Concrete construction is used throughout except for some of the roofs which are of timber. All floors above the ground floor are supported by structural steel, all of which is encased in concrete. The only departure from



## Sectional Elevation of Power House

this construction is in the screen room, the upper floor there being on reinforced beams and columns.

The wood preparing section comprises the slasher house and wood room. The former contains the sawing apparatus for cutting the logs to the required length for delivery to the wood room or to the storage pile. The wood room is a single-story building 48 ft. x 171 ft. with

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Plan and Elevation of Wood

Preparing Building

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The acid plant is arranged for the manufacture of acid by the milk-oflime system designed and installed by Mr. E. R. Barker, of Boston, Mass. The complete installation comprises sulphur burners, lime tanks, gas coolers, exhausters, absorption

towers, acid coolers, storage and reclaiming tanks.

The digesters, said to be the largest on the continent, are 19 feet in diameter and 65 feet in height, producing 50 tons of pulp each per day. Two are at present installed with provision made for the placing of a third. A steel chip bin is located over each digester and has a capacity for chips enough for one charging of the digester.

The chip bins are supported on columns resting on steel beams carried by the walls. The latter vary in thickness from 20 inches at the roof to 36 inches at the foundations, which are carried to rock, as also are the digester foundations.

A blow pit is provided for each digester. These are constructed of reinforced concrete and are wood-lined, the inside dimensions being 28 feet wide, 62 feet in length and 22 feet in height.

Each pit has a timber vent, or steam escape, about 55 feet in height. The screen room is a twostory structure 72 ft. x 126 ft. The upper level contains the pulp screens, thickeners and wet machines. The lower floor is used as a machine shop and is partly taken up by the stock tanks, pumps, etc.

The drying machine room adjoining the screen room has one 132-inch drying machine supplied by the Black-Clawson Co., of Hamilton, Ohio. This machine covers considerably less floor space than

required by the usual type of dryers, the rolls being arranged in four sets twelve high.

The basement of the building, occupying about 45 feet of west end, contains the stock tank and pumps.

Electricity is used for all motive power throughout the mill. The steam for cooking and drying the pulp, also heating the buildings, is supplied by six 478-h.p. Babcock & Wilcox boilers arranged in three batteries. Each

boiler is equipped with two underfeed chain stokers. Coal is delivered from the track hopper to the crusher in the basement and conveyed to the bunkers above the boilers by a bucket conveyer.

The chimney is 250 feet in height and is constructed of brick on a concrete slab 35 ft. x 35 ft. x 9 ft. thick, supported on nine piers 5 ft. x 5 ft. carried to rock.

The boiler house is of concrete construction throughout with structural steel framework. Owing to the loading which columns had to carry, piers 3 ft. x 4 ft. carried



Typical Section of Dam

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