

GIVES FACTS OF VARIOUS KINDS OF STREET PAVEMENT

Reliable Data Dealing With Laying of Different Forms Submitted for Taxpayers' Benefit by Samuel Hill.

Interesting and valuable information for taxpayers and others interested in street pavements and their cost has been prepared by Samuel Hill, president of the Home Telephone company, and even better known as "the good roads builder," whose road near his country home at Maryhill, Wash., are models of their kind.

Mr. Hill has gone to much pains and expense in gathering his data to make it reliable and complete. Some confusion exists in the minds of many persons as to the difference between the various pavements on the market, and one of Mr. Hill's chief objects has been to make his data valuable for reference in such cases.

"Asphalt pavement is laid in two forms, sheet asphalt and block asphalt," said Mr. Hill today. "The sheet asphalt is the common American form of an asphalt pavement. The wearing surface is made from one and a half to two inches thick and is composed of about 90 per cent of sharp sand and 10 per cent of asphalt.

Permanent Base. "This pavement is always laid on a permanent base, usually of concrete. Some cities have laid this surface over old stone block pavements. Between the concrete base and the wearing surface described above there is usually placed a binder course of broken stone coated with asphaltic cement about one and a half inches in thickness. This binder course is made richer in asphalt than the wearing coat so as to adhere better to the concrete base. A sheet asphalt pavement under the Seattle specifications has been laid by contract on a five inch concrete base for \$1.45 per square yard. This is, however, a very cheap price. In Portland it would be between \$1.55 and \$2.

"The asphalt block pavement is used in a number of cities. The blocks are uniform in shape and usually 4 inches by 5 inches by 12 inches in size. They are composed of a mixture of crushed stone and asphaltic cement in about the proportions 37 per cent of the former and 13 per cent of the latter. Laid on a concrete base this pavement is very similar to the sheet asphalt. In Washington, D. C., such a pavement costs approximately \$1.80 per square yard.

Bituminous Pavements. "Bituminous pavement is similar to the sheet asphalt pavement except that crushed rock is used in the wearing surface instead of the sand. This pavement is laid on either a concrete base or on a base of broken stone. The price per square yard should not exceed that of an asphalt pavement, but it usually does because of the monopoly of the Warren Bros. company here on it.

"The 'E-O' pavement is practically the same as the bituminous pavement. It is similarly made but has another name.

"Bituminous macadam is laid according to the penetration method; the Gladwell system and the mixing method, of which there are three patented processes: Warrenite, Tarmac and Bitumas.

"A bituminous macadam road is broken stone macadam in which an artificial binder has been used. This binder is some form of either tar or asphalt, or a combination of both. The penetration method is used in rebuilding an old macadam road and also in the construction of a new road. The surface to which the hot bitumen is to be applied is loosened up so that the bitumen can penetrate as far as possible into the surface of the road. Sand or stone screenings are then applied and the road is thoroughly rolled. The oil or tar is applied either from a sprinker wagon or under pressure as by the English tar spraying machine. A second and sometimes a third coat of the hot bitumen and sand is often applied.

Foundation Course. "Under the Gladwell system the foundation course of number one or coarse rock is laid and thoroughly rolled. On this is spread a layer of stone chips coated with hot bitumen (either tar or asphalt). This layer is about five eighths inch thick. On this tarred course is spread a course of number two rock (3/4 to 1 1/4 inch). This course is made from two to three inches thick. On top of this course is spread another course of the tarred stone chips of the same thickness as the first. The road is then thoroughly rolled. The tarred stone chips are forced up and down between the number two rock and the whole is bound into a compact roadway.

"Under the mixing method come the various tar and asphalt macadam, in which the surface course is mixed with heated bitumen. Warrenite is one form. It is merely a cheaper class of bituminous. A foundation course of No. 1 rock is laid to a depth of six inches and thoroughly rolled. On this is placed about two and a half inches of their "hot stuff." This is rolled thoroughly, giving a wearing surface of about one and a half inches.

Hot Bitumen Used. "After rolling this course a squeeze coat of hot bitumen is slopped over the road and covered with sharp sand or stone chips and is again rolled. Same as the Maryhill road. The "hot stuff" consists of approximately four parts stone screenings (that will go through a three-quarter inch screen), three parts of No. 1 rock and two parts of sharp sand. To this mixture of stone and sand heated there is added from 20 to 25 gallons per cubic yard of their heated bitumen.

"Tarmac is an English patented pavement. E. F. Hooley is the patentee. Hot furnace slag is broken into various sizes and coated with a patented mixture. The patent states the following proportions: Tar, 92.56 per cent by weight; pitch, 5.79 per cent by weight; Portland cement, 0.41 per cent, and resin, 1.24 per cent.

"Bitumas is a mixture of heated bitumen and a mineral aggregate obtained by passing the earth, sand and gravel excavated from the roadway through a heater, by which process all organic matter is destroyed. It is said to have given satisfactory results where it has been used.

"Of concrete pavements there are three forms: Granitoid or Blome pavement; Hassam, a compressed concrete pavement, and tar surfaced concrete pavement, dolarway.

Granitoid, or Blome Concrete. "The granitoid or blome concrete pavement consists of a base of ordinary concrete well tamped. On this, before it has set, is placed a wearing course of rich concrete. This is struck off to the contour of the street surface and thoroughly troweled. The surface is then marked into small rectangular blocks. A comparatively smooth surface is left. Expansion joints are set on both sides of the street at intervals so that the pavement will not crack. A great deal of this pavement has been laid in Spokane.

"Hassam, named after the patentee, is a compressed concrete. The broken stone is laid between eight and nine inches deep on a well rolled sub-grade, similar to laying a macadam road. It is thoroughly rolled, but no binder is used. This gives a mass of well consolidated broken stone six inches deep, with a minimum of voids. Over the surface of the stone is flushed a grout of one part each of cement and sand, having the consistency of rich cream. The road is then rolled and the cement grout pumped all through the mass of stone. Another application of grout is given and the surface of the road is covered with a thin coating of pea gravel or stone chips and is thoroughly rolled. After it has thoroughly set for about 10 days travel is turned on. Many miles of this pavement have been laid in Portland.

Tar Surfaced Concrete. "Tar surfaced concrete pavement or dolarway consists of a concrete base of carefully laid concrete and a bituminous wearing surface. The concrete is thoroughly tamped and the surface troweled thoroughly or rolled with a hand roller until the cement mortar is brought to the surface. It is finished by brooming so as to leave a roughened surface. Great care must be taken to leave the surface of the concrete even and uniform, corresponding to the finished surface of the street. The concrete is kept wet for seven to 10 days. It is then allowed to thoroughly dry and a blanket coat of hot bitumen is applied. From one to one-half gallon per square yard. This is covered with torpedo sand or fine stone chips. Some engineers roll this course and some do not. This pavement has been in use for its construction. Its cheapness and the ease with which the wearing coat can be renewed are its principal features.

"L. W. Page, director office public roads, U. S. A., recommends that in mixing the surface layer of concrete there be added to the batch a quantity of heavy residual oil equal to 10 per cent by weight of the cement in the batch.

Refined Tar Coat. "Then, that a blanket coat of refined tar or asphalt be applied and covered with screenings or sand. If desired a second application of tar and sand may be applied.

"Expansion joints are left on both sides of the street at the curbs and at least every 50 feet across the road. These are filled with the bitumen.

"Brick pavement is laid with a 6 inch concrete base and 2 inch sand cushion, and the bricks (2 1/4 x 1 1/8) are laid on edge. Joints between the bricks are filled with Portland cement grout. Expansion joints on both sides of the street next to curbs are filled with tar and sand.

"Stone block pavements include sandstone block and granite block, laid over a 6 inch concrete base, with 2 inch sand cushion, joints between blocks being filled with Portland cement mortar.

"Modern wood block pavement is laid on a 1/2 inch concrete base, with cushion of tar, Portland cement mortar or sometimes of sand. Sand is very bad on grades, because if water gets under the wood blocks, they wash the sand to the foot of the grade.

"Joints between the blocks are filled with a bituminous filler.

"Wood blocks are treated with some preservative, usually creosote or carbolineum. Expansion joints are filled with tar on both sides of the street next to the curbs."

Number of Park Workers Increased to Prepare for Awakening of Spring

Many Improvements Planned for Pleasure Spots; Children's Playgrounds Particularly to Be Made Better and More Extensive; Rose Bushes and Pansies Are Being Transplanted at Two Parks; First Straw Hat Put in Appearance.



Scenes in Plaza blocks on first sunny days of spring, where homeless ones and others meet and enjoy newspapers and warm breaths of spring.

Buds, sure harbingers of spring, have put in an appearance already and the first lonesome street hat has already appeared on the street. In other words, spring time is at hand!

Warmer weather and frequent bursts of brilliant sunshine during the week brought Portland's citizens a realization that the time for nature's great annual awakening had come and thousands who hovered near stoves and radiators since December, scurried for the parks and open spots when the sun shot its beams through the ever widening rifts in the storm clouds.

Throughout the week the parks and rest places were animated with a constant flow of humanity. "Down and outers," crooning lovers, nurses with squalling infants and tired men and women, anxious for short respite from business grind sought the park benches or strolled over the trails. A few of more heroic mold defied the gripe and picknicked on the damp sod.

In preparation for the spring and summer work Superintendent of Parks E. T. Mische has increased the winter force of 40 park workers to 80 and is launching all manner of improvements. At present the children's playgrounds at the City Park are being improved, wading ponds are being added and part of the grounds are being resurfaced.

The work of transplanting the tender plants from the green houses to the out of doors will be started as soon as the weather settles. At present 15,000 rose bushes are being planted and next week 15,000 pansies, will be set out in the City and Peninsula Parks.

"The spring rush has hardly begun," said Superintendent Mische yesterday. "The park employees, have their hands full, however, and with trimming, planting, transplanting and getting the parks in order, they will be mighty busy for some time to come. Spring is upon us and as the great majority of city folk can enjoy it only in the parks we want to be ready and have the parks beautified to add to the people's pleasure."

It will become the strongest homogeneous party in the country; in Austria and Hungary it is spreading rapidly; in the United States and England the masses of the working classes are approaching more and more closely to it; in Belgium it is rapidly absorbing Liberalism. There is no country, not even excepting Turkey, which has not been affected by it. Nor can we gauge its strength from its forces in the various legislatures—many Socialists are indifferent about parliaments, many hundreds of thousands of them scattered here and there in all countries have been unable to obtain legislative representation.

"According to several of its most authoritative spokesmen, socialism is fundamentally opposed to Christianity, but since the birth of Christianity itself no movement has grown steadily, has spread so widely, has taken so deep a hold on the people, has shown such marked characteristics of permanence.

Socialism Is Compact Organization. "In different countries its followers may differ in details—they may be more or less revolutionary, they may adopt different methods of propaganda, they may be more or less disposed to form a temporary alliance with other parties in the state, they may be more or less disturbed by factional strife. But the great outstanding fact is that Socialism, although it possesses no central authority and no universally recognized international leaders, is a united movement, thoroughly international, independent of

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EIGHTEEN LOTS SOLD

AVERAGE PRICE \$500

The German Realty Trust company reports the sale of 18 lots in Altamere last week for an average price of \$500 a lot, the total consideration aggregating little above \$9000.

When Altamere was put on the market last fall there was a total of 353 lots in the tract and there now remains less than 80 unsold. Six new homes are under construction in the tract and lot owners in the addition are making preparations to build a large number of dwellings this spring and summer. Cement sidewalks and curbing are being laid throughout the tract.

that. But it may be found that 30 per cent of Socialists are Socialists not because but in spite of the theology. Its philosophy is absurd. All right—but the people do not vote for it on account of its philosophy. It destroys the natural and supernatural conceptions of family life. Very good—but the grade fact is that Socialists, in flesh and blood, taking them in the mass, have about as much (and as little) respect for the marriage bond and for the ties of family as most people outside the Catholic church who are not Socialists.

"There can be no question that great numbers of Socialists are anti-Christian—but it is also well to remember that some Socialist leaders proclaim that the question of religion does not enter essentially into Socialism, and it is highly doubtful if any large proportion of Socialists in Germany or in English speaking countries have been drawn into the movement by its anti-religious principles.

"What is drawing them? Putting it broadly it seems to us that the multitude are being influenced chiefly by two sentiments; one of discontent with the present economic structure of society, the other of a desire for a practical recognition of the brotherhood of man and for the abolition of barriers which prevent this recognition."

In the closing part of the review which is devoted to a statement of the manner in which the church can best triumph over Socialism, it is suggested that it would be far better instead of opposing Socialism, for the church to work more strongly for the same ends that are common both to the church and the Socialists. By this course, it was believed, the church would become the stronger of the two.

conditions of race, climate, language or social development. "Nor is it confined to the proletariat as many suppose—it is making conquests in all grades of society. We have to come to this: In the modern world today there are two and only two forces that are homogeneous and international and these are the Catholic church and Socialism.

"Such is the situation. That we are becoming and more awake to it is evident from the extraordinary attention which is being devoted to the topic of socialism by exponents of Catholic thought. "The theology of Socialism is hopelessly wrong. It is easy enough to prove

A LITTLE DANDERINE WILL MAKE YOUR HAIR LUSTROUS, SOFT, FLUFFY, ABUNDANT

Get a 25 Cent Bottle Now and Forever Stop Falling Hair, Itching Scalp and Dandruff

If you Wish to Double the Beauty of your Hair in Ten Minutes surely Try a Danderine Hair Cleanse

Your hair becomes light, wavy, fluffy, abundant and appears as soft, lustrous and beautiful as a young girl's after a Danderine hair cleanse. Just try this—moisten a cloth with a little Danderine and carefully draw it through your hair, taking one small strand at a time. This will cleanse the hair of dust, dirt and excessive oil and in just a few moments you have doubled the beauty of your hair.

A delightful surprise awaits particularly those who have been careless, whose hair has been neglected or is scraggy, faded, dry, brittle or thin. Besides beautifying the hair at once, Danderine dissolves every particle of dandruff; cleanses, purifies and invigorates the scalp, forever stopping itching and falling hair.

Try as you will, after one application of Danderine you cannot find any dandruff or a loose or falling hair, and your scalp will never itch, but what will please you most will be after a few weeks' use when you will actually see new hair—fine and downy at first—yes—but really new hair sprouting all over the scalp. Danderine makes the hair grow long, heavy and luxuriant and we can prove it. If you care for pretty, soft hair and lots of it surely get a 25 cent bottle of Knowlton's Danderine from any druggist or toilet counter, and just try it.



For County Assessor



HENRY E. REED

I will give personal attention to the office. You will find me on the job all the time.

Expenses of the Assessor's office have increased 272 per cent since 1903. I will separate the office from politics, and that will save the taxpayers' money.

I will not permit deputy assessors to pass out election cards and campaign literature included in assessment blanks.

I will conduct the assessor's office according to law. No juggling with the assessment rolls.

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