

height. This portion of the work is under the level of the water in the Grand Lake. The water was pumped off, a Coffer Dam being placed on the Lake side of the Lock, the chamber walls are seven feet thick and are built with great care, the cement used came from the Rosendale Cement Works, New York. All the masonry is laid with Hydraulic Cement: no Lime will be used except for the back part of the walls, above the water line in the Canal. The stone in the old Lock not being of proper dimensions, I opened a Granite Quarry on the West side of Fletcher's Lake in the Winter, and obtained an ample supply of that valuable stone, not only for this Lock, but for all the works which may be required on the Canal; some of the stones now cut and ready to go into the walls of the Lock weigh two tons each. Sand of the best quality is to be got on the shores of the Grand Lake. The Iron Work for the Lock Gates is now ready for use. The Timber is on hand; in fact, the Iron and Timber for all the Locks on the Canal, from the Grand Lake to the Harbour, are already prepared.

The Dam at the head of the Grand Lake has been repaired; it was found to have been built in a most careless manner—numbers of old logs, trees, roots, and much rubbish have been removed from the foundation; a solid bank has been made faced on the upstream side with stone. To complete the works, at this point, the Lock Walls will be carried up ten feet above the proposed level of the Grand Lake at high water line; this will make the whole height of the chamber walls sixteen feet. The Locks on the Canal are all to be Seventeen Feet Four Inches wide at the bottom, and the walls have a batter of one half-inch to the foot. No side tunnels are to be used. The