ENGINEER DEPARTMENT U.S.A.
BVT. MAJ. GEN. JOHN NEWTON,
BRIG. GEN. & CHIEF OF ENG'RS.

HYANNIS HARBOR, MASS.

Surveyed in accordance with an act of Congress of July 5 1884 under the direction of

George H. Elliot, Lieut. Col. of Engineers. U.S.A.

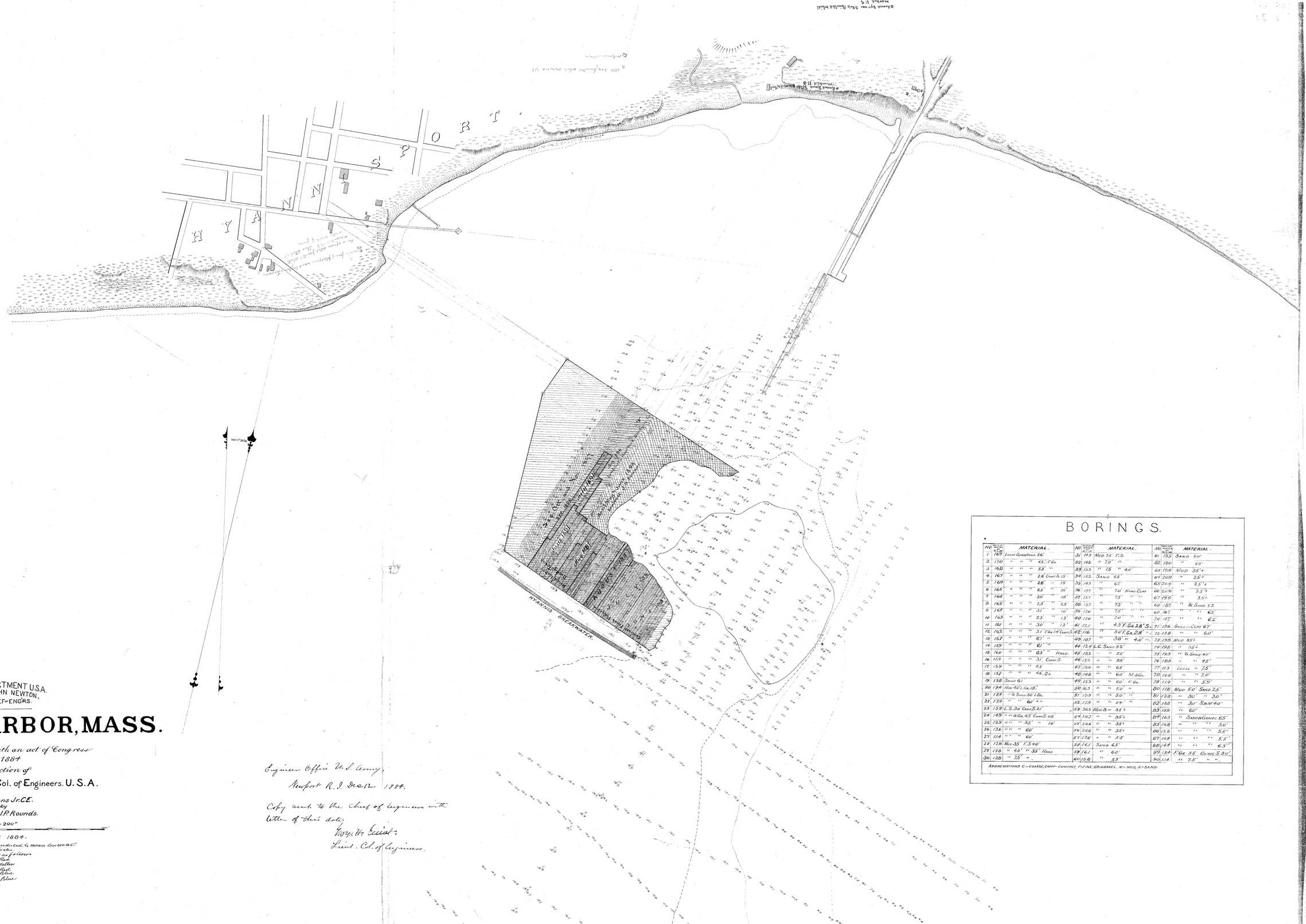
BY

W. C. Simmons Jr. C.E.
assisted by
C.O. Abell & I.P. Rounds.

SCALE 1" = 200"

SEPT. – OCT. 1884.

The Soundings and borings are reduced to Mean Low Water
Borings are shown by red circles
The Contours are shown as follows
The 7 ft Contour is Indian Red
" 10 ft " " " full Yellow
" 15 ft " " " Red
" 10 ft " " Indian Yellow
" 18 ft " " full Yellow



BORINGS.

No.	Water in Feet	MATERIAL.	No.	Water in Feet	MATERIAL.	No.	Water in Feet	MATERIAL.
1	16.9	Loose Gravel Sand 56'	31	14.3	Mud 25' F.S.	61	15.5	Sand 50'
2	17.0	" " " 45' F.Gr.	32	14.8	" 7.0' "	62	18.0	" 55'
3	16.8	" " " 53' "	33	15.3	" 1.5 " 4.0'	63	19.9	Mud 35'+
4	16.7	" " " 28' Coarse S. 15'	34	15.2	Sand 65'	64	20.9	" 25'+
5	16.9	" " " 28' " 15'	35	14.3	" 62'	65	20.9	" 25'+
6	16.5	" " " 25' " 15'	36	13.7	" 7.0' Hard Clay	66	21.9	" 25'+
7	16.8	" " " 30' " 18'	37	12.7	" 7.5' " "	67	19.9	" 35'+
8	16.5	" " " 23' " 22'	38	12.7	" 7.3' " "	68	18.2	" & Sand 52
9	16.8	" " " 31' " 10'	39	12.6	" 7.5' " "	69	16.7	" " " 62'
10	16.3	" " " 23' " 13'	40	12.6	" 7.0' " "	70	14.7	" " " 62'
11	16.1	" " " 30' " 12'	41	12.1	" 4.5' F.Gr. 2.8' S.	71	13.6	Sand & Clay 67'
12	16.2	" " " 31' F.Gr. 14' Coarse S.	42	11.6	" 5.0' F.Gr. 2.8' "	72	12.8	" " " 60'
13	15.2	" " " 67' "	43	10.7	" 5.8' " 4.0' "	73	13.15	Mud 35'+
14	15.9	" " " 61' "	44	12.8	L.C. Sand 52'	74	14.8	" 35'+
15	16.0	" " " 63' " Hard.	45	13.2	" " 52'	75	14.3	" & Sand 40'
16	15.9	" " " 31' Coarse S.	46	13.5	" " 58'	76	18.8	" " 45'
17	15.9	" " " 45'	47	13.8	" " 65'	77	11.3	Loose " 75'
18	15.2	" " " 46' G.S.	48	14.8	" " 60' M.S.Gr.	78	10.8	" " 70'
19	15.8	Sand 61'	49	15.3	" " 60' F.Gr.	79	11.9	" " 59'
20	13.4	Mud 40' L.Gr. 15'	50	16.3	" " 50' "	80	11.8	Mud 50' Sand 25'
21	12.4	" & Sand 50' L.Gr.	51	17.3	" " 50' "	81	12.8	" 30' " 30'
22	17.4	" " 60' " "	52	17.9	" " 5.8' "	82	13.8	" 30' S.&M. 40'
23	15.9	L.S. 30' Coarse S. 21'	53	20.3	Mud & " 3.5'+	83	12.8	" 60'
24	14.9	" " & Gr. 4.5' Coarse S. 6.8	54	20.7	" " 3.5'+	84	16.3	" Sand & Gravel 65'
25	13.9	" " " 3.5' " 10'	55	20.6	" " 3.5+	85	14.8	" " " 50'
26	12.6	" " " 60'	56	20.6	" " 3.5+	86	15.6	" " " 5.5'+
27	11.4	" " " 60'	57	17.6	" " 5.5'	87	15.4	" " " 5.5'+
28	12.8	Mud 35' F.S. 40'	58	16.1	Sand 65'	88	14.4	" " " 6.5'+
29	12.8	" 4.0' " 35' Hard	59	16.1	" 60'	89	13.8	F.Gr. 35' Coarse S. 30'
30	13.8	" 7.5' "	60	12.8	" 53'	90	11.4	" 7.5' " "

ABBREVIATIONS C. = COARSE, COMP. = COMPACT, F. = FINE, GR. = GRAVEL, M. = MED, S. = SAND.

Engineer Office U.S. Army,
Newport R.I. Dec 12 1884.

Copy sent to the Chief of Engineers with letter of this date.

Geo. H. Elliot
Lieut. Col. of Engineers.