

4395

Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: Massachusetts

11-5813

DESCRIPTIVE REPORT.

Topographic Sheet No. C

4395
4395

LOCALITY:

Cape Ann

Rockport Harbor

1928

CHIEF OF PARTY:

Raymond P. Eyman

4395

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET "C"

(1) Authority

This survey was made under instructions in the Director's orders dated May 22, 1928. to Lieut. R. P. Ryman, Chief of Party, Gloucester Shore Party.

(2) Locality and Limits.

This sheet is in the vicinity of Rockport Harbor, Rockport, Mass.

The northern extremity is a point 630 meters north of Rockport Granite Co. Chy. on Dock (1916)

The eastern extremity is a point 230 meters south of the northern tip of Gap Head.

(3) Control.

The control for this survey consisted of third order triangulation stations established during 1916 and one established in 1902. No triangulation stations were established by this survey in this vicinity.

(4) Survey Methods.

Ordinary Plane table methods were used in this survey. Each set up whenever possible, being checked by a three point fix and the error adjusted before proceeding to the next set up.

The traverse was started from a point 39 meters northwest of Beck where a three point fix was obtained. The traverse ran to the extremities of the sheet from this point.

The extremities of this survey were checked by a three point fix and at the eastern extremity a distance was used to Rockport L.S.S. Iron Tower (1916) and found alright.

(5) General Description.

The shore line is mostly of rocky ledge formation, with a few gravel and boulder strewn beaches.

At the northern extremity the shore line is of rocky ledge which finally ^{ends} ~~was~~ out to a mere reef line at a point 400 meters north of Rockport Granite Co. Chy. on Dock (1916) with a boulder strewn beach. At a point 146 meters south of this point there is a built up wall of granite, about 20 ft. high and in the near vicinity the granite quarries start dumping rip rap rock along the shore line. This dump line runs out to a point of land and joins onto the quarry Co's dock. South of the docks is a gravel beach which soon runs into low reef and ledge formation. A small indenture is made about 280 meters southwest of the southern tip of Sandy Bay Ledge.

This indenture is a lobster pond maintained by several lobstermen. To the south of this pond is a gravel beach which turns to ledge at a point about 120 meters west of Orb and continues thus to a point 75 meters north of Wooden Hose Tower (1916) where a sand beach starts in, but soon turns to gravel and strewn boulders. The small built up harbor 35 meters west of Toy has a granite wall thruout, the shore line continues as a boulder strewn ledge formation around Beck and into the harbor. The docks were originally all stone piers but have now been faced with pilings. The shore line starts in with the same ledge formation at a point about 47 meters south of End and continues as a rock bound coastline to the end of the survey on this sheet. There is one small beach fo sand, gravel and a few boulders 225 meters southeast of Flag.

The streets near the waterfront were checked up and changes noted. In most instances roads and streets follow very closely the old survey.

(6) Comparison with former surveys.

The new survey shows some deliniation from the shore line of the former survey, but in most cases, the changes seem to have really occurred.

At a point 185 meters southeast of Rockport Granite Co. Chy. on Dock (1916) the new survey extends in a southeasterly direction a distance of 40 meters, but at this point there has been a constant dumping of granite chippings so that the change is quite possible.

The docks of the Rockport Granite Co. have moved southeasterly some 45 meters and along the coast towards Orb there is a marked change in position and all in the next direction or approximately so.

The general outline and positions of the docks in the harbor proper follow very closely those of the former survey. In the case of T wharf the new survey shows that the face of the dock extends northeasterly about 10 meters, but this change is possible as a new face was built to front the old dock and very likely took place since the former survey was made.

(7) Recoverable Signals.

A list of recoverable signals accompanies this report.

(8) Scale.

The scale of this sheet is 1 to 5000.

Respectfully submitted,

Leonard C. Johnson
Leonard C. Johnson,
Lt.(j.g.) U.S.C. & G. Survey.
Topographer.

SUPPLEMENT
to accompany
DESCRIPTIVE REPORT
of
TOPOGRAPHIC SHEET "C"

The most conspicuous landmarks along the outside shore line north and west of Salt Island and running north to Emerson Point.

These landmarks are far from satisfactory as a signal for off lying vessels but they are the most prominent ones along this coast and in the near vicinity.

A red roofed house, set back about 175 meters from the high water line and about 90 ft. above, is conspicuous to vessels approaching Thacher Id. from the south;

Lat. 42 - 37 - 792 meters

Long. 70 - 37 - 784 "

A green colored house on Briar Neck about 120 meters inshore and about 60 ft. above high water:

Lat. 42 - 37 - 980 meters

Long. 70 - 37 - 272 "

A grey stone house on Long Beach about 20 meters inshore and 60 feet above high water:

Lat. 42 - 38 - 194 meters

Long. 70 - 36 - 408 "

A green colored house near the southwestern tip of Emerson pt. about 50 meters inshore, very close to C.G. station and about 40 ft. above high water.

Lat. 42 - 38 - 266 meters

Long. 70 - 35 - 1150 "

These objects were located by sextant angles, three point fixes and cuts.

PLANE - TABLE POSITIONS

Object and description	Remarks	Latitude	D. M.	Longitude	D.P.
Cupola on small round house	On end of breakwater	42 39.5	208	70 37	426
Skeleton iron light structure		42 39.5	273	70 36.5	335 335
Granite post bit	Inner one of series on dock	42 39.5	138	70 36.5	606
N.E. corner of stone pier		42 39.5	144	70 36.5	551
Granite post bit	Outer one of series on N.W. arm of Tee dock	42 39.5	85	70 36.5	590
Outer corner of Tee dock	S.E. corner	42 39.5	34	70 36.5	542
Inner corner of Tee dock	S. corner of S.E. face	42 39.5	8	70 36.5	576
Tall red brick stack		42 39	906	70 36.5	636
Prominent tall flag pole	Commercial Cable Co. yard	42 39	832	70 36.5	514
Center of large green round house		42 39.5	80	70 36.5	394
Small flag pole on cliff		42 39.5	144	70 36.5	181
White, small iron cross on head land	About 4 ft. tall	42 39.5	292	70 35.5	390

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U. S. COAST AND GEODETIC SURVEY

REG. NO. 4395

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field Letter CREGISTER NO. **4395**State MassachusettsGeneral locality Cape AnnLocality Rockport Harbor and VicinityScale 1:5000 Date of survey August, 1928Vessel U. S. C. & G. S. L. #65Chief of Party Raymond P. Eymann, H. & G. E.Surveyed by L. C. JohnsonInked by L. C. J.

Heights in feet above _____ to ground to tops of trees

Contour Approximate contour Form line interval _____ feet

Instructions dated _____ May 22, 1928

Remarks: _____