

PUSHING BETTER STREETS

Salem May See First Permanent Improvement

Arguments in Favor of the New Bitulithic Street Construction Process

The Waters administration is doing all in its power to promote the construction of better streets. A short time ago Mayor Waters and a committee of aldermen and County Judge Scott went to Portland to inspect some streets that are being constructed on a large scale by what is known as the bitulithic process, crushed rock and a coating of bituminous material, that is far more durable than asphalt, it is claimed.

W. L. Archembeau, a practical street pavement man, representing the Warren Construction Company, has been in the city the past week interviewing a number of business men and city officials in the interest of the pavement. He made a very favorable impression for his kind of street, and hopes to return soon to our city and close a contract. This pavement is now in use in more than 80 cities, and seems to stand the test of heavy traffic and the erosion of time. It seems peculiarly adapted to our kind of streets, and would utilize all the foundation work that has been done. In an extended argument before the committee the following statements were brought out in reference to the foundation required for bituminous or asphalt pavement:

The competitors of the 'Bitulithic,' or 'Warren Bituminous Macadam Pavement,' endeavor to make a point against it by stating it is not laid on a concrete foundation. It is not laid on a concrete foundation. It is not laid on hydraulic concrete, but is laid on a base of crushed stone and bituminous cement, which is in actual use and still in good condition under pavements laid in the city of Washington 30 years ago. The fact is that hydraulic concrete, in point of durability, is an element of weakness of the ordinary sheet pavement, for the reason that it does not unite to the surface and provides a line of separation between the foundation and surface, the tendency of which is to cause the blanket to 'slip or 'roll' on the foundation under the rolling effect of traffic.

It is a very common thing to see sheet pavements which have rolled into waves or billows, and on examination, to find that the blanket has slipped on the concrete to such an extent that the upper surface of the concrete and the lower surface of the sheet have become polished as smooth as glass. To overcome this a "binder" course of fine stone and oil laid between the concrete base and the blanket surface has been used during the past few years. The binder course only partially overcomes the slipping and opens a new element of weakness. The binder is more watertight than a basket and provides a course between the foundation and the blanket surface which easily holds any moisture which works into the pavement from above or below, and permits the moisture to be taken up by the semi-porous surface, causing the same to rot.

The bituminous foundation of the 'Bitulithic' pavement provides a rough surface of the same character as the 'Bitulithic' wearing surface, so that under pressure of the 15-ton roller used, the foundation and surface become thoroughly knit together with no line of cleavage or separation between the two, so that slipping or rolling of the surface on the base is impossible. Except that we add the bituminous cement to the foundation it is the same as the foundation in the regular macadam pavement. No one ever heard of a properly laid macadam pavement on a well-rolled subsoil failing because of settlement of the foundation. The weakness of the ordinary macadam is in the surface and not the foundation.

Regarding the foundation used under our 'Bitulithic' pavement Prof. A. W. Dow, inspector of asphalt and cements of the United States government at Washington, says:

"The Massachusetts avenue, Washington, pavement, which is now 29 years old, was laid on a bituminous foundation, as is also our oldest asphalt pavement, on Vermont avenue, and numbers of our oldest pavements. The bituminous foundations are markedly superior for bituminous pavement to the concrete base."

To show what the pavement will stand in the way of heavy loads, we quote from a letter of Mr. L. Cameron

Corson, city engineer of Norristown, Pa., where 55,000 square yards of Bitulithic pavement is in use, under date of February 19, 1903, as follows: "Last month a heavy load passed over your pavement on Airy street—a 60-foot girder weighing 17 tons, wagon 2½ tons, or a total of 19½ tons; tires 3 inches wide, or about 3250 pounds per square inch, which speaks very well for your pavement. I consider the Bitulithic pavement to be the best pavement laid today, and sincerely wish the promoters every success. This truck with girder, drawn by 16 horses, was photographed."

Another point. In the sheet pavement laid on concrete foundations the blanket surface has so little inherent stability or strength that the blanket, whatever the thickness may be, does not provide conditions insuring the full wear of the thickness of the pavement. That is when the surface wears down to say one inch in thickness, the material not being united to the foundation, hasn't sufficient strength to withstand the pressure of traffic, and breaks into holes. With an original thickness of one and one-half inches, therefore, the life of the pavement is represented by wear of only about one-half inch.

With a bituminous base, however, the surface and base being united, and the entire thickness of surface will wear evenly, and after worn to the base it will still provide further wearing qualities. This is not a theory, but is well borne out by the experience in Washington with bituminous base 25 to 30 years old, and with concrete for a shorter time, and in Buffalo where, on Franklin street, the bituminous base has been in use for 25 years, and is still in better condition than sheet pavements on concrete base laid less than 10 years ago.

HOW IT STICKS.

Salem Has Found It Hard to Shake Off.

Hard to bear, harder to get rid of, is an itching skin complaint. Eczema or itching piles. Doan's ointment relieves and cures. All itching of the skin.

Scores of people endorse this statement.

Mrs. Dr. M. Amos, residing at 1111 East Second street, Albany, says: "I had for quite a long time a sore over my eye, and, while it was not painful, it was very annoying, and I wanted to rid myself of it. I happened to read an advertisement about Doan's ointment, and got a box. Its use cured me. The sore entirely healed up. I know that Doan's ointment does all that is claimed for it. I have used Doan's kidney pills for dull heavy aching across my loins, and, while they did not cure me, I think them a very good remedy. You may refer to me as one who can recommend Doan's Kidney Pills and Doan's ointment."

Plenty more proof like this from Salem people. Call at Dr. Stone's drug store, and ask what his customers report.

For sale by all dealers. Price 50 cents. Foster-Milburn Co., Buffalo, N. Y., sole agents for the United States.

Remember the name—Doan's—and take no other.

Patronize Home Merchants.

It is a surprise to those who visit country districts as well as to discover the number of city people who patronize Eastern order houses, and yet no mail order house helped to build the little white school house in your district or the road past your door. No mail order house ever took you by the hand when you were in distress, and told you to let it go until after harvest next year. No mail order house sold you a machine, and then spent most of the profit in the community where you and your neighbors live. No mail order house ever sat at your table, and rejoiced with you when you were glad, nor spoke encouraging words in affliction, nor stood with uncovered head beside the grave when your children died.

ARE YOU AGEING?

Dr. Holmes used to say he was "seventy years young." Some men are old at half that figure.

Age is not in years. It is in the blood. Scott's Emulsion helps to keep you young by keeping your blood young; by supplying it with an abundance of rich, pure, vital nourishment; carrying constant life and renewal to every fibre of your body. It will help you to rob advancing years of half their sting.

We'll send you a sample free upon request. SCOTT & BOWNE, 409 Pearl Street, New York.

BODY OF RUMBAUGH FOUND

The body of J. M. Rumbaugh, the Liberty farmer, who disappeared last Wednesday, was found in the slough near the river at the Croisan place Saturday evening by his son, Clyde, and a young man named Dove, who were searching for him.

They at once notified other members of the searching party, and the remains were conveyed to his late residence. Coroner Clough was notified, but, after an investigation, concluded that an inquest was unnecessary.

Deceased undoubtedly was laboring under a temporary delusion, and was not responsible for his rash act. He was a prominent farmer, and well-to-do. Insanity is the only cause that can be advanced for the deed.

Master Horseshoers.

Detroit, Mich., Oct. 10.—Several hundred delegates assembled at the Hotel Cadillac today for the 13th annual convention of the Master Horseshoers' International association. The association, which was organized 12 years ago, has branches throughout the United States, in two of the Canadian provinces and in Hawaii, and is regarded as one of the strongest labor organizations in America. The present convention will cover four or five days and will be devoted to the discussion of a number of matters of great importance to the craft.

Play by T. B. Aldrich.

Boston, Mass., Oct. 10.—An event of much interest to playgoers is the initial production of "The Tents of Asar" at the Tremont Theater tonight. The play is the work of Thomas Aldrich and treats of ancient Biblical times. Miss Nance O'Neil will have the principal part in the performance.

Weak, Nervous People.

We have received letters from all parts of the U. S. highly recommending Dr. Gunn's Blood & Nerve Tonic, until the faith we had in the remedy has been fully sustained. We had confidence from the very beginning that this medicine should make cures, but lacked that assurance that comes after many successful trials. Now that we have been upheld in our belief we want to impart to others our confidence. Nervous and unsteady people, weak, fleshless people, pimply, pale, or sallow people, are all victims of weak, watery blood. Make new, rich blood, to be forced through the system by the way of the arteries, and disease cannot remain. This Tonic cures disease by giving you strength to resist it. All druggists sell it for 75c per box, or 3 boxes for \$2. The tablets are to take after each meal. They turn the food you eat into rich red blood. Persons who take this Tonic gain in good solid flesh from 1 to 3 lbs. per week.

For sale by Dr. C. S. Stone, druggist.

Hops

Fruit

Big Crop?

The crops in this line are not the largest, but good. As a result many will need repairs made on their driers. We are prepared to do quick and good work in this line.

BURROUGHS & FRASER
Sheet Iron Workers and Plumbers.


Y. M. C. A. NIGHT SCHOOL

Fall Term Opens Monday, September 20th.

Subjects	Fee 3 months.
Arithmetic	\$2.00
Bookkeeping	4.00
Penmanship	2.00
Grammar	2.00
Reading and Spelling	2.00

Other subjects taught if required. For particulars call at

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Headlights of the Cremo

You see them everywhere—the signal of enjoyment and satisfaction that shines brightly from the face of every Cremo Smoker—5c.

Largest Seller in the World.

The Band is the Smoker's Protection.

Your Attention Is Called

Because of the many BARGAINS Mentioned Below

Mrs. M. E. Fraser Sold Out

The items mentioned for Saturday's selling will be placed on sale Saturday morning at astonishingly low prices, and, as some of the lots are not large ones, they will not last long. You better come early.

<h3>Towelings</h3> <p>18-inch yard quality unbleached rash, 15c kind. Closing prices.</p> <p>9c per yd</p>	<h3>Furs, Furs</h3> <p>Our fur department is larger and more complete than any in this city. We have the scarfs from 75c up. We have the Martin, Mink, Opossum, Fox, Isabella Fox, etc., all good prime furs and new shapes. When you buy furs here we guarantee them to be as represented, so you are perfectly safe.</p> <p>75c to \$25</p> <p>All will be sold at less than you can buy same qualities for elsewhere.</p>	<h3>Ladies' Skirts</h3> <p>One lot made of light, medium and dark gray and black material; some are strap seams, neatly stitched, and worth up to \$4.50. Our closing price.</p> <p>\$2.75</p> <p>One lot made of good Scotch mixtures, assorted colors; values up to \$6.50. Our closing price.</p> <p>\$3.95</p>
<h3>Towels</h3> <p>These towels are 20x40, bleached huck, worth 25c. Our closing price</p> <p>20c</p> <p>Or three for 50c</p>	<h3>Ladies' Wrappers</h3> <p>And outing flannel gowns at 20 per cent off.</p>	<h3>100 Children's Jackets</h3> <p>Sizes from 4 to 14. All qualities marked down, some half and some more; just the time to take advantage of this sale. Prices up from</p> <p>\$1.50</p>
<h3>The Black Giant Hosiery</h3> <p>Misses black ribbed hose, superior quality, fast black, regularly 15c kind. Closing price.</p> <p>10c pair</p>	<h3>Ladies' Hose</h3> <p>Ladies' fast black cotton hose, high spliced heel and toe, regular 20c kind. Closing price.</p> <p>2 pair for 25c</p>	<h3>Tailor Made Suits</h3> <p>Tailor made suits, all going at greatly reduced prices, and all alterations free of charge.</p>
<h3>Boys' Black Giant Hose</h3> <p>Heavy ribbed, fast black, every pair guaranteed for wear, three-thread knee and foot, four-thread heel and toe. Closing price.</p> <p>19c pair</p>	<h3>Ladies' Skirts</h3> <p>One lot made of Scotch mixed goods, mostly dark colors, \$3.50 values. Closing price.</p> <p>\$1.95</p>	

Every Article In This Store Must Go

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SALEM, ORE.

The forty-second scholastic year begins September 12. Sanitary and other improvements lately made in the building. Academic, commercial, grammar grades Intermediate and primary courses. Pupils prepared for teacher's certificates. Full course in music. Particular attention paid to health and moral training. Address Sister Superior.

GRASS SEEDS

SEED VETCHES	ORCHARD GRASS
SEED OATS	ENGLISH RYE GRASS
CLOVER SEED	ITALIAN RYE GRASS
GRASS SEEDS	BLUE GRASS
SEED RYE	LAWN GRASS

All seeds are guaranteed to be clean, fresh seeds. By buying in large lots we are able to quote the lowest prices in the city. Call or write for prices.

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