Grinstead Discusses Drainage Question

Salem, Neb., May 25, 1904. channel.

On May 19th, near Wabash, same is 18 feet.

cubic yard.

\$75 per acre.

In Salem township, Richardson miles through the township. S. sarvey, 201/3 miles.

through the township.

1.

much retarded, being very much least 6 feet.

If the river were straightened, may come. making the distance through the

ing of distance can be made by both Burlington bridges as they not to exceed 4 miles of new are now with sufficient capacity channel.

opinion, as follows: to wit: 24 for a period of 15 years. feet wide at the top, 9 feet wide make \$9,000 for the entire aggre- penditure of money. gate length of four miles of new

There are 6,200 acres of over-Indiana, work has begun on a flowed lands tributary to Salem, drainage channel 28 miles in and to be known as Salem drainlength, fellowing the main chan- age district. This at \$2.50 per nel of Grass creek to its confluence acre amounts to \$15,000 in round with Tippecanoe river. The numbers, or an excess of \$6,000, greatest width of this ditch is 75 our cost of channel, with which feet and the least width of the to make two bridges and pay other incidental expenses.

It runs through White and Pu- A tax of 25 cents per annum laska counties. It is for the pur- will pay 6 per cent interest on pose of reclaiming 356,000 of this amount for 15 years, 8 hitherto worthless swamp lands. months and 29 days, and provide It will cost \$95,000, being about a sufficient sinking fund with \$2.67 cents per acre or 7 cents per which to liquidate the principle.

If Falls City township will co-In Lynn county, Kansas, the operate with Salem township and Maries De Cygne river, somewhat receive and take care of the ditch larger than the Nemaha, and at or near corner of sections 12 very much like it in topographi- and 13, township line, then the cal appearance, has been straight- new channel in the aggregate ened, by which the bottom lands need not, in my opinion, be more are not overflown, their value be- than 21/4 miles in length, and ing advanced thereby from \$25 to would leave the entire length of the stream a little less than 8

county, Neb., following the sinu- There should be made, on the osities of the south fork and the North Fork, in Liberty township Nemaha river below the junction and in the drainage district, a at Salem, the distance is, by U. new channel in the aggregate of about 34 miles.

On a straight line from points Falls City township can, in my of ingress to egress the distance opinion, with a ditch 434 miles in is less than 61/4 miles; and the aggregate length, reduce length fall is not less than 60 feet of river through township from 121/4 to 65/8 miles, having only In the present condition of the one bridge to make via Exchange stream, the velocity of the water mills and Mo. Pacific bridge costdoes not exceed one mile per hour ing in all not to exceed \$15,000 up to the time when the river being about \$3 per acre, all told; breaks the banks. After that not to exceed an annual tax of time, when the bottoms are cov- 30 cents per acre, for a period of ered, the water in the main chan- about 15 years; placing flood nel practically ceases to run; and waters forever in the banks of the the velocity of the water is very stream, lowering water line at

less than before the banks were The Mo. Pacific bridge. as it broken; thus producing a conges- now is, with this improvement, tion of water, often lasting for has sufficient capacity, in my opinion for any flood waters that

Jefferson township is five miles township 71/4 miles, then the ve- wide, east and west. The length locity of the water at flood time of river through township is 1338 would be about 8 miles per hour, miles wide, by meanders. This The same would be within the distance can, with 21/4 miles of banks of the river at all times af- new channel, be reduced to 61/8 ter the new channel shall have mile thus eliminating 71/4 miles attained its growth by the opera- of the old channel, lowering water tion of natural forces, which will line not less than 8 feet; at a cost go on to completion very rapidly. not to exceed \$7,000, all told, in-The above mentioned shorten- cluding one bridge and leaving to carry off all flood waters. The The probable approximate cost same would not cost, in my opinof this improvement is, in my ion, 20 cents per acre per annum

Rulo township can have the at bottom, average depth 10 feet; best results, of all the townships at 7 cents per cubic yard will of the county with the least ex-

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J. B. VARNER,

AGENT

to the east, it is less than 41/2 doctors who never grumble, in miles to the mouth of Nemaha good roads over which they travand 45 feet of fall.

sinuosities of same, can be reduc- dant miasmatic diseases. ed to 61/2 miles, with new channel not to exceed in the aggregate 1 mile in length. No new bridges to build. The total cost should not exceed \$1 per acre. 10 cents per acre per annum in 15 years should be the total cost. The flood line would be lowered at least 8 feet; thus eliminating any overflow excepting what may tickets; \$12.20. 16-7 come from very high waters in the Missouri river when possibly train service ask the ticket agent. the back water might extend for a very short distance up the Nemaha river; and then not oftener than once in a great many years.

In conclusion, to the owners of these overflowed lands, by these improvements, will come thrift and prosperity. To every citizen of the county will come the blessings of an entire community of prosperous citizenship; costing no one a penny except the owners of overflowed lands.

It will give to all the only possibility of having good roads. It will add to the assessors rolls \$2,000,000 in value of real estate which unless relieved, will continue to depreciate in value. It will decrease to all the tax payers of the county at least 50 per cent for repairs on bridges,

It will incidentally add to the productive area of fine alluvial soils 1200 acres by shortening the stream. It will make up to the

el, for his loss in the destruction 13½ miles of river following of the mosquito and the atten-

> Yours truly, R. E. Grinstead.

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On and after April ten-day

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