

Modern Locks.

Six years later, in 1893, the Manchester Ship Caral was filled with water, and on New Years' Caral was filled with water, and on New Years' day, 1894, the Canal was opened for traffic, and a procession of 71 vessels completed the journey from Eastham to Manchester. In May, 1894, Queen Victoria formally opened the Canal, which had cost approximately £15,000,000. Over 16,000 mem were engaged on its construction, and some 76,000,000 toms of earth were excavated.

The Canal is 35½ miles long, with its entrance

five locking systems which maintain the various levels, with limits for vessels of 560 ft. over-all length and 63 ft, 6 in. beam. Vessels, however, up to 75 ft. beam can navigate through Eastham Lock and as far as face Oil Berth.

The Canal has been exeavated to 90 ft, for some miles above tils entrance and thexe to Manchester the depth is 28 ft., which normally will permit vessels up to 26 ft. drugbt to navigate the whole length. The bottom width is generally 120 ft. except for less than am illo on one section, where the bottom width is 90 ft. Owing to the fixed bridges over the Canal, vessels' masts or fusuals' must not be more than 72 ft. from the for tilling of ftsmatch converted to the section of the for tilling of ftsmatch converted to the section of the for tilling of ftsmatch converted to the section of the section of for tilling of ftsmatch converted to the section of the section of for tilling of ftsmatch converted to the section of the section of for tilling of ftsmatch converted to the section of the first section of the section of th

One of the most complicated problems the engineers had to face was the crossing of the River Irwell (which was canalized at that point) by the Bridgewaster Brage Canal carried on a stone aqueduct. To overcome this difficulty, the original aqueduct was replaced by the present one, which is a swing bridge revolving on a central pier. When the bridge is opened to permit the passages of seagoing can't up the Canal, the thickness of the complete of the complete of the waster of the complete of the complete of the complete waster of the complete of the complete of the complete waster of the complete of th



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