

**1500 PILES WHICH COST \$12,000 ARE USED AS SUPPORTS**

**Predicts That Building Will Be Standing When City Has Population Which Runs Into the Millions.**

A new story of construction, a tale of endless strength and endurance, is slowly being unfolded in Portland. On the east side of the river, at the place where the railroad tracks cross Morrison street, the John Deere Plow company is erecting a new warehouse. This in itself is not so interesting. Other eastern manufacturers have erected warehouses in the city and made it the distributing center of the great northwest. So that part of the story is old. But it is the building itself that attracts attention. Years ago the river deposited its cargo of sand and silt along the present waterfront on the east side and man has supplemented this with other deposits. This process of reclamation has added much to the territory of the section of the city devoted to business.

The land so made is not substantially firm to support heavy buildings and when the John Deere company decided on construction the problem of foundation came up. And that is where the story begins.

**Piles Are Costly.**

For weeks pile-drivers pounded long poles into the ground where each pillar was to stand. Fifteen hundred piles were driven, 25 under each of the 60 pillars. The cost of each pile, when it had been settled into place, amounted to \$8, a snug sum in itself. Thus, before work was really commenced on the building a small fortune, enough to construct a good sized structure, had been spent. This 12 or more thousand dollars would have built a half dozen good homes or a business block of some proportions. But it was necessary.

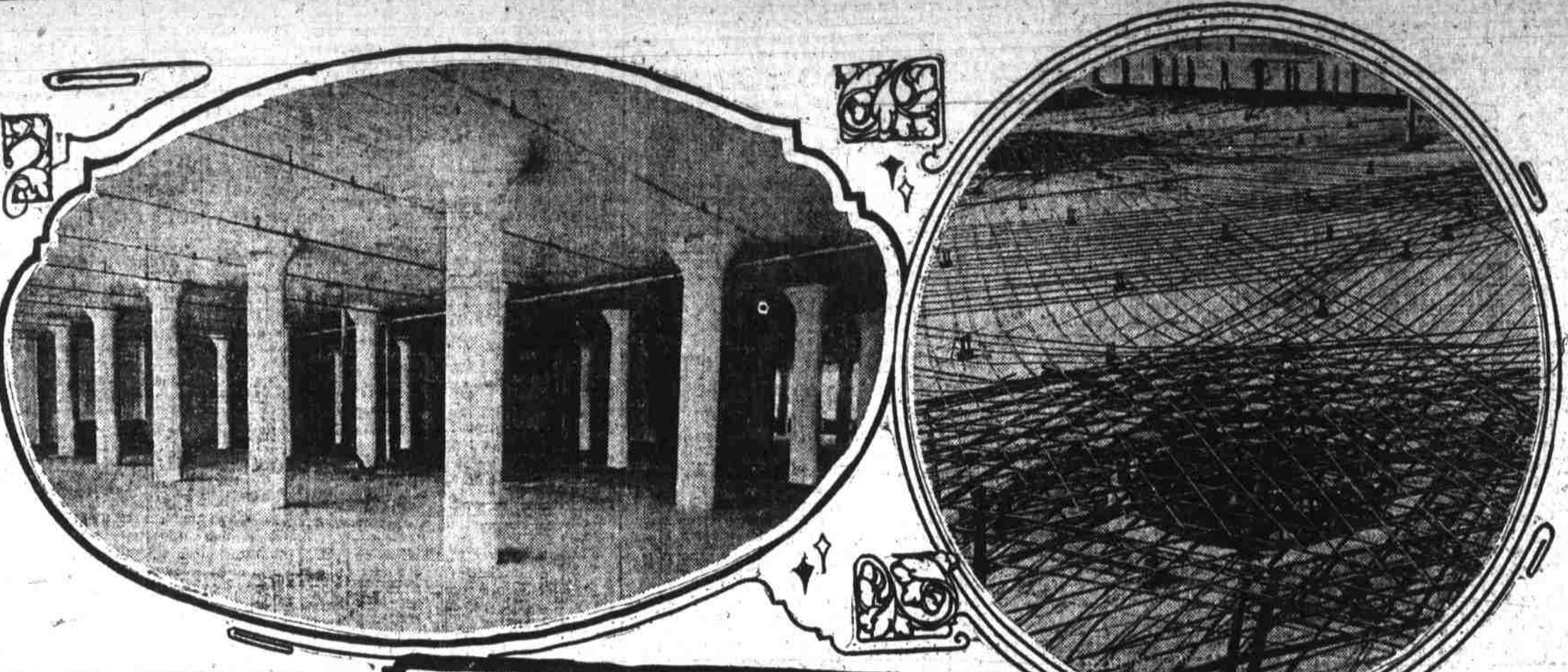
Then came the work on the real foundation. First a mat was laid, a network of half-inch iron rods and upon this was spread two feet of solid concrete. The walls of the basement are immense barriers, nearly two feet in thickness, defying water and the wear of time. The basement is waterproof and goods of the finest texture could be stored there in safety from the high water at various seasons of the year. It is 100 by 200 feet, and with the floor and piling, represents an outlay of \$75,000.

**Construction of Piers.**

The first floor consists of 10 inches of concrete interlaid with a mat of half-inch iron rods. From this floor circular piers of concrete and iron have been built. These piers are first reinforced with iron rods an inch and a quarter in thickness, placed a few inches apart, themselves a guarantee of strength. Around them are placed spirals, built of half-inch iron rods. Over all is placed a galvanized sheet iron case, in which the concrete is poured. These piers are 34 inches in thickness on the street floor and decrease in size to the top or the eighth floor, where they are to be two feet through. Sixty-six of these support each floor.

Ten thousand yards of concrete is to be used in the building. Each yard weighs two tons. A giant mixer has been established in the basement of the building and each week grinds out enough material to build one floor. As a superstructure upon which the floors are laid, 400,000 feet of lumber must be used to hold the immense weight until the whole mass has sufficiently hardened.

**NEW SYSTEM AND ONE OF MARVELOUS DURABILITY USED IN ERECTING EAST SIDE WAREHOUSE OF JOHN DEERE PLOW COMPANY**



needed to sustain itself. This lumber consists chiefly of two-inch material, and the amount wasted in cutting the supports to proper length would supply kindling wood for a hotel for months.

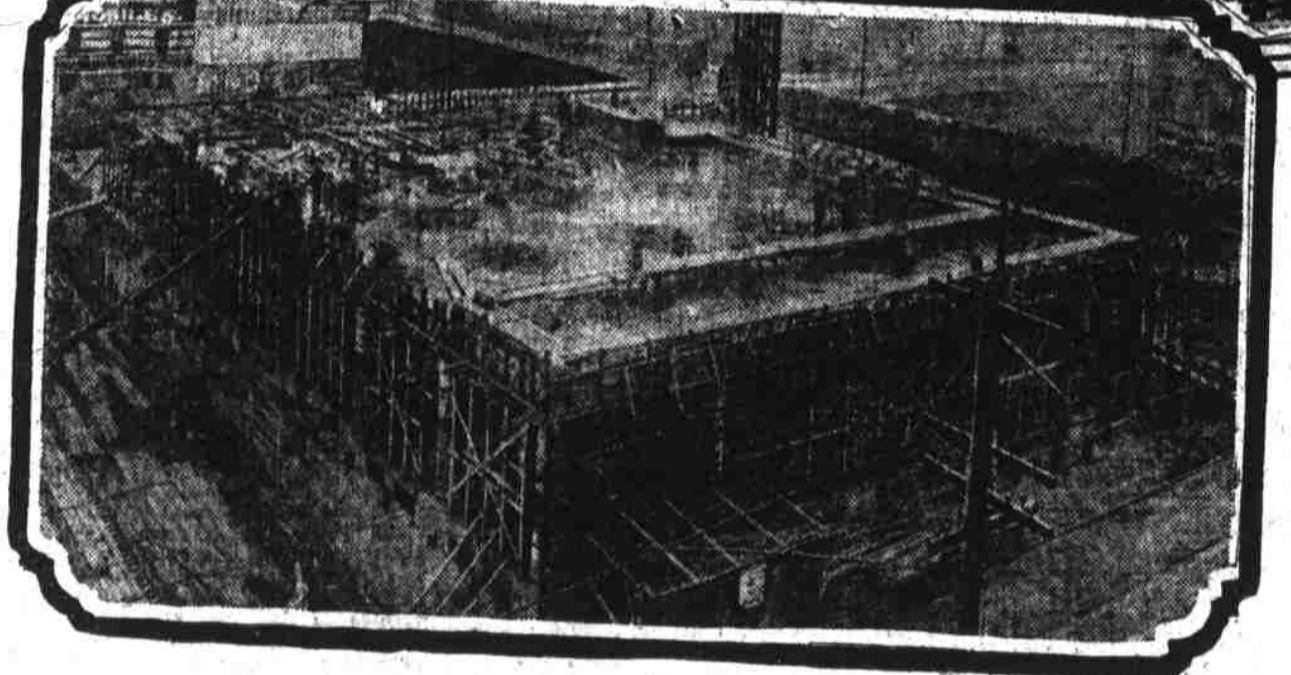
**New to Pacific Coast.**

The building is designed in what is known as flat slab construction, without beams or girders. This has been popular in the east, but unknown on this coast until the present building was planned. The ceilings are perfectly smooth, considered by architects an advantage in providing light. The windows will extend from ceiling to floor, affording plenty of light at all hours of the day.

The exterior of the building is to be of pressed brick and terra cotta, designed for beauty and impressiveness. While the structure is absolutely fire-proof in construction, an elaborate sprinkler system has been designed for each floor, added protection to whatever may be stored there.

This building is growing at the rate of one story each week. The Leonard Construction company of Chicago, Portland and Toronto, the contractors, have promised to have it ready for occupancy by May 1, 1911, and 300 men are constantly employed at the work. When completed it will represent an outlay of \$250,000.

How long will this building last? Well, fire cannot destroy it; earthquakes cannot jar it; time cannot affect it, and unless something extraordinary happens it will be standing when Portland has a population of 10,000,000.



In the upper righthand picture is shown the interior of the Deere warehouse, with immense pillars and sprinklers. To the left is a view of the matting laid over the pillars on the upper floors. Below is a perspective of the building as it appears at present.

**JUDGE SAYS HE WILL GET EVIDENCE IF NECESSARY**

"If some saloon owners, who have been making a practice of the custom, do not stop selling liquor to men who are drunk, I shall go out and get the evidence myself."

This statement was made yesterday by Municipal Judge Tawell after he had convicted George Iles, a saloonkeeper, who was accused of selling liquor to two intoxicated men. A fine of \$50 was imposed upon him.

A German inventor claims to have made a telephone booth sound proof by lining it with tin.

**VOLCANO MOST WONDERFUL SIGHT**

**Dr. J. C. O'Day, Portland Man, Interested in Aloha Excursion, Gives Description.**

Dr. J. C. O'Day, of the Medical building, was at one time a resident of Honolulu, and was physician to the family of Liliuokalani, and enjoyed an extensive practice throughout the islands. As a consequence he is much interested in anything pertaining to what Mark Twain has fittingly described as the "loveliest fleet of islands that lie anchored in any ocean."

Because of his love for Hawaii and everything pertaining to the islands, he is much interested in the "Aloha" excursion, which sails from Portland February 1, next. In an interview yesterday the doctor gave a very interesting description of one of his trips to the crater Kilauea, the world's largest active volcano. He said:

"Standing on the spacious veranda of the Volcano house, a modern, up-to-date hotel built on the very rim of the crater, and looking far out, you behold, three miles in the distance, the blue, lazy fumes suspended over the pit. A trip down to the crater's floor is one narrative throughout a lifetime. As night descends the purple haze cloud of the discharge begins to take on a delicate pink, gradually deepening to a flaming red as the night sets. Oh, what a glow! The whole heavens seem to throw it back till the fancy takes you. With each rise and fall of the distant boiling lava the glow deepens and fades rhythmically, and the whole heavens seem to be a living, breathing monster.

"Down the zig-zag trail, leading from the crest to the floor of the greater crater, the guide leads the way. At each footstep you watch that wondrous, awe-inspiring, evasive glow. How black seems the ground beneath; how bright the heavens above. Steam rises on either side, while you are crossing one of the many fissure bridges. Lava stones, painted white, mark the trail. Turn a little to the right you enter the devil's kitchen. Here you will meet many visitors making coffee over the 'devil's stove,' or searing souvenir post cards to send home as a token that the tale is true.

"At last step by step you ascend the slope of the crater of the largest and most active lava volcano in the world. No word can prepare you for the sight. Like ocean billows, or the mighty surf, the boiling, molten lava dashes and sprays, heaves, roars and splashes, one enormous, wonderful, grand kaleidoscope of fire. The old tradition that hell is situated in the bowels of the earth seems true. In time, you muse, all my friends from Portland must pass this portal.

"Should the molten, boiling, seething lava rise to the crest of the crater, have no fear. You are on the high side. When it does overflow it is into the large crater the lava is spilled; thus in time shall the large one become obliterated.

"To watch this grotesquely spectacular performance of nature is certainly the treat of a lifetime."

**Hearing Postponed.**

The hearing of the charges against Sergeant H. E. Parker of the police department, who was suspended from duty by the chief early in the week for alleged brutality to a prisoner, has been postponed until next Tuesday. The charges are made by Jailer-O'Leary. The hearing will be held before Captains Moore, Baty and Bailey.

**PRIZE WINNERS IN CONTEST KNOWN SOON**

The Commercial club's prize offer for articles descriptive of the northwest, published in eastern papers, created a great deal of interest all over the country, as is shown by the large number of people who have entered newspaper stories and magazine articles. These are coming in to the Commercial club in large numbers and will be turned over to the judges intact for their decision shortly after the first of the year. Three judges to decide the merits of the various articles will be appointed by the governor of the state.

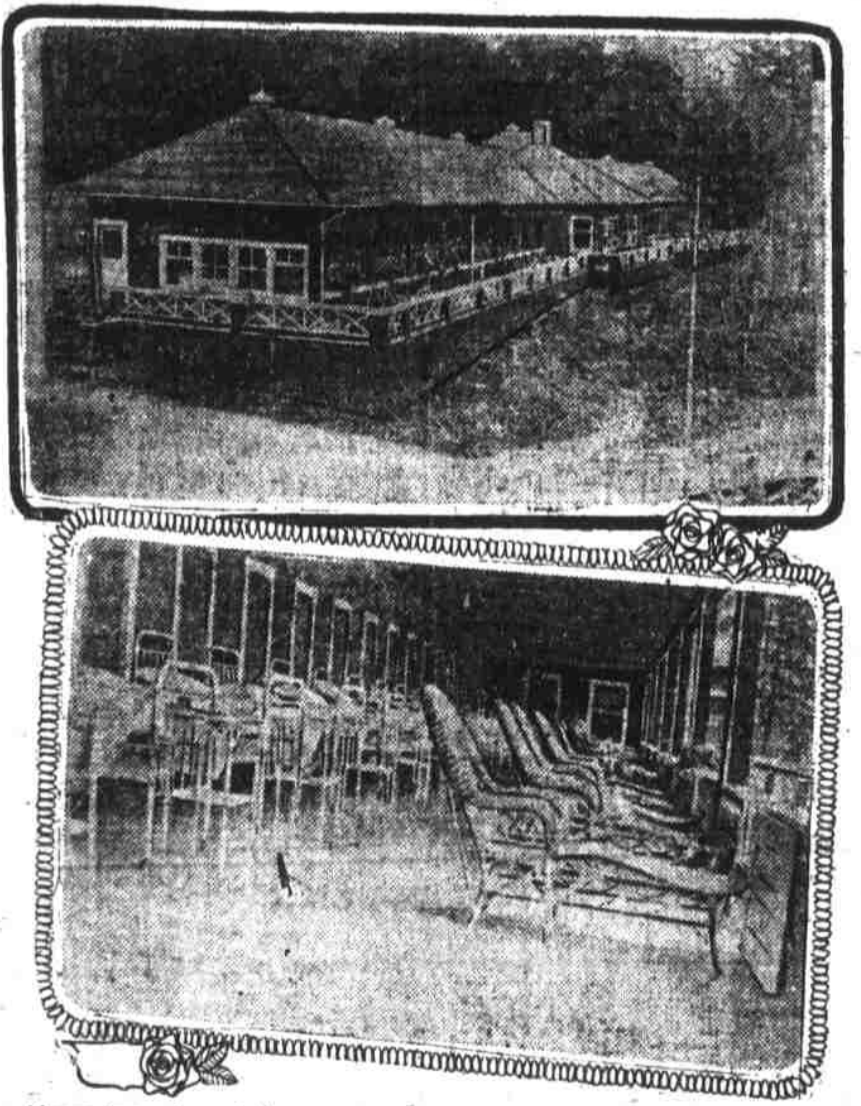
Some very high-class advertising for Oregon has resulted from this prize contest. Many of the best known magazines of the country have been reached and attractive phases of life in the northwest have appeared from time to time. A great many photographs of Oregon scenes have appeared as a result of the contest.

Articles may yet be entered any time up to February 1, 1911, provided they were printed in some regular edition of a newspaper or magazine published outside the states of Oregon and Washington, prior to January 1, 1911. It is expected by the Commercial club that there will be quite a shower of articles during the next month that the writers have so far failed to enter.

Competitors for the prizes must submit a complete copy of the periodical containing the prize story, and the same must be sealed and delivered to the Portland Commercial club. They will then be turned over, unopened, to the judges who will be appointed by the governor, and the articles will be marked strictly on their merits.

The 80 prizes offered, aggregating \$5000, will be paid by check drawn by the promotion committee of the Commercial club; the money is now on de-

**\$25,000 NEEDED FOR STATE TUBERCULOSIS SANATORIUM**



Above is a view of the exterior of the State Sanatorium and below is a picture of one of the open air bedrooms.

An appropriation of not less than \$25,000 will be needed for the maintenance of the state tuberculosis sanatorium at Salem, according to estimates furnished the state board during its meeting last week at Salem. It is understood that the estimates for maintenance and improvements given by the superintendent, H. J. Clements, pass beyond this figure. But the state tuberculosis board is not inclined to ask for more than \$25,000 with which to support this branch of the state's public health protection during this year.

Members of the state tuberculosis board are Dr. E. A. Pierce, A. I. Mills, Leslie Butler of Hood River, George Rogers of Salem, Dr. Andrew C. Smith and Dr. Calvin S. White. The last two named are members of the board by virtue of their respective offices as president and secretary of the state board of health.

In equipment, location and sightliness, the state tuberculosis sanatorium is said to be the best in the west. The main building is commodious and has much more room than is now being used for the sick wards. In addition open air pavilions of the most modern type have been and are being built. The pavilion shown in the picture is to the right of the main building. One half is devoted to the care of men patients, the other half to women. All have suitable attendants. Each patient has a compartment with bed and reclining chair in the open air, and at the rear a heater room, where clothes are changed and stored. The new sanatorium has been open only a short time, but many patients have been received, and applications received for a large additional number.

As it is found possible, patients will be encouraged to work to their capacity, in order that those whom a plain diet, open air life and exercise would restore to life may have the chance.

**Y. M. C. A. EXPECTS 1500 IN SCHOOL**

**Winter Term to Open With New Members Added to Faculty.**

Preliminary registration for the winter term in the educational department of the Portland Young Men's Christian Association indicates that the attendance will be much larger than ever before. Last term there were 975 and boys pursuing studies at the Y. M. C. A. Within the next two weeks number will probably be increased \$200 and before the end of the school year, will probably reach 1500. Last year the total registration was a little more than 1000.

The present year has been by far the most active in the history of the Y. M. C. A. educational department, said E. C. French, educational director last night. "Not only are the classes larger, but several new studies have been introduced with great success. We plan to add still another course next term, the study of piano tuning and repairing. This is in line with the association policy which is to be ready at all times to take up any line that will help men to be more efficient."

Several additions to the Y. M. C. A. faculty have been made. L. E. Hartley has resigned as vice-president of the Omaha Commercial college to accept a position in the commercial department. Mr. Hartley desired to move to Portland because his relatives live here.

The registration in the boys' department has gained so rapidly that Arne Kruse has been added to the staff of teachers in that department.

position in a local bank. Winners should be announced some time early in the spring.

Mendota Nut coal for ranges; no dirt; \$6 ton; delivered. Truscott Fuel Co., 13th and Overton. M. 65, A-1665.

Journal Want Ads bring results.

**Johnson-Jeffries Pictures**

Pictures of the big battle will be shown at the Bungalow theatre three days, commencing this morning at 11 a. m. Continuous performance. Ringside seats, 50 cents.

**The Meier & Frank Store**

**Announces That, Beginning Tuesday, January the Third, Waldemar Lind's Portland Hotel Grille Orchestra Will Render a Concert Daily, 12 to 2 o'Clock, in the Restaurant and Tea Room Seventh Floor**

**A La Carte Service at Moderate Prices; Unexcelled Cuisine and Beautiful, Quiet Surroundings**

**The Meier & Frank Store To the People of Portland and the Pacific Northwest**

**THE MEIER & FRANK COMPANY** extend to you a joyous New Year greeting. We hail 1911 as the dawn of the greatest period of prosperity the Northwest has ever known, and hereby pledge ourselves to the utmost community service by leading the West in mercantile store-work.

**The Store Will Remain Closed All Day Monday**

