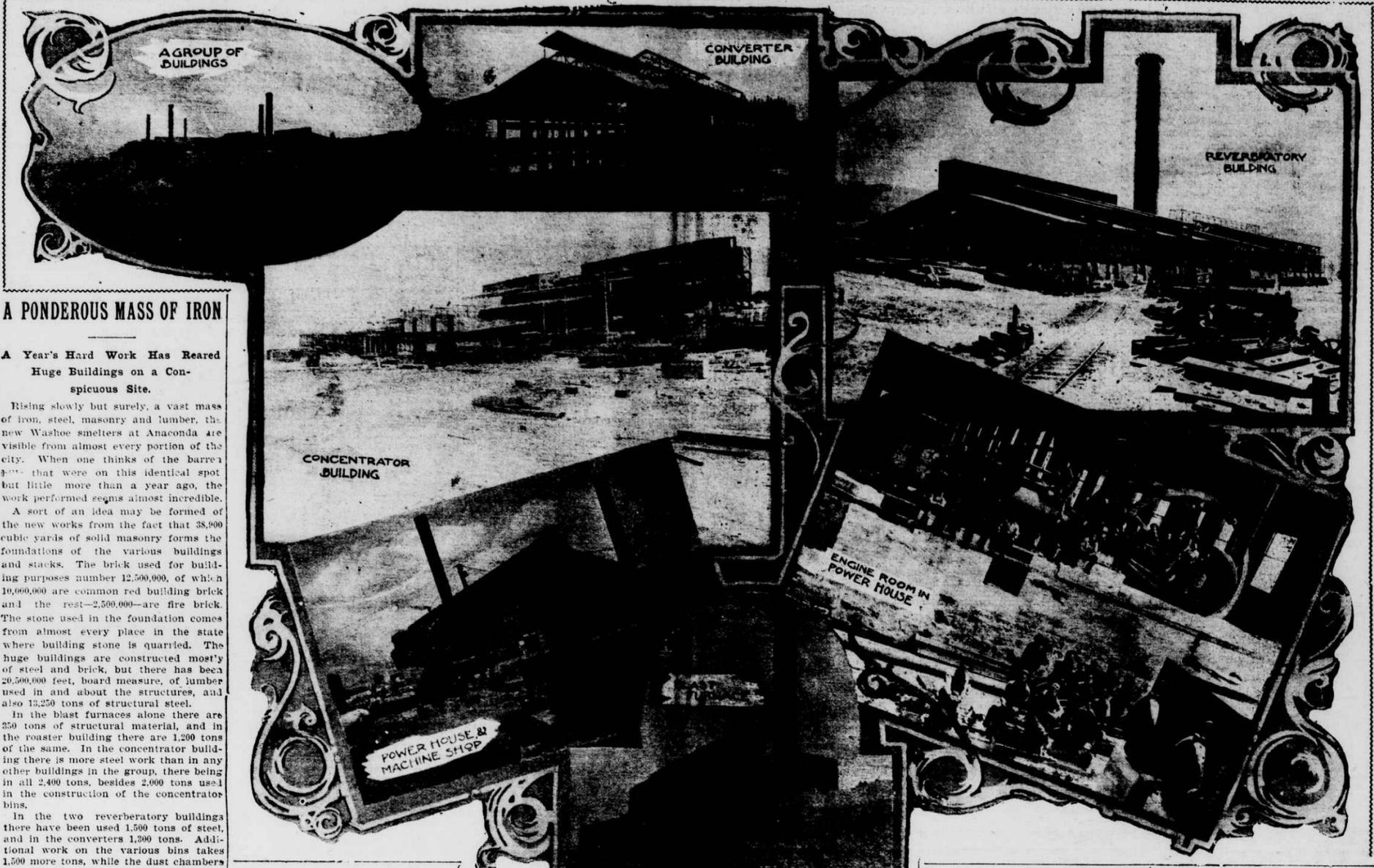


# How the Giant Washoe Smelters Grow.



## A PONDEROUS MASS OF IRON

A Year's Hard Work Has Reared Huge Buildings on a Conspicuous Site.

Rising slowly but surely, a vast mass of iron, steel, masonry and lumber, the new Washoe smelters at Anaconda are visible from almost every portion of the city. When one thinks of the barren spot that were on this identical spot but little more than a year ago, the work performed seems almost incredible.

A sort of an idea may be formed of the new works from the fact that 38,900 cubic yards of solid masonry forms the foundations of the various buildings and stacks. The brick used for building purposes number 12,500,000, of which 10,000,000 are common red building brick and the rest—2,500,000—are fire brick. The stone used in the foundation comes from almost every place in the state where building stone is quarried. The huge buildings are constructed mostly of steel and brick, but there has been 20,500,000 feet, board measure, of lumber used in and about the structures, and also 13,250 tons of structural steel.

In the blast furnaces alone there are 350 tons of structural material, and in the roaster building there are 1,200 tons of the same. In the concentrator building there is more steel work than in any other buildings in the group, there being in all 2,400 tons, besides 2,000 tons used in the construction of the concentrator bins.

In the two reverberatory buildings there have been used 1,500 tons of steel, and in the converters 1,300 tons. Additional work on the various bins takes 1,500 more tons, while the dust chambers at the blast furnaces, in the roaster building and converters make an additional 1,000 tons. In the power house has been used the same amount. One thousand tons more used in the engine-house, boiler rooms and slag bins at the concentrator swell the grand total to 13,250 feet of structural steel used so far in the construction of the entire works. There are employed in the construction of the entire works about 700 men, all of whom work day shift of nine hours. The only double shift worked is that of the watchmen, there being some of them on duty at all times.

Although the work has been in progress for more than a year, it seems to be ever a place with strange attractions. For months past, while the materials and machinery to be used in these vast buildings has been arriving on the ground piece by piece, the Butte, Anaconda & Pacific Railway company has kept two switching crews constantly engaged, and for several months to come not a day will pass without the arrival of machinery of some kind. The orders were placed in the east so that each piece is forwarded to Anaconda just about the time it is needed, so that

no long, tedious delays are experienced in waiting for it to land at its destination. It is expected that by January 1 next the great works will be well nigh completed, if not entirely so. At any rate, the plant will be ready to "blow in" about that time.

The management of the Anaconda Copper Mining company has never given out figures as to what the actual cost of the new works will be, but conservative estimates have been made that they

will reach somewhere between \$2,000,000 and \$3,000,000, to say nothing of the vast expenditures the Butte, Anaconda & Pacific has gone to in the way of building new lines and making other improvements preparatory to handling the future ore shipments that will come from the mines of Butte to be smelted at the new Washoe works.

The construction of the great flume, a description of which was given in a recent issue of the Inter Mountain, is

no small part of the expense attached to the new smelters. Several hundred thousand dollars have already been spent on this flume which will furnish the water supply out of Warm Springs creek, several miles up the canyon west of Anaconda.

When finished the new smelters will be the finest of the kind in the world, which is a distinction Anaconda people are proud to own.

Not a week passes but the number of visitors and sightseers to this immense plant reaches into the hundreds. Busy men are hard at work laboring

to bring the smelters to completion, and the steady advance already made is a cheering indication of the well-laid plans upon which the builders are working. The sight that impresses the visitor most, after the first impression of the vastness of the project has passed away, is the clock-like regularity and discipline with which the work proceeds from day to day.

It may also be said that although thousands of questions are asked of the workmen every day by curious visitors, so far as is known there has never been a discourteous reply.

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**BERNHARDT ON BOARD A SHIP**  
Why She Never Quit Her Cabin During the Entire Voyage From America.  
On arriving in Paris from her American tour, Bernhardt told her friends that on the trip over she had never quitted her cabin during the whole time.  
"Not even once," she said, "except to go to my bath in the morning. I do not like to be looked at as if I was a wild beast, so I was careful not to put my nose outside the door."

"But how did you pass the time?"  
"Oh, I used to read, and write, and chat, and play Saita and Halma."  
"And look out on the sea?"  
"No, never," replied Mme. Bernhardt. "For it is a curious thing that I, who love the sea so ardently when I can look at it from a beach, simply detest it when it is carrying me. I abhor it so that I cannot even look at it."  
"Perhaps it is that you are nervous?"  
"I do not think so," she replied, "for death by drowning is the only one which has no terror for me."—London M. A. P.

## TO INSPECT ROADS IN WESTERN STATES

Wealthy Men Awakening at Last to the Necessity of Doing Something Toward Putting the Various Highways in Passable Condition.

Thomas B. Stearns, chairman of the committee on finance at Denver, who is endeavoring to raise the necessary funds to entertain the delegates to the



THOMAS B. STEARNS.

convention of the American Association for the Advancement of Science, is much encouraged.

Recently he sent out a second circular letter to the men of wealth in the state urging liberal contributions. The letter points out the debt Colorado owes to the researches of scientific men which have led to the development of the state's natural resources.

If the delegates leave with a favorable impression of Denver, says Mr. Stearns, it will aid very materially in restoring the city's prestige as an ideal place for the holding of great national gatherings. William McPherson, professor of chemistry of the State University of Ohio, and secretary of the chemistry section of the association, writes that 100 fellows of that section will come. In addition

a large number of the members of the American Chemical society have signified their intention of attending.

James W. Abbott of Lake City, special agent of the mountain division of the bureau of road inquiry of the department of agriculture, writes Secretary Williams lamenting his inability to attend the convention.

Mr. Abbott says that Colorado need not be ashamed to present to the visitors its achievements along every avenue of endeavor. He thinks that the state's mountain roads will be of especial interest, but suggests that much remains to be done before the state has the thoroughfares that the development of its resources demands. Mr. Abbott will leave soon for an extended tour of the west in the interest of the good roads movement.

A correspondent of "The Chicago Record-Herald" tells this story about Carter's Grove, an old manor house near Yorktown, Va.: "It is one of the customs of Carter's Grove, as old as the mansion itself, to have a bowl of mint julep always standing upon the sideboard, and people from Williamsburg or Yorktown and the neighboring planters who passed that way never failed to stop for refreshment. Dr. Booth, the present owner, says of one of the former proprietors, who had the gout so badly that he could not walk and used to lie all day long on a couch in the corner of the dining room and growl about the pain he suffered: 'He had a Shetland pony, trained to lie down on the floor beside him. When he felt thirsty he climbed upon the pony's back, rode over to the punch bowl, drank freely of the beverage that always could be found there, and then returned to his corner and rolled upon his couch, while the patient pony would lie down beside him until his services were needed again.'"

A stylish three-quarter coat of English make has the sleeves carried up over the shoulder to the collar. The same on each side are strapped down to where they run under the arm, and a strap, gradually widening until it finishes in a point, is carried down the centre of the sleeve from the collar well over the shoulder. It is a smart coat.

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