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IMPROVEMENTS ROAD

Town Engineer's Report

Engineer's Office, Invercargill, September 7, 1920.

TO HIS WORSHIP THE MAYOR AND COUNCILLORS:-

Gentlemen,-Acting on instructions from the Works Committee, I beg to submit the following report and estimates of cost for improving the condition of a portion of the town streets, and the two arterial roadways leading into the town, work rendered necessary owing to the change in the class of vehicle now in general

The streets proposed to be improved and defined by the Works Committee are apart from the arterial roads situated within the town area between and including Gala and Wood streets and Leven and Deveron streets, also Tay street to the Eastern boundary of the Borough, and Dee street to the Waihopai Bridge.

In recommending the best form of construction to be adopted in connection with these streets, the difficulty encountered is to estimate what the future traffic conditions will be, more particularly in regard to axle loads. The rapid development that has taken place in the adoption of motor driven commercial vehicles, carrying heavy loads at high speeds, and with every prospect of these conditions being increased, tends to complicate the roading problem, as a modern roadway at moderate cost, that will prove quite satisfactory under present conditions, will be a fairure if it has to withstand the heavy vibrations that will be set up if the loading is increased. The experience in some towns has proved that an improvement in the thoroughfares has almost immediately resulted in a corresponding increase in the carrying capacity of motor waggons and vans, with the result that a further expenditure has been necessary to still further strengthen the roads to meet these new conditions of traffic.

The correct method to adopt would, no doubt, be to construct the road; v of sufflicent strength to meet anticipated future conditions. Although this method .nay be adopted in cities with a large revenue, it is beyond the means of smaller communities and in preparing my estimates I have provided for substantial construction on those thoroughfares at present known to be subject to heavy traffic and varied the construction on other streets to meet present conditions. This principle may lead to heavier maintenance charges, but against this we have the comforts of a greater length of improved roadway, a reduction in the wear and tear on motor tyres, and the dust nuisance greatly reduced, than if only limited lengths of the more expensive construction are carried out.

Regarding the annual charges which will have to be paid in connection with the cost of carrying out the works provided for in the estimate. It is safe to assume that within the next year or two all motor driven vehicles will be taxed. and that the revenue from this source will greatly assist in paying interest and other charges on the expenditure. Apart from this it is now generally admitted that the day of the water-bound macadam road is past, and some more permanent form of roadway must be constructed to meet the changed conditions of traffic; and so long as the present class of roadway remains in existence so much longer will the country continue to send tens of thousands of pounds out of the country for motor tyres and such like. The greater proportion of this sum could be saved to the community by providing more permanent roads, which would be a benefit to all instead as at present being a drain on the financial resources of the country.

Regarding the proposed new construction If it had not been for the fact that the Corporation own the tar, and, that there is a difficulty in disposing of it, I would have strongly recommended the adoption of one of the South American natural bitumen products in place of tar. It has been definitely proved by practical experience that bitumen used as a road binder provides a more satisfactory road with a longer life, and less maintenance than can be obtained with tar; particularly so in a wet climate, and, apart from this, bitumen, due to its quick setting nature permits of a roadway being open-

ed for traffic immediately the new surface is laid without risk of damage.

No provision is made in the estimates for dealing with the remaining fifty-one miles of streets in the Borough. But in regard to these I would advise that they be taken in their order, according to traffic they carry, and put in good repair during the autumn and winter months. and in the late spring, after rolling and bruising with hard brooms the surface to be tarred and sanded.

In regard to surface tarring the success or otherwise of this form of road surface treatment depends entirely on the weather conditions. The roadway must be dry, and the weather fine for at least twentyfour hours after the tar is spread. A wet road in the first case, or rain too soon after laying the tar, it can be taken for granted that the work will not be a

Regarding future maintenance, provision must be made for farring and sanding all tarred roadways every year, and not less than every other year, for tarred macadam surfaces.

Regarding concrete roadways the maintenance on these will consist of a thin coating of bitumen and sand every sec-ond or third year, according to the amount of traffic the roadway carries; but. allowing for this, the annual charges under this head will be considered lighter than on an ordinary water bound macadam road carrying the same class of traffic.

> Yours faithfully, (Signed) G. F. CLAPCOTT. Town Engineer.

I am,

IMPROVEMENTS OF STREETS. - ESTIMATES.

TAR, MACADAM AND CONCRETE ON STREETS IN TOWN BLOCKS.

-Tar Sprayed Roads .--

Gala street, Leet street, Deveron street, £3,100.

-Tar Macadam, -

Yarrow street, Don street (3in tarred); Esk street, (macadam); Tay street, Crescent (Carpeting); Tay street shrdluuuu cent. Tay street, Kelvin street, Dee street, Dec street, East Road (carpeting on existing road surface), £40,811.

-Concrete and Tar Macadam .-

Spey street (centre concrete, flanks macadam); Leven street (flanks macadam); North Road (flanks concrete), £23,167.

---Heavy Bitumen Macadam.--

Wood street, £2, 093.

Contingencies five per cent. £3,458 10s. Total £72,629 10a.

Estimated cost as per schedule £72,629 10s Plant, etc. £1,250; cost of raising loan £750; total cost £74,629 10s.

Total cost say—£74,700; 1st year's interest and sinking fund 72 per cent. £5,602 10s. Total estimate £80,302 10s.

CARDEN NOTES

THE VEGETABLE GARDEN.

This month is a very busy one in the vegetable garden, as almost every kind of vegetable seed may be sown.

Make successive sowings of peas where early-sown ones are well in

Sow also French and runner beans on a warm and sunny piece of ground, but if the position is a cool one defer sowing for a week or so.

Sow parsinps. For these the ground should not be too rich with fresh manure, nor should it be too loose, In either case they are likely to form side roots, which is a bad point in them. They like good ground, but it should be moderately firm. Sow thinly in drills 12in apart, and thin them to 4in or 5in in the row.

Spring-sown onions require to be put in rich ground. If the ground has been dug and manured in the winter, so much the better; if not, lose no time in trenching or deeply digging the ground. Place good rotted manure well down, and, if possible,

spread wood ashes or burnt soil on the ground, working it well in. Tread and rake the ground two or three times over until the bed is as smooth as a table, then sow the seeds in drills. Sow very shallow -in will do-and 12in between the rows, covering the seed very carefully. I may here tell you that sowing onions on loose ground, and also sowing them too deep, means long necky things like leeks, instead of fine tubers which one might be proud of.

Sow carrots of the Early Horn type, and in a fortnight or so sow the main crop -that is, the Intermediate.

Turnips, spinach, and lettuce should also be got in, choosing a sunny day after a good rain for this and all seed sowing.

Plant cabbage and cauliflower as soon as possible after or during showery weather.

Seakale should now be ready for covering with pans or boxes to come in after those that have been lifted for forcing.

Asparagus—a very fine vegetable—will grow on any soil that is well cultivated. but that which suits it best is a rich sandy loam. It may be grown from seed sown in drills 18in apart, and thinned out to 15in in the drills. In this case it will not be fit for cutting in less than three years. The best variety to get is the Giant French. But to have asparagus the second year and for many years from the same bed it is best to prepare a bed or beds in a proper way. Open out trenches 3ft wide and 18in deep. Fill in the bottom 6in with broken bricks. Cover these with manure. Place some soft over this. Get the two-year-old plants, and place one row up the centre, and one on either side, 6in from the outer edge, spreading out their roots evenly all round. Cover with 4in to 6in of soil. The heavier the soil the shallower they should be planted. A dressing of fresh stable manure should be added in two or three weeks' time. This is the best of all seasons for making a bed of asparagus, just as the crowns are on the move in the spring.

Where marrows, pumpkins, tomatoes, and cucumbers are required no time should be lost in getting them in. If possible, give them a nice warm bed to start them on. A hot-bed is easily made if good stable manure be available. For a good double light frame, three loads will not be too much for a good, lasting cucumber bed. A hot-bed is very useful not only for the production of a good crop of cucumbers, but for bringing on the above-mentioned seeds, and also for starting nearly all kinds of tender annuals. It often occurs that old seeds germinate fairly well on a nice warm bed where they would fail if sown without bottom

TOMATOES.

The season for planting this appetising and refreshing fruit is now around again. There are one or two points of interest that I should like to draw attention to. Do not be in too great a hurry to plant out unless you are pretty sure that in your house you will be able to keep a fairly warm temperature during very cold changes in the weather. If you have heat, well and good. If you are placed in a position where late frost is not likely to affect the temperature much, is is all right. But if these conditions cannot be assured, take my advice and hold over the planting for a week or two yet. Buy good strong stordy plants. It is a waste of money, time, and labour to plant weakly drawn plants, as it is ten chances to one that they will not grow or will make a very poor return even if they do grow. If a plant measures as much across—that is, from tip to tip-as it is long, you may be sure it is not drawn and that it is all right. The tomato is a tender plant, but not a tropical plant, and it requires a moderately high temperature, free access of air, and, above all, a full flow of solar light to bring it to perfection. Almost any house or any shaped house will grow them where these conditions can be secured, and if the soil has been prepared as advised in my previous notes, nothing will be required but to give it a raking down and a good treading before planting. On no account plant in loose soil. Place the plants well down to make them firm and steady. From 12in to 15in in the row and 2ft 6in from row to row will be a good distance apart.

appreciative journal; in a recent edition the following heading appeared to a paragraph which indicated that the Session was half over :-- "The Session's Work," "Real Business to Begin." If real business is just beginning now that the Session is half over, we're wondering what they were doing during the previous half of the session. No wonder Adam Hamilton has been

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