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Vol. 3.

### Toronto and Montreal, Canada, May 14, 1892.

No. 14

#### THE CANADIAN CONTRACT RECORD.

A Weekly Journal of Public Works, Ten-ders, Advance Information and Hunicipal Progress

PUBLISHED EVERY SATURDAY
As an Intermediate Educion 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,

14 KING ST. WEST, - TORONTO, CANADA.
Telephone 2362.

64 Temple Building. -Bell Telephone 2299. Montreal.

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

ADVERTISING RATES ON APPLICATION.

At its Convention held in Toronto, Nov. 20 and 21, 1880, the Ontario Association . of Architects signified its approval of the CANADIAN CONTRACT RECORD, and pledged its members to use this journal as their medium of communication with contractors with respect to advertisements for Tenders

The following resolution was unanimousadopted at the First Annual Meeting of the Province 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 Quebes now assembled in Con-cention 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 Tendors.

The publisher desires to ensure the regular and prompt delivery of this Journal to every subscriber, and requests that any cause of complaint in this particular be reported at once to the office of publication. Subscribers who may change their address should also give prompt notice of same, and in doing so, should give both old and new address

### WANTED.

First-class Architectural Draughtsman wanted

MASON & RICE, 80 Griswold St., Detroit, Mich.

# TENDERS FOR WATER WORKS

#### TOWN OF PARRY SOUND, ONT.

Scaled tenders for above work will be received by the undersigned up to 8 p.m. of TUESDAY, THE 24TH DAY OF MAY, 1892.
Plans and specifications may be seen, and all information obtained, at the Clerk's office. Parry sound, or at the office of the Consulting Engineer, John Galf, Esq., Canada Life Building, Toronto, Tenders must be accompanied by marked cheque for 3 per cent, of tender, payable to the Treasurer.

The corporation reserves the right to release and

The corporation reserves the right to reject any or all tenders.

W. L. HAIGHT, Clerk, Parry Sound.

### TENDERS WANTED.

Tenders will be received at the office of the undersigned until May 23rd, 1892, for all trades required in the erection of a block of three (3) brick stores on Yonge stree! Ians and specifications may be seen at my office. The lowest or any te der will not necessarily be accepted. Contractors will be required to furnish satisfactory evidence of their ability, financial and otherwise, to projectly execute the work.

H. J. HARRIS, Architect, 765 Yonge St., Toronto.

#### TO BUILDERS.

Tenders are required for the Brick and Stone Work of a Baptist Church edifice in Guelph.
Plans may be seen at Geo. Robert's, Eramosa Bridge, Guelph, and at our offices till TUESDAY, 17TH INST.

LANGLEY & BURKE, Architects.
Canada Life Building.

### TO PLUMBERS AND PAINTERS

Premises 58 & 60 Adelaide street west to let, very suitable for your business, and central. I have a large quantity of plumbing, steam heating, painting and glazing to let this season, and can give considerably more trade than will pay rent. Immediate possession.

GEO. CLATWORTHY, 60 Adelaide Street West.

## Business Men,

SHORTHAND, TYPEWRITING, COPYING, SPECIFICATIONS and GENERAL CORRESPONDENCE neatly and rapidly executed.

Would be pleased to wait upon Architects, Builders, etc., requiring work of this description.

Neatness and accuracy guaranteed.

Testimonials furnished. - Terms, reasonable.

DAVID A. PHILLIPS. 123 Borden Street, Toronto.

#### CONTRACTS OPEN.

BRIGHT, ONT,-A new Methodist church will be erected here.

SHOAL LAKE, MAN .- A new English church is to be erected here.

NAWANESA, MAN. - A syndicate is being formed to erect a flour mill.

SARNIA, ONT.-Judge Mackenzie will build a residence on North Christina street.

VARKER, ONT.-The foundation has been commenced on a new railway station.

CARTWRIGHT, MAN. -- About fifteen new buildings are to be erected here this summer. PORTSMOUTH, ONT.-Improvements are to be

made to St. John's church, to cost \$1,400. FORT WILLIAM, ONT,-It is said that Miss

McVicar intends building a new residence. SYDNEY, N S -An electric railway is talked

of to connect this place with Sydney Mines. RIVER SIDE, N. B.-Schator McClellan will erect a residence this summer to cost \$7,000.

EMBRO, ONT .- The ratepayers have carried a by-law granting the sum of \$3.500 for a new town hall.

NORTHFIELD, ONT .- The Anglican church at this place recently destroyed by fire is to be rebuilt at once.

Phankukk, Unr.-The proposed system of water works for the town will cost in the neighborhood of \$55,000.

CARLINGFORD, ONT .- The sum of \$1,800 has been subscribed towards the election of a new Methodist church. KALSO CITY, B. C .- Mr. Geo. O. Buchanan

will remove his saw mili from Kootenay Lake and rebuild at this place. DARTMOUTH, N. S.-The town authorities

are asking for a loan of \$60,000 for water works and sewerage purposes. LA SALETTE, ONT.-Mr. Thos. Kitchen is

making arrangements to erect a new residence during the coming summer. PORTACE LA PRAIRIE, MAN. The sum of \$1,600 has been subscribed towards the erection

of a new Roman Catholic church. VICTORIA, B. C. -A proposal will be placed before the City Council to paye two blocks of

Government street with asphalt. HESPELER, ONT. -Tenders are wanted by Mr A. J. Brewster until to-day (Saturday) for building an addition to the Public school.

CALAIS, N. B .- Mr. E. R. Burpee is the chief promoter of a company which proposes to establish granite polishing works at this place

CHATHAM, ONT .- The C. P. R. is arranging to build a spur line into Lilbury Centre and erect a freight shed and elevator at that place.

SPRINGHILL, N. S.-The Episcopalians will shortly commence the erection of their new church, which is estimated to cost about \$10,000.

ST. BONIFACE, MAN,-The erection of the proposed addition to the hospital at this place will not be proceeded with till next spring.

HARRISTON, ONT.-Mr. James Bailey wants tenders until to-day (Saturday) for the erection of a red brick residence; Geo. Gray, architect.

STRATHROY, ONT. - Messrs, McQuillan & Co., engineers, of Toronto, will submit a proposition to the Council to build a system of water works.

LYN, ONT.-Tenders are wanted by Mr. Robert Bryson, Secretary, until the 24th inst , for the completion of the tower of the Presbyterian chu.ch.

ELKHORN, MAN.-Plans have been prepared for the new school house. - Mr Jones will immediately commence the rebuilding of his hotel which was recently destroyed by fire-

WATERLOO, ONT. A committee has been appointed by the Town Council to engage a civil engineer to report on the advisability and estimated cost of constructing a trunk sewer through the town.

HARTNEY, MAN.-A new elector is to be erected here. - Negotiations are in progress towards the crection of a grist mill here. - The Presbyterians will shortly commence the erection of a new church.

GAINSBURG, ONLI-IL is reported that a new hotel will shortly be crected here.-The promoters of the new flour mill are endeavoring to obtain the necessary stock during the coming week to enable them to proceed with its erection.

WALKERVILLE, ONT,-Joseph Degarse, Chief Engineer, will receive tenders until to-day for the clearing, glading, fencing, building of culverts, etc., for the extension of the Lake Erie and Detroit Railway from Leanungton to Merlin

Kingston, Ont. A deputation will wait on the Government to ask for a subsidy for the Kingston and Pontiac railway, an extension of the Kingston and Pembroke railway from Renfrew-Mr. Mahisal will rise to a cottage on Coulter Point, Sharbot Lake.

GUELPH, ONT .- The Guelph Curling and Skating Company have accepted plans prepared by Mr. G. R. Bruce for their new tink, and teaders will be called shortly. The building will cover th acres of land, and will be one of the largest rinks in Canada.

VANCOUVER, B. C .- A representative of a Victoria syndicate has written to the City authorities offering to erect a flour mill to cost not less than \$20,000 on the site of the late Government reserve, providing they could secure the same at a reasonable figure.

SARNIA, ONT. - The Fire and Water Committer are asking tenders for 220 tons of water pipe to be used in the extension of the water works. Mr. H. G. Phillips, architect, is preparing plans for a double house to be erected near the tunnel for Mr. Wm. Tancock .- Mr. Chas, A. Hand intends creeting a large hotel on the corner of Cromwell and Front streets.

LONDON, ONT. - A focal company is applying to the City Council for a charter to build an electric railway on the principal streets of the city. They agree to have five miles constructed in one year - Messrs. Moore & Henry, architects, this city, will receive tenders until Thursday, 19th inst , for the erection of a brick church at Ciranton for the Methodist congregation. - A Committee has been appointed by the School Board to inspect the various schools and report on the additional accommodation necessary.

HAMILTON, ONT. -Ald. Dunn is advocating in Council the erection of a new House of Refuge. -Work will be commenced immediately on the construction of an overdow sewer at the corner of Call arine and Barton streets, and when this is completed the building of the proposed new sewer on Queen street will be proceeded with. The cost of these two sewers will be about \$6,000 .-The Natural Gas and Mining Company was organized on Thursday last, with a capital stock of \$7,000. Boring will be commenced immediately,

St. John, N. B., - Work will shortly be commenced on the reconstruction of the Victoria Mals recently destroyed by hre. - The Board of Trade held a meeting recently to consider the question of harbor improvements, and a resolution was passed urging the Dominion Covernment to grant the sum of \$100,000 for that purpose,-The Common Council have accepted the offer of the Federal Government to build a railroad around the harbor front .- The Board of Public Works has decided to recommend that the work of repairing Characte street extension be proceed. ed with.

GALT, ONT .- The Town Council have decided to construct water mains on the following streets: Bond street, from Queen to Cambridge street, \$330.20. Bond street from Cambridge to Oxford street, cost \$343.40. John street, from Oxford st.

to 50 feet south of C.P.R., \$669.50; Peck street, \$359.00; McKenzie street, \$452.00; Ann street, \$430.40; Concession street, from Cameron to Peck street, \$855.00; Lansdowne avenue, to lane, \$115.00; Wentworth avenue to Dickson avenue, \$452.00; Waterloo avenue, \$225.00; Myrtle avenue, \$262.00; Spruce street, \$464.00. Rock excavation on: Bruce street, \$1,162,20; Dickson street, \$568.00; from town hall to Wellington street, \$360.00.

WINNIPEG, MAN .- P. Lavallee, Secretary-Treasurer of the municipality of St. Francois-Navier, will receive tenders until Saturday, the aist inst., for the construction of a bridge across the Mill Creek, in the village of St. Eustache.-Mr. N. Bawlf Intends to erect new buildings on the sites of Frost and Wood's warehouse and Moyle's livery stable, which were recently destroyed by fire.-A Committee has been appointed by the Medical College board to report on the question of erecting an additional story to the college building.-The C. P. R. have had plans prepared for new stations to be erected at Gainsboro', Canduff and Oscow, -Mr. T. H. White, C.P.R. engineer, is at present surveying the proposed extension of thirty miles of the Glenboro' branch

OTTAWA, ONT .- The bill to incorporate the Brockville and New York Bridge Company has been passed by the Railway Committee, the object of the company being to construct a bridge across the St. Lawrence river from a point near Brockville.-A deputation from Brantford recently waited on the Minister of Railways urging the granting of a subsidy for 16 miles of the Brantford, Waterloo and Lake Eric Railway from Port Dover to Lake Enc. - A syndicate of capitalists is seeking incorporation with a capital stock of \$128,000, the object being to build a line of whaleback steamers to ply between Port Arthur and Montreal.-The electric railway company has purchased the property on Albert street east of the car sheds and are considering the erection thereon of a large iron, fire-proof car house.

MONTREAL, QUE .- The City Clerk will receive tenders until Wednesday, the 18th inst., for the construction of sewers on the following streets:-Dorchester street, from St. Andre street to Berri street, Jacques Cartier Square from Notre Dame street to St. Paul street, east and west side; Mc-Gregor street from end of existing sewer westward about thirty-five yards. Mary Ann street from Maisonneuve street to Pagineau avenue Overdale avenue from Aqueduct street westward; Sherbrooke street from Amherst street to Jacques Cartier street, Seigneurs street from St. Antoine street northward.-Application will be made to Parliament to incorporate the St. Lawrence River Railroad Company, the object being to construct a line of railway from the village of St. Lambert to a point at or near Sorel, passing through the county of Vercheres. They also propose to erect wharves, docks, elevators, etc.

TORONTO, ONT,-C. F. Wagner, architect, No. 1 Toronto street, wants tenders until to-day (Saturday) for alterations and additions to St. John's Church, Stewart street,-Wooden sidewalks are to be constructed on the following streets: Norfolk, Avenue Road, Springhurst, Logan, Pears, Tecumseth, Apps, Parliament, Avenue, Victoria, Galley, Ontario, Byron, King and Defoe.-It is reported that Mr. Van Horne intends to apply to the city for permissisn to build a new station south of the present Union Station, and to dissolve the agreement regarding the Esplanade.-Mr. Linden, 19 Yonge Street Arcade, is arranging for the crection of a pair of houses on Delaware avenue.-Mr. Anderson will erect a building at No. 478 Yonge street. - The Secretary of the Provincial Board of Health has been instructed to report on the proposed site for the Iso. lation hospital.-The President of the Consumers' Gas Company, will receive tenders until noon on Tuescay the 17th inst., for the erection of a gasholder tank at their premises on Bathurst street.—Building permits have been granted as follows: John Marshall, 229 Brock avenue, pr. s. d. 2-story & attic b. f. dwellings, 237 & 239 Brock avenue, cost \$3.000; John Hawley, 2-story, bk. stable, rear 217 Church st., cost \$1,000; Watkinson & Booth, five att. 2-story bk. stores, n. w. cor. College and Shaw sts., cost \$21,000; John Morrison, det. 2-story & attic bk. dwelling, g4 Harbord st., cost \$3,000; J. Hudson, 25 Major st.,

pr. det. 2-story & attic dwellings n. side Madison ave., n. of Lowther ave., cost \$10,000; Land Security Co., 2-story bk. window shade factory, n. side Liberty st., cost \$6,000; Merchants Dyeing & Furnishing Co., one story bk. factory, n. side Liberty st., cost \$5,000; W. J. Stroud, 31 Bank st., pr. att. 2-story bk, stores, Bloor st., w. of Dovercourt Rd., cost \$5,600; Jos, Wallace, 692 Euclid ave., det. 2-story & attic bk, and stone dwellings, w. side Euclid ave., 150 ft. s. of Lennox st., cost \$4,000; W. H. Scott, 236 Lisgar st., six att. 2-story bk. stores, s. side Queen st., c. of Dovercourt Rd., cost \$26,000; W. L. Smith, M. D., mansard roof and two 2-story bk. additions, 450-452 Church st., cost \$2,400.

#### FIRES.

Thachray's planing mill on Sparks street. Ottawn, was totally destroyed by fire on Tuesday last. The machinery in the building was valued at \$30,000. Loss, \$50,000; insurance, \$10,000. -The machine shop and carriage works of Henderson, Crothers & Wilson, at St. John, N. B., was damaged by fire on the 10th inst. to the extent of \$1,000.-The freight sheds of the Hamburg-American Packet Company at Montreal were burned to the ground on Saturday last, also damaging the wharf to the extent of \$2,000. The loss on building is estimated at \$7,000-On the 9th inst. the factory of the Ontario Canoe Company at Ashburnham, Ont., was burned to the ground, completely destroying the building, sheds, lumber, machinery, stock, etc., The loss is estimated at \$25,000; no insurance. Two brick dwellings under course of construction on Brock street, Kingston, owned by Mr. Snowden, were destroyed by fire on the 6th inst. Loss, \$4,000; insurance, \$3,000.-Brook's saw mill at Golden Valley, Ont., was burned on Friday of last week .-E Linder's pickle factory at Hamilton, Ont., was destroyed by fire last week. Loss, \$4,000.-Fire destroyed the following buildings at Fair-view, N. B., last week: The Methodist church, insurance, \$2,000; Temperance Hall: Mealey's foundry, loss, \$13,000, insurance, \$33,000; Masill's carriage factory, loss, \$4,000, insurance, \$1,700; Robert Fair's general store and other buildings, loss, \$13,000, insumnee, \$4,600; D. Brophy's store, insurance, \$1,600, the residences of Wm. Barnhill, H. Wilson and Mrs. Cromn. - Messrs. Dawson & Curry's cheese factory near Prescott, Ont., was burned on Wednesday last. Loss, \$1,400, insurance, \$1,000.—Mr. C. M. Bostwick's saw mill at Martin's Head, N. B., was destroyed by fire on Monday tast. The mill was valued at \$20,000, on which there was an insurance of \$13.750.—The residence of Mr. George Jeffrey. Mersea, Ont., was destroyed by fire last week. Loss, \$3,000; partially insured.

### CONTRACTS AWARDED.

SEAFORTH, ONT.—Messrs. Cluff & Bennett have been awarded the contract for making extensive alterations to the Commercial hotel.

SPRINGHILL, N. S.—Mr. A. H. Leadbeater has been awarded the contract for building the Christ church hospital, at the price of \$4,000.

BRADFORD, ONT.—The contract for the erection of the new high school building has been awarded to Mr. George Stewart, of Thornton, at \$4,500.

HAMILTON, ONT.—The contract for wiring the opera house, now being remodelled, has been awarded to the Electric Light and Power Co., of this city.

GALT, ONT.—Messrs, W. & F. A. Scott have the contract for improvements to Major Keefer's residence, Blair Road, to cost in the neighborhood of \$2,700.

GUELPH, ONT.—The City Council have accepted the tender of Messrs. D. Kennedy & Son for making additions to the engine and coal house, at the price of \$1,120.

MONTREAL, QUE.—The Canada Pipe Company have been awarded the contract for 125 tons of water pipes, at \$37.50 per ton. The only other bona fide tender was that of Messrs. Drimmond & McCall, at \$38.25.

NACAH, at \$38.25.

VANCOUVER, B. C.— Messrs. Robertson & Hackett have secured the contract for erecting the Bank of Montreal and the Bank of British North America. The B. C. Iron Works have been awarded the contract for all the east iron work. The combined cost of these buildings will be about \$150,000.

OTTAWA, ONT,—Mr. R. Abbott, of this city, has received the contract for building a pier at the Point Aux Anglais lighthouse, Ottawa river.
—The contract for Section 11 of the Soulanges Canal has been awarded to Mr. Geo. Goodwin, at the price of \$254,937. Messrs. D. O'Brien & Son, of Montreal, have secured the contract for section 12, at \$196,201. The awarding of the contract for section 13 has been postponed, as it is probably the structural works will be altered and new tenders called for.

### MUNICIPAL DEPARTMENT.

ROCK EXCAVATION OF TRENCHES FOR WATER WORKS PURPOSES.\*

By A. G. McCullioch, A. M. Can. Soc. C. E. The object of my paper is to outline in

as simple a way as possible the method adopted in the rock excavation required on the construction of the distribution system of the Galt water works during the year 1891.

Galt is situated on both banks of the Grand River which at that point runs almost due south, the town occupying the river valley about 2000 feet wide and a plateau about 60 or 70 ft. higher on

either side of the valley.

In the river valley the silurian rocks of the Guelph formation of some geologists, by others recognized as the upper series of the Niagara, outcrop in many places, and for the most part are within 1½ to 2 feet of the surface, there being above the rock from 6 inches to one foot of loose stone and a surface covering of one foot of loam. The Guelph formation as most of you know is a highly fossiliferous dolomitic limestone of semi crystalline texture, of generally horizontal strata, from a few inches to 4 feet in thickness. In some places the strata is disturbed and wrinkled and in many ways shows signs of disturbance particularly on the west side of the river.

The distribution system of the water works comprised about fitty-five thousand feet of four to 12 inch cast iron pipe, of which about twenty-five thousand feet was in rock trench. The specifications for rock trench required that all "trenches shall be excavated to such depth as will give a covering of not less than 5 feet alone the upper surface of the pipe." that "No extra price will be paid for rock excavation in any part of the works. The contractor must satisfy himself as to the quantity and quality of the rock to be excavated. In rock trenches the rock must be excavated so that at no point shall any part of any pipe be within 3 inches of any rock, and the rock trench shall be at least 12 inches wider than the exterior diameter of the pipe laid."

In rock trenches the pipes shall be bedded in sand, fine earth, cinders, ashes or sawdust as the engineer may direct and shall be covered to a depth of two feet above top of pipe with saw dust, fine wood shavings, sand, gravel or good earth." "No rock of greater weight than 50 pounds shall be returned to the trench." "The top six inches of filling shall be of finely broken stone."

Messrs. Garson & Purcer, of St. Catharines, were the contractors for all work on the distribution system, binding themselves to complete the work by December 1801

They deserve great credit for the manner in which this work was done. It can easily be seen that in a work of such magnitude the systematic handling of the men and plant, the use of all modern improvements in the method of working are great factors in successful contracting, and I do not think that the rock trenching on the work could have been more economically or more efficiently done; it certainly was done to the entire satisfaction of the engineers and the people of Galt. The method adopted in drilling was that of the percussion steam drill, but in many cases, such as in deep water drilling for the river crossings or in an occasional hydrant run, and in cases where the first

\*Paper read at annual convention of Association of Provincial Land Surveyors of Ontario.

blast was not effective enough, hand drilling for economic reasons had resorted to. Both methods of hand drilling-churn drilling and the jumber drilling were tried, the former being pro-bably the best in thick bedded strata, but the latter proved much more effective in the thin bedded shaley rock that we were dealing with, and for this reason was most used, and requires two strikers, each with hammers weighing about five pounds, hitting the drill alternately and regularly; another man sitting down holds the drill, turning it slightly during the interval between the blows; the sitters' duties it is to keep the drill hole partially filled with water to prevent the drill from heating, and to sponge out the hole when necessary. In order to prevent this water splashing on the sitter it is necessary to wind a piece of gasket or other similar substance around the drill at the rock surface. If the work is of any magnitude and the time in which it is to be done limited, the hand drill method would prove much too ineffectual to grapple with it. In such cases the method employed must have economy of time, conveniences and efficiency completely under control, and a mechanical plant must be used. That used at Galt consisted of two Rand percussion steam drills and a traction steam engine of about fifteen horse power and its connections. A traction steam engine for trenching purposes is a necessity, as it can be moved at any moment into any desirable position, whereas with the ordinary wheeled engine there would be constant inconvenience and delays by not having the moving power when desired for this work. An ordinary stationary engine would be entirely unsuited. In almost all progressive farming localities traction engines for threshing purposes are used so that one can readily be obtained, and even if it cannot be so obtained may be brought by rail at a not very great expense. The steam percussion drill works in the same manner as the "jumper" in hand drilling, the motive power being steam. The principle of the drill is that of the direct acting steam engine, the steam cylinder being vertical, the drill bars being connected directly with the piston. The cylinder is supported on a tripod made of steel, on each leg of which is an arrangement for hanging heavy cast from weights of 250 lbs. which steady the machine against the upward reaction of the blows. The rotation of the piston and hence of the drill bit is effected by a spirally grooved steel bar and a ratchet wheel and so arranged that the rotation is effected in the upward stroke. As the drill bit does its work, the cylinder is lowered by means of a feed screw which is turned by ator, who needs to have some skill, as he must operate this feed, regulate the supply of steam and loosen the drill bar when it becomes wedged, as it frequently does in shaley rock. The drill bars used vary in length from two feet to eight feet, the latter being the maximum depth for the machine in use. The short one being the machine in use. The short one being used first is replaced by longer ones as the hole deepens. The form of bit used is that of the X shaped cutting surface, and requires re-sharpening about every half

The steam which is used at about 70 lbs, is conducted to the drill through inch and a half extra heavy wire bound steam hose, and the machine may be worked fast or slow as the operator desires by means of the steam cock which he works at his pleasure. Each drill requires an operator and an assistant to help move the drill and to pour water into the drill hole to keep the bit from heating, and to keep the hole flushed. After the hole is drilled it is stopped with a wooden plug to prevent dirt getting in until the blasting gang comes up.

plug to prevent dirt getting in until the blasting gang comes up.

These machines set complete weigh about 850 pounds including the 3 weights of 250 lbs. for the tripod legs. The machine is so constructed, though, that it can be taken apart when moved or can be packed in a convenient form for shipment.

(To be continued.)

### MUNICIPAL ENGINEERS, CONTRACTORS, AND MATERIALS.

Established 1841.

## THOROLD CEMENT

**OVER** 10.000 BARRELS USED IN BUILDING THE GREAT

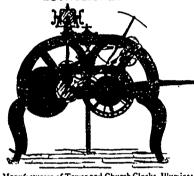
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#### CAST IRON STREET GULLEY.

Over 5000 Gulleys are now in use in the following towns: Montreal, Toronto, Ottawa, Quebec, St. Cunconde, St. Henri, Peterboro, Owen Sound, Samia, Cote St. Antoine. A saving of \$2200 each gulley over



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Engineer and Contractor,

New York Life Building, - MONTRBAL. AGENT.

### DEBENTURES WANTED.

Municipalities issuing detentures, no matter fir what purpose, will find a ready purchaser by applying to G. A. STIMSON, O Toronto Street, Toronto. -Money to loan at lowest rates on first mortgage.

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204 St. James St., MONTREAL.

Rivetted Girders.

Iron and Steel Rolled Beams.

Columns and Stanchions,

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A. GARDNER & CO.,

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