Home Course Road Making

IV .- State Aid In Road Improvement.

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THE principle of state eld and state supervision seems to of fer the best solution of the road problem. The first sinte to adopt state aid was New Jersey, a law having been passed by the legis lature of that state in 1891. Since that time about two-thirds of the states of the Union have adopted some form of state aid or state supervision.

In order to receive the aid of the state the counties or townships are required to pay a portion of the cost This amount varies in the different states from 25 to 50 per cent, but in some of the states the whole cost of



A STATE AID BOAD IN NEW JERSEY.

certain trunk line roads is paid by the state. The principle of state aid is that the state contribute to road improvement out of a general fund to which all taxpayers contribute. The fund does not come from farmers alone, but from all the people, and especially from those that are more abundantly able to bear the burden of taxation. A great injustice has been done the farmers of this country in exnecting them alone to shoulder the en-

tire expense and responsibility of building country roads. The residents of cities have signified a greater willingness to contribute to this fund than those who live in the rural districts. notwithstanding the fact that practically all the state aid laws prohibit equalize the burden of taxation.

receives any benefit fromit should contribute to the cost of its improvement. The farmer is not the only one who uses the country roads or receives benefit from them. They are also used by the State road improvement should be carcountry merchant, the lumber dealer, the itinerant peddler, the village docwheelman and the automobilist, and to state and connecting, if possible, with tract price of the work should be paid a greater or lesser extent by the entire people. The city dweller cannot live without his daily supplies from the farm, and he must pay daily and in cash the greater share of all extra cost attending their transportation.

Some of the state highway departments are operated on a purely political basis, and it very frequently happens that the highway commissioners, as well as their subordinates, are removed from office for purely political reasons, no matter how efficient or competent they may be. This is the most serious defect in our state aid system.

Any law providing for state supervision and state aid should be so framed as to remove its administration as far as possible from the influence of partisan politics. A plan approval is one which provides for a competent commission that consists, gineering from one of the leading universities or colleges of the state, the state geologist and one civilian member to be appointed by the governor. A commission thus constituted has a majority of its members selected because of their training and ability and without reference to their political af- mate failure of the state aid planfiliations. The civilian member appointed by the governor should bring to the commission the business ability essential to the proper and economic organization and prosecution of its work. At the same time, so long as fae governor could appoint only the minority of the commission and the same being nonpaid, there would be little inducement to make the position one of political preferment.

The actual work of a state highway repartment should be under the direction of one man possessing technical qualifications, experience and executive ability. This official should be appointed by the commission. He should be a civil engineer, skilled and experienced in road construction and maintenance, and his salary should be fixed by the commission. His position should be permanent, and he should not be removed except for incompetence or malfeasance in office.

The state highway engineer should give better results than could be ob be empowered to appoint all of his assistants after proper examination and with the advice and consent of the commission, to receive all bids and to stance by the state, the countles or award contracts, to supervise the work townships being required to reimburse of construction and maintenance, and, the state for their share at a fixed the use of the money within the limits in fact, he should be given full authori time after the road is improved. of cities and towns. State aid tends to ty in all executive work of the department. The state highway engineer Every one who uses a highway or should prepare a map of such of the main highways of the state as should most properly constitute a system of state or trunk line roads to be improved either in part or wholly by the state. ried forward with the ultimate idea of is therefore entitled to receive partial developing a continuous system of payments thereon as the same progresstor, the commercial salesman, by the trunk lines running throughout the

> roads in each county. be given authority to call on county or aid of the state in proper repair, the township road officials for information | total cost of such repairs to be paid by concerning the roads under their super- the state, the countles and townships vision, and it should be made manda- to reimburse the state in the same mantory on such officials to furnish such information upon request. This is very | The reason for this is that road maindesirable, as it is necessary for the tenance is of as great or even greater state highway department to keep posted as to conditions existing in different

similar trunk line roads in adjacent

In most of the state aid laws the initiative in obtaining state aid rests with the county or township authorities. This is a wise provision, because, in the first place, the local authorities are in better position to know what that seems to be meeting with general | roads it will be to the greatest advantage of the county or township to imnonpaid, nonpartisan and technically prove, and, in the second place, they are best able to determine the extent for instance, of a professor of civil en- of the county's ability to share in the expense of such an improvement. Another consideration of great importance in this connection is that if the initiative were to rest entirely with the state there would be a certainty of conflict of authority between the state and the counties, resulting in the ulti-

The only case in which the roads can be built by the state without the full and hearty co-operation of the counties or townships is where the state pays the entire cost of building and maintaining the roads. Most of the laws provide that state aid shall not be granted until the application of the ruin. local authorities has been approved by the state engineer, which enables the engineer to exercise a sort of supervisory power over the selection of the roads to be improved, to the end that the various roads throughout the state shall conform to a general system.

All surveys, plans, specifications and estimates for state roads and bridges should be made by the state highway engineer's office, thus insuring uniformity and a high degree of excellence. All improvements to cost over, say, \$2,000 should be let to contract. as it has been found that this means economy both in time and money and with proper supervision will usually

tained otherwise.

Some of the states provide that the whole cost shall be paid in the first in

Bridges and culverts should be con sidered as a part of the road and the state should aid in their construction within proper limitations in the same manner as for the road itself. When the work is let to contract the contractor must of necessity advance money in the performance of his contract and es, but not over 85 per cent of the conin advance of its full completion and states and with the necessary lateral acceptance

The state highway engineer should be The state highway engineer should required to keep all roads built by the ner as for the construction of the road.



A STATE BOAD IN CONNECTICUT.

Inportance than road construction, and the best roads if neglected soon go to

It is utterly useless to establish a state highway system without at the same time providing an adequate source of revenue. Unless there is a surplus in the treasury for this purpose a special tax should be levied or a state bond issue should be authorized. On the theory that automobiles are destructive to improved roads most of the state ald states provide that the proceeds of automobile licenses over and above the expenses connected with issuing such licenses be applied to the state highway fund and used for the purpose of constructing and maintaining the roads.

FEATHERS AND EGGSHELLS. Ireland has 24,000,000 hens and 50, 000 goats and in the past year exported \$20,000,000 in poultry produce. England's egg output does not equal the consumption, and she must import \$35,000,000 worth of eggs.

Dr. Kyes of Chicago inoculated a White Leghorn rooster with a preparation obtained from a human lung involved with acute lobar pneumonia. He then secured an immune serum from the fowl that has a protective power against the disease.

Winter is not the hen's natural laying season, and this must be considnear as possible to that which spring to the children on this interesting suband summer furnish brings success, but stimulants, as with men, spell fail-

Many tell the sex of ducks by that pretty curl on the tail, but those who depend on that sign to select Indian Runner drakes often get left, as the male is often without that ornament. The female does all the talking in the duck tribe, as often in the human, so there's the cue for you.

One peculiarity of many amateurs is that they often select as their first all photographers. breed a fowl that is very difficult to breed true to color and color markings. perhaps because such are the most beautiful. It is wiser to start with a simpler and easier breed and thus get the first principles before tackling the

The recent invasion of locusts if it did no good to the trees, sure made a feast for the foxes, skunks, ground hogs, birds, poultry and even the pigs. But if you thought it was great to see your birds gobble the big bugs you should go to the east, where they are gathered by the ton, dried and gobbled by both hens and humans.

The farmer will tell you that the great fattener for bogs is yellow corn. the hens you will likely find him feeding corn to them also. He expects those hogs to get fat and those bens to lay eggs on the same ration. "It's poor rule that won't work both ways," and this is a poor one.

It is quite amusing to bear some of our poultry lecturers wrangling over the moist and dry mash question. The question is then generally given to near Metolius and the other near Redthe audience, and invariably the ma- mond. They are to be operated under are mosquitos. As they sting they put forlty is for the moist mash. Try them both, and when you count the eggs and note condition of your fowls you will likely vote with the majority too.

Dr. Mary E. Pennington of the department of agriculture declares that "eggs laid in the cool days of spring and properly put away in storage are better than the eggs freshly laid in the hot weather and rushed to the city from the nest." English "eggsperts" are laughing loud at Dr. Mary's statement. Yes; mere man may safely

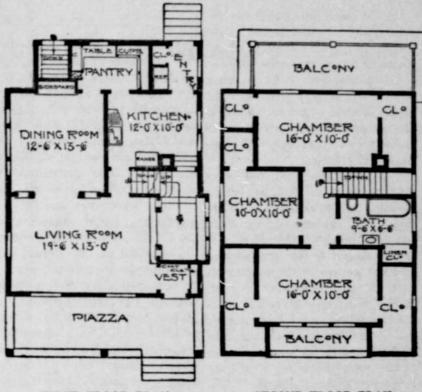
A BUNGALOW OPEN TO THE SUNSHINE

Design 965, by Glenn L. Saxton, Architect, Minneapolis, Minn.



@ by Glenn L. Saxton.

PERSPECTIVE VIEW-FROM A PHOTOGRAPH.



FIRST FLOOR PLAN.

SECOND FLOOR PLAN.

Here is a good design to build from, either in a suburb or a small village. Size, twenty-six feet wide and twenty-eight feet deep. Cost, exclusive of heating and plumbing, \$2,500.

Upon receipt of \$1 the publisher of this paper will supply a copy of Saxton's book of plans, entitled "American Dwellings." The book contains 254 new and up to date designs of cottages, bungalows and residences costing from \$1,000 to \$6,000.

PROGRESS OF STATE DURING PAST WEEK the states.

Portland Or April 30 (Special)-Pnpils of the Portland schools have taken | the state and the annual meeting is usup Country Life education in earnest ually largely attended. Subjects of inand during the past week the work was terest to threshermen are discussed and ered in our endeavor to make her lay given new impetus when instructors of various problems met. those high priced eggs. A ration as the Oregon Agricultural College talked ject. One city school alone has 1130 JAPANESE CONSUL gardens now being grown by pupils.

Photographers of the Northwest states will gather at Portland for the annual convention of the Pacific Coast Association Sept 2.5. About 200 delegates are expected from all parts of the North Pacific states and British Columbia: The organization was formed in Portland about 12 years ago and the College yesterday on his way back north coming gathering will be of interest to from a trip to Ashland.

one of the best periods in the hi-tory of contains some 5,000 Japanese. He is the lumber industry, the demand for forest products of Oregon being the best ting acquainted with the various condisince the period following the San tions. Incidentally he is also investi-Francisco fire, when the forests of the gating agricultural methods which may Northwest were drawn upon heavily to be suited to conditions in his own rebuild that city. Prosperous conditions in the lumber trade will be felt generally throughout Oregon, so widespread is this industry.

of the north Jetty at the mouth of the college, Kaknji Okamoto, Yoshitaro Columbia River will commence at once, Fejihira, and Moichi Kawashima, He plans having been approved at Washington and forwarded to the local engineers and if you follow him when he feeds during the past week. The approximate the education and training of women. length of the proposed jetty will be two and one-half miles and it will require bout five years for construction. It is sionaries came. Now there is a common expected to add materially to the depth of the ship channel across the Columbia Japanese women, and the missionary is

River bar. Two new experiment farms have just been completed in Crook County, one interior of the state.

itors to the Rose City during the year all dealers.

will thus be able to get'a comprehensive knowledge of Oregon's resources and the advertising will be of great value to

The Oregon Threshers Association will meet at Condon May 23 and 24.

VISITS O. A. G.

Corvallis, Ore., April 30-M. Ida, Japanese consul, recently transferred from San Francisco to the Portland territory, visited the Oregon Agricultural

Mr. Ida's territory includes the states The current year, it is said, will prove of Oregon, Idaho and Montana, and now traveling through the district getcountry, with a review to making a report upon them for the Imperial College of Agriculture of Japan.

While here the consul was the guest Preliminary work for the constnuction of the three Japhnese students of the called upon the dean of womenf Dr. Anna Z. Crayne, and discussed with her

> "In Japan", sail Mr. Ida, "there was no education for women until the Missaying that God is the father of the the mother."

The Demons Of The Swamp

the direction of the Oregon Agricultural deadly malaria germs in the blood. Then College, which is sufficient guarantee follow the icy chills and the fires of fever. that they will be operated on a practi- The appetite files and the strength fails; cal basis and it is believed they will do also malaria often paves the way for much toward solving the problems new deadly typhoid. But Electric Bitters settlers are meeting with in tilling the kill and cast out the malaria germs from dry farming and irrigated lands of the the blood; give you a fine appetite and renew your strength. "After long suf-Extensive displays of state products foring," wrote Wm. Fretwell, of Lucawill undoubtedly be arranged at Port- ma, N. C., "three bottles drove all the land during the Rose Festival, Elks malaria from my system, and I've had Convention and other gatherings of the good health ever since." Best for all laugh at a female with the Atlantic coming summer. The toonsands of vis- stomach, liver and kindey ills. 50 cts. at

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