

other to be built in the parish of St. Clement, Temiscouata County, to cost about \$10,000. The same architect is preparing plans for a presbytery, 38 x 32 feet, for the Rev. J. O. Drapeau, curate of St. Jean Evangeliste, to cost about \$3,400, and for another presbytery, 36 x 32 feet, for the Rev. J. Amoit, curate of St. Valerien, Temiscouata County, to cost about \$3,500. All the above buildings to be frame work with inside finish in wood. The Road committee of the City Council are said to have adopted plans for the erection of the new City Hall and resolved to call for tenders immediately.

LONDON, ONT.—The following building permits have been granted by the City Engineer: James Lang, Horton st., brick residence, cost \$1,000; W. H. Wooley, Dundas street, frame store and dwelling; Dundas Street Methodist Church, frame mission hall on Hill street; A. Willis, King street, erection of a brick residence and alterations to residence. The Ontario Government has been asked to grant authority to the City Council to issue debentures to the amount of \$50,000 for the extension of the waterworks. Consideration has been promised by the Government.

HAMILTON, ONT.—Surveying has been commenced between Hamilton and Grand River with the object of building a canal between the two points, and utilizing the water of Grand river for power purposes. A. C. E. Few, Royal Hotel, this city, is one of the promoters. The trustees of the Heikmer street Baptist church have purchased a lot at the corner of Locke and Melbourne streets, and will probably erect a new church next spring. The following building permits have been granted: W. A. Edwards, two-storey bk. dwelling on East avenue, cost \$1,200, similar dwelling on Catharine street, cost \$2,000; Thomas Allen, two bk. dwellings on Morden street, between Locke and Peat streets, cost \$2,400; John Faulkner, two-storey bk. dwelling corner Queen and Bold streets, cost \$1,100.

MONTREAL, QUE.—Joseph Jacob, of St. Henri, is about to erect twelve residences on St. Denis street, near Sherbrooke street, plans for which were prepared by Theo. Daoust, architect. The Property Committee of the Protestant Board of School Commissioners has recommended that the old school on Sherbrooke street be sold and a more commodious building erected on another site. The matter is under consideration by the Board. The city have been granted an extension of six months by the C. P. R. authorities to prepare the site for the proposed East End station. Work on the new building will be commenced next May. The structure has to be completed by 1st May, 1896. At the annual meeting of the Canadian Society of Civil Engineers held in this city a fortnight ago, the question of erecting a new building to meet the requirements of the Society was discussed. Some of the members favored the enlargement of the present building. It was resolved to call a special meeting of the Council to appoint a committee to report on the matter. C. E. Fournier, architect, has prepared plans for a two storey front cottage at Saulx au Recollet, Que. The City Surveyor has reported to Council that it will require \$10,000 to repair the roadway and sidewalks on St. James street, and \$24,000 to pave and macadamize Jacques Cartier square. The committee appointed to select a site for the Chénier monument have recommended that it be erected on the south-west side of Viger square.

TORONTO, ONT.—The Court of Revision last week confirmed the assessments for an asphalt pavement and granolithic sidewalks on Leader lane, from King street to Colborne street, and for a block pavement on Bloor street, west of Spadina avenue. Committees have been appointed by the various Masonic lodges of the city to consider the advisability of erecting a building for the exclusive use of the fraternity. The Toronto Ferry Co. are inviting proposals for the lease of the

hotel proposed to be erected on Toronto Island by the company this winter. The plans are on view at the office of A. R. Denison, architect, 20 King street west. The Toronto Street Railway Company have purchased the building at present occupied by the company at the north-west corner of King and Church streets. It is the intention to enlarge and improve the building at once to meet the demands of their increased business. At a meeting of the Board of Works held on Monday last, the recommendation of the City Engineer for an asphalt pavement on McCaul street, at a cost of \$30,000, was adopted. The sum of \$3,750 was voted for the purchase of a steam road roller. It was decided to call for tenders for the widening of the Queen street subway, in order that the exact cost of the work may be known before settling the claims for land damages. Building permits have been granted as follows: A. W. Smith, additions and alterations to 7 Front st. e., cost \$4,000; H. Langlois, det. 2 story and attic bk. dwelling, 149 Rusholme rd., cost \$4,500; Anson Jones, det. 2 story and attic bk. dwelling, n. e. cor Sherbourne and Howard st., cost \$5,000.

OTTAWA, ONT.—The congregation of St. Andrew's church contemplate the erection of a Sunday-school building, and have accepted the plans of Messrs. Gregg & Gregg, architects, of Toronto. W. P. Anderson, chief engineer of the marine department, has just completed the work of surveying Lake Nipissing with a view to placing buoys and light-houses, and has reported that 16 buoys and several lighthouses, including a large one on the Manitou island, will be required. It is understood that Mr. Coste, engineer of public works, will visit North Bay at an early date with regard to improvements to the docks. Application will be made to Parliament next session to incorporate a company to build a railway from Quebec to Norway House, north of Lake Winnipeg, thence to Fort Simpson on the Pacific coast, with power to construct a branch from Montreal to the main line north of Montreal, and a branch from the main line at Pine Island lake, west of Lake Winnipeg, to a deep water Harbor on Hudson bay. The O. A. & P. S. railway engineers are surveying the line from Long Lake to Elmsdale on the Northern railway and have already located twenty miles. It is expected that the contracts will be given out this fall for the sixty miles between Long Lake and Elmsdale, and that the work will be gone on with during the winter on the rock cuts. Negotiations have been in progress for the past week for the establishment of a large factory in this city for the production of porcelain ware, carbons and electrical supplies. The plans of the company comprise the erection of a two-storey building, having two kilns for burning carbons and several workshops. A well-known electrical man is said to have been engaged as manager. The names of those interested have not yet been made known. The Lorne bridge at Wellington, up the Rideau canal, is to be rebuilt this winter. The piers are to be of wood and the superstructure of iron. The bridge will be built 300 feet in length.

FIRES.

The residence of R. P. F. Souer, at St. Boniface, Man., was destroyed by fire last week. Loss, \$2,000. A dwelling house at Paisley, Ont., owned by Mrs. Thomas Kerr, was burned recently. L. G. Holder & Co., machinists, and Chas. W. Seegee, builder, St. John, N. B., have been burned out. The former was insured for \$1,000, and the latter for \$4,600. Smith's roller flour mills at Jarvis, Ont., were destroyed by fire on the 11th inst. The loss will reach \$10,000, half of which is covered by insurance. Joseph Martin's grain elevator at Portage la Prairie, Man., has been burned. Loss, \$7,000; partially insured. W. H. Manning's new residence at Coldwater, Ont., was totally destroyed by fire last week. Loss, \$6,000; insurance, \$1,500. The large residence of J. C. Griffith, at Walkerton, Ont., was burned

on the 9th inst. It was valued at \$8,000. The Buckingham Mfg. Co.'s pulp mill at Buckingham, Que., was burned recently.

CONTRACTS AWARDED.

MONTREAL, QUE.—Warden King & Son have secured the contract for three furnaces for the city hall.

COLLINGWOOD, ONT.—The contract for building a large brick stable for Mr. Cook, 66 x 30 feet in size, has been let to Andrew Vietch.

NIAGARA FALLS, ONT.—The contract for the new St. Patrick's church has been awarded to Weale & Brakie, of Welland. Contract price, \$20,000.

FREDERICTON, N. B.—D. Holland, of Moncton, N. B., has secured the contract for roofing the Parliament buildings here with sparham cement.

LUNenburg, N. S.—The contract for building the new Academy building in this town has been let to Mr. Treen, of North Sydney, C. B., the price being \$23,000.

HALIFAX, N. S.—The contract to heat with hot water the new Roman Catholic theological seminary on Quimpool road, has been awarded to Power & Co., of this city. The contract price is over \$4,000.

BRIDGEPORT, N. S.—Mr. Falconer, of Hopewell, has been given a contract by the Dominion Coal Company to build ten dwelling houses here. Mr. Falconer also has a contract to build a church and manse at this place.

TORONTO, ONT.—The Parks and Gardens Committee of the City Council have accepted the tender of Doty Bros. for dredging the lagoons at Island Park, at 11 cents per cubic yard, and for levelling the material at 7 cents per yard. The work will cost about \$6,480. A. J. Brown has been awarded the contract for stone foundations and piers for the new bridge across the lagoon, at the tender of \$2,949.

QUEBEC, QUE.—D. Ouellet, architect, has awarded a contract to Mr. Jos. St. Hilaire for the construction of a new church and vestry in the parish of St. Germaine du Lac Etchinin, (Dorchester). amount of contract \$15,200. He has also awarded the contract for the erection of a tower and steeple for the church of St. Joachim (Montmorency) to Mr. Emile Cote, at the following prices: masonry, \$1,300; wood work, galvanized roof of steeple, painting, etc., \$1,440.

LONDON, ONT.—The Free Library Board has accepted the following tenders for the erection of the proposed library building: J. Purdon, woodwork, \$3,795; Simpson & Murray, brickwork, \$4,131; R. Gash, plastering, \$365; A. J. Greenaway & Co., plumbing, \$156; J. Brockest, galvanized iron, \$202; H. & C. Colerick, painting and glazing, \$907; J. Nobbs, cut stone, \$1,070; A. J. Greenaway, wiring, \$124; G. Riddle, red slate roof, \$1,300; H. J. Boyd, furnace, \$392; total \$12,451. With the exception of the furnaces, the lowest tender was accepted in each case.

MUNICIPAL DEPARTMENT.

CAST-IRON WATER PIPES.

Some practical and experienced judges express the opinion that as compared with steel, the days of cast-iron water pipes are nearing an end; representing, as they must be regarded, too much dead weight for too little strength; it is asserted, in fact, that able engineers long ago reached the conclusion that the most costly and least satisfactory way of protecting iron against oxidation is with mere bulk of its own substance, and those most concerned in the future of cast-iron pipe admit that it is destined soon to take its place among the materials forced into disuse by the progress of the arts. For high pressures the ideal conduit is claimed by many to be a welded steel tube. Such tubes could probably, it is thought, be subjected to a tensile strain of 25,000 pounds with entire safety, and its preference to riveted pipe would be based not only on the fact of

superior strength, but on the very desirable quality of almost perfect interior smoothness. It is further argued that the adaptation of a superior and cheap metal, such as milled steel, for conduits will permit the construction of hydraulic works in many parts of the world where it now seems impracticable.

METHODS OF GROUTING WOOD PAVEMENTS.

CEMENT GROUT.—Requires a joint at least $\frac{1}{4}$ in. wide; this eventually causes the formation of a "corduroy" road, as the edges of the courses get bruised, and the result is a noisy road and the life of the blocks is reduced.

The material, being rigid, is incapable of compensating for expansion or contraction in the blocks, and all expansion is transmitted to the channels, displacing the kerb and footways, or requiring the cutting out of the whole or part of the channel course. This action happens repeatedly, and involves considerable expense in labor and material.

There is invariably an irregular joint next the kerb, and by reason of wheels running on the edge of the channel course the wood is bruised and the rut is formed.

As the blocks shrink when dry they become loose in the jointing material, the pavement is no longer impervious, grit fills the open joints, and on expansion again occurring the pressure on the kerb is repeated. There is also the injurious effect of moisture on the blocks.

Cement grout joints require to be left a week to set, or will be disintegrated by traffic. This involves a road being closed a week longer than the time required for the execution of the work.

Cement grout joints may be run in any weather.

PITCH GROUT.—Allows joints to be reduced to 1-10 in. wide, and in case of soft wood the blocks may be in close contact, so preventing the spread of the fibre and preserving a smooth surface, and the full life of the wood is made available.

Being more or less elastic the joint absorbs expansion and gives way to the contraction of the blocks, so that no movement is transferred to the channels, no pressure brought to bear against the kerb to cause its displacement.

The joint next the kerb does not alter from the time of the first completion of the work.

The pavement is always impervious, and the pitch joints preserve the blocks.

Traffic may be turned on to the work immediately the joints are run.

Pitch blocks can only be properly made on dry material, and in wet weather it is necessary to cover the blocks with tarpaulins.

B. J. Saunders, C. E., has been appointed engineer of Brockville, Ont.

DEBENTURES WANTED.

Municipalities issuing debentures, no matter for what purpose, will find a ready purchaser by applying to G. A. STIMSON, 9 Toronto Street, Toronto, N. B.—Money to loan at lowest rates on first mortgage.

D. BAER & CO.

BUILDERS OF THE

... Bear Patent ...

COMBINATION - BRIDGE DOON, ONT.

All communications promptly answered.

Municipal Officers, Contractors and others are requested to mention the CONTRACT RECORD when corresponding with advertisers.

Paving Granite

Granite Sets for Street Paving.

CURBING cut to any shape ordered. Quarries, St. Philippe d'Argenteuil, P. Q.

Address all communications to

JOS. BRUNET - COTE DES NEIGES, MONTREAL