are to be held together by means of § inch rivets 3½ inches apart. It is to be placed on masonry prepared for it, and is to resist an inside pressure of 20 lbs. per square inch.

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22nd. RACKS,—These racks are to be formed with wrought iron strips, 3 inches by \$\frac{8}{2}\$ inch length, 12 feet 6 inches, with additional parts 9 inches long at each end, put at right angle; these strips are to be placed  $2\frac{1}{3}$  inches from centre to centre. They are to have an inch hole in the middle of their length and one hole of  $\frac{3}{4}$  inch diameter at the upper part, and 2 holes  $\frac{3}{4}$  inch diameter in the lower part. They are to be put together in 4 sections by means of 4 bolts  $\frac{3}{4}$  inch diameter, and to keep the strips at their respective distances; there is to be placed on each of said bolts between the strips small pieces of gas pipe one inch inside diameter,  $1\frac{1}{4}$  inch long These 4 sections are to form a total length of 22 feet, and are to be placed at the same distance on top and bottom, and there to be seenred by 8 inch wood serews  $\frac{3}{8}$  inch diameter, to timbers secured into the walls in the position shewn on the plan.

23rd. WASTE PIPE.—This pipe is to be in cast iron, 12 inches inside diameter, & inch thickness of metal; it is to be put on an inclined position as shewn on the plan. At one extremity there is to be a round flange 21 inches outside diameter; at a distance of 20 feet from the said flange there is to be another flange of 18 inches outside diameter, with 3 holes to bolt to other parts. This length is to be made in two pieces, and may be joined with bell-mouth joint. At the flange, of 18 inches diameter, there is to be bolted a cast iron valve seat for throtle valve 12 inches diameter; said seat to be 18 inches long, and to have a flange on each end 18 inches diameter, provided with bolt holes, # inch diameter, 6 inches apart and bolts. It is to be bored out true, and a throtle valve, carefully turned and fitted, with a wrought iron stem, and stuffing box, and small lever. To this valve seat there is to be bolted an additional length of 12 inches pipe of 42 feet 6 inches of straight pipe, and 6 feet of a curved pipe as shewn on the plan; the joints of this last pipe can be made with bell-mouth joints.

24th. HEAD GATES.—These head gates are four in number; they are to be made in east iron and are to be of the kind called "wicket gate." Each is to be 4 feet wide by 5 feet high in the clear, and are to be provided with a strong cast iron frame, the sides of which are to be in the shape of angle iron, 9 inches by 9 inches, thickness of metal 1 Inch. The bottom and top are to be made in the shape of a T, of which both parts are to be 9 inches by 9 inches On this bottom and top part there is to be a slightly projecting rib 1½ inch wide, which is to