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## JOSEPH ROPER.

Water Street.

# The New

REPORT TO COUNCIL BY ENGIN-EER LONGLEY.

St. John's, Nov. 30th, 1915. Messrs. St. John's Municipal Board,

W. G. Gosling, Esq., Chairman. Dear Sirs,-In compliance with your invitation I came to St. John's the early part of last week to go over the work done during the past year in connection with the improvements to the water supply, and to confer with you and your City Engineer regarding the work still remaining to be done.

Examination of Mains Thus Far Laid. tested.

The new 20-inch mains have now been laid along Rennie's Mill Road work is entirely satisfactory. It has The water leaves Windsor Loke in two from about Winter Avenue, in to Sun- not been feasible to make leakage nyside, thence down King's Road to tests on all of the other pipe thus far through the conduit, and part of it, Duckworth: thence east to about the laid, but the results above reported at times of high water, flows away along New Gower and Hutchings' to time in connection with the waste Streets, from Barter's Hill to Water investigation which you will undoubtctions have been laid between Connections Between Old and New he new main on Duckworth St. and the old small main on Water Street. The 10 inch has been laid on Water mished, and a number of other small mains, 8 inch and 6 inch have been

no way for me to make any actual ex- gineer, and have left with him ceramination of the work done. It is tain sketches showing the locations gives an indication of the quality of made a schedule of valves and specthe work. Such an examination was lials to cover same. made several days ago.

About eight thousand feet of the 20 inch and 16 inch mains, with sevral hundred feet of 8 inch branches

The

tion of your order.

Place your order now.

Christmas

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service, and all-round satisfactory execu-

Pictures and Photographs are always acceptable as Christmas Gifts, but their value

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of Mouldings in all the newest designs, we employ experts who know the framing business from A to Z, and we charge prices that are unquestionably the most moderate to be found anywhere for first class work.

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was put under a pressure of about 75 lbs. per square inch. The leakage was somewhat, and that the total quantity Water System. measured by means of the new Venturi meter apparatus for the detecion of waste, and this measurement was checked later under more prefect conditions. The leakage was found to be about two gallons per minute or something less than 3,000 gallons per day, or less than 2,000 gallons per day per mile of pipe. A water distribution system can never be made absolutely tight. Some leakage must always be anticipated under the best conditions. The leakage above mentioned is very low and indicates that the work of laying the new mains has been done with care and thorough ness. The results of the test indicated there were no breaks or other

such defects in the part of the system I consider that the quality of this foot of Signal Hill Road; also west should be a fair indication of the qualalong Duckworth and New Gower ity of all the work. The actual leak- lake and runs into another water shed. from King's Road to Barter's Hill. age of all the other parts of the new The new 16 inch main has been laid system will be determined from time Street. All but two of the 8 inch edly institute when conditions permit- will give a satisfactory record of the

Mains. Owing to the fact that detailed treet West from Hutchings' to about plans for the mains in the city, with R. Tompson's. The 12 inch coning main up Lime Street is partly before the work of construction commenced, this construction has gone forward without making some of the connections between the old system and the new which we would have This work has been covered in as laid out. I have been over this matprogressed and therefore there is ter in some detail with the City Enpossible, however, to examine a large and general arrangement of the conpart of these mains for leakage, which nections we have made, and have

Done.

The work still remaining to be done

struction of the new intake, Venturi Water Street of 123 lbs.

will probably be about \$28,450. The estimated cost of the intake. Venturi meter, and connection to staff on the wharf. George's Pond, as stated in my report of last year was \$15,000. At the

present time I do not see any reason

for altering these estimates. The total of the above items is \$43,- as it was without the new mains. 450 to which an addition of 10 per cent, should be made to cover the cost of engineering and contigencies. The total amount that will probably be required to complete the work will therefore be about \$47,800.

Suppression of Waste.

the Water Department can engage in, aside from the completion of the work above outlined is the suppres sion of waste. Unfortunately systematic records of the water pressures in peen kent the past year, and there is therefore, no evidence of that sort to set forth to show whatever benefit may have resulted from the efforts that have thus far been made to elminate waste. Nevertheless there seem to be some decided indications that the waste has been reduced of water flowing into the city is less than it was a year ago. A recent 24hour record on the weir at the basin. showed a daily rate of 4.8 mil. gallons, against an average rate during the week's test last year of 5.3 mil. gallons per day. The city has now the equipment to go ahead in an efficient reduction and the City Engineer and his staff are now quite familiar with the methods of doing this, and the work should be begun systematically

as soon as conditions permit. Measurements at Windsor Lake.

At some time in the future the question of the available yield of present time the records of flow from this water shed are very imperfect. directions. Part of it flows to the city There are no satisfactory records of the flow at either of these points. The construction of the Venturi meter included in the estimates already made. record of the flow over the dam the relation between the crest of the dam Rev. J. J. White guage height at the easterly end should be definitely and accurately established by careful observations with tablished by careful observations with an instrument at some favourable time when the lake is perfectly brought from Champneys and placed smooth. This should be repeated for in the Mortuary Chapel here, where it en as far as possible without interfer-Estimated Cost of Work Still to be Careful records of this sort will be found of great value in the future.

with fire streams, to show the improvement in conditions along Water

front of the new cable office at 3.30

p.m. was 112 lbs. Eleven lines of fire hose were laid out from various hydrants extending from Shea's on the East to Job's Cove on the West, taking in several hydrants along Water Street, one on Duckworth Street at the foot of King's Road, and two on Harvey's wharf, and Attorney General. Road, and two on Harvey's wharf.

The total length of hose in use in connection with these eleven streams was herbert Mundy, Governor Glover's

was turned on through these eleven lines of fire hose. From 3.35 to 3.43 p.m. the pressure on Water Street with these eleven streams flowing averaged about 45 lbs. having dropped from 112 lbs. Under these conditions the fire streams were noticeably week that the fire streams were noticeably week that the fire streams were noticeably week. the fire streams were noticeably weak, in 1891.

In 1898 two children were burnt in one man on the nozzle could easily in Hiscock's house, at Chamberlain's.

Finest Quality P. E. I. BUTTER

All but four of the streams were pressure on Water Street rising again | black velvet. to an average of 90 lbs., which gave | High stocks and jabots combined streams of very good volume and are found among the newest neck

includes principally the laying of sev- At 4.05 p.m., the valves connecting eral thousand feet of pipe already the new main with the old were openpurchased and on hand, and the con- ed. This gave gave a pressure on

neter, and connection with George's A few minutes later the eleven fire The cost of the laying of the streams were turned on as before. emainder of the pipe has been pre- With those streams flowing the pres dicated upon the costs of the work sure on Water Street between 4.17 done this year with certain modifications which in my judgment seem over 80 lbs.. The fire streams were prudent. On this basis the cost of the good, strong streams. It took two pipe work still remaining to be done men to handle each nozzle. One of men to handle each nozzle. One of the streams at King's Wharf carried some distance over the top of the flag staff on the wharf.

The Home Dressmaker should keep a Catalogue Scrap Book of our Pat-tern Cuts. These will be found very useful to refer to from time to time.

The pressure on Water Street with eleven fire streams running is therefore nearly twice as great with the new mains connected into the system The pressure lost in the old system is much greater than in the new. In the new system eleven fire streams cause a loss of 35 per cent. of the

pressure on Water Street, while in the old system eleven streams cause a loss of 60 per cent, of the pressure on Water Street. The margin of saf-The most important activity that ety with the new system is therefore much greater than with the old

This morning another test almost identical with the one above describ ed was made and a careful inspec tion of the nozzles made to be sure different parts of the city have not that they were not obstructed. The

With the old system in service the pressure was 112 lbs. per square inch at the hydrant in front of the new cable office. The eleven fire streams drew this pressure down to an aver age of 37 lbs. which gave very poor went to 122 lbs., and after the eleven fire streams were again turned on the pressure dropped to about 70 lbs.

The detailed results of to-day's test vary somewhat from the results of the earlier test. The percentage of pressure used up by the eleven fire manner with the campaign of waste streams being slightly greater for for this style. The facings may be both the old and the new systems. The omitted. The apron is cut in kimono relative results, however, are very much the same. The pressure lost in the new system is 43 per cent of the the new system is 43 per cent. of the linene, sateen or alpaca. The Pattern total, whereas the pressure lost in the is cut in 3 sizes-Small, Medium and old system is 67 per cent. of the to- Large. It requires 6% yards of 36

> These results indicate a very satisto any address on receipt of 10c, in factory improvement in the service silver or stamps. for the work thus far completed, and the city will be in a better position this winter than for many years past in the matter of fire protection.

Very truly yours,

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An Inkwell that is Dust and Airproof, and that will save 75% of your Ink expenditure. Saves its cost in six months. For sale at the Office Supply Store, City Club Corner. Why

PERCIE JOHNSON.

# Laid to Rest.

the purpose of checking. Headings should then be taken on this guage there was a Requiem Celebration in once a day. The guage should be so the Mortuary Chapel, at which Rural arranged that the readings can be takbrother of the deceased was also preence from wave action or loss of head sent. At 2.45 p.m. a great concourse through the conduit, so that they will of citizens assembled, and met Rev. represent accurately the height of water going over the crest of the dam.

Carroll records of this sort will be din procession to the Cemetery ed in procession to the Cemetery where the Rev. J. J. White was quietly laid to rest. The church erowded with sympathizing friends of all classes and creeds, which testified A test was made several days ago to the high esteem in which the deceased was held in this his native town. The bearers were men from the Parish of the deceased gentleman and the Burial Service was taken by der. It is made with a panel front, street, after connecting the new mains into the system.

At and before 3.30 p.m. that day the old system was in use and the old conditions existed, excepting that the 10-inch main on Prescott Street was opened into the 6 inch main on Water Street as is usual in the case of a fire on Water Street to give the best possible there.

The pressure at the hydrant in front street of the new mains and the Burial Service was taken by Rev. A. Pittman, R.D., and Rev. H. V. Whitehouse. Rev. J. J. White was well and popularly known throughout the Island, having been Incumbent of Hr. Grace South, Brigus, New Harbor, Hering Neck and Champneys. He was an able and eloquent preacher and his many friends will hear of his death with sincere regret. To the sorrowing widow and children and relatives the Enterprise extends profound sympathy.—Trinity Enterprise.

### **Anniversaries of Notable Events.**

DECEMBER 13.

The Greene (Liberal) Ministry Address in full:—formed 1894; D. J. Greene Premier

two thousand four hundred and fifty Secretary here, suicided by shooting feet. Shortly after 3.30 p.m. the water of the Poor, 1874.

An overskirt of silver lace gives then shut off. This resulted in the wonderful charm to a dinner frock of

# Telegram



Figured Percale in blue and white, with facings of white linene, was used A pattern of this illustration mailed

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Feathers, Tips, Wings, etc.,

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Hams and Bacon Bacon in Glass. English Cheese. Ox Tongue-Glass. Lamb's Tongue-Glass. Greengages.

Pineapple Sliced. Apricots, Peaches. Pears. Red & White. Raspberries. Strawberries. Cherries, Plums.

FRUITS IN GLASS. Oxford Sausages. Black Leister Queen Olives. Ripe California Olives. Lea & Perrin's Sauce Yorkshire Relish. Tomato Catsup.

Italian Tomatoes, Tomatoes in Glass.

Crystalized Cherries.

Glace Cherries.

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XMAS. NOVELTIES, CRACKERS, STOCKINGS. NON-ALCOHOLIC WINES-Kop's & Nogarth's.
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