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# CANADIAN CONTRACT RECORD

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

EVERY THURSDAY

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

Vol. 4.

JUNE 29, 1893

No. 19

## THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY THURSDAY

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

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

C. H. MORTIMER, Publisher,

CONFEDERATION LIFE BUILDING, TORONTO.

Telephone 2362.

64 Temple Building - Montreal.

Bell Telephone 2199.

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, 1889, 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 unanimously adopted 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 Quebec now assembled in Convention being satisfied that the CANADIAN CONTRACT RECORD affords us a direct communication with the Contractors, resolved, that we pledge our support to it by using its columns when calling for Tenders."

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

## BARTER AND EXCHANGE.

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

RATES—12 words and under, 15 cents; each additional word, 2 cent (three figures count one word); on two or more subsequent insertions a discount of 30 per cent. will be allowed. Not more than four insertions of an advertisement can be granted.

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

TO DRAUGHTSMEN.—About 1 1/2 quires of Whatman's Drawing Paper for sale (Imperial size), only \$3.50 for the lot. Box 151 at this office.

FREDERICTON, N.B., June 10th, 1893.

## TENDERS

Will be received, addressed "City Clerk, Fredericton, N. B.," for lighting the streets of said city by electricity (arc lights) said tenders to be received up to the 14TH DAY OF JULY NEXT, at noon. Fifty arc lights will be required, to be run per "Moonlight Schedule." A contract will be entered into (if terms satisfactory) to run for ten years. The contractor will be required to furnish, put in and run dynamos, machinery, plant and materials at his own charges in all things. Any further information will be furnished on application. Each tender to state description of machinery and light proposed to be furnished. The lowest or my tender not necessarily accepted.

By order of Street Light Committee,

CHAS. W. BECKWITH,

City Clerk.

## TO BUILDERS.

Whole and separate tenders will be received up to 5 o'clock p.m. of TUESDAY, JULY 4TH, for the erection of a

### Public School

in York Mills. The lowest or any tender not necessarily accepted. Plans may be seen on and after Tuesday, the 27th inst.

MANCEL WILLMOT, Architect,  
825 Yonge Street, Toronto.

## TOWN OF WALKERTON.

### NOTICE TO BRIDGE BUILDERS

Sealed tenders will be received, addressed to the undersigned at Walkerton, up to 4 o'clock in the afternoon on MONDAY, THE 3RD DAY OF JULY, for the erection and construction of a

### STEEL BRIDGE

over the Saugeen river on Durham street. Length, 165 feet from centre to centre of end pieces, roadway, 16 feet clear; 1 sideway, 5 feet clear; moving load, 120 lbs. per foot; two steel cylinders at each end 13 feet above water line.

Complete drawings and specifications and strain sheets to accompany tender. Tenders to state earliest time at which the bridge can be completed.

Also tenders for stone abutments, containing about 300 cubic yards of masonry.

An accepted bank cheque payable to the order of the Treasurer of the Town of Walkerton, for the sum of Five Hundred Dollars to accompany each tender.

To be marked "Tender for Bridge."

The lowest or any tender not necessarily accepted.

GEO. GOULD,

Town Clerk.

Walkerton, June 13th, 1893.



## TENDERS FOR VALVES

Notice is hereby given that sealed tenders addressed to the "City Engineer, Toronto, and endorsed "Tenders for Valves," will be received by registered post only up to the hour of eleven o'clock on MONDAY, 3RD JULY NEXT, for

- 1 24 inch check valve.
- 2 36 inch check valves.
- 3 30 inch check valves.
- 2 36 inch screw valves.

Specifications may be seen, and forms of tender obtained, at the office of the City Engineer, Toronto.

A deposit, cash or marked cheque, payable to the order of the City Treasurer, for the sum of 2 1/2 per cent. on the value of the work tendered for must accompany each and every tender, otherwise it will not be entertained.

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

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

DANIEL LAMB,

Chairman of Committee on Works,

Committee Rooms, Toronto, June 21, 1893.

## NOTICE TO CONTRACTORS

### CANADIAN CONTRACTORS' HAND-BOOK.

A new and thoroughly revised edition of the Canadian Contractors' Hand-Book, consisting of 150 pages of the most carefully selected material, is now ready, and will be sent post paid to any address in Canada on receipt of price. This book should be in the hands of every architect, builder and contractor who desires to have readily accessible and properly authenticated information on a wide variety of subjects adapted to his daily requirements.

Price, \$1.50; to subscribers of the CANADIAN ARCHITECT AND BUILDER, \$1.00. Address

C. H. MORTIMER, Publisher,

Confederation Life Building, TORONTO.

## CONTRACTS OPEN.

SIMCOE, ONT.—Work will be proceeded with at once on the new High School building.

YONGE MILLS, ONT.—Mr. Charles Snider is making preparations to erect a large residence.

NEW WESTMINSTER, B. C.—A by-law will be submitted to the ratepayers to provide funds for additional market accommodation.

GUELPH, ONT.—About \$15,000 has been secured by the Provisional Board towards the erection of the proposed new opera house.

WILKESPORT, ONT.—Orta Bishop, Clerk of Simbra, will receive tenders until the 3rd of July for the construction of the Clay Creek drain.

WOODSTOCK, ONT.—The County of Oxford is asking for tenders for the purchase of \$115,000 worth of twenty-year four per cent. debentures.

TORONTO JUNCTION, ONT.—Mr. Samuel May is negotiating for the erection of another large factory on the grounds of the Dodge Wood Split Pulley Co.

PORT HOPE, ONT.—Tenders are invited by Mr. George M. Healy, Town Treasurer, until the 10th of July, for the purchase of \$46,720 worth of debentures.

CHATHAM, ONT.—The corporation invites tenders until Monday, the 31st of July, for the purchase of \$113,685 worth of debentures, B. G. Fleming, Town Treasurer.

WINDSOR, ONT.—Messrs. Maycock & Newman have prepared plans for a \$7,000 business block to be erected for John Baines on Sandwich street, opposite Ferry's building.

BILLINGS BRIDGE, ONT.—Mr. J. H. Bartlett will receive tenders until the 5th of July for the building of a brick veneered dwelling house for the trustees of the Methodist church.

PORTAGE LA PRAIRIE, MAN.—Mr. I. Todhunter contemplates building a fine brick block this summer on the site of his present store.—The School board have asked the council for a grant of \$15,000 for building purposes.

LONDON, ONT.—Mr. Hugh Marshall will build a two-story brick residence on Horton street, at an estimated cost of \$2,000.—A handsome brick residence will be constructed for Mrs. James Burns on the north side of Craig street.

QUEBEC, QUE.—The Harbor Commissioners have decided to proceed at once with the harbor works. These works, which will cost about \$100,000, will consist of the construction of a wharf in the direction of the Pointe a Carey and the dredging of the interior of the basin.

LISTOWEL, ONT.—The Brethaupt Leather Co. invite tenders until 2 o'clock on Monday, the 3rd of July, for the erection of a three-and-a-half storey frame building, 84 x 40 feet. Plans may be seen at the office of W. E. Binning, architect.

HALIFAX, N. S.—Mr. A. C. Ross, Secretary of the Boston and Nova Scotia Coal Company, has stated that tenders will be advertised for next week for the grading and masonry of the first ten miles of their road from the Broad Cove Coal mines towards Orangedale.

SARNIA, ONT.—H. G. Phillips architect, invites tenders until Saturday next for the erection of a residence for Mrs. H. C. Crocker.—The County Council has granted the sum of \$100 towards the erection of an iron or steel bridge at Grand Bend.

PERMORKE, ONT.—The Bank of Ottawa will erect a new building in this town, to cost \$20,000, the first story to be of Scotch sandstone and the two upper stories of pressed brick.—Mr. C. E. Edy, architect, is preparing plans for a residence for Mr. Robert Booth.—Dr. Irwin will erect a block of stores this summer.

COOKSHIRE, QUE.—The construction of a system of water works and sewerage is to be proceeded with this summer, under the supervision of Mr. A. L. Husbands, architect and civil engineer. Mr. Husbands is also making surveys and estimates for water supply systems for Granby, Cowansville, and Lake Megantic, Que.

MOOSE JAW, N. W. T.—Mr. James H. Ross, M. L. A., and Mr. James Brass have a scheme on foot for building a large dam about 80 feet in height across the Moose Jaw, thus giving this town a water power sufficient to run any number of factories, etc., besides a water supply for the town. The work will cost about \$60,000 when completed.

OTTAWA, ONT.—A movement has been commenced towards securing the erection of a new Home for friendless women.—The Board of Directors of the Y. M. C. A. are discussing a proposal to erect an addition to their building to give accommodation for the junior department and an enlarged reading room.—The report of the Finance Committee asking for a grant of \$30,000 for an isolation hospital has been passed by the City Council.

KINGSTON, ONT.—Mr. W. Newlands, architect, has invited tenders for the erection of a building on Princess street for the Macnee estate.—Mr. J. C. Patterson, Minister of Militia, was in the city recently in connection with improvements needed on military property. A new drill hall will be erected if the city will provide the ground. The Minister was convinced that Kingston should have an elevator, and agreed to give a barracks site if Mr. Foster would put estimates in the budget for new buildings at Barrieffield.

STRATFORD, ONT.—David G. Baxter, architect, is preparing plans for the following works: frame residence for Chas. Stock to be built on Nile street, cost \$1,500; tenders to be let about July 4th; large warehouse and store room for the Forbes Milling Co., of Hespeler; residence for E. M. Groat, Dublin, Ont., cost \$8,000. It will be of frame with hot water heating, grates and mantles. Tenders awarded about 4th July. He is also receiving tenders for re-roofing the Grange street separate school in this city, with slate, iron or shingles.

VICTORIA, B. C.—General Herbert has gone to England to confer with the Imperial authorities regarding the defensive works at the Esquimalt Harbor to be carried out jointly by the Imperial and Canadian Governments. Two plans for strengthening the defences have been submitted, and the object of the general's visit to London is mainly for the purpose of deciding this point as to which plan shall be accepted. It is not intended that the fortifications to be constructed shall be built with a view to permanent occupation, but in such a manner as to be available for defensive purposes when required.

BROCKVILLE, ONT.—Mr. James Johnston, of the C. P. R. road and bridge department, was in

town last week examining the dock. He stated that it was the intention of the company to thoroughly reconstruct the whole structure, which he estimated would cost about \$5,000.—Mr. John Stagg, Chairman Sewer Committee will receive tenders until noon to-morrow (Friday) for the materials and labor required in the construction of pipe sewers on the following streets: Daniel street, from James to Pearl street, 305 feet; Daniel street, from Pearl to Brock street, 300 feet; Garden street, from Pearl to James street, 330 feet; Perth street, from Brock to Abbott street, 675 feet; Kincaid street, from Jones to Gourlay street, 185 feet.

PETERBORO, ONT.—Mr. W. Blackwell, architect, will call for tenders this week for a new four roomed school house, also for additions and alterations to the old Central school.—The County Council, at a meeting held last week, granted the sum of \$1,000 towards the construction of a new iron bridge with stone abutments over the river Westwood at Westwood, in the township of Asphodel, and the sum of \$1,200 towards the reconstruction of the Smith street bridge.—The brick building on Simcoe street formerly occupied by Mr. A. Huskell, barrister, is being torn down to make room for a new store for the Peterboro' Hardware Co.

HAMILTON, ONT.—Messrs. Knox, Morgan & Co. are negotiating for the purchase of Lawry & Sons' building on Macnab street and will erect an addition two stories in height. It will be fitted up for a first class wholesale house.—At a recent meeting of the Waterworks Committee it was decided to ask the City Council for a special appropriation of \$5,000 for the purchase of about one hundred hydrants.—Building permits have been granted as follows: Charles Bolton, two story brick dwelling on Emerald street, between Cannon and Robert streets, cost \$1,000; Wm. Strong, two semi-detached brick dwellings on the north east corner of King and Tisdale streets, cost \$2,200.—The Council has decided to ask for tenders for the purchase of \$2,500,000 worth of debentures, payable in forty years.—Robert Clothey, architect, invites tenders until 6 p.m. to-morrow (Friday) for the various works required in making additions and alterations to St. Joseph's convent in this city.

WINNIPEG, MAN.—Mr. George Browne, architect, has prepared plans for a new church edifice for the congregation of Westminster church. The cost of erection will be about \$25,000, the site selected being the south east corner of Charlotte and Notre Dame streets. The plans will be submitted to the congregation at a meeting to be held during the present week.—Mr. Thomas Gilroy, Chairman Finance Committee, will receive tenders until the 21st of July for the purchase of debentures to the amount of \$31,000.—Plans for a handsome \$6,000 residence for G. V. Hastings, of the Lake of the Woods Milling Co., are being prepared by W. Chesterton, architect. The building will be solid brick on stone foundation, having a tower on the corner. It will be erected on the east side of Donald street, near the Assiniboine river.—The Canadian Rubber Company, of Montreal, have purchased a site on Princess street and intend erecting a brick and stone warehouse this summer. The building will probably be three stories in height and will cost about \$35,000.—The Sisters of St. Boniface have purchased a piece of land adjoining their present building on which they propose to erect an addition.

MONTREAL, QUE.—The City Surveyor has been instructed to prepare an estimate of the cost of making the new approaches to the Wellington street bridge.—Steps are being taken to erect a new Presbyterian church in the east end to accommodate the congregation of Taylor church, which is outgrowing its present house of worship. A site has been secured at the corner of Logan street and Papineau road and plans approved of. The building will cost \$20,000.—Tenders are invited by the City Surveyor until Wednesday, the 5th of July, for the construction of sewers in the following streets: Cote des Neiges Road from McGregor street southward to end of existing sewer; Emily street, from Pine avenue to St. Cuthbert street; Frontenac street, from Forsythe street southward to end of existing sewer; Lusignan street from St. James street to Notre-Dame Street; Montcalm avenue, from Notre Dame st. northward; McGregor st. from Cote des Neiges eastward to end of existing sewer; Ottawa street from Queen street to William street; Pine avenue, from Drolet street to St. Urbain street; Pantaleon street, from Bay street to Pine avenue; DeSallabery street from Craig street to Notre Dame street; Wolfe street from Craig street to Notre Dame street.—The Road Committee has reported to Council in favor of a permanent sidewalk on Albina street; for a block stone pavement on Amherst street, between Sherbrooke and Chermier streets; for an additional appropriation of \$11,000 to finish the paving now in progress on Amherst street; for a sewer in Richmond street, between St. James and Notre Dame streets, and for sewer in St. Hubert street from Roy to Rachel streets.—The Council of Ste. Cunegonde are considering the question of increasing their fire apparatus.

TORONTO, ONT.—Tenders are invited by Mr. Carl Zeidler, 12 Nelson street, until 6 p.m., on Tuesday, July 4th, for the erection of a club house for the Toronto Leislerkruuz, in accordance with plans prepared by Mr. C. F. Wagner, architect, and which may be seen at No. 12 Nelson street.—The authorities of Trinity

University are having plans prepared for a new wing and for refitting the present eastern corridor, and the work will be proceeded with at an early date.—The Council of St. Hilda's college, 335 Shaw street, has obtained the promise of several thousand dollars towards their new permanent building, and active steps towards construction will be taken in the fall.—Some time ago the Board of Works instructed the City Engineer to ascertain the wishes of property owners on a number of streets regarding the pavements they desire. In response the Engineer has recommended the following pavements: Front st., from Church to Jarvis street, asphalt, cost \$14,870; Carlton avenue, asphalt, cost \$1,660; Beverley street, asphalt, cost \$33,800; Huntley street, asphalt, cost \$10,800; St. Patrick street, cedar block, cost \$4,060; D'Arcy street, cedar block, cost \$4,000; Huron street, cedar block, cost \$6,300; Cecil street, cedar block, \$2,525; Prospect street, cedar block, cost \$660; Scott street, southern extension, tamarac block, cost \$7,700.—A granolithic sidewalk is recommended for the west side of Sherbourne street from Wilton avenue to Bloor street at a cost of \$8,140.—The cost of constructing a street car entrance into High Park via Garden avenue is placed at \$19,022, and via Duncan street, at \$23,430.—Building permits have been granted as follows: Mrs. Adelaide Baigent, brick casing to dwelling, 497 Sherbourne street, cost \$1,500, Hatheway & Downey, mansard roof to dwellings s. e. corner Brunswick avenue and Harbord street, cost \$1,500; Fred. Sheppard, mansard roof and alterations to dwelling, 515 Eastern ave., cost \$1,000; Justice Osler, mansard roof, to dwelling, 35 Avenue street, cost \$1,050.

**FIRES.**

The factory of J. S. Pelletier, of St. Luce, Rimouski, Que., has been destroyed by fire. The loss will be about \$10,000, which is covered by insurance. On Saturday night last Messrs. Cullis Bros. saw mill at Auburn, Ont., was burned to the ground, all the machinery and lumber being destroyed. Loss between \$2,000 and \$3,000. There was a small insurance.—The store of H. W. Wilson, on Sparks street, Ottawa, was damaged by fire on the 26th inst. to the extent of \$5,000. The loss is covered by insurance.

**CONTRACTS AWARDED.**

WINDSOR, ONT.—The contract for the construction of J. S. Edgar's residence on Bruce avenue, has been let to A. Morris.

GUELPH, ONT.—The Waterworks Committee has accepted the tender of Alex. Gartshore, of Hamilton, for supplying water pipes and special castings, at \$32 per ton for 4 and 6 inch pipe.

CARLETON PLACE, ONT.—Messrs. Moffat & Co. have received the contract for remodeling the frame building belonging to the Gréig estate, opposite Taylor's block, and will convert it into two stores with plate glass fronts.

VANCOUVER, B. C.—The contract for interior fittings for the Inland Revenue offices in the new public building in this city has been awarded by the Dominion Public Works Department to Messrs. Robertson & Haskell.

THILSONBURG, ONT.—The contract for the erection of the new High School building has been awarded to Mr. John Smith, of this town, at \$6,500. This does not include heating, the contract for which has not yet been let.

PETESBORO', ONT.—Mr. John Baskin, of Norwood, has received the contract for grading twenty-six miles of the Canada Atlantic Railway between Ottawa and Parry Sound. This work will take about six months to complete.

MONTREAL, QUE.—The Irundation Committee have finally awarded the contract for the superstructure of the Brock street tunnel to the Dominion Bridge Company, at the price of \$4,038, including the repairing of the roadway.—The Road Committee, after reconsidering the question have awarded the contract for tile drain pipe to Messrs. F. Hyde & Co.

**PROTECTION OF PILES.**

Some recent experiences of William Kennish, engineer, at Wilmington, N. C., with regard to the treatment of piles that are to be driven in water infested by the teredo or limnoria, have led him to emphasize his reasons for charring the piles before treating them with creosote. Previous experience had demonstrated that an armor of charcoal would repel boring insects by offering them no nutriment, and that the surface being more permeable would more readily absorb the antiseptic fluid. "Lately," he says in a communication to the *Engineering News*, "having to shorten some piles that had been treated without charring, it was discovered that the transverse sections sometimes exhibited wedge shaped portions extending from the center to the outside which had not received the antiseptic fluid. An examination to discover the cause of this failure demonstrated that pieces of the thin interior epidermis, which had escaped the

axes when the pile was stripped of its bark, had prevented the passage of the oil to the outside of these untreated sections; it was also shown that the creosote when injected from the side of the log pursues the lines of the medullary rays toward the pitch, and that there is no passage of the fluid across them. Thus the sections shielded by the inner skin of the bark which had not been removed in peeling had been entirely deprived of oil. It is self evident that if these piles had been charred this evil would have been removed.

"The cost of charring is so slight and the advantage is so great that I would strongly advise engineers to specify that piles of marine waters shall always be charred. If only that portion of the pile which comes in contact with the water be charred, omitting that which is driven into the bottom, the advantage is additional in the respect that the part exposed to attack receives a greater portion of the preservative."

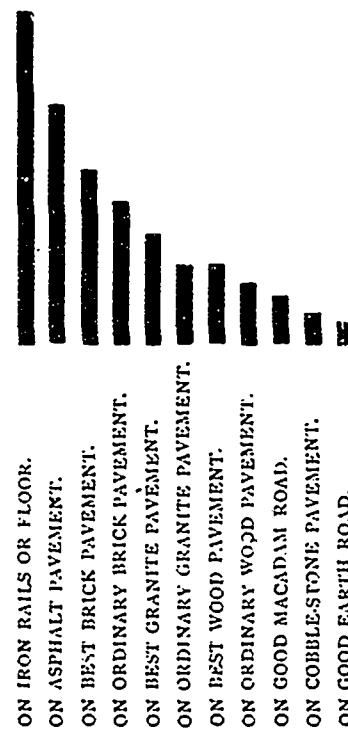
Charring alone seems to be of little value, as experiment with submerged logs, one charred and the other both charred and creosoted, shows that the teredo had bored through the charcoal and eaten the wood, while the log treated with creosote was untouched.

Iron says: "As the contract of metal has now been placed, it may be expected that work on Sir E. Watkin's great tower at Wembley Park, will shortly be proceeded with. The erection, which is to eclipse anything of the kind that has ever been attempted, is to be entirely constructed of steel, which is to be furnished by the Stockton Malleable Iron Company. It will be 1,150 ft. above the level of the ground, and it will therefore exceed by some 150 ft. the height of M. Eiffel's celebrated Parisian structure. Messrs. Heenan and Froude, of Manchester, are building the tower."

**MUNICIPAL DEPARTMENT.**

**COMPARATIVE RESISTANCE TO TRACTION.**

The relative resistance offered by the various forms of pavement is clearly shown in the following diagram, by the eminent engineer, Rudolph Hering. The comparison is based on the load one horse will haul on a level over the following:



This he supplements with the statement: "If one horse can just draw a load on a level road on iron rails, it will take one and two-thirds horses to draw it on asphalt, three and one-third on the best

Belgian block pavement, five on the ordinary Belgian pavement, seven on good cobblestones, thirteen on bad cobblestones, twenty on an ordinary earth road, and forty on a sandy road."

**LEGAL DECISIONS AFFECTING MUNICIPALITIES.**

YORK V. TOWNSHIP OF OSGOODE.—Judgment on appeal by the plaintiffs from the judgment of Falconbridge, J., who tried the action at Ottawa, dismissing it with costs. The action was brought to restrain the defendants from trespassing by entering upon and digging a ditch upon the lands of the plaintiffs in the township of Osgoode, under an award made by the township engineer under the ditches and watercourses act, affirmed by the county judge upon appeal. The trial judge following the decision of Galt, C. J., upon a motion for an interim injunction, held that the award, so affirmed, was final and conclusive upon the plaintiffs and that they had no remedy in this court. The plaintiffs contended that the proceedings before the engineer were without jurisdiction; that the award was therefore not binding; that the defendants could not justify their proposed trespass under the award. The court held that Murray v. Dawson was not applicable; that the jurisdiction depended upon the jurisdiction of the engineer to make the award; that upon the evidence he had jurisdiction; that whether the plaintiff was benefitted by the proposed work was a matter to be determined by the engineer and was the subject of the appeal to the county court judge under the act, and that his decision as to matters over which the engineer had jurisdiction could not be reviewed. Appeal dismissed with costs.

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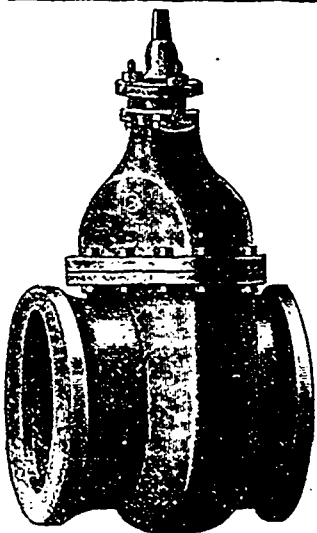
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Index listing various contractors, suppliers, and professionals such as architects, masons, painters, and plumbers, along with their contact information.