

SEAWALL PROJECT

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vided with flooring. The superstructure is then put on after the cribs are in place, connecting the work in a substantial manner. Or the cribs may be constructed directly over the place they are to occupy under the present wharves and around the piles of such wharves and approaches, thus avoiding the disturbance of existing structures until the practical completion of the seawall.

"Dredging may be necessary in places, but the extent of this cannot be definitely determined except from surveys. By careful sounding of the places the cribs are to occupy, the bottom courses of the cribs may be stepped to conform to the bottom of the river bed, thus doing away with the dredging in nearly all places.

"An average cross-section, for a depth of about 13 feet below low water, is shown, and extends to the level of about 15 feet above low water, probably the average height of the city's present docks.

"The face of the seawall will be built on such lines as may later be deemed advisable, allowance for curvature being made by the off-set at the end of each crib. The front of the seawall is shown with a batter of 3 inches to the foot; its rear is vertical.

"About every 120 feet it will have an anchor crib on its rear, 24 feet wide and 15 feet high, to the height of about low water.

"The first, or bottom course of the crib will consist of round logs, placed longitudinally of the crib in four rows, one at the front and one at the rear, and the other spaced equally between them, all with proper break of joints. Upon these rows of logs round log ties will be placed transversely of the crib, running from front to rear in single lengths, spaced vertically about 8 feet centers, and properly notched down upon the lower logs. From these tie logs, the crib will be similarly built up of alternate longitudinal and transverse rows of logs, with the desired batter.

"Each longitudinal and each tie log will be bolted to the log upon which they bear with 1-inch driftbolts.

"On the top of the second full course of longitudinal logs from the bottom of the crib, and the anchor, a close flooring will be laid transversely of the logs not less than 8 inches in diameter. Each flooring log will be fastened at each bearing with 1-inch driftbolts.

"In alternate bays of the front of the crib, and in rear of the anchor crib, the floor will be omitted.

"Below low water, the logs may be of hemlock, and above low water they should be of fir.

"The crib work will be filled in from the level of the flooring course with rubble stone, substantially as shown on the plan.

"In the building of the cribs provision may be made for wooden box drains for sewer outlets, with manholes for entrance to the sewer boxes.

"Where the seawall is to sustain great pressure from the rear, piles may be driven through the bays where the flooring is left out.

"The seawall may be constructed in deep water and used directly as a landing for vessels, subject to certain modifications in the batter of front of crib, etc., as shown on the plan, and fender piles in the usual manner.

"The proposed seawall is very simple and elastic in its construction, and will answer all needs of the port for many years to come. The crib construction below low water not being subject to decay, permits of a more costly and permanent superstructure of concrete or other material when the importance of the city demands such improvement.

"In the construction of the proposed seawall the materials are such as are readily obtained in the immediate vicinity, no expensive plant is needed in its construction, and very little skilled labor required."

Mr. G. C. Fulton was asked to state his opinions as to the legal processes. He did so, and said the Promotion Committee had especially desired Mr. Hegardt to be present at this time and to start off the movement in this manner. He thought the start was made exactly right. The first thing necessary was to find out the cost. Then the bill must be prepared for the people to vote on, either a regular or special election. Personally, he preferred a special election, but thought finances might not permit of any action before the regular election a year from next June.

Those present were: G. C. Fulton, F. J. Carney, F. L. Parker, Herman Wise, W. C. Logan, F. A. Fisher, J. W. Welch, G. C. Flavel, G. Wingate, Judge Taylor, B. Van Dusen, John Hahn, D. M. Stuart, J. N. Griffin, F. N. Clark, Mr. Anderson of the Scandinavian-American Bank, C. W. Carnahan, E. M. Baker, J. E. Gratke, A. S. Tee, F. I. Dunbar, J. T. Ross, Olaf Anderson, James Finlayson, J. T. Wallace, and J. H. Whyte.

Opinions Expressed.

A representative of the Astorian interviewed several of the prominent business

men present and their views are here-with presented.

Mayor Herman Wise—"I feel very earnestly regarding this matter. It should certainly be taken up and forwarded vigorously. We cannot expect outside capital to invest money here while our city is on stilts and we should have it built on solid ground. The cost of the seawall according to the plans for the frontage from the Parker House to the Clatsop Mill would only be about \$100,000. This is comparatively a small matter for Astoria as it is only about \$7 or \$8 per capita. Some talk has been made about the present stringency and putting aside the project until times are better. In my opinion now is the time to go ahead; give people who are out of employment the means of earning their way and make conditions locally good. As far as the legal aspect of the proposition is concerned I am confident the council at its next session will instruct the city engineer to procure data setting forth the exact estimate of the cost of the project. It will only require a petition of some 250 taxpayers to request the council to amend the charter to accord with the plans proposed, and knowing, as I feel I do, the enterprise, of Astoria's citizens I am confident the project will be gone ahead with. As far as I am personally concerned I stand ready to do all in my power to further this project which means the upbuilding of our city."

J. W. Welch—"Regarding the seawall proposition the plan is certainly feasible and practical and the people of Astoria should certainly get together and carry it out. The project will not cost as much as has been intimated and a mile of permanent seawall can be built for about \$130,000. The city will never amount to much until it is resting on solid ground and we have solid streets. It is to be hoped our citizens will decide to go ahead with this project."

G. C. Fulton—"I am heartily in favor of the project. The feasibility of the plan is apparent and practical, and if the project can be financed we should by all means go ahead and build the seawall and fill in our streets."

F. L. Parker—"I am heartily in favor of going ahead with the proposition on the lines laid down by Mr. Hegardt. It is certainly feasible and practical."

J. T. Ross—"Mr. Hegardt's plan is a starting point. I have not had time as yet to give the matter consideration, but consider that the plans seem practical."

G. C. Flavel—"Not having had time to consider the project thoroughly, and am not prepared to say anything regarding the matter. There is much data to be prepared and until the cost is estimated it will be impossible to form any opinion on the subject."

He Fought at Gettysburg.

David Parker, of Fayette, N. Y., who lost a foot at Gettysburg, writes: Electric Bitters have done me more good than any medicine I ever took. For several years I had stomach trouble, and paid out much money for medicines to little purpose, until I began taking Electric Bitters. I would not take \$500 for what they have done for me." Grand tonic for the aged and for female weaknesses. Great alternative and body builder; best of all for lame back and weak kidneys. Guaranteed by Charles Rogers & Son, druggists, 50 cents.

SQUADRON MAIL.

WASHINGTON, D. C., Nov.—Admiral Evans directs that all mail intended for those on board the battleship squadron while en route to San Francisco be addressed "Care Postmaster, New York," until February 5 and afterwards, "Care Postmaster, San Francisco."

A Good Liniment.

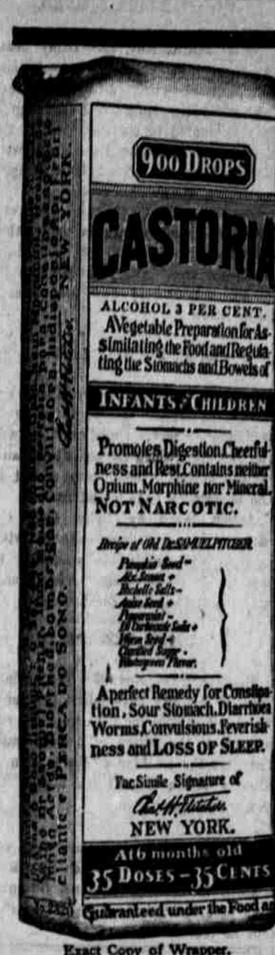
When you need a good reliable liniment try Chamberlain's Pain Balm. It has no superior for sprains and swellings. A piece of flannel slightly dampened with Pain Balm is superior to a plaster for lame back or pains in the side or chest. It also relieves rheumatic pains and makes sleep and rest possible. For sale by Frank Hart and leading druggists.

On reaching England the kaiser ran into a regular British pea soup fog, but he will feel there are compensations when he sees his royal uncle's new \$750,000 diamond.

When you need a cough cure you need one that will cure your cough. Kemp's Balsam, the best cough cure, will do it. All druggists sell it for 25 cents.

The Commercial.

The Commercial still continues to do a good business. The finest grades of different kinds of refreshments kept at this well known establishment assures a continuance of its popularity. The proprietor, Otto Sund, is a genial gentleman, and is well and favorably known in this city. Drop into the Commercial when in the neighborhood. It is on Commercial street near Eleventh.



CASTORIA For Infants and Children.

The Kind You Have Always Bought

Bears the Signature of

Dr. J. C. Hutchins In Use For Over Thirty Years CASTORIA

OUTLOOK CHEERFUL

(Continued from page 6)

many parts of the country, the majority are noticeably from manufacturing centers, the Pittsburg region being perhaps the heaviest contributor. A curious development of the situation is found in the fact that while first and second class cabin rates to Europe have been cut, steerage rates are being advanced. While the outflow of cash in the hands of these departing foreigners is a disadvantage in the present money situation, it is pointed out by careful observers that their departure is on the whole a good thing as it tends to relieve the labor and industrial situations.

The leasing of a space 21 by 9 feet, to be used as a cigar stand, at an annual rental of \$40 per square foot, has not only established a high rent record for New York and consequently the whole world, but has officially located, as it were, the choicest bit of space on earth for business purpose. The plot, hardly as large as a good sized room, which commands an annual rental of \$7500, is located in the new Hudson Terminal, where it is estimated that more than half a million commuters will pass every day. In spite of this tremendous crowd to draw on for patronage, the enormous rent to be paid for this costliest plot in the world will necessitate a business on the part of the little 9 by 21 cigar stand which will occupy it, equal in volume to that of many a large store. It is estimated by experts that 250,000 two for a quarter cigars or 625,000 five-cent smokes, will have to be disposed of before any profit can be made, or at the rate on the latter basis of 2,000 cigars daily. High as the rent to be paid in this instance may seem, there are other plots which command amazing prices. Throughout the new station the prices of space for booths range from \$15 to \$30 a square foot annually, while stores 20 by 60 feet will bring about \$12 a square foot in rentals. One ambitious bootblack will pay \$4,000 annually for a space 19 feet by 8 feet, although this is said to be no higher than a price once paid for a similar purpose in one of the big life insurance buildings.

It is better to cure the little cough than to take chances of consumption. The best cough cure is Kemp's Balsam. Druggists sell it at 25 cents and 50 cents a bottle.

A medical journal announces that color photography has been found useful in the study of disease. Experts on the witness stand will be more formidable than ever.

There is nothing else "just as good" as Kemp's Balsam, the best cough cure, and the other kinds cost just as much as this famous remedy.

It has been lately discovered that sponges grow in Alaskan waters. Specimens of this variety will be exhibited at the Alaska-Yukon-Pacific Exposition.

The Astorian, 60 cents monthly. Chapped hands are quickly cured by applying Chamberlain's Salve. Price, 25 cents. For sale by Frank Hart and leading druggists.

TRY THIS FOR YOUR COUGH.

Mix half ounce of Concentrated oil of pine with two ounces of glycerine and a half pint of good whiskey; shake well each time and use in doses of a teaspoon to a tablespoonful every four hours.

This is the formula prescribed by the renowned throat and lung specialist who established the camp for consumptives in pine woods of Maine and whose remarkable cures attracted widespread attention among the medical fraternity. He declares that it will heal the lungs and cure any cough that is curable and will break up an acute cold in twenty-four hours. The ingredients can be secured from any prescription druggist at a small cost and is easily mixed at home.

Be sure not to buy the ordinary bulk oil of pine nor patent medicine imitations frequently put up in wooden boxes, they will produce nausea on account of the impurities they contain and frequently do permanent injury to the kidneys.

The real "Concentrated" oil of pine is put up for medical use in half ounce vials enclosed in small tin screwtop cases which protect it from heat and light.

It is also said to be an excellent remedy for lumbago and all forms of uric acid rheumatism. For this purpose it is taken raw; a few drops on sugar night and morning.

CAN'T BE SEPARATED.

Some Astoria People Have Learned How to Get Rid of Both.

Backache and kidney ache are twin brothers. You can't separate them.

And you can't get rid of the backache until you cure the kidney ache.

If the kidneys are well and strong, the rest of the system is pretty sure to be in vigorous health.

Doan's Kidney Pills make strong, healthy kidneys.

H. J. Young, of 290 1-2 Morrison street, Portland, Ore., says: "I have had no occasion to use any kidney medicine since 1903, and that is the very reason why I can recommend Doan's Kidney Pills so strongly. This remedy relieved me at that time of an annoying attack of kidney complaint which had clung to me for quite a while, and had become aggravated by a cold which settled in my back. The relief was speedy and lasting, and not the slightest trace of a recurrence has appeared during the three years that have elapsed. I am convinced that this is good proof of the value of Doan's Kidney Pills."

Advertisement for Doan's Kidney Pills, including a small illustration of the product box and text describing its benefits for kidney ailments.

Advertisement for Astoria Savings Bank, listing capital, interest rates, and branch information.

Advertisement for First National Bank of Astoria, Ore., established 1886, with capital of \$100,000.

Advertisement for Sherman Transfer Co., listing services like hacks, carriages, and furniture moving.

Advertisement for THE GEM C. F. WISE, Prop., featuring choice wines and cigars.

Advertisement for Astoria & Columbia River R. R. Co. with a detailed time card for various routes.

Table with columns for departure times, destinations (Portland, Astoria, etc.), and arrival times.

Additional text for the railroad advertisement, including connection information and contact details for R. H. Jenkins.

Large advertisement for AMERICAN IMPORTING CO. featuring 'That Dinner' and a list of various wine selections.