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# HOW TO BUILD A SAND-CLAY ROAD

It is by Far the Most Economical Kind of Highway.

### BALANCE THE MATERIAL.

Plenty of Sand Is Necessary and a Binder-Plow Deep For a Good Road, Says Expert,

The sand-clay road has been in use from time immensorial, and yet the study of it has been very recent. So for as I know, the study was never scientifically carried out prior to 1900. Lot 11, Block 15, Center Addition there are many discussions as to who along the line of sewer construction. the inventor was.

> Now, the sand-clay road or the soil a aubstantial durability as well as a



MIXING THE SAND AND CLAY.

cheapness in first cost and a cheapness in maintaining cost, or second cost; consequently it is the best road for country districts wherever conditions will permit. One of the best things about it is this-it is the most capable of withstanding automobile traffic, and the lateral or pull of the wheel seems to do but little or no harm. Then again it is the most delightful road for the stock of the farm er and the man who delights in driv-

How would you build this sand-clay road? The first problem is to make a thorough investigation of natural couditions. Sand is the primary and the fundamental thing in the building of a sand clay road. It is the ail of a sand clay road. The clay merely furnishes or forms a binder. The durability will depend largely upon the texture of the clay if the cuty to open and porous it will sponge up and lose its grip on the sand, and you have a shish or a moddy clay and apply sand to the depth of ten inches you have a road that is



A GOOD STREETCH OF SAND-CLAY BOAD.

easily kept in repair, more so than any class of macadam road, and at a cost that is very small in comparison

The soil is turned over by plowing process in the cuitivation, brought to the surface; the rain removes the eas ity absorbed parts of clay and leaves only that part which most firmly reaists the action of rain. Therefore when you put it in the road you get a cohesive mass that builds together like cement almost. Now, really the trouble with the soil road is if the materfal is not right you put it down too thin. You plow up six inches of soil and you say at once you have a foot of soil. It expands or opens up to almost double its volume. If you want a soil road of ten inches you must put down fourteen inches of loose material, so that when it is firmly weided together you have a twelve luch road. If you build that strong enough you will suc cood also times out of ten.

### CHURCH NOTICES

Methodist Episcopal.

Rev. E. C. Newham, pastor. Services every Sunday at 11 a. m and at 7:30 p. m. Sunday school at 10 a. m. Epworth League at 6:45 p. m on Bunday. Choir practice Thursday at 7:30 p. m. Prayer meeting Wednesday at 7:30 p. m. Junior League at 2:30 p. m. Sunday.

Presbyterian.

There will be services at the Star Theatre Sunday morning, February 2, at 11 o'clock, Rev. Dr. Gorby, pas-Good Water Resisting Clay For a Elementary Christian Experience. The Psychology of Sunday school at 10 a. m., Ross Farnham superintendent.

### NOTICE TO TEAMSTERS.

Sealed bids will we received by R. Koon, construction engineer for the city of Bend, up to 10 o'clock a. scientifically carried out prior to 1900. m. of Monday, the 10th day of Feb-snys W. L. Spoon, road engineer of ruary, 1913, for furnishing teams Forsyth county, & C., in Southern and wagons and hauling and deliver-Good Reads. It was built in many ing materials for sewer construction places throughout South Carolina, and from railroad to casignated points

Said materials will consist largely of vitrified pine but may include cement, sand, machinery, tools, powder road, which is only a type, has shown or other material required on said construction work.

The approximate tonnage is 600 tons of 2000 pounds each. The right is reserved to reject any

or all bids. Blanks for bidding purposes may e obtained upon application.

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R. P. MINTER, Manager.

Notice to the Public:

I have been authorized by the Comptroller of the Currency at Washington, D. C., to proceed with the organization of the Paisley National Bank, to be established at Paisley, Lake County, Oregon, the Comptroller having received letters commending the project from Governor Oswald West of Oregon, and from United States Senators George E. Chamberlain and Jouathan Bourne, Jr., and others.

Paisley National Bank

(Organizing)

The Bank will begin business with \$25,000 capital, consisting of 250 shares of \$100 each, and its Officers and Directors will be prominent and responsible business men of Paisley and vicinity.

There is at present no bank at Paisley, the nearest bank being more than forty miles distant, at Lakeview, Oregon. Paisley is growing rapidly, and it is believed that a National Bank, conducted upon STRICTLY BUSI-NESS PRINCIPLES will pay its share holders good dividends after the

To secure the largest volume of business, it is desired by myself and associates, that the 250 shares shall be owned as widely as possible throughout Central Oregon, therefore the undersigned reserves the right to refuse all subscriptions offered in excess of five shares from any one person, and all subscriptions after the 250 shares have been taken.

Payment for shares, from accepted subscribers, may be made on or before March 1st, 1913, to a National Bank at Portland, Oregon, to be selected, and temporary receipts will be given to subscribers until certificates of stock are ready for issue.

It is unlawful to receive subscriptions from corporations, firms or associations, but only from natural persons-men and women over twentyone years of age-competent to hold property in their own names.

Readers of this newspaper desiring to subscribe, are invited to write for further information, indicating the number of shares they desire

> 601 Yeon Building. Portiand, Oregon.

NOTICE-All letters will receive reply after Feb. 1st, 1913,

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### NOTICE TO PARENTS OR GUARD-IANS OF SCHOOL CHILDREN.

We wish to announce that the law praise from Bend people for intro-ducing here the simple buckthorn forced in Crook county. We will bark and glycerine mixture, known as Adlersi-ka. This simple German remedy first became famous by curing appendicitis and it has now been discovered that A SINGLE DOSE rediscovered that A SI the compiled with, we will let the law lieves sour stomach, gas on the compiled with, we will let the law stomach and constipation INSTANT- take its course. We did not make it, and we surely will not break it. J. E. MYERS,

County School Supt,

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