THE NEW LIGHTHOUSE AT MINOT'S LEDGE.—The structure which Uncle Sam is slowly erecting at Minot's Ledge, and the difficulties encountered by those in charge of the work are described by the Journal. Although the structure itself is hardly begun, the sum appropriated by Congress ($100,000) is nearly exhausted, and it is believed that one million dollars will be necessary to complete it. This arises from the peculiar nature of the locality, which is accessible only at low water, and in pleasant weather, which make the labor upon it of a very intermittent and expensive character. The great difficulty is the preparing the foundation of the structure, the rock on which it is to be erected being only thirty feet in diameter, and it is only in pleasant weather when the sea is smooth that the workmen can do anything. At low tide about thirty stone cutters—as many as can work to any advantage—go out to the ledge to smooth and prepare the rock. These men wear india rubber suits, and very often the waves come up to their necks.

The height of the lighthouse is to be ninety feet, having a diameter at the base of thirty feet, at the top of ten feet. A plan for each course of stone is sent from Washington, the stones being dovetailed or matched to one another. They will also be bolted with iron, so that when the structure is completed it will be almost one solid rock. For sixty feet it will be built solid, with the exception of a small cavity in the centre, about three feet in diameter, which is to be used for a well.—

Access will be had to the lightnouse by an iron ladder upon the outside.

For the purpose of facilitating the work upon this important structure, the government has purchased an island now known as "Government Island," containing from ten to fifteen acres, which is connected with Cohasset by a bridge. On this island several buildings have been erected, including a carpenter's shop, where men are employed in cutting wooden models, it being necessary to have a pattern for every stone, a stone-cutter's shed, where the stone work for the lighthouse is prepared; a stable for the oxen and horses employed; and a watch-house. On a rocky eminence is an observatory, commanding a fine view of the ocean, and a marine telegraph to communicate with those at work on the ledge. Houses for the operatives have also been erected, and a wharf and boat house add to the conveniences of the place.

The stone cutters employed receive two dollars and fifty cents per day, with fifty cents extra when they are at work on the lighthouse rock. In pleasant weather they can generally work four hours per day on the rock, but it is often the case that they cannot get out to it for weeks, on account of the sea. Those who work on the rock are not obliged to work ashore; consequently, they receive four or five dollars per day when thus employed and have most of the day to themselves.