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

Vol. 5.

### SEPTEMBER 27, 1894

No. 34

#### 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.

Telephone 2302.
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Information solicited from any part of
the Dominion regarding contracts open to the Journal 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 OANADIAN GONTHACT HECORD, und pledged its members to use this fournal as their medium of communication with contractors with respect to advertisements for Tenders.

tractors 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.

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### **Notice to Contractors**

#### CANADIAN CONTRACTOR'S HAND-BOGK

A new and thoroughly revised edition of the Canadian Contractor's 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.

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

C. H. MORTIMER, Publisher, Confederation Life Building, TORONTO.

# NOTICE TO CONTRA

Plans and specifications of the Brick Building proposed to be received by the United Counties of Leeds and Grenville for use as a House of Industry, and the outbuildings in connection therewith, may be seen on and after Thursday, the 27th inst., at the office of G. A. Allan, Architect, Brockville, and at the residence of J. B. Saunders, Esq., Athens.

Tenders, addressed to the undersigned, will be received up to 12 a.m., on

### THURSDAY, THE 4TH DAY OF OCTOBER NEXT.

and must be marked "Tender for Construction of House of Industry Buildings," and be accompanied by a certified bank cheque for \$500, payable to the order of the undersigned, which cheque will be forfeited should the party tendering refuse to sign the contract when called upon to do so,

The lowest or any tender not necessarily accepted.

R. L. JOYN F. Chairman of Building Committee P.O. Box 519, Brockville.

Brockville, Sept. 14th, 1894.



### **Notice to Contractors**

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to 11 o'clock a.m. on SATURDAY, 2011 SEP, EMBER, 1894, for the following work:

#### A CONCRETE WALK

On Front Street, from Simcoe Street 50 feet casterly.

Specifications may be seen and forms of tender obtained on and after Monday, 24th inst., at the office of the City Engineer, Toronto.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 5 per cent in the value of the work tendered for under 51,000, and 35 per cent, for the work tendered for over that amount, it is accompany each and every tender, otherwise they 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 hind themselves to accept the lowest or any tender.

DANIEL LAMB,

DANIEL LAMB, Chairman of Committee on Works.

Committee Room, Toronto, Sept. 22, 1894.

#### BUSINESS NOTES.

Elson & Asselstine, contractors, Odessa, Ont., have dissolved partnership.

Colbert & Warner, plumbers, Victoria, B. C. have dissolved; John Colbert continues.

Cyrille Bourassa, contractor, Montreal, has placed his estate in the hands of an assignee.

Hammit & McLeod, sash and door factory, Armstrong, B. C., have dissolved partnership,

The firm of Withrow & Hillock have carried on an extensive lumber and planing business in Toronto for some years, but owing to depression in real estate and the dullness of the building trade have been compelled to call a meeting of their creditors, which, it is thought, will result in an assignment being made.

#### CONTRACTS OPEN.

FREDERICTON, N. B.—A new radway depot will be ejected here next spring.

SOREL, QUE.-A new station for the Montreal and Sorel Railway is spoken of.

TRURO, N. S.-Steps are to be taken at once to provide an additional water supply.

GRAVENHURST, ONT.—The site for the proposed High School building has not yet been selected

Knowlton, QUE. - The Methodist congregation are considering the erection of a new church.

HINTONBURG, ONT. - Arrangements are being made for the erection of a Methodist church.

HULL, QUE.—The extension of the waterworks is to be commenced at once by Joseph Bourque, of Ottawa.

MONTMORENCY, QUE.—The Montmorency Cotton Co. is calling for tenders for a large brick and stone warehouse,

CHESLEY, ONT.—The residents have subscribed the sum of \$3,300 towards the erection of a brick station by the G. T. R.

LONDON, ONT .- Messrs. Fox & Brown, of 869 Wellington street, will crect a brick vencer residence on Hyman street, to cost

BRANTFORD, ONT .- Construction work on the Totonto, Hamilton and Buffalo railway at this end of the line is to be commenced at once.

STRATFORD, ONT.-The City Council has recommended the purchase of an electric light plant by the city and the erection of a fire hall.

HUNTINGDON, QUE.—The Village Council has decided to purchase a steam fire-engine. A system of waterworks and drainage for the town is also required.

ATHENS, ONT .- Plans have been prepared for the new Industrial Home to be erected here. The building will be 144 x 45 feet, two stories and basement.

AYLMER, QUE.-The Town Council last week passed a by-law granting to E. J. Rainboth, C. E., of Ottawa, the privilege of constructing a system of water-works for the town. The cost will be about \$35,∞0.

QUEBEC, QUE.—The City Council has recently placed on the market \$500,000 of city debentures. The money realized will be expended on improvements to be made in the new St. Sauveur Ward.

HALIFAX, N. S.—The erection of a summer hotel on the North-West Arm is under consideration by local capitalists The proposed site is at the foot of South street, and tenders have been asked for building a retaining wall there.

PORT ARTHUR, ONT .- The erection of the proposed large pulp and paper mill at Kakabeka Falls is likely to be proceeded with in the near future. A representative of an English firm recently visited the site, with a view to supplying the machin-

VICTORIAMILL, QUL. Tenders will be received until the 1st of October for the construction of a market building. The Furniture Manufacturing Company is calling for tenders for the erection of a factory here.

WINNIPEG, MAN. The Committee on Works is receiving tenders this week for the construction of artificial stone side-walks.— The C. P. R. land department to the construction of the property of are preparing extensive plans for the arrigation of the company's lands in those districts of Assimboia and Alberta lying along the main line. Work will probably not be commenced until next spring.

KINGSTON, ON1.—John Haggart, of this city, will build a new residence on Sugar Island, six miles from Gananoque. A dock will be built there this winter.— The Kingston Vehicle Co., who have secured the Stevenson piano factory building will purchase improved machinery at

SHAWVILLE, QUE. - At a recent meeting of the Pontiac County Council it was resolved to memoralize the Quebec Government to grant a subsidy of \$0,000 per mile for a railway from the south of the Black River to Ferguson's Point, also a subsidy of \$6,000 per mole for a railway from a point in the township of Wright passing through Upper Thorne Centre, Shawville and terminating at Portage du

HAMILTON, ONL .-- F. J. Rastrick & Son, architects, are receiving tenders this week for additions to two houses on Murray street west. H. R. Barber, architect, Stinson's Chambers, will receive tenders until Saturday next, the 29th inst., for the erection of a pair of semi-detached houses in the east end.- Building permits have been granted as follows. Wm. Stewart & been granted as follows. Wm. Stewart & Son, two-story brick dwelling on Robinson street, cost \$1500; P. Goldthorpe, two two-story brick dwellings, corner of Stimson street and Erie avenue, cost \$2100.-The City Engineer has refused to recommend the construction of a welve-inch main on King street, between James and Bay streets, the cost of which would be from \$4,000 to \$5,000. - Proposals are invited by the City Clerk until the 4th of October for the purchase of \$210,000 of debentures.

MONTREAL, QUE.—Plans for a new bridge over the Grand Trunk Railway at Mountain street, have been prepared by the City Surveyor, and will be submitted to the Road Committee at an early date. The design shows a bridge 720 feet in of Health has written a letter to the

Medical Health Officer suggesting improvements to the morgue pending the erection of a new building.- The Finance Committee has made a grant of \$6,260 to the Waterworks Committee for repairs to the setting basin. The Market Commut-tee recommended the extension of Bonse-cours Market, at a cost of \$56,000.—The following building permits have been granted Mrs. Bourbonniere, three storey stone front tenement building on Brock street, cost \$4,300; G. Cote, two three storey stone front tenement building on St. Denis st, cost \$7,000: E. Dubois, three storey stone front tenement building on St. Hubert st., cost \$6,000; J Pouliot, two storey brick tenement building on St. Charles street, cost \$2,000; Mr. Boxer, Charles street, cost \$2,000; Mr. Boxer, repairs and alterations to St. James Club building, St. James st.; Jos. three storey brick tenement building, St. Maurice st., cost \$2,000.

TORON1O, ON r.--Tenders are invited by the Grand Trunk Railway Company until noon of the 1st of October for supplying and laying about 220 squares of second quality large sized slate with galvanized nails upon 100f of engine shed now being erected in this city. Particulars may be obtained at the office of the Assistant Mechanical Superintendent, 4 Spadina ave. A deputation representing the Ontario College of Physicians and Surgeons last week waited upon the Attorney-General and the Ontario Cabinet urging the establishment by the Government of two establishment by the Government of two asylums, one for epileptic patients and one for inebriates. The matter was viewed rather unfavorably by the Government authorities.—The City Engineer will report at an early date on contemplated report at an early date. The report improvements at Island Park. The report will suggest the construction of a waterway from Blockhouse Bay to Long Pond, and the erection of a bridge o er Long Pond. W T. Stewart, Chuirman Fire and Light Committee, will receive tenders until the 4th of October for the furnishing of 2,000 feet of 2½ inch fire hose.—Building permits have been granted as follows: ng permits have been granted as follows: Fensom Elevator Co., mansard roof to factory, Duke st., cost \$1,500; Jas. Har-rington, 220 Parliament st., three att. 2. story and attic bk. dwellings, 101 St. Vin-cent st., cost \$12,000; G. C. Watson, 66 Close ave., pr. s. d., 2 story and attic bk. dwellings, 36 and 38 Clc e ave., cost \$4,000: Chas. J. Gibson, architect, 2 story and attic bk. dwelling, 69½ Spencer ave., cost \$3,000

#### FIRES

The store and dwelling of Mrs. A. Gibson, at Kilmaurs, Ont., was destroyed by fire last week. Loss, \$4,000; insurance, \$3,500 - Solomon Overholt's residence at Joidon Station, Ont., has been burned. Loss, \$2,000; insurance, \$1,000.—The livery stable of S. Mahoney, and a dwelling owned by Mrs. Curry, at Cardinal, Ont., were consumed by fire a few days ago. The residence of Thomas Duval at Aylmer, Que, was burned recently. The loss is covered by insurance.—The woodenware factory of J. F. Wesley & Co. on enware factory of J. F. Wesley & Co. on Perth ave., Toronto, was completely destroyed by fire on Tuesday last. The loss will reach \$25,000, but is covered by insurance. A building at Munkirk, Ont, owned by M. J. Allen, was burned a few days ago. Loss, \$1,800.—A stave and hoop mill at Stewart, Ont., owned by Smith Bros., was destroyed by fire last week. Loss, \$0,000; insurance, \$3,000.—The Peterboro Oil Company's buildings at Peterboro. Ont. have been consumed by fire.—The dwelling house and all outby fire. - The dwelling house and all out-buildings of Robert Stewart, at Ottawa, Ont, were burned on Monday last. The loss is estimated at \$6,000.—Fire at Moncton, N. B. on the 24th inst, destroyed J. H. Mark's carriage factory, J. Duffy's livery stable, and No. 1 engine house. Mr. Mark estimates his loss at

#### CONTRACTS AWARDED.

MAGOG, QUL. The franchise for electric lighting has been given to Mr. Lemay, PETROLEA, ONT. J. & J. Kerr have been awarded the contract for the erection of a new building for D. McMillan & Co.

PRESCOTT, ONL-H. Horwood & Son, of this place, have secured the contract for putting in stained glass windows in the new Court House at Canton, N. Y.

GANANOQUE, ONT.-Mitchell & Wilson, of this town, have been given the con-

tract for the erection of a cottage for Mr. Taylor, of Ottawa, on Club Island, opposite Rockport. The cost will be about \$5,000.

TORONTO, ONT.—The Don Valley Pressed Brick Works, of this city, have been awarded the contract to supply 70,000 light shade Trojan brick, for the Merchants' Bank of Halifax, now being built in Montreal. Also terra cotta and Carthaginan brick to the value of \$4,742.

WINNIPEG, MAN .- The contract for the new hotel to be erected on Market street by W. H. Barry, has been awarded to W. A. Charlesworth. The estimated cost of the building is \$14,000. The contract for the building is \$14,000. The contract for constructing sewers on Broadway, Garry and Scott streets has been awarded to J. G. Hargiave & Co., at the price of \$1,542.35, and that for the construction of fifty-five carch basins to W. F. Lee, at the tender of \$2,433.75.

MONTREAL, QUE - The Road Committee last week awarded the following contracts for sewers. A. Bellhumeut, Bonaparte street, from Montcalm to Visitation street, \$5.23; M. Gosselin, Jacques Cartier, from Craig to Lagauchettere, \$5.49; Sherbrooke street, from Delormier avenue eastwards, \$5.29, and Chausse street, from Sherbrooke street, northwards, \$5.19; Seminary street, from Ottawa street, M. Foisy to be given at \$5.021/2, fresponsible, and if not to M. Benoit at \$6.77. Asphalt contracts were also awarded as follows: James Cochrane, St. Peter street, \$3.82; Bastien & Valiquette, Ernest street, \$3.59. Mr. W. McLea Walbank, architect, has awarded contracts for a residence at Cote St. Antoine for W. S. Lighthall as follows: masonry, Hughes & Brisson; carpenter's and joiner's work, R. Neville; painting and glazing, L. L. Mathieu. Also for a residence on Guy st. for the Misses Major as follows: masonry, J. B. St. Louis; carpenter's and joiner's work, Robert Neville; other trades not let.

#### NEW COMPANIES.

HAMILTON, ONT. — Hamilton Boat Propeller Co., incorporated; capital stock \$40,000; incorporators, G Morris, J W. Cerry, A. Morris and others, of Hamilton.

BRANDON, MAN. -- Assiniboine Lumber Co., seeking incorporation; capital, \$100-000; directors, J. A. Christie, W. M. Alexander, G. Aske and R. M. Matheson, all of this place.

KINGSTON, ONT. — Lake Opinicon Phosphate Co., incorporated; capital stock, \$40,000. With the exception of James Swift, of this place, the stockholders are all residents of the United States.

#### MUNIGIPAL DEPARTMENT.

#### VENTILATING AND FLUSHING OF SEWERS.

Dr. Clark, the medical officer of health to the Lowestoft Urban Sanuary Authority, has just submitted to that authority an able and lengthy report on the ventilition and flushing of sewers in relation to health. The following are extracts taken from the first part of the report.

After saying he has obtained such information from the medical officers of health of other towns as will be trusts enable the sanitary authority to decide upon

some definite policy in regard to the ventilation of the sewers of this borough, he proceeds: I am informed by your surveyor that there are approximately some twenty one miles of public sewers within the borough, and these sewers are venti-lated by means of a few shafts (9 inches by 6 inches and 6 inches by 4 inches respectively), while there are also 256 man-holes and lampholes, of which 81 are

closed and 175 open.
It has been laid down as an axiom by Sir Douglas Galton, Sir Robert Rawlinson and others, that public sewers should be ventilated at intervals of not less than 100 yards, so that there should be at least eighteen ventilators to the mile, while the average in this borough is only about ten to the mile. In some towns however, reference to which is made at the end of this report, the sewers are, I understand, practically unventilated, and I cannot say that the mortality returns of these towns indicate that any serious result has accoued hitherto from this apparent neglect of a duty which the Public Health Act, 1875, imposes upon all sanitary authorities. For some months past I have devoted much care and thought to the consideration of this subject, and I am fain to confess that the stern reality of facts and figures has convinced me that the open manhole, as it exists in this borough, is a standing menace to the health of the inhabitants, and may even be in some cases the actual cause of a disease which was unhappily too prevalent here during the past winter- I mean diphtheria.

A most interesting report has just been issued by Mr. James Mansergh, C. E. well known san ary engineer, upon the ventilation of the sewers at Beckenham, and although it would be unwise to com-pare such a residential district as Becken-ham, where practically the whole of the newers are of modern construction and well laid, and which has an average of only five persons per acre, with a borough such as our own, where there is an average of considerably over ten persons per acre, yet Mr. Manseigh's report brings out very clearly several most interesting points in connection with sewer ventilation. In the first place the report proves that the multi plication of ventilators does not abolish the numance arising from surface gratings, for although there is a ventilator at every 82 yards throughout the whole of the Beckenham distrat, and this, it will be observed, is considerably in excess of the requirements laid down by engineers, yet great annoyance is experienced from the surface ventilators, in spite of the fact that the sewers were proved to be in good dition, self-cleansing and adequately flushed. To quote Mr. Mansergh's own words: "It cannot therefore be said that the annoyance experienced from the surface gratings arises from a deficient number of ventilators, and again, 'I have no doubt that the flushing and ventilation are sufficient, using the latter term without regard to the offence caused by it." I take it that this is a most important conclusion, since it considerably discounts the argument that if a surface grating is offensive, it is necessarily so as the result of some temporary defect in the flow of the sewage, which should be dealt with by flushing. To again quote this report. by flushing. To again quote this report, Mr. Mansergh says, "The broad result of this part of the investigation is that I have not been able to discover any defects in the sewers which account for the com

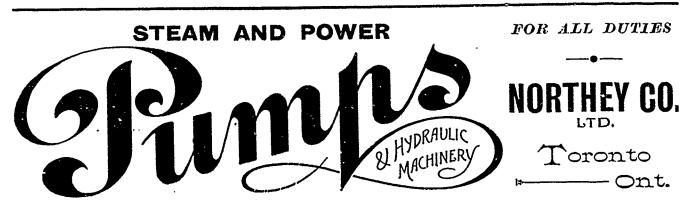
plaints of foul smells." It would appear therefore that sewage, even in modern sewers, will generate evil-smelling gases, and these should therefore be given vent at a considerable elevation in p ference to on a level with the roadway.

Another point brought out by this report is that all ventilators, whether at the road surface or as shafts, act both as inlets and as outlets, according to the varying climatic conditions. This fact, which I have frequently asserted, was proved by means of anemometers, and it may there-fore be considered as scientifically proved that surface gratings, even in conjunction with tall shafts, act at times as outlets for the sewer gases. The case, therefore, for or against surface ventilators depends upon the strictly medical question as to whether the emanations from moist sewage are or are not dangerous or injurious to health. Personally I have no hesitation whatever in saying that, in my opinion, exposure to the emanations from sewage has a most depressing and injurious effect upon the vitality of the human organism, and apart entirely from the question of the causation of such diseases as enteric fever or diphtheria, which are due to speci-fic germs, that these emanations produce a deterioration of vital activity which seriously predisposes to actual disease. The advocates of surface-ventilators state that their object is to approximate the condition of the sewers as far as possible to that of open sewers; but if it be proved that the emanations from an open sewer, or, what is similar, from any deposit of night-soil, moistened with liquid sewage, is injurious to health, then surely such an attraction is the least desirable one that any town can offer, whether to visitors or to its more permanent residents.

If the interior of one of those highly glazed earthenware pipes used to form the first syphon on the modern wash-down closet be examined after the closet has been in use for some few months, it will be found to be lined with a thin layer of brownish sewage matter which has become adherent to the pipe as the soil was wished through it by the flush of water from the cistern, and it is only necessary to compare the interior of these pipes with the comparatively rough lining of the ordinary glazed sewer pipe to realize how much more of the soil must be retained by these It must also be remembered that for almost two-thirds of every twenty-four hours little or no water passes through the sewers, except in times of heavy rain, and it is easy to imagine how such smells arise as those which emanate from surface gratings, for as this film becomes uncovered by water, it rapidly decomposes, thus presenting much the same condition as the periodically exposed foul foreshore of a sewage-laden river. In times of sorm sand and grit are washed into the sewers with the rain and scour the interior of the pipes, removing this decomposing crust for a brief time, and hence it is that after heavy rains these surface ventilators cease for a few days to be offensive. The smells whether from defective house-drains or from surface gratings are to be looked upon simply as warnings, and if such warnings are persistently disregarded, sooner or later ill will come of it.

(To be Continued.)

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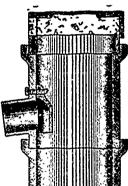
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CAPACITY: 2,000 TONS PER ANNUM.

# D. BAER & GO.

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All communications promptly answered.

### Prices of Building Materials.

CONDITION OF THE MARKET.

Builders' supplies for the past week have been some-what active, and prices are firm in general hardware a very satisfactory business is reported. The receipts for cement at Montreal for the week ending Sept. 22 were 4,750 barrels. Orders are being received principally for car lots, and prices remain unchanged. Firebricks are steady at from \$15,50 to \$22 per thousand. The de-mand for iron pipe and galvanized iron is good, and shipments are comparatively large. Glass and paints and oils are quiet.

LUMBER.

CAR OR CARGO LOTS.

CAR OR CARGO I	.ots.			-
ጥለተ	onto	Moni	toom	P C
101	onto.		rreal.	7
\$ 13' to 2 clear picks. Am ins22 o	\$ 50°436.00	\$ 40.00	\$ @45 ∞	
1 1/2 to 2 clear picks. Am ins33 oc 1 1/2 to 2 three uppers, Am ins.	37 00	4000	4500	I C
134 to 2, pickings, Amins 1 inch clear	20 00	27 00	30 00	ċ
r to and to dressing and		52 50	60 00	
i better 20 0	0 22 00	18 ∞	20 00	C
1 x 10 and 12 mill run16 0	0 17 00			
1 Y 10 30/ 12 / 12/ 12/ 10/ 10 / 10 / 10 / 10 /			19 00 18 00	Ç
T T to and 12 common13 or	1400	8 00	10 00	
1 x 10 and 12 culls 000	1000	10 00	9 00	C
1 x 10 and 12 common	0 3200	33 ∞	35 00	С
		18 ∞	20 00	•
t inch siding, mill run 14 00	1500	14 00	16 ∞	M
I Inch Signer, Ship chill	1200	1000	14 00	
inch siding, mill culls 9 00	10 00	800	900	M
t inch siding, mill culls 9 00 Cull scantling 8 00 t 1/4 and thicker cutting up	000	8 ∞	900	0
plank	26∞	22 00	21.00	
t inch strips, 4 in to 5 in, mill		~	ડાં ∞	N N N
run	1500	14 (0	15 00	N
1 inch flooring	13 0)	11 00	13 (0	
136 inch flooring 16 0)	17 00	14 00	15 00 16 00	fr
XXX shingles, sawr, per M	-,	- 1 00	.000	2
XX shingles, sawn 50	2 (0	2 60	260	-33
Lath 2 40	160	1 60	1 70	41
VALU QUOTATIO	c			345
Mill cull boards and scanting	10 00		10 00	0-5
				pr
miscuous widths Shipping cuil boards, pro- miscuous widths Shipping cuil boards, stocks Hemlock scantling and joist up to 16 ft.	13 00		13 ∞	pr Q
Hemlock scantling and joist	1600		16 00	
up to 16 ft 11 00	12 00		10 00	F.
Hemlock scanting and joist				Fo G
up to 18 ft	3 ∞	1200	3 (0	
up to 20 ft	14 00	13 00	•	G
up to 20 ft	.,	.,	14 00	
Cord	5 00		5 ∞	R
per M	14 00			K
Scantling and jo st, up to 16 ft	14 00		14 00 14 00	
1011	15 ∞ 16 co		15 CO	
	16 (0		6 00	Te
Scantling and joist, up to 22 ft	17 00 19 00		17 00	Ô
24 ft " 26 ft	20 00		10 0	- 1
]] 26 ft	22 00		23 ( C	
20 11	24 00		25 ∞	W
" " " " " " " " " " " " " " " " " " " "	27 00 29 50		27 00	
" " 26 ft	31 00		29 50 31 00	Re
38 ft	33 00		33 00	
Cutting up plants at and	34 00		36 4 0	**
thicker, dry25 00 Cutting up planks, 1% and thicker, board18 00	:8 00	25 ∞	26 oo	Ye
Cutting up planks, 11/2 and	,,		-000	Ye
thicker, board8 00	74 ə:	18 00	22 00	Gr
1 1/2 in flooring, dressed. F M. of	.0	28 oo		Bl:
11/2 inch flooring, rough, B M. 18 00	22 **		31 00 22 00	Blu
1 ½ in flooring, dressed, F M. 26 02 1½ inch flooring, rough, B M. 18 00 1½ inch flooring, rough, B M. 18 00 1½ " dressed, F M. 25 00 1½ " undressed, B M. 18 00 1½ " dressed 18 0. 18 00 1½ " undressed 18 0. 18 00 12 12 12 12 12 12 12 12 12 12 12 12 12	:8 >	27 00	30 00	Oil
undressed, B M. 18 00	1115	18 00	19 00	
13/4 " dressed 18 00 13/4 " undressed 12 00	15"		22 0	Pu
Beaded sheeting, dressed 20 00	35 00		15 ∞ 35 ∞	W
Clapboarding, dressed	13 00	-	1200	Pa
Beaded sheeting, dressed 12 00 Beaded sheeting, dressed 20 00 Clapboarding, dressed XXX sawn shingles, per M				Lit Sie
Sawnlath.	270	2 *^	3 ( O	Un
Countries	2 00	2 50	2 00	
Red oak	40 4 45 (%)	30 00	49 00	Ce
White	45 (%)	35 20	4 ° 00	
White	30 (K		20 ∞ 20 ∞	
		,		

ጥ	ronto. I	Anntres)	
White ash, No. 1 and 2		30 ∞ 35 ∞	C
Black ash, No. 1 and 2 2 Dressing stocks	10 Co 30 V	1800 3000	Cement, Belgian, per "Canadian
Picks, American inspection.,	3,0 →	40 00	" Roman Parian
Three uppers, Am. inspection	50 *	50 00	" Superfine "
Common Walling	-17 M 60	6 ∞	" Oncension (
Good Facing.,	8 00	8 50	" Napanee, "
Sewer	8 vo 8 o	850 900	Keene's Coarse "White
Pressed Brick, Per M Red, No. 1, f.o.b Beamsville	. 16 0		Calcined plaster, per be Fire Bricks, Newcastle, Scotch
n or 3	14 0.		" Scotch Lime, Per Barrel, Grey.
B	31 00		Whit
Brown Roman Red.	24 CO 30 OO		Plaster, Calcined, N. H. N. S
" Buff Brown,	35 00 40 00		Hair, Plasterers', per b
Sewer	7 50 6 0		HA1
Hard Building Roof Tiles Hip Tile	22 00		Cut nails, 5 d & 6 d, pe Steel " " "
Hip Tile (-ach) Ridge Tile	20 60		CUT NAILS, FR 40d, hot cut, per 10 lbs
Red "A" f o. b. Don Valley	1800	25 00	300, 11 11 11
Red "A" f o. b. Don Valley Red "B" " " " Red "C" " " "	16 00	20 00	20d, 16d and 12d, hot cu 100 lbs
Trojan and Corinthian	1;00	17 00 28 00	rod, no. cut, per 100 lbs
Pompeiian	22 00 25 00	29 00	8d, 9d, " " " " " " " " " " " " " " " " " " "
Athenian and Egyptian Tyrian	35 00	31 00 41 00	3d, " " "
Sic lian Roman Carthaginian	40 00 35 ∞	45 00 40 00	2d, " " " 4d to 5d cold cut, not pali
Carthaginian	40 00	45.00	or blued, per 100 lbs
1st quality, f o.b. at Port Credi			3d to 5d cold cut, not po's or blued, per 100 lbs
and " " " "	12 00	18 00 15 00	PINR I
Hard building brick	8 00 6 50	12 00	3d, per 10 lbs
Ornamental, per 100	300 1000		CASING AND BOX, FLOOR
SAND.			12d to 30d, per 100 lbs
Per Load o 11/2 Cubic Yards	1 25	1 25	tod, " " 8d and 9d, " "
STONE Common Rubble, per toise,	<b></b>		6d and 7d, " "
delivered	I4 CU	14 00	4d to 5d, " "
Large flat Rubble, per toise, delivered	18 or	18 00	FINIS
Foundation Blocks, per c. ft. Kent Freestone Quarries	50	50	3 10 2% inch, per 100
Moncton, N. B., per cu			2 to 2½ " " " " " " " " " " " " " " " " " "
ft., f.o.b	1 00		124
Freestone, per cu. it . f.o.b.	80 95	4	SLAT
Ballochmyle New York Blue Stone	80 90	65 75 1 05	5d, per 100 lbs
Granite (Stanstead) Ashlar, 6 in. to 12 in., rise 9 in., per ft.		25	3d, " "
Moat Freestone	١.	70 8o	2d, " "
Credit valley Kubble, per car		75 <sup>8</sup> 0	רוגד
of 15 tons, at quarry Credit Valley Brown Cours	8 00		IND
ing, up to io inch, per sup.	1 75		
yard, at quarry			
Credit Valley Grey Coursing,	60		Architects.
Credit Valley Grey Dimen-	5 200	2 15	Ontario Directory III Queoec Directory ii
sion, per cubic foot MadocRubble, delive ed, per	60	75	
toise 14	∞ 14 50	14 00 14 50	Architectural Sculp- tors and Carvers.
Madoc dimension floating, f. o. b, Toronto, per cubic ft.	30 32		Holbrook & Molling-
Promiscuous Co. h	60		Wagner, Zeidler & Co111
No. 1 Blue Dimension	65		Co 111
No. 1 Blue Dimension No. 1 Buff Promiscuous No. 1 Buff Dimension	86 83		Architectural Iron• Work.
freight and duty paid.	•		B. Greening Wire Co. xii
2 in sawed flagging persq.ft	11		Dennis Wire & Iron Works
37 " " " "	1334		Dominion Ornamental
4) 11 11 11 11 11 11 11 11 11 11 11 11 11	22 273/2		Iron Co vi Dominion Bridge Co. 1
5½ " " " " " " " " " " " " " " " " " " "	33		Meadows, Geo.B ii Shipway Mfg o iv
prices.			Whitfield, John ix
Quebec and Vermont rough granite for building pur-			Art Woodwork.
	33 150 35 20		Knechtel, S
Granite paving blocks, 8 in. to 12 in. x6 in. x41/2 in., per M			
Granite curbing stone, 6 in.x	50 00		Bricks (Pressed). Beamsville Pressed
20 in., per lineal foot	70		Brick Co viii Morris, E. D vi
Rocting (# square).			Port Credit Pressed
red	18 00	20 00	Brick & Terra Cotta Co., Limited viii
<ul> <li>unfading green</li> </ul>	9 oc 8 50	10 co 6 co	Taylor Brosviii
Terra Cotta Tile, per sq Ornamental Black Slate Roof-	8 00 25 00	7 50	Builders' Supplies.
Ornamental Black Slate Roof-	8 00		Bremner, Alex ix Currie & Co., W & FP. xii
PAINTS. (In o			Clatworthy, Geo ix
White lead, Can., per 100 lbs. 6 2	5 5 50	600 625	Maguire Bros i Morris, E. D vi
Acu icau, Eng 40	90 5 CO	7 50 8 00	Rice Lewis & Son IV Toronto Lock Co
venetian, per 100 lbs 1 6	0 175	1 60 1 75	Building Stone
"Indian, Eng	0 10	10 13 30 1 ∞	Dealers.
Vallow oahr-	5 10	4 6	Carroll, Vick & Co vii
Yellow chrome			
Yellow chromer Green, chromer	5 20 7 12	7 12	Builders' Hard. ware.
Yellow ochrome.  Green, chrome.  Paris.  Black lamp.	5 20 7 12 0 25 5 25	7 12 20 20 12 25	Rice Lewis & Son IV
Yellow chrome	5 20 7 12 0 25 5 25 5 20	7 12 20 20 12 25 12 18	Rice Lewis & Son IV Toronto Lock Co i
Yellow ochreme.  Yellow chrome.  Green, chrome.  Paris  Black lamp  Blue, ultramarine  Oil, linseed, raw, & Imp. al.  "" boiled	5 20 7 12 0 25 5 25 5 20 4 59 7 63	7 12 20 20 12 25 12 18 63 65 66 68	Rice Lewis & Son IV
Yellow ochre Yellow chrome.  Green, chrome.  Paris.  Black lamp.  Blue, ultramarine.  Oil, linseed, raw, & Imp. Lat.  '' boiled ''  '' refined, ''  Putty.  Putty.	5 20 7 12 0 25 5 25 5 20 4 59 7 63 8 85 34 21/2	7 12 20 20 12 25 12 18 63 65 66 68 75 75 24 22	teare. Rice Lewis & Son IV Toronto Lock Co i  Creosote Stains Cabot, Samuel IV Church and School
Vellow ochreme.  Vellow chrome.  Paris.  Black lamp.  Blue, ultramarine.  Oil, linseed, raw, & Imp. g.sl.  " boiled."  " refined, "  Putty.  Whiting, dry, per you'lbe	5 20 7 12 0 25 5 25 5 20 4 59 7 63 8 85 34 21/2	7 12 20 20 12 25 12 18 63 65 66 68 75 75 274 274 60 75	scare. Rice Lewis & Son IV Toronto Lock Co i Creosote Stains Cabot, Samuel. IV Church and School Furniture.
Vellow ochreme.  Vellow chrome.  Paris.  Black lamp.  Blue, ultramarine.  Oil, linseed, raw, & Imp. g.sl.  " boiled."  " refined, "  Putty.  Whiting, dry, per you'lbe	5 20 7 12 0 25 5 25 5 20 4 59 7 63 8 85 34 25 5 1 00 0 1 25 4 5	7 12 20 20 12 25 12 18 63 65 66 68 75 75 2½ 2½ 60 75 90 110 6½ 8	teare. Rice Lewis & Son IV Toronto Lock Co i  Creosole Stains Cabot, Samuel. IV  Church and School Furniture. Bostwick, Geo. F II Can. Office & School
Yellow ochreme. Yellow chrome. Green, chrome. "Paris. Black lamp. Blue, ultramarine. Oil, linseed, raw, & Imp. g.d. "bolled" "refined. "refined. "Thuty. "Whiting, dry, per 100 lbs. Paris white, Eng., dry. Litharge, Eng. Sienna, burnt. Umber. "8	5 20 7 12 0 25 5 25 5 20 7 63 8 85 4 5 5 100 0 1 25 4 5 15	7 12 20 20 20 12 25 12 18 63 65 66 68 75 75 2½ 2½ 60 75 90 110	teare. Rice Lewis & Son IV Toronto Lock Co i  Creosote Stains Cabot, Samuel IV  Church and School Furniture. Bostwick, Geo. F II Can. Office & School Furniture Co ix Globe Furniture Co. ix
Yellow ochreme. Yellow chrome. Green, chrome. " Paris Black lamp. Blue, ultramarine. Oil, linseed, raw, & Imp. Lal. " boiled. " refined, 7 Putty. " refined, 7 Putty. Paris white, Eng., dry. Lithargte, Eng. Sienna, burnt. 1 Umber, " 8	5 20 7 12 5 25 5 25 5 20 4 63 85 22 5 100 1 25 5 100 1 25 6 2 7 8 8 2 7	7 12 20 20 20 12 25 12 18 63 65 66 68 75 75 2½ 2½ 60 75 90 1 10 6½ 8 12 15	teare. Rice Lewis & Son IV Toronto Lock Co i  Creosole Stains Cabot, Samuel. IV  Church and School Furniture. Bostwick, Geo. F II Can. Office & School Furniture Co ix Globe Furniture Co ix Globe Furniture Co x
Yellow ochrome.  Green, chrome.  Paris.  Black lamp. Blue, ultramarine.  Oil, linseed, raw, & Imp. Lat.  " boiled " refined, " 7  Putty.  Whiting, dry, per 100 lbs. 7  Paris white, Eng., dry.  Sienna, burnt. 1  Umber.  CEMENT, LIM  Cement, Portland, per bbl. 22  " German."	5 20 70 25 70 25 55 25 63 27 77 88 85 27 70 125 63 125 70	7 12 20 20 12 25 12 18 63 65 66 68 75 75 2½ 2½ 60 75 90 110 6½ 8 12 15	teare.  Rice Lewis & Son IV Toronto Lock Co i  Creosote Stains Cabot, Samuel. IV  Church and School Furniture. Bostwick, Geo. F II Can. Office & School Furniture Co ix Globe Furniture Co ix Office Specialty Co v Snider, J. B ix
Yellow ochreme. Yellow chrome. Green, chrome. " Paris Black lamp. Blue, ultramarine. Oil, linseed, raw, A Imp. Lall. " boiled." " refined. " refined, 7 Putty. " refined, 7 Putty. " yellow chrome, dry, 9 Litharge, Eng., dry. Litharge, Eng. Sienna, burnt. " BEMENT, LIM Cement, Portland, per bbl. 22	5 20 7 25 7 25 7 25 8 25 8 27 8 27	7 12 20 20 20 20 20 20 20 20 20 20 20 20 20	teare. Rice Lewis & Son IV Toronto Lock Co i  Creosole Stains Cabot, Samuel. IV  Church and School Furniture. Bostwick, Geo. F II Can. Office & School Furniture Co ix Globe Furniture Co ix Globe Furniture Co x

	Toronto.	Montreal.	Toronto. Montreal
Cement, Belgian, per bbl	2 30	2 0 250	COMMON BARREL NAILS.
" Canadian "	2 0 250	2 25 2 3	1 inch, per 10 lbs
" Roman " .	-	2 75	78 " " " 175 76
Parian .	4 59 47	4 10 4 75	% " " " 225 225
" Superfine " " Thorold, "	6 50 7 60	650 700	CLINCH NAILS.
" Queenston, "	10		inch, per 10 lbs. 35 85
" Napanee, "	13		% and 2% " " 100 100
" Hull,	•		115 115
Keene's Coarse "Whites"	4 50 4 75	4 50 4 75	135 135
Calcined plaster, per barrel. Fire Bricks, Newcastle, per M	2100 2000	1 55 1 70	1% 200 200 1 250 250
" Scotch "	23 00 000	24 00 30 CO	SHARP AND PLAT PRESSED NAILS.
Lime, Per Barrel, Grey	35	3, 10	
White	55		3 inch, per 100 lbs. 1 35 1 35 2½ and 2½ " " 1 50 1 50
Plaster, Calcined, N. B	2 00		2 and 2 4 " " 16c 16c
Hair, Plasterers', per bag	80 100		1 1/2 and 1 1/4 " " 1 85 1 85
HARDI			ı """ 3∞ 3∞
Cut nails, 5 d & 6 d, per keg		2 25	STEEL WIRE NAILS.
Steel " " "	2 5c	2 35	Steel Wire Nails, 7., 10 and 5., discount from printed list.
40d, hot cut, per 10 lbs	AND CUT SPIK	. BS. 5	Iron Pipe:
30d, " " "	,5	10	• • • • • • • • • • • • • • • • • • • •
20d, 16a and 12d, hot cut, per			
100 lbs	15	15	" " ½ " "
rod, ho; cut, per roo lbs	20	20	" " 1/4 " " " 12
8d, 9d, " " " 6d. 7d, " " "	25	25	" " 1, " " " 17
4d to 5d. " " "	40 60	40 60	" " 1½" " 24 " " 1½" " " 30
3d, " " "	110	100	· · · · · · · · · · · · · · · · · · ·
2d, " " "	1 50	1 50	Black wrought fron pipe, 671/4% off above prices.
4d to 5d cold cut, not polished		-	Galvanized " " 40/
or blued, per 100 lbs	50	50	Cast and soil " 57% " "
3d to 5d cold cut, not po'ished or blued, per 100 lbs	90		Lead Pipe:
	•	90	L-ad pipe, per lb 7c.
3d, per 10 lbs	1 50	1 50	Waste nine, per lb.
2d, " "	3 00	200	Discount, Toronto and the West, 30 off in small
CASING AND BUX, PLOORING,			lots; 30 and 10 off in ton lots; points east of Toronto, 35 and 10 off.
NAIL		ODACCO DOX	
12d to 30d, per 100 lbs	50	50	Galvanized Iron:
10d, "" "	6>	60	Adam's-Mar's Best and Queen's Head:
8d and 9d, " " 6d and 7d, " "	75	75	16 to 24 gunge, per lb 414c. 414c
4d to 5d, " "	1 10	90 1 10	26 guage, 474 5
3d, " "	1 50	1 50	Gordon Crown— 5 5%
FINISHING	•		
3 inch, per 100 lbs	85	85	26 gunge, " 434 434
21/2 10 21/2 " " " "	7 00	1 00	28 " 434 5
2 to 2½ " " " "	t-	1 15	Note.—Cheaper grades about 1/2 c. per lb. less
1½ to 1¾ " " " "	35	x 35	Structural Iron:
1 " " "	1 75 2 25	1 75 2 25	Steel Beams, per 100 lbs 2 75 2 50
SLATING N	AILS.	-	"channels, " 285 260
5d, per 100 lbs	85	85	angles, 2 50 2 30
4d, " ":	85	85	tees, 280 265
3d, " "	1 25	1 25	Characterist builder state 255 235
24,	1 75	150	Sheared steel bridge plate 2 25 2 35
INDEX	с то	ADV	ERTISEMENTS

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INDI			AD
Architects.  Ontario Directory III Queoce Drectory it  Architectural Sculptors and Carvers.  Holbrook & Mollington i  Wagner, Zeidler & Co III  Architectural Iron-Work.  B. Greening Wire Co. xii Dennis Wire & Iron Works iv Dominion Ornamental Iron Co vi Dominion Bridge Co. I Meadows, Geo. B. ii Shipway Mfg o. iv Whitfield, John ix  Art Woodwork.  Knechtel, S III Wagner, Zeidler & Co. II	Bremn Currie France II Saac Oakley Chin Bremn Currie Bremn Currie Honding II Bremn Currie II II Bremn Currie II Bremn Currie II	Cement. SCO, W.& Co, W.& Co, W.& Co, W.& Co, W.& Co John J Ine Brs Sound Po Co, W.	s. vii F P xu Battle viii F P xu Battle viii rtland viii Plant nery n. IV Con. s. II pping. vii F.P. xii fpe
Bricks (Pressed). Beamsville Pressed Brick Coviii Morris, E. Dvi Port Credit Pressed Brick & Terra Cotta Co., Limitedviii Taylor Brosviii  Builders' Sumplies.	Du King 8	er Pipe Co. re Bros rd Drain rmb Was Son, Wa stric and Fixture	iters arden x I Gas
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Builders' Hard. teare. Rice Lewis & Son IV Toronto Lock Co i Creosote Stains Cabot, Samuel IV Church and School Furniture. Bostwick, Geo. F II	Fire I Bremne Curries Magun Morris Standa Co	Brick an er, Alex \$ Co,W & re Bros E. D rd Drain  canized Workers	FP xii Fioe From II
Bostwick, Geo. F II Can. Office & School Furniture Co ix Globe Furniture Co. ix Office Specialty Co	Tucker	& Dillon.	I

Grates and Tiles.

Bostwick, G. F..... II Holbrook&Mollington Rice Lewis & Son...IV

Sheared steel bridge plate
VERTISEM
Heating. Clare Bros & Co xi McClary Mfg. Co xi Gurney Foundry Co. xi King & Son, Warden x McDougall & Co., R. xii Toronto Rudiator Mfg Co
Bigley, R viii Pease Furnace Co x  Lime.
Legal.
Mantels Bostwick, Geo. F II
Metallie Lath. B. Greening Wire Co. xii Metallic Roofing Co vii
Mortar Colors and Shingle Stains. Cabot Samuel, IV Maguire Bros i Muirhead, Andrew i
Ornamental Plas- terers. Baker, J. D vi Hynes, W J ix
Paints & Varnishes, Harris Co., The E vi Muirhead, Andrew i Painters. Gilmor & Casey i
Paving. The Guelich Silica Barytic Stone Co IV
Plasterers Hynes, W. J ix Plumbing Supplies
Plumbing Supplies Barwell, Jam s I Dominion Sanitary Pottery Co iv Sanitas Mfg. Co II Toronto St. el Clad Bath & Mital Co vi McRae & Co II
Plate Glass Harris C., The E vi Hobb Mfg. Co v McCausland & Son ii The Co-so'idated Plate Glass Co iii
Parquetry Floors Elliott & San I Plumbers
Ballantyne, James ii  Reproduction of

Reproduction of Drawings New Color Process Co. ix

d Bullde	
	Dead
ng.	Roofers
Co xi	Douglas Bros II
ng. Coxi Coxi ry Co.xii	Hutson, W. D II
ry Co. XII	Hutson, W. D 11
arden x	Metallic Roofing Co vit
Co., R. xii tor Mfg	Rennie & Son, R II
	Roofers Douglas Bros. II Duthie & Sons, G. II Hutson, W. D. III Metallic Roofing Co. via Rennie & Son, R. II Stewart, W. T. III Williams & Co. H. II Warren Chemical & Mgc Co. II
iii	Williams & Co., H II
viii	Warren Chemical &
Co viii	.,
&FP. xii	Danville Slate Co v Merchant & Co i Metallic Roofing Co vii Warren Chemical & Mfr. Co.
vi	Merchant & Co ii
ď.	Metallic Roofing Co., vii
s II	Warren Chemical &
	Mfg. Co
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ire Co. xii	Pottery Co
ng Co vii	McRae & Co II
. Co VII	Sanitas Mfg. Co. 11
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IV	Shingle Stains
i	Cabot, Samuel IV
drew i	Catoot, Samuel
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al Plas-	Lea & Seaman II
5 <b>.</b>	Stained and Decora-
yi	tive Glass
ix	tive Glass Castle & Son v Dominion Glass Co v Drake, W v Elliott & Son I Gilson Bros. Stained Glass Works v Hobbs Mfg. Co v Horwood & Sons, H v McCausland & Son ii Longhurs, H v
rnishes.	Dominion Glass Co v
e E vi	Drake, W.
rew i	Elliott & Son I
	Gilson Bros. Stained
rs.	Glass Works v
/ i	Grimson, G. & J. E v
a.	Hobbs Mfg. Co v
Silica	Horwood & Sons, H.,
Co IV	McCausland & Son. ii
	Longhurs, H v
ers	Quesnel, Sharpe & Co., v
ix	Ramsay & Son, A v
upplies	Longhurs , H V Quesnel, Sharpe & Co v Ramsay & Son, A v Spence & Son, J. C v
1	Terra Cotta
nitary	The Raritan Hollow &
iv	Porous Brick Co vi
o ii	Porous Brick Co vi
o. II Jad Bath	Wall Paper and
····· Vii	Celling Decorations
II	Elliott & Son I
રિવક્ક	WireManufacturers
c E vi	B. Greening Wire Co. xii Dennis Wire & Iron
Son ii	Dennis Wire & Iron
Son ii	Works iv
ed Plate	Mendows Geo. B ii
ii	Works iv Meadows. Geo. B ii Shipway Mfg Co iv
Floors	Wall Planter

Douglas Bros. 11 Duthie & Sons, G. 17 Hutson, W. D. 11 Metallic Roofing Co. vin Rennie & Son, R. 11 Stewart, W. T. 11 Williams & Co., H. 11 Warren Chemical &
Mfg. Co
Dominion Sanitary Pottery Co
Lea & Seaman II  Stained and Decorative Glass  Castle & Son v Dominion Glass Co v Drake, W v Elliott & Son I Gileon Bose Soi I
Grimson, G. & J. E v Hobbs Mfg. Co v Horwood & Sons, H v McCausland & Son ii Longhurs, H v Quesnel, Sharpe & Co v Ramsay & Son, A v Spence & Son, J. C v
Terra Cotta The Raritan Hollow & Porous Brick Co vi Wall Paper and Celling Decorations Ellion & Son I

Wall Plaster Nowell & Co. B. L... vi Wall Tie Mac Machine Co... vi

Window Blinds
Clatworthy, Geo.... ix
Lea & Seaman..... II