OREGON CITY ENTERPRISE, FRIDAY, DECEMBER 19, 1913.

GRAVEL VERSUS CONCRETE ROAD

Each One Best In Its Proper Place, Says Expert.

BUILDING METHODS BETTER.

Far All Kinds of Country Traffic the Gravel Highway Is Excellent, but It la Impracticable In Suburban Towns. Laste Five Vears.

By FRANK F. ROGERS, State Highway Commissioner of Michigan.

Farmers who have been building the aid fashioned gravel roads in counties where the traffic is not great need not ine any sleep for fear that they have seen doing the wrong thing. A gravel road is plenty good enough for all ordisary country traffic.

Wayne county, Mich., has the most siaborate and extensive system of concrete roads in the world. The tests of the state highway commission were made just outside the city limits of Detroit on several roads and also on the county line, from a dozen to a score of ulles farther out. The result was very good news for the ordinary road buildwho haven't a fortune to spend on the work, but had news for the manufacturers of concrete making machines. A three months' daily count of the rabicion on a road just outside Detroit gave an average of 2,160 daily. At the county line the average was only slightly in excess of 300. At the counthe the road was gravel and with od that much traffic with practically m damage. As Wayne county has almost three-quarters of a million people and a correspondingly large traffic, the deduction is that in the vast majority of counties in the United States gravel may legally be imposed upon it, and mails will serve all necessities for many years to come.

But a gravel road near Detroit would be worse than useless. Wayne county h not making a mistake in building concrete runds. Neither will any other



is heavy make a mistake in building them. A gravel road near any large

verse crecas. Infies are que to tous dation substances such as clay, wood or uncrusted rock having been imbedded in the concrete when it was noft. It is thus shown that no one kind of road is good for all conditions. The concrete road and the gravel road are the extremes of roads good enough to be called good. There are other kinds of intermediate quality of resistance to traffic. The kind that ought to be built in any locality depends upon the amount of traffic they will have to sustain and the cost of getting the

the drainage must be considered.

himself of the information necessary

ly as possible the destructive agencies

to which the material will be subject-

ed on the road."

quirements:

of maintenance.

a proper selection of road ma-

\$100 per mile.

to

material there. The latter item might ce shown in the cot. he so great as to fall to justify the kind of road which other circumrash of a soft pliable quality. stances would call for. The soll and

Concrete ronds are easily and inex pensively repaired. ' The method is to pour tar in the cracks and holes and sift sand over it. This patching seems to be permanent and costs from \$30 to DETAILS OF ROAD MAKING. Construction, Maintenance and Water ways Are Difficult Problems. "Of all the factors which go to make up the perfect macadam road," says Logan Walter Page, "there is un doubtedly none more potent than that of the suitability of the material which

terial. The first and only certain one is to make an actual service test on road will be subjected. The second be used with fine effect. method is by means of short time inboratory tests to approximate as near- of cluny colored to match the linen.

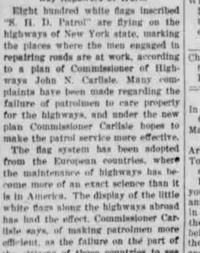
A property designed waterway structure should fulfill the following re-Wild Animal Bounty

Waterway sufficient to carry off mustly the water coming to it: prop-Juvenile Court

long period of years any lond which so constructed as to serve the comfort Harry M. Courtright 65.60 and convenience of travel and economy

FLAGS FOR ROAD PATROL.

European Plan Adopted to Keep High way Repairers at Work.



- Daily -Christmas Hint The Bride Will Think This Centerpiece Lovely

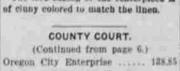
The bride who has just gone to housekeeping and is collecting a supply of table linen to add to her tronsnoau stock will appreciate the center-The material used is a grayish tan

The conventional design, which is not unlike part of a poinsettia flower, is



CENTERPIECE WITE CLUNY RDGE.

carried out in the present instance the material under observation and with shaded embroidery sliks in deift under the same conditions of traffic blues, but to get the holiday spirit into and climate to which the proposed the gift Christmas shades of red might The lace edging of the centerpiece is



Harry M. Courtright \$ 58.34 first day of December, 1913.

Harry M. Courtright

Wants, For Sale etc. WE have money to lend on farms.

\$2000 for one loan and money for two other loans of \$1,000 each. Interest 7 percent. U'REN & SCHUEBEL

Route 3.

Oregon, for Clackamas County. May N. Hardin, Plaintiff. 18

defendant:

VB.

You will please take notice that

terprise, and requiring that the birst publication be made on the 5th day of December A. D., 1913, and the last publication on the 16th day of January, A. D., 1914 BRADLEY A. EWERS, Attorney for Plaintiff. Portland, Oregon.

Notice to Creditors.

In the County Court of the State of Oregon for the County of Clacka-

In the Matter of the Estate of Thomas

Date of first publication, Novembe

THOMAS MCCABE,

Portland, Oregon.

mas.

ministrator.

11.49 chs.; thence North 26.10 chs. and thence West 11.49 chs. to the place of heginning, containing 30 acress more or less, for the purpose of rais-ing money to pay the debts and claims against said estate and the doc-tor's bills as set out in the petition on file herein. This Citation is published by order of ilon. H. S. Anderson, Judge of the above named court which said order was made and entered on the 3rd dorder

was made and entered on the 3rd day them, had on the date of the mortgan

weeks, beginning with the issue of therein or since had in or to the above scribed for publication thereof is four weeks, beginning with the issue of thereof, to astisfy said execution, Friday, Dec. 5th, 1913, and continu-ing each week thereafter to and in-cluding the issue of Friday, Jan. 2nd, E. T. MASS. Sheriff of Clackamas County, Oregon By B. J. STAATE, Deputy 1914.

Witness, the Hon. H. S. Anderson, By B. J. STAATS, Deputy Dated, Oregon City, Ore., 9th. De-cember, 1913. Judge of the County Court of the State of Oregon, for the County of Clackamas, with the seal of said court af-fixed this 3rd day of Dec., A. D., 1913. No. 12783.

Attest: W. L. Mulvey, Clerk. By I. M. Harrington, Deputy. ROWNELL & STONE, Attorneys for administrator. BROWNELL & STONE, Attorneys for

Summona. In the Circuit Court of the State of To Floyd Oregon, for the County of Clackamas

ohn C. Hanken, Plaintiff,

lora Hanken, Defendant. 'o Cora Hanken, the above-named defendant:

court on the 16th day of January, A. yember, 1913. D., 1914, said date being six weeks after the first publication of this summons. If you fail to appear and Chamber of C In the name of the State of Oregon You are hereby required to appear in the above entitled Court and answer the complant filed against you in this answer, the plaintiff will apply to the court for the relief prayed for m her complaint filed herein, which is for an absolute divorce, alimony for ult on or before Monday, the 19th day of January, 1914, that being six weeks from and after the date of first pubplaintiff and maintenance for lication of this summons, and also be-ing the last day prescribed by the orminor child, custody of the minor child, and for such other and further der of the Court for your appearance herein, and if you fail to so appear or relief as to the court may seem meet and equitable, and for her costs and disbursements herein. nswer the complaint on or before said date, for want thereof the plantiff will this summons is served upon you personally, with a certified copy of take default against you and apply to the Court for the relief prayed for in the complaint filed herein, to-wit, the complaint, pursuant to the terms of an order in the above en-titled court by the Honorable J. A. for a decree declaring the marriage between plaintiff and defendant here Eakin, judge thereof, on the 2nd day of December, A. D., 1913, requiring that publication of this summons be made once a week for six consein void, and annulling the same, and for such other and further relief as in equity and good conscience plain-This summons is published in the cutive weeks in the Oregon City En-terprise, and requiring that the first

and erriching and give long service; su-Minda E. Church 45.50 beli, Judge of the above entitled beli, Judge of the above entitled Court, duly made and entered on the Dated and first published Friday,

J. J. JOHNSON,

Summons. In the Circuit Court of the State of

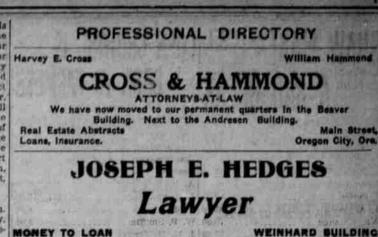
Oregon, for Clacksmas County. Luella Williams, Plaintiff, F. McCabe, Deceased. Notice is herby given that the un-dersigned has been appointed admin-

Floyd A. Williams, Defendant. To Floyd A. Williams, the above-named defendant.

istrator of the estate of Thomas F. McCabe, deceased, by the County Court of the State of Oregon, for In the name of the State of Oregon, you are hereby required to appear and answer the complant filed against you in the above entitled Court on the 16th day of January, A. D. 1914, said Clackamas County, and has qualified. All persons having claims against said 16th day of January, A. D. 1944, 16th day of January, A. D. 1944, publication of this Summons. If you publication of this Summons. If you clackamas County, Oregon, with prop-clackamas County, Oregon, with prop-er vouchers and duly verified within fail to appear and answer, the plain-fiff will apply to the Court for the relief prayed for in her complaint filed herein, which is for an absolute divorce, alimony for plaintiff and main-28th, 1913.

for the minor child, custody Administrator of the Estate of Thomas of the minor child, and for such other F. McCabe, Deceased. GORDON E. HAYES, Attorney for Adand further relief as to the Court may seem meet and equitable, and for her

seem meet and equitable, and for net costs and disbursements herein. You will please take notice that this Summons is served upon you personal-ly, with a certified copy of the Com-plaint, pursuant to the terms of an or-plaint, pursuant to the terms of an or-



WEINHARD BUILDING

alized upon said sale shall be applied of once a week for six consecutive weeks to the payment of the plaintiff's coats and disbursements of this suit, plain-per of general circulation published at tiff's attorneys fes, and the amount Oregon City, Clackamas County, Oregon, found due plaintiff in any decree ob- the first publication thereof being made on tained by virtue of this suit, and that the 14th day of November, 1913, and the Vs. Floyd A. Williams, Defendant: To Floyd A. Williams, the above named defendant. In the name of the State of Ore-gon, you are hereby required to ap-pear and answer the complaint flied against you in the above entitled against you in the above entitled and entered on the 3rd day of No-entered on the 1 still day of No-the Honorable J. U. Campbell, Judge of the above entitled court duly made and entered on the 3rd day of No-entered on the 13th day of No-the Above entitled Court for the 1 still day of No-the Honorable J. U. Campbell, Judge of the above entitled court duly made and entered on the 3rd day of No-entered on the 13th day of No-the Honorable J. U. Campbell, Judge of the above entitled Court duly made and entered on the 3rd day of No-ant day of No-entered on the 1 still day of No-the 1 still day of No-the Honorable J. U. Campbell, Judge of the above entitled Court duly made and entered on the 3rd day of No-ant day of No-Bated this 13th day of No-ant day of No-entered on the 1 still day of No-the 1 still day of No-entered on the 1 still day of No-ant day of No-an

Dated this 13th day of November, 1913. ARTHUR L MOULTON. Attorney for Plaintiff. Postoffice address: 312 Lewis Bidg.,

Attorneys for Plaintiff. Chamber of Commerce, Portland, Ore. Fortland, Oregon.

Summons. In the Circuit Court of the State of Oregon, for the County of Clackamas

Louis Roth, Plaintiff, John C. Hanken, Plaintiff,

BERNSTEIN & COHEN,

SUMMONS In the Circuit Court of the State of Oregon, for the county of Clack-

to Cors Hanken, the above-named de-

VS. Cora Hanken, Defendant.

the

amas

fendant:

Mercedes LaMonte Roth, Defendant. To Mercedes LaMonte Roth, above-named defendant:

In the name of the State of Oregon In the Name of the State of Oregon, gon, you are hereby required to ap-pear in the above entitled court and answer the complaint of the plaintiff harwer the complaint of the plaintiff the 19th day of January, 1914, that being six weeks from and af-ter the date of first publication of this summons, and also being the last day prescribed by the order of the court for your appearance here-in; and if you fail to so appear or answer the complaint or or before the four four your appearance here-in; and if you fail to so appear or answer the complaint on or before In the Name of the State of Ore-

in; and if you fail to so appear or answer the complaint on or before answer the complaint on or before said date for want thereof the plain-isting will take default against you tiff will take default against you and apply to the court for the re-lief prayed for in the complaint filed herein, to-wit, for a decree de-claring that marriage between plaintiff and defendant herein vold, and annulling the same and for more than one year, and on the fur-ther ground of wilfull desertion conand annulling the same, and for such other and further relief as in which other and further relief as in quity and good conscience plain-iff is entitled to in the premises. This summons is published in the pregon City Enterprise, in pursu-tinuing for a period of more than one year immediately preceding the filing of the complaint herein. This summons is published once a equity and good conscience plain-tiff is entitled to in the premises.

This summons is published in the Oregon City Enterprise, in pursu-ance of an order of the Hon. J. U. Campbell, judge of the above en-titled court, duly made and entered on the first day of December, 1913. Dated and first published Friday, December 5, 1913. J. J. JOHNSON, J. J. JOHNSON, that the last publication he made on the 26th day of December, 1913. Attorney for Plaintiff.

RALPH A. COAN. Attorney for Plaintiff. Date of first publication, November

Final Notice. Notice is hereby given that the un-dersigned has filed his final account as Administrator of the estate of Pet-er Rediger, decensed, with the Coun-ty Clerk of Clackamas County, Ore-gon, and the Court has set Monday, 14th, 1913. Date of last publication, December 26th, 1913.

the 22nd day of December, 1913, at the hour of 10:00 o'clock A. M. in the County Court room in the Court House, in Oregon City, Oregon, as the Attorney Home A-151 BROWNELL & STONE Attorneys-at-Law





thousand, A. McConell, Aurora,

Summons. In the Circuit Court of the State of

Arthur A. Hardin, Defendant.

In the name of the State of Oregon you are hereby required to appear and answer the complaint filed against you, in the above named suit, on or before the 30th day of Jan., 1914, said date being the expiration of six weeks from

Choice hop mots for sale, \$3.50 per

To Arthur A. Hardin, above named