

storey stone and brick front stores and dwellings on St. Catherine street, cost \$1,300.

OTTAWA, ONT.—It is expected work will shortly be commenced on the new Maternity Institute. The building is to be 40 by 56 feet and will contain four public and three private wards. The cost will be about \$6,000.—The department of Public Works for the Dominion will shortly call for tenders for the construction of a new steel dredge for salt water service. The appropriation for the vessel is \$40,000. The hull is to be built entirely of steel.—D. Ewart has been granted a building permit for a brick veneered residence on Bessere street, to cost \$1,800.—P. Baskerville has purchased the row of brick houses on Augusta street, near Rideau Street, and will make extensive repairs.—J. H. Bilderson, Secretary Department of Railways and Canals, will receive tenders until the 4th of September for the deepening of the canal prism between locks Nos. 3 and 5. Plans may be seen at the above department in this city and at the Superintendent Engineer's office in Montreal.—Tenders for hot water heating apparatus at the Lethbridge, Alta., public building, will be received by E. F. E. Roy, Secretary Public Works Department, until the 29th inst. Plans at Dominion Public Works office, Winnipeg and at Clerk of Works office, Lethbridge.

TORONTO, ONT.—The City Council has given notice of its intention to construct an asphalt pavement on Adelaide street, from Yonge street to Church street, at a cost of \$14,300.—The Warren Scharffe Asphalt Paving Co. contemplate the erection of a large factory in this city, and have applied to the Council for the lease of a site on the Don flats.—An effort is being made to by members of the City Council to have a breakwater constructed along the south shore of the Island. The Dominion Government agreed to protect the Island and improve the eastern gap on condition that the city paid \$100,000 towards the cost. The city has paid the money, and the Government is to be asked to proceed with the work.—An agreement has been reached between Hon. Mr. Harty, Commissioner of Public Works, and Park Commissioner Chambers relative to the grading and improving of the portion of Queen's Park which surrounds the Parliament buildings, and an effort will be made to have the work done this fall. The improvements will cost the city about \$5,000 and the Government between \$7,000 and \$8,000.—The Toronto Street Railway Company are preparing the site for their car sheds on the corner of Roncesvalle avenue and Queen street.

#### FIRES.

The outbuildings of the Canadian Oil Company at Sarma, Ont., were consumed by fire recently. The loss will reach \$17,000. The residence of Charles Beith was also destroyed.—A brick block at Tweed, Ont., owned by Adam McGowan, was destroyed by fire last week. Loss \$4,000, covered by insurance. Latour's hotel and the residences of R. Leck and S. Monette, at Gattineau Point, Ont., were burned a few days ago. Loss, \$5,000; no insurance.—The residence of Prof. Harris at Bathurst, N. B., has been destroyed by fire. Insurance \$3,000.—W. Harris & Co's pork factory on Pape Ave., Toronto, was destroyed by fire on Friday of last week. Loss, \$5,000; insurance small.—W. B. Kelly's saw mill at Bridgenorth, Ont., six miles north of Peterboro', was burned to the ground on the 2nd inst. Loss on mill, \$5,000; insurance, \$3,000.—Manning's grist mill at Balmoral, Man., was destroyed by fire on Monday last. Loss \$9,000; insurance, \$5,000.—MacLaren's saw mill at Macleod N. W. T., was burned on the 9th inst. Lost \$2,000.—Fire at Alton, Ont., on the 5th inst., destroyed Boggs & Rowcliffe's carriage works, Samuel Barber's residence, Dr. Algie's outbuildings and Barber & Bro.'s carriage shop. The loss will be about \$8,000.—D. W. Grant & Co's carriage

works, at Woodstock, N. B., was consumed by fire recently. Loss \$20,000; insurance, \$5,100.—A large portion of the village of Harrow, Ont., was destroyed by fire on Saturday last. Some of the burned buildings are: A. E. Sinasc's flour mill, the residence of J. S. Wright, Jos. Quick, G. Eorm, C. Bott, J. Smith and J. Drummond, P. R. Rumble's hardware store and residence and J. Stokey's grocery store. The loss will reach \$40,000.

#### CONTRACTS AWARDED.

EDGINGTON, ONT.—The contract for a Presbyterian church at this place has been let to Logan & Crockford, of Parry Sound.

OTTAWA, ONT.—The contract for section 11 of the Soulanges canal which was awarded to Thos. Feeney, has been transferred to W. J. Poapre & Co.

BROCKVILLE, ONT.—The Keith & Fitzsimmons Co., of Toronto, have been awarded the heating and plumbing contract at the new asylum. Fifteen boilers will be required.

DARTMOUTH, N. S.—Herbert E. Gates, architect, has let the contracts for the following work: Manse for St. James church, in this town; school house at Woodside, G. Gates, contractor residence for James Simmonds, Dartmouth, J. T. Walker, contractor.

WINNIPEG, MAN.—The school Board received the following tenders for some stone foundations and other improvements to the Carlton street and No. 1 Central schools: Rourke & Cass, Carlton street school, stone foundation, \$4,400; extras including brickwork, shiplap and raising, \$5,400; Central school No. 1, stone foundation, \$4,500; extras, \$2,100; C. W. Sharpe & Co., South Central School, foundation, \$3,570; extras, \$4,600, including raising, \$1,500; nine-inch brick and shiplap, \$2,600; concrete floor, \$700; Central School No. 1, \$4,500 for stone foundation; \$5,400 for brick work, shiplap and concrete floor; Daniel D. Wood, South Central, stone foundation, \$3,285; if the school be raised three feet higher, \$4,785. Central No. 1, stone foundation, \$3,765. The tender of D. D. Wood has been accepted for the South Central school.

TORONTO, ONT.—A sub-committee of the Board of Works awarded contracts as follows on Saturday last: asphalt pavement on Cecil street, from Spadina ave. to Beverley street, Warren Scharffe Co., \$9,657; on Wellesley street, from Sherbourne to Parliament streets, Warren Scharffe Co., \$11,835; concrete sidewalks—Wellesley street, south side, from Church to Jarvis street, walk, per lineal foot, \$1.05, re setting stone kerbing per from lineal foot 28c; Carlton st, south side, Sherbourne to Seaton, same prices, both to T. J. Whittard. Separate tenders were asked for an asphalt or scoria block pavement on McCaul street, and should the work be proceeded with the contract will be given to the Warren Scharffe Co., at the following figures: scoria blocks, including laying, \$3.25 per square yard; gravel under ties and concrete, \$1.15 per cubic yard; concrete to include everything, \$5.20 per cubic yard; maintenance of pavement for additional five years, \$1 per square yard; 2 1/2 inch asphalt surface without concrete base, \$1.48 per square yard.—The contract for the iron work of the new John Street bridge has been awarded to the Dominion Bridge Company, of Montreal.—The Parks and Gardens Committee have accepted the following tenders for the construction of a conservatory in the Horticultural Gardens: Masonry and concrete, William Hall, \$796; carpenter's work, Thomas McIlwain, \$910; painting and glazing, J. Beattie, \$673; galvanized iron work, A. J. McIntyre, \$119; heating J. & G. Gray, \$649.

MONTREAL, QUE.—Messrs. Perrault & Lesge, architects, have awarded contracts for two three-storey stone front stores and dwellings and for a bank building for the Hochelaga bank as follows: masonry and excavation, H. Dufort; brickwork, Gagnon & Brosseau. Same architects have also awarded the following

contracts: steel work of two 3 storey stores and dwellings for E. Marcil to A. E. Loignon, carpenter and joiners' work of three storey stone front store and dwelling for D. Gallery, to John O'Leary; for two three storey stone front buildings for C. A. Briggs, roofing, G. W. Reed; plastering, E. Morache.—Mr. Robert Findlay, architect, has awarded contracts for a residence and stable to be erected on Mause st., for Mr. John Allan as follows: masonry, Heggie & Stuart; brickwork, W. McArthur & Son; carpenters and joiners' work, Joseph Lambert & Fils; roofing, Campbell & Co.; plumbing and heating, Geo. R. Woodburn; plastering, Hirsch Bros.; painting, A. Craig.—Mr. J. J. Browne, architect, has awarded contracts for a three storey stone school building to be erected at Valleyfield, Que., as follows: masonry and brickwork, John C. Hague; carpenter and joiners' work, Hugh G. Reid; painting, McAfee & Eaton, roofing, Geo. W. Reed. M. W. McLea Walbank, architect has awarded contracts as follows for the restoration of a store front on Notre Dame street, occupied by J. Palmer & Son: carpenter and joiners' work, stone, brick, iron work, prismatic lights, plastering and marble work, Beckham & Scott; painting, plate and bevelled glass, W. P. Scott.

#### BIDS.

WOODSTOCK, ONT.—The following are the tenders received for the Hospital building: Thos. McClay, \$8,977; A. J. Brown, Hamilton, \$9,235; John B. McKay, \$9,535; Clarkson Bros., \$9,600; Griffith and McIntosh, \$9,735; Murray & Sons, \$10,185; C. Leader, \$13,000.

#### STONE WORKING IN ATHENS.

A writer in one of the London architectural papers, in discussing the above subject, says: It appears that the Athenians worked the marble to an even, but not very smooth, face with a toothed chisel before they placed the blocks in the work, and that they afterwards went over the whole exposed surface and finished it to the greatest smoothness and nicety, but without polish, taking off in this operation about one-fifth of an inch; and this has been the practice on the horizontal as well as the upright surfaces, for the columns of the Propylaea are sunk in to about that depth below the general level. The place intended for their reception was sunk before the lower cylinders were placed, and lest any inconvenience should arise from the wet remaining there before the building was completed, a small channel has been cut from the recess to carry off the water. In the steps the adjoining faces are carefully finished at the internal angles, but both are left rough at the external angles, by which means the accidents and wear which take place during the execution of the work would rarely be of any consequence.

#### SAFE SCAFFOLDING.

For the benefit of those contractors who carry on business in places where there are no regular scaffolding contractors, as we have in our larger cities, the Southern Architect suggests that they make decks only at stated intervals, using packed putlogs and allowing the putlogs to extend into the building through windows, where it is possible, and through the walls themselves, where there are no windows, and securely fasten them to a row of inner and outer scaffold poles, the putlog holes to be plugged up as the scaffold is taken down; lay a sound deck on these putlogs, and by use of portable three-legged bucks, say five feet high, set on these decks, you can build story on story of platforms, placing bucks, one on top of the other, until the next row of putlogs is reached. This would make the adjusting of scaffolds both quick and easy, and would also greatly eliminate the danger of the present system. The idea of using pulleys for openings in buildings, and using a portable platform that can be raised or lowered at will in painting, etc., has already been put into use with success

and comparatively no danger. The main points of danger seem to come from the following: Flimsy poles, insecurely put together, putlogs having very little purchase in the walls, being badly attached to the poles, and often containing flaws.

## MUNICIPAL DEPARTMENT.

#### EXAMINATION QUESTIONS FOR HEALTH INSPECTORS.

An examination for inspector of nuisances was held at Norwich, Eng., on July 6 and 7, when 18 candidates presented themselves. The following were the questions:

1. What procedure should be taken to obtain an inspection of premises to which permission to enter has been refused?
2. Give a short description of the business of a fat-melter, particularly mentioning the methods to be adopted to prevent the occurrence of nuisance.
3. What are the chief human diseases communicated by milk? In what circumstances does milk become infected? What precautions would you recommend to be carried out in any case of suspicion?
4. How would you take a sample of air from a sewer with the object of having it analysed? What conditions are liable to render brick sewers dangerous to the lives of those who enter them?
5. Give a short descriptive account of the proper sanitary construction of a stable for three horses.
6. What are the methods of disinfection you would recommend in a sparsely populated rural district of large area—(a) for rooms, (b) for clothing? Have fresh air and sunlight any germicidal properties?
7. Sketch the following traps, showing the water level when at rest. State the advantages and disadvantages of each kind: D trap, bell trap, P trap, S trap, Mason's trap.
8. Describe the proper method of constructing drains with stoneware pipes, and state the points to which you would give special attention in laying. Illustrate your answer by sketches.
9. Give the pressure per square inch at the bottom, and at 20 ft. from the bottom, on a water-pipe 35 ft. in length fixed vertically.

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