

CALENDAR.											
1890				1890				1890			
Jan.	Tue.	Wed.	Thu.	May	Sat.	Sun.	Mon.	Sept.	Tue.	Wed.	Thu.
1	2	3	4	1	2	3	4	1	2	3	4
5	6	7	8	5	6	7	8	5	6	7	8
9	10	11	12	9	10	11	12	9	10	11	12
13	14	15	16	13	14	15	16	13	14	15	16
17	18	19	20	17	18	19	20	17	18	19	20
21	22	23	24	21	22	23	24	21	22	23	24
25	26	27	28	25	26	27	28	25	26	27	28
29	30	31		29	30	31		29	30	31	
31											

# CONTRACTS

## CONTRACTS OPEN.

**BEALTON, ONT.**—The Methodists will erect a new church.

**COMBER, ONT.**—A new brick block will be built this summer.

**MIDLAND, ONT.**—The Presbyterians have decided to build a manse.

**STANLEYVILLE, ONT.**—The Catholics are about to build a new church.

**DEHLI, ONT.**—A new Presbyterian church is to be erected this summer.

**WAVERLY, ONT.**—St. John's Parish are collecting funds for a new church.

**OTTAWA, ONT.**—Tenders are asked for the construction of an electric street railway.

**ELORA, ONT.**—Money is being subscribed for the erection of a tower for St. John's Church.

**ORILLIA, ONT.**—Mr. Croker invites tenders for the erection of two brick school houses in Section No. 1 South Orillia.

**DARTMOUTH, N. S.**—The sum of \$122,000 is to be borrowed for the establishment of a ferry and school purposes.

**WOLSELY, N. W. T.**—Tenders will be asked for the erection of a stone or concrete school building to cost about \$2,000.

**BRANTFORD, ONT.**—Tenders are wanted for the erection of a telegraphic fire alarm system. Address Chairman Fire, Light and Sewers Committee of the council.

**SMITH'S FALLS, ONT.**—Subscriptions are being asked by the Anglican clergy towards the erection of a permanent residence for the Bishop, to cost about \$12,000.

**GANANOQUE, ONT.**—Mr. Willis Chipman has at the request of the council reported on the cost of a water-works system. His estimate is \$43,000; or \$19,000 for fire purposes only.

**PORTAGE LA PRAIRIE, MAN.**—E. F. Hutchins, of Winnipeg, will build a brick block.—The N. P. and M. Railway Co. will erect a brick depot.—The Bank of Montreal will build a business block.

**WINCHESTER, ONT.**—W. L. Pahner, Secretary Citizen's Committee, asks tenders for furnishing 30 incandescent lamps, 16 c. p. and 20 lamps, 32 c. p. and the necessary generating plant to be run by purchasers.

**MONTREAL, QUE.**—The water committee has been given an appropriation of \$181,000 for pipes and pipe laying.—The plans of Messrs. Power & Son, architects, Kingston, Ont., for the enlargement of Dominion Square Methodist church, have been accepted, and tenders will be asked for the work.

**LONDON, ONT.**—By-laws have been passed giving \$40,000 to the school board for building purposes, issuing debentures for \$130,000 for extension of water mains.—Plans have been accepted for additions to St. Paul's Cathedral to cost about \$35,000. Work will be commenced as soon as sufficient funds are available.—It has been decided to re-seat St. John's Church, put in a furnace and insert stained glass windows.

**WINNIPEG, MAN.**—A by-law appropriating \$30,000 for buildings, etc., for a Provincial Exhibition will be submitted to a vote of the ratepayers on July 9th.—An electric railway is proposed for Fort Rouge.—The Y. M. C. A. have purchased a lot at the corner of Smith street and Portage avenue on which to erect a new building.—A committee has been appointed to secure information as to designs suitable for the proposed exhibition buildings.

**TORONTO, ONT.**—It is the intention of the Safety Barb Wire Company to erect steel and wire mills in this vicinity.—The City Engineer recommends the construction of sewers on the following streets: Drummond place, Jemima street, Perth avenue, Richmond street and Jordan street.—New tenders will be asked for the erection of a conservatory at the Horti-

cultural Gardens.—The Academy of Music is to be refurbished.—The following building permits have been issued: Jewell & Kinnear, additions to 60 Colborne st., cost \$2,500; J. C. Noble, pr. one-storey dwells., Sydenham st., cost \$12,000; Disciples of Christ church, cor. Spadina ave. and Cecil st.; Munes & Booth, 2 storey and attic dwelling, Jameson ave., cost \$5,000.

## CONTRACTS AWARDED.

**WINDSOR, ONT.**—The contract for the first ward school has been awarded to Sutherland & Co., for \$13,977.

**BOWMANVILLE, ONT.**—Mr. John Gand has secured the contract for the new Disciple Church, for the sum of \$4,100.

**LONDON, ONT.**—Mr. James Drummond has been given the contract for block paving Maitland street at \$1.73 per yard.—The contract for stone paving Queen's ave. has been given to G. Powell & Sons, at 22 cents per square foot.

**ST. THOMAS, ONT.**—Cowan & Co., of Galt, have been given the contract for boilers, etc., for the new water works pumping station. The contracts for the erection of the necessary buildings were awarded to Messrs. Jas. Finney, W. P. O'Donnell, W. Davis and John Riddell.

**W. TORONTO JUNCTION.**—The Board of Works recommend the acceptance of the tender of the Dominion Bridge Co., of Montreal, amounting to \$10,250, for the iron work necessary for the construction of the Keele St. subway, and the tender of Mr. Barnabas Gibson, of Toronto, amounting to \$54,772 for excavating and masonry.

## SIZE OF NAILS.

The following table will show any one at a glance the length of the various sizes and the number of nails in a pound; they are rated "3-penny" up to "20-penny." The first column gives the name, the second the length in inches, and the third the number per pound.—

3-penny,	1 inch,	557 nails per lb.
4 "	1 1/4 "	353 " " "
5 "	1 3/8 "	232 " " "
6 "	2 "	167 " " "
7 "	2 1/4 "	141 " " "
8 "	2 1/2 "	101 " " "
10 "	2 3/4 "	98 " " "
12 "	3 "	54 " " "
20 "	3 1/2 "	34 " " "
Spikes	4 "	16 " " "
"	4 1/2 "	12 " " "
"	5 "	10 " " "
"	6 "	7 " " "
"	7 "	5 " " "

From this table an estimate of quality and suitable sizes for any job can be easily made.

## PAINTS THAT PROTECT.

**T**HE Dutch State Railways have recently carried on a series of interesting experiments for the purpose of ascertaining the relative resistance of various pigments to atmospheric changes and to the corrosive action of sea water. The results have proved that the red lead paints are less affected by atmospheric influences than those which are composed of the brown oxides of iron, on account of their adhering more closely to the metal, and of their possession of great elasticity. It was also discovered that any sort of paint afforded an increased protection if the plates were pickled in hydrochloric acid before its application. The prevention of corrosion by salt water was found to be possible by the admixture of the oxide of some electro-positive metal, such as caustic lime and soda; but the efficiency of such a covering diminished when its alkaline properties have been neutralized by the absorption of carbonic acid. Magnesia, however, was proved to be the most serviceable, seeing that it does not absorb carbonic acid; and not only does it protect the iron from galvanic action, but it also does not affect the anti-fouling qualities of the paint.

Silicified wood, which is found in vast quantities in Arizona, is said to be a new material which is coming into use for ornamental, fancy and interior work and house finish, taking the place of marble and slate.