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follows: Thibodeau & Lemoine, \$2,090.40; Behan & Leacy, \$1,582.75 (accepted).

NELSON, B. C.—C. P. R. depot: John Hepburn, successful tenderer; price about \$15,000.

CHARLOTTETOWN, P. E. I.—Shaw & Bearsto have secured contract for plumbing the Moxham residence, now being built at Rockaway, near Sydney, C. B.

NEWMARKET, ONT.—The tender of the Goldie & McCulloch Co., of Galt, for an engine and boiler for the electric light plant, has been accepted by the council.

KINGSTON, ONT.—Additions and improvements to Catarqui cemetery buildings: Masonry, Watt & Morley; carpentry, Robert Davidson; plumbing and heating, Joseph Jamieson; painting and glazing, Thomas Milo.

ST. THOMAS, ONT.—Following are successful tenderers for building addition to Amassa-Wood hospital: Ponsford Bros., mason work, \$1,945; Sanders & Powers, carpenter work, \$2,096; Gauld Bros., London, plastering, \$450; Hamilton & Scott, metal work, \$176. Other contracts not let.

SARNIA, ONT.—W. J. Barrie will install hot water heating apparatus in the Central Methodist church parsonage.—Residence for James Doherty: Carpenter work, George Bruce; mason work, McDonald & Simpson; cut stone work, George Paul; plastering work, Robert Corrick; painting, English & Fitzgerald; plumbing and tinware, Folland & Co.

WINNIPEG, MAN.—The tender of the Gairshore Thomson Pipe & Foundry Co., of Hamilton, for supply of cast iron pipes, at \$38 per ton, and specials at \$60, has been accepted by the council. The contract for supply of from 250 to 350 tons of asphalt has been let to the Columbian Construction Co.; price, \$34.75 per ton f.o.b. cars Winnipeg.—A. C. Smith, of this city, has been awarded the contract of building the first four miles of the Gimli branch of the C.P.R.

BERLIN, ONT.—The following tenders were received by the county council for purchase of \$5,000 House of Refuge debentures: G. A. Stimson & Co., Toronto, \$4,901.50 (accepted); W. Brouse, broker, Toronto, \$4,890; E. H. Gay & Co., bankers, Montreal, \$4,875; Central Loan & Savings Co., Toronto, \$4,852; G. W. Wood & Son, Toronto, \$4,806; Merchant's Bank of Canada, \$4,680.

FREDERICTON, N.B.—The Provincial government has awarded contracts as follows: Rebuilding Kiley bridge at Kingsclear, York county, to Solomon McFarlane; flooring Salisbury, Westmorland county, steel bridge, to A. E. Smith; rebuilding Edmundston bridge across Madawaska river at Edmundston, to Jas. E. Simmons; repairing Charters bridge at Memramcook station to J. A. Killam; repairing Indian bridge, Pelletier's bridge, and Golliver Rockway bridge, all in Madawaska county, to Whitman Brewer; rebuilding Stevens bridge, Victoria county, to Henry Boone.

BROCKVILLE, ONT.—The James Smart Manufacturing Co. have been awarded contracts for warming and ventilating the following buildings, using their "Kelsey" warm air generator: "Harding" ladies' college, London, Ont.; St. James Episcopal church, Hull, Que.; Episcopal church, St. John, N.B.; public school, Caledonia, Ont.; Miners' union building, Sandon, B.C.; St. James' Ward school, Guelph, Ont.; residence at Ontario Agricultural college, Guelph, Ont.; public school, Paris, Ont. We understand the above firm are placing a large number of these generators in Manitoba and the Territories, having shipped a complete carload to Winnipeg within the last few days.

## BUILDING REGULATIONS.

The building regulations of many English towns are founded upon those of London, without going quite so far in the question of restraint. Those of the chief continental cities generally go somewhat further, especially in respect of the heights of buildings. Thus in Paris the front wall cannot, in the widest streets, be carried higher than about 65 feet; in Vienna the height of dwelling houses may not, as a rule, be more than about 77 feet, while the floor level of the topmost story must not be higher than 62 feet, nor may there be more than five stories in the height of the house, says "Carpentry and Building." In London no limit of height is actually fixed. The normal height is 80 feet, but a wall may be carried as high as the public authority shall permit. In Sweden the regulations seem to touch the question of taste in a rather important way. The front of a house must not be painted white, but some color inoffensive to the eye. In other respects the continental regulations are generally more restrictive than ours—except as to balconies, the width of which, to the extent of about 4 feet, is legalized; while with us this (one of the most romantic features of the elevation) has, in every case, to pass through the chastening fire of the public authority, particularly if it overhangs the public way.

## USEFUL HINTS.

To keep iron nails, used in wooden construction work, from rusting after a few months' exposure, heat the nails to a cherry red and throw them quickly into a pot of raw linseed oil. Drain off the oil and let the nails become fairly dry before using.

Made ground, having a thickness of about 23 feet, has been successfully consolidated by driving, and subsequently drawing, piles closely together and filling up the holes with poor concrete, according to "Centralblatt der Bauverwaltung" (p. 485, 1899). In "Abstracts," of the Institution of Civil Engineers, it is stated that the piles were 20 centimeters (8 inches) in diameter and were driven 2 feet 6 inches pitch each way. A chimney over 213 feet high on a 49 foot square base has been built on the site so consolidated. Only eight piles, each 26 feet long, were required to consolidate 2,150 square metres (23,140 square feet), and the cost averaged 8½ marks per square metre (19 cents per square foot).

Walnut stain is made of bichromate of potash and vandyke brown in oil, dissolved in hot water. A simple stain is made of brown umber and size, and brushed over the wood hot, then fill up the grain for varnishing. Chestnut is the best wood for retaining that clear white so much admired; sycamore is next, and lime tree is as good. White-wood will not be so clear and light-coloured if any varnish or polish is put upon it, but will appear whiter if waxed with white wax and polished by friction; but preference should be given to white French polish and white hard varnish. This merely deepens the colour and gives an ivory

appearance. For dry wood, varnish with French polish, one part brown and two parts hard varnish. For light work, two parts white French polish, three parts white hard varnish. This should be laid on with a nice camel-hair brush, and near the fire.

Thos. F. Benbow, contractor, Ottawa, is reported to have assigned to T. W. McDermott.

Cornish & Stewart, painters, of St. Mary's, Ont., have dissolved partnership, Mr. Stewart continuing.

F. G. Johnston & Co., plumbers, Ottawa, have opened a branch on Wellington street in that city.

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