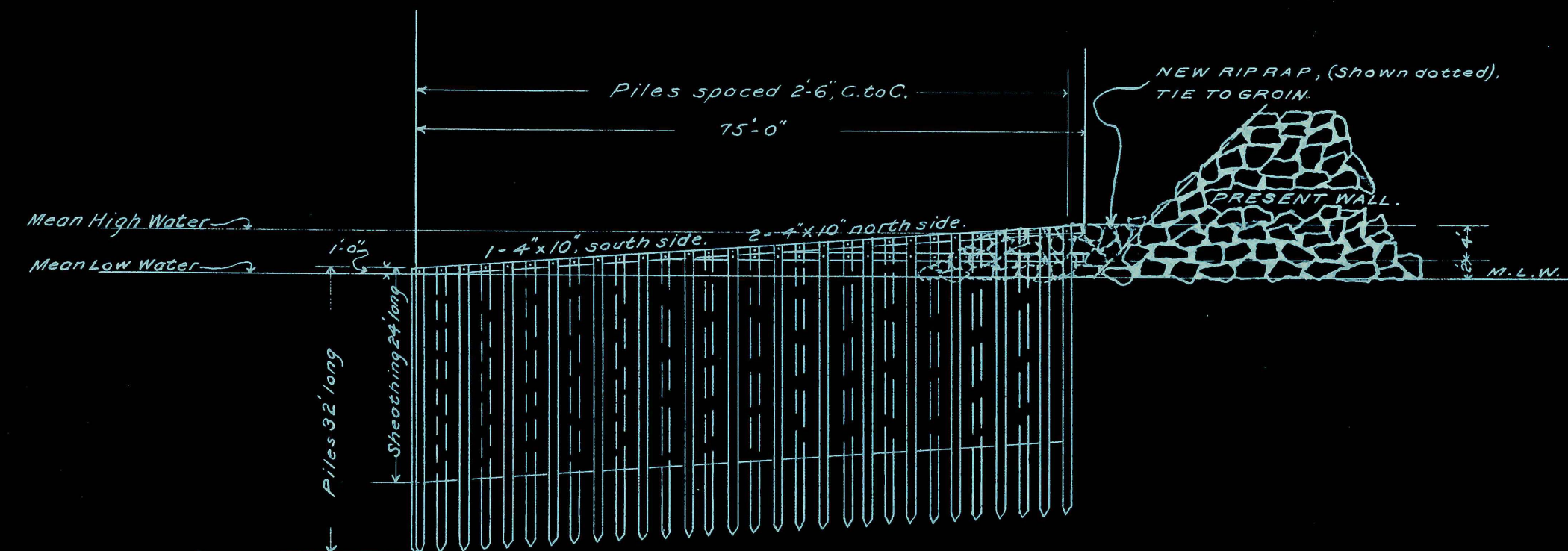


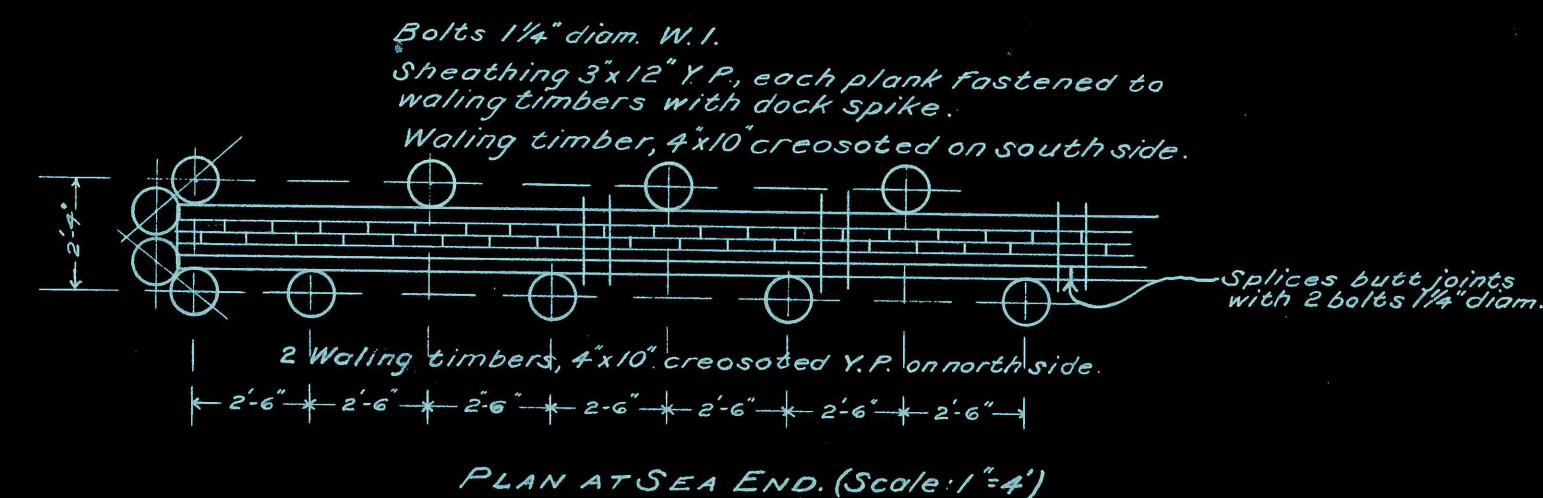
NOTE:
Bench Mark, B.M. N° 16, is a red metal disk, marked "U.S.C. & G. Survey Bench Mark" in top of southerly wing wall of abutment, East end of C. & N. J. Bridge at Highlands Beach, N. J. Elevation, 15.946 ft. above M. L. W. (Ocean), and 14.816 ft. above M. L. W. (River).

The mean range of tides is about 5.0 ft. for the Ocean and 3.0 ft. in River at south Line of U. S. M. Reservation.



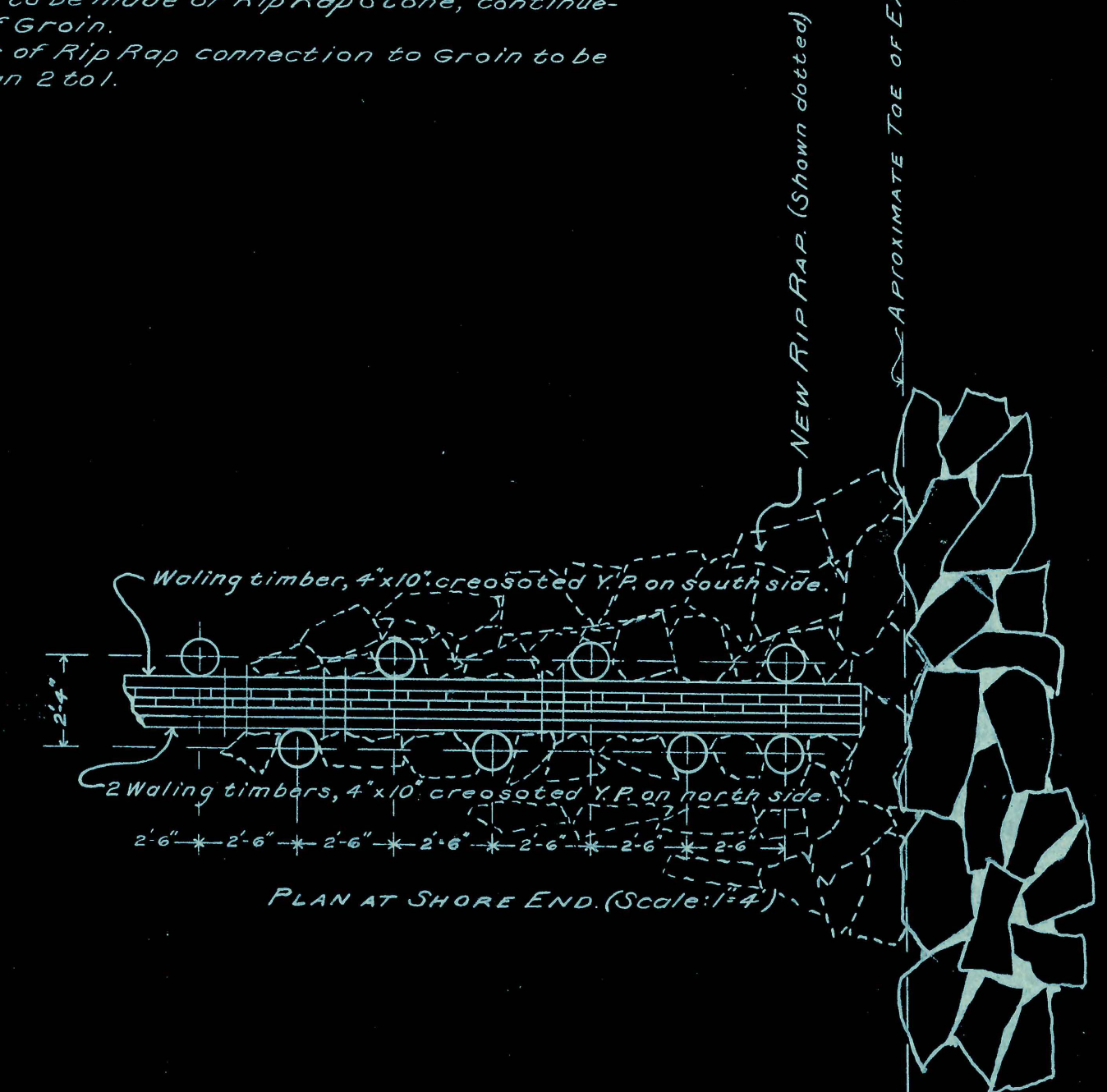
ELEVATION OF GROIN. (Scale: 1"=16')

All material to be creosoted,
12 lbs. to the cu. ft., except chestnut piling.



PLAN AT SEA END. (Scale: 1"=4')

NOTE:
Shore end of Groin to be placed as close to existing wall as piles can be driven.
Connection between inshore end of Groin and existing Sea Wall to be made of Rip Rap Stone, continuing grade of Groin.
Side slopes of Rip Rap connection to Groin to be not less than 2 to 1.



PLAN AT SHORE END. (Scale: 1"=4')

