Depreciation at 5 p. c.

MUNICIPA DEPARTMENT

A MUNICIPAL ASPHALT PLANT. (Continued from last week.)

It appears from the second foot-note to the table that the item entered under 1900 as maintenance should charged, in part, to capital. Like-wise, it is probable that a portion of the outlay for tools in each year should be so charged. In making up the figures presented below we have charged half of each of these three items to capital. Another charge items to capital. Another charge against capital is the new steam roller. This cost \$3,500, but we are informed that it is used more on macadam than on asphalt work, and that adam than on asphalt work, and that only one-third should be charged to the asphalt capital account. The teaming having been done by the hour it may be assumed that all the charges under that head are included in the 40 cents per hour, already mentioned. We may now attempt to determine at least some of the items that should be added to the figures already given as the cost of material and labor for asphalt paying in 1800 and 1900, in or sphalt paying in 1800 and 1900, in or

as the cost of inactival and 1900, in or-der to compare municipal and con-tract costs. The true capital account is first given, then the various items of current expense, as follows:

Capital Account-

1899-Original cost\$12,322	
1/2 cost of road roller. 1,200	
½ cost of tools 131	
\$13,653	
) eation at 5 p.c. 682	
\$12,0	
Maintenance, operation and capital charg	Çes
Maintenance \$ 568	
1/2 tools 131	
Interest at 4 p. c. on ,	
\$13.653 546	
Depreciation at 5 p. c.	
on \$13,653 682	
Lost taxes 100	
	
\$ 2,027	

\$	2,027	
Capital Account—		
1900-To balance\$	12,971	
New sheds, etc	733	
½ tools	61	
½ tools		
charge	524	
•	14.289	
Depreciation at 5 p.c	714	G
		\$13.575
Maiutenance, operation and % old maintenance	capitai	charges
	524	
charge	524 60	
½ tools	0.0	
Interest at 4 p. c. on		
\$14,289	572	

DEBENTURES

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011 \$14,2601 714	
Lost taxes ico	
Summary and Averages –	
1899—48,843 sq. yds. labor and ma- terial	\$2,000
48.843 sq. y's capital, maintenance, etc	42
Total per sq. ya., 1899	\$2,042
1900-22,064 sq. yds. lab ir and ma-	\$2,064
22,064 sq. yds. capital, main- tenance, etc	89

Total per sq. yd., 1900.... \$2,153 The item of \$100 for lost taxes is The item of \$100 for lost taxes is the approximate amount paid to the city on the plant before its purchase from the former owners. A small rental fee for the land on which the plant stands is included under maintenance. Possibly insurance, if any is carried, is also included under that head. As to the rates of interest and depreciation, we are informed by the city engineer that the city pays 3 1-2 to 4 per cent on its loans and that deof the lowest figure for depreciation its vould have added only some 3 cents per square vard to the figure for depreciation its vould have added only some 3 cents per square vard to the final result of our calculations. our calculations

our calculations.

To the revised figures of \$2.04 per square yard in 1899 and \$2.15 in 1900 our readers may add such items as they think proper for contractor's guarantee and profits and for any contingencies not already considered or for which proper allowance has not been made.

not been made.

It is interesting to note that two of the same contractors offered to lay 52.715 per square yard, respective for 16,800 sq. yds. of the pavement laid by the city in 1899, and that one of theisanme contractors offered to lay

of theisaame contracters offered to lay 28,300 sq. yds. of asphalt, on another street, for \$2.47, after the city had decided to buy the asphalt plant.

In our issue of Feb. 21, 1901, we published a table by Mr. F. V. E. Barde of Buffalo, N.Y., showing the average cost of asphalt pavements in forty-seven cities, for the year 1900. In that table the cost for Winnipeg was given as \$1.79, instead of the \$2.064 cited at the beginning of the article, or the revised figure of \$2.15. The discentification of the second grading and the cost of 3 inches of gravel beneath the concrete foundation, besides some other small charges

tion, besides some other small charges

tion, besides some other small charges. The average reported cost of asphal paving in the forty-seven cities was \$2.29. On making various corrections for differences in local conditions a new average of \$2.41 was secured, but the new figure for Winipeg was reduced from \$1.79 to \$1.76, owing to higher local prices for concrete which more than offset the lesser thickness of concrete foundation and wearingsurface at Winnipeg and also Mr. Baradol's addition of 18 cents to the Winnipeg figures to make up for the lack of the contractor's guarantee for nipeg figures to make up for the lack of the contractor's guarantee for maintenance. The standard for the latter was ten years, which Mr. P dol valued at 18 cents per square yard of pavement. It may be added that the concrete in place at Winipeg cost \$5.7482 per cubic yard, or \$0.7403 per square yard for a depth of 4 1-2 inches. Also that the length of the working day was nine hours.

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