Co., \$70; plumbing, Keith & Fitzsimmons, \$55.75. The tenders so far accepted for the Manufacturers Building are as follows: Steel and iron work, \$24,980; plastering, \$2,352; tinsmithing, \$13,720; painting, \$1,930; roofing, \$1,095; plumbing, \$2,050; electric wiring, \$500. The lowest tender for masonry is \$34,477, and for carpentering \$17,850, but these trades have not yet been let.

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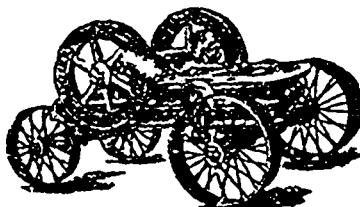
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DOMINION GOVERNMENT ESTIMATES.

The estimates of the Dominion Government for the fiscal year ending June 30th, 1903, submitted to the House last week, contain the following appropriations:

RAILWAYS.

Intercolonial Railway—Steel rails and fastenings, \$600,000; to increase accommodation at Sydney, \$77,000; original construction, \$2,000; to strengthen bridges, \$175,000; to increase accommodation at Levis, \$22,000; additional siding along line, \$50,000; new machinery for locomotive and car shops, \$10,000; to equip ten passenger cars with Pintsch gas apparatus, \$8,000; new superstructure for six spans Miramichi bridge, \$51,000; rolling stock, \$500,000; sea walls, \$5,000; increased accommodation at Stellarton, \$15,000; new superstructure for Restigouche bridge, \$102,000; new superstructure for north-west Miramichi bridge, \$123,000; towards double tracking between Windsor Junction and Halifax, \$30,000; improvements at Point Tupper, \$30,000; to provide yard for freight business at Riviere du Loup, \$25,000; to change air brakes of locomotive to quick-action brakes and apply air signals, \$5,000; to provide addition to erecting shop at Moncton, \$15,000; to extend freight car repair shop at Moncton, \$25,000; to provide engine house, machine shop, car shop, stores, office, etc., at Riviere du Loup, \$50,000.

Prince Edward Island Railway—To provide a new station at Georgetown, \$6,200; to widen wharf at Summerside, \$1,500; to straighten line near North Wiltshire, \$1,000; to straighten line near Blue Shank, \$1,000; Murray Harbour Branch and Hillsboro' bridge, \$500,000.

CANALS.

Sault St. Marie canal, to deepen and widen entrances, \$50,000; Trent canal, construction (re-vote) \$300,000; \$300,000; Soulanges canal, construction and equipment, \$100,000; Welland canal, improvements at Port Colborne entrance, \$300,000, to deepen portions of long level, \$10,000, to lower mitresills of entrance lock at Port Colborne, \$5,000, to deepen canal from Port Colborne to Humberstone, \$18,000; Lake St. Louis, marking channel, \$500; Lachine canal, building slope walls,

dredging, pontoon gate, power house and enlargement, \$45,000; installation of electric light, \$5,000; La. St. Francis, removing shoals, etc., \$5,000; Cornwall canal, enlargement, \$90,000; Farran's Point canal, enlargement, \$10,000; Rapide Plat canal, enlargement, \$57,600; Galop's canal, enlargement, \$293,600; North Channel, forming dam, etc., \$56,250; St. Lawrence river and canals, surveying, buoying, etc., \$30,000; Rideau canal, to rebuild long bridge at Brown's Point with steel superstructure, \$5,000, to rebuild swing bridge at upper lock at Kingston (steel), \$2,000, to rebuild long bridge at Beckett's Landing (steel superstructure), \$5,000; Welland canal, to execute heavy repairs, \$30,000, to rebuild dam and bridge at Dunnville, \$30,000, to improve drainage along feeder, \$3,000, to provide a telephone line, \$10,000, to build tile

sewer at east end, Port Colborne, \$5,000; Lachine canal, to renew masonry wall, basin No. 2, \$5,000, to repair Government tug, No. 2, \$4,000, dump scows, repairs, \$2,800, repairs to old locks, 1 and 2, \$100,000, widening pier at Cote St. Paul, \$13,000; Chambly canal, renewing wharf at Chambly entrance, \$6,400; St. Ours lock, towards rebuilding dam, \$2,000, to renew east abutment of dam, \$10,000; Trent canal, to dredge shoals in Trent and Otonabee rivers, \$3,500, to build new hull for dredge, \$5,000, to build new lock gates at Bobcaygeon, \$1,500, dredging at mouth of Rice lake, \$3,500, contribution towards building of road between Lindsay and Fenelon Falls, \$1,500; St. Peter's canal, to renew works and perform dredging, \$2,000; Carillon and Grenville canals, to rebuild guide

(continued on page 6.)

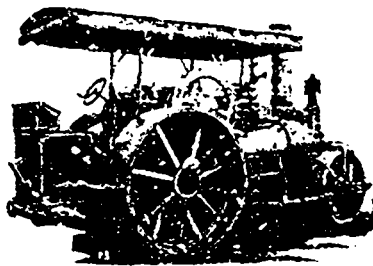
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The summer meeting of the Canadian Society of Civil Engineers will be held at Sydney, N. S.

The annual banquet of the Ottawa Contractors' Association was held on February 21st, in Mead's parlors. Mr. James Lowe was chairman and Ald. James Davidson a guest of honor, representing the wholesale lumbering and manufacturing trades.

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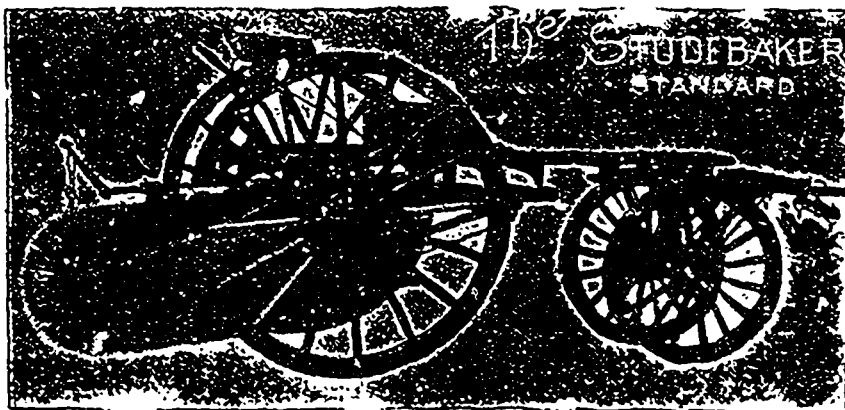
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Canadian Contractor's Hand-Book and Estimator

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The price of the third edition, mailed free, is \$7.00 to subscribers of the CANADIAN ARCHITECT AND BUILDER, and \$1.50 to non-subscribers. Order from the publishers,

The C. H. Mortimer Publishing Co., of Toronto, Limited
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piar, \$23,000; Quebec canals, surveys for establishing boundaries, \$1,000; Culbute canal, damages by flooding, \$250.

PUBLIC BUILDINGS.

Nova Scotia—Aricbat, reconstruction of public buildings, \$1,000; Guysboro', public building, \$5,000; Halifax, new public buildings, \$50,000.

New Brunswick—Marysville public building, \$9,500; Richibucto public building, \$5,000; St. John Dominion public buildings, improvements, alterations, renewals, repairs, etc., \$3,000; St. John immigrant building, \$10,000.

Quebec—Dominion public buildings, renewals, improvements, repairs, etc., \$12,000; Drummondville public building, \$2,000; Granby public building, \$11,000; Grosse Isle quarantine station, \$10,000; L'Assomption public building, \$5,000; Levis cattle quarantine station, renewals, improvements, repairs, etc., \$3,000; Levis public building, \$5,000; Montreal examining warehouse, addition to and alterations, including fittings, furniture, etc., \$15,000; Montreal public buildings, improvements, alterations, repairs, etc., \$8,000; Quebec immigrant buildings on Louise embankment and breakwater, and King's Wharf buildings, \$2,000; Quebec military buildings, new iron foundry, inclusive of installation of electric light plant and sundry machinery ordered, \$7,000; Quebec military buildings, new artillery work-shops, \$12,000; Quebec post office, renewals, improvements, repairs, etc., \$2,000; St. Hyacinthe drill hall, \$5,000; Thetford Mines public buildings, \$4,000; Valleyfield public building, \$10,000.

Ontario—Clinton public building, \$5,000; Cobourg, towards construction of armoury, \$10,000; Deseronto public building, \$16,000; Dominion public buildings, renewals, improvements, repairs, etc., \$10,000; Fort William public building, \$5,000; Kingston Royal Military College, additional buildings, viz., gymnasium and hospital, \$6,000; London drill hall and armoury, \$10,000; Sault Ste. Marie public building, \$10,000; Sarnia public building, \$42,000; Toronto Dominion public buildings, improvements, renewals, repairs, etc., \$7,500; Toronto Junction public building, \$5,000.

Northwest Territories—Carnduff, court-house, \$3,000; court-house, lock-up and police accommodation, etc., \$1,000; Dominion public buildings, renewals, improvements, repairs, etc., \$4,000; Edmonton jail, \$10,000; Edmonton (Strathcona) immigrant building, \$2,500; Macleod, court-house and jail, \$12,000; Red Deer, court-house, lock-up, etc., and land office, \$2,300; Red Deer Valley, immigrant building, \$1,000; Saskatoon, immigrant building, \$2,500; Yorkton, court-house and jail, \$4,000.

British Columbia—Nelson public building, \$25,000; Rossland public building, \$12,000.

To be continued.

BUSINESS NOTES.

A demand of assignment is reported to have been made upon J. A. Allard, contractor, Outremont, Que.

The Gurney-Tilden Company, of Hamilton, is opening a branch agency at Vancouver, B. C.

Lebranche & Pelletier, carpenters, Quebec, Que., have dissolved partnership.

James Dempster has registered sole proprietor of the business of James Dempster & Co., planing mill, Halifax, N. S.

JOHN GALT, C.E. & M.E.

MEM. CAN. SOC. C.E. AND C.E.A., ETC.

(Late City Engineer of Ottawa and Chief Engineer of the Water Works Dept.)

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Used extensively in construction of the Chaudiere Dam.

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Correspondence invited.

GEO. S. KILBOURN, Secretary-Treasurer.

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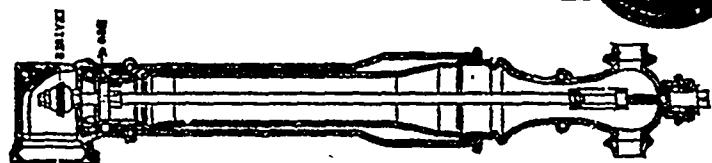
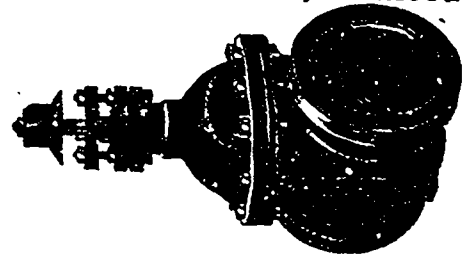
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Sewer Pipes, Best English Cements. Best Belgian Cements
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Capacity, 4,000 Barrels every day in the year.

For Sidewalks and all other work requiring the highest quality Portland Cement.

Used by the U. S. Government and the largest contractors and users of Portland Cements in the United States.

Absolutely the most popular cement in Canada on account of its merits. For prices, etc., address

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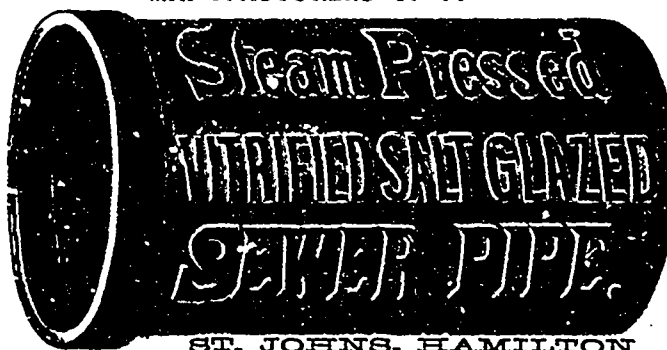
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MUNICIPAL DEPARTMENT

COST OF SIDEWALKS.

The following is a table showing the proximate cost in Toronto of different class sidewalks, of concrete, brick and plank, varying in width from 4 to 12 feet:

Class of Walk	Width in feet	Frontage per foot	No. annual payments	Frontage cost per foot per annum
Concrete, heavy	12	\$ 2.40	10	29.5c.
"	10	2.00	10	24.6c.
" light	8	1.36	10	16.7c.
"	6	1.00	10	12.3c.
"	5	.85	10	10.4c.
"	4	.67	10	8.2c.
Brick	12	1.50	10	22.1c.
"	10	1.50	10	18.4c.
"	8	1.20	10	14.7c.
"	6	.90	10	11.0c.
"	5	.75	10	9.2c.
"	4	.60	10	7.3c.
Plank	12	.78	3	28.1c.
"	10	.65	3	23.4c.
"	8	.52	3	18.7c.
"	6	.39	3	14.0c.
"	5-3	.35	3	12.3c.
"	4	.26	3	9.3c.

WATER WASTE IN CLEVELAND.

The study of water waste is now receiving special attention in Cleveland, where less than 8 per cent. of the service pipes are metered. A report on the subject was recently made by Mr. E. W. Bemis, superintendent. From his calculations it appears that the largest amount of water used on January 29-30 was between 8 and 9 a. m., 4,322,000 gallons, while the smallest amount in the same 24 hours was between 2 and 3 a. m., when it was 3,101,000 gallons. Thus three-fourths as much was used or wasted between 2 and 3 in the morning as at any other hour in the day. Of course, this was nearly all waste. The average cost of setting $\frac{1}{2}$ -inch meters is shown to be \$2.96.

One table gives a comparison of meter and assessment rates on 36 business services, where meters were placed last fall. In 26 of these places, or 72 per cent. an increase is shown ranging from \$2.40 to \$138.80. In eight of them, or 22 per cent., a decrease is shown. The total shows a net gain over 100 per cent., from which the inference is drawn that this district has been using or wasting about twice the water it has been paying for. A table giving a comparison of meter and assessment rates on 73 dwelling houses makes a different showing. Of these but five, or less than 7 per cent., show an increase of meter rate over assessment. The remaining 68, or 93 per cent. show a decrease ranging from \$1.50 to \$22, in the latter case the meter being reduced just one-half. The totals show a reduction of over 37 per cent. in meter as compared with assessment rates.

The inference from these figures is that domestic consumers are paying very much

in excess of their proper quota of water rates, thereby making up for waste and inequalities due to faulty assessment of other consumers.

A NOVEL KIND OF WATER PIPE.

An interesting method of manufacturing wooden water pipe has been developed by the Spokane Galvanized Wire Pipe Company, of Spokane, Washington Territory. The pipe is manufactured of kiln-dried Oregon fir. The staves are dressed to true mathematical segments, which, when assembled, form a perfect circle. The pipe is made in standard 8 ft. lengths, around which galvanized wire is wound spirally. In winding the wire is paid out under tension adapted to the size of the pipe and wire. The spacing of the wire, as well as its size, is adapted to the pressure under which the pipe is to serve. Thus, the higher the pressure the larger the wire used and the more closely it is wound. The staves are well dressed, making the inside of the pipe smooth. The wire is double galvanized to ensure its longevity. The wood is thoroughly kiln dried, to evaporate the sap, and the pipe is thoroughly boiled in asphalt, the more completely to protect it from destructive agencies. Each joint of the pipe is made with a socket and spigot end, enabling joints to be made easily. It is stated that the only tools necessary in joining the pipe are wooden mauls to drive the joints together. The manufacturers claim that the life of this pipe is from fifteen to twenty

years. It is further claimed that if the water passing through the pipe should freeze the pipe will not burst, as the wire imbeds itself in the wood, the expansion being taken up by the wooden staves.

BACTERIAL TREATMENT OF SEWAGE.

At a meeting of the Society of Public Health and Sanitary Engineering, held in Paris, France, Dr. Calmette, director of the Pasteur Institute at Lille, in discussing the question of the bacterial treatment of sewage, pointed out its advantages over broad irrigation. He referred to the successful work already accomplished in this direction in England, but laid great stress on the necessity of removing all insoluble matters by sedimentation, and all greasy matters, cellulose, etc., contributed from trade wastes, by chemical treatment where necessary, so that soluble matters alone are delivered to the bacteria beds for treatment. Mons. Heurot, late Mayor of Rheims, and Mons. Beckmann, chief engineer to the city of Paris, on the other hand, expressed surprise that the system of disposal by broad irrigation should be so adversely criticised, both maintaining the opinion that this system is superior to the bacterial.

Mr. A. O. Graydon, city engineer of London, Ont., has been seriously ill for some time.

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Contractors, Specialists, General Supplies.
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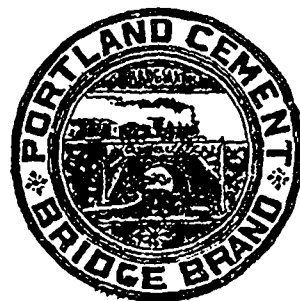
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STRUCTURAL STEEL AND IRON WORK

BEAMS, CHANNELS, ANGLES AND PLATES
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Cast Iron Gas and Water Pipe,
Valves, Hydrants, Valve Boxes
Special Castings of Every Description.

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Works at: MACHINE QUAY, THREE RIVERS, QUEBEC; LONDONDERRY, N.S.

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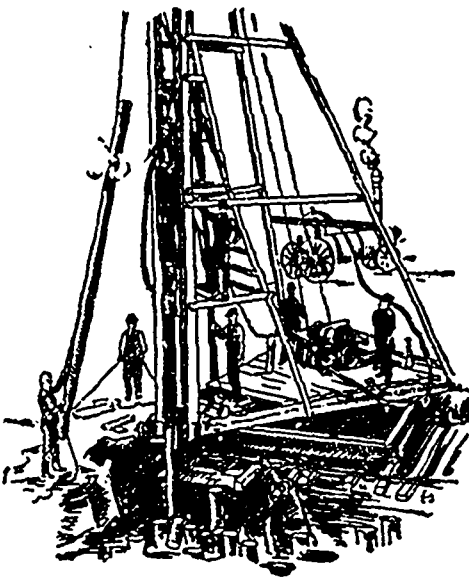
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Table with columns for F.O.B. Montreal and F.O.B. Toronto, listing prices for various types of pressed bricks like Red No. 1, Buff No. 1, etc.

DON VALLEY PRESSED BRICK WORKS

Table listing prices for various types of bricks from Don Valley Pressed Brick Works, including Red, Buff, and Roman bricks.

TORONTO PRESSED BRICK AND TERRA COTTA WORKS

Table listing prices for various types of bricks and terra cotta from Toronto Pressed Brick and Terra Cotta Works.

BEAMSVILLE BRICK AND TERRA COTTA CO.

Table listing prices for various types of bricks and terra cotta from Beamsville Brick and Terra Cotta Co.

Large index table listing various construction-related categories such as Architects, Contractors' Plant and Machinery, Mantles, Grates, and Tiles, Reflectors, Roofing Materials, Sash Cord, Stained and Decorative Glass, Shingles and Siding, Slate, and many others.

Table listing prices for various types of stone, including Beamsville, Montreal, and Toronto stone.

STONE

Table listing prices for various types of stone, including Common Rubble, Large Size Rubble, Foundation Blocks, Granite, etc.

Table listing prices for various types of stone, including Dimension stock granite, etc.

Table listing prices for various types of stone, including Rubble, Brown Covering, etc.

Table listing prices for various types of slate, including Beamsville, Montreal, and Toronto slate.

CEMENT, LIME, etc

Table listing prices for various types of cement and lime, including Portland Cement, etc.

ARCHITECTURAL FURNISHINGS

Table listing prices for various types of architectural furnishings, including exterior window body, etc.