

8447

Diag. Cht. No. 6300

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-26 (47) Office No. T-8447

LOCALITY

State Washington

General locality Bellingham

Locality Point Roberts

194 52

CHIEF OF PARTY

C. W. Clark, Chief of Field Party

Hubert A. Paton, Baltimore Photo. Office

LIBRARY & ARCHIVES

DATE September 28, 1955

B-1870-1 (1)

8447

DATA RECORD

T - 8447

Project No. (II): Ph-26(47) Quadrangle Name (IV):

Field Office (II): Bellingham, Washington Chief of Party: Charles W. Clark

Photogrammetric Office (III): Baltimore, Maryland Officer-in-Charge: Hubert A. Paton

Instructions dated (II) (III): 31 August 1949 Copy filed in Division of
Letter No. 731-AAL dated 24 October 1949 Photogrammetry (IV)
Subject - Clarification of Instructions *Office Files*

Method of Compilation (III): Air Photographic (Multiplex)

Manuscript Scale (III): 1:10,000 Stereoscopic Plotting Instrument Scale (III): 1:10,000

Scale Factor (III): 1.000

Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): **AUG 19 1955**

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): **N.A. 1927** Vertical Datum (III): **MSL**

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): PT. ROBERTS, 1934 **(IBC)**

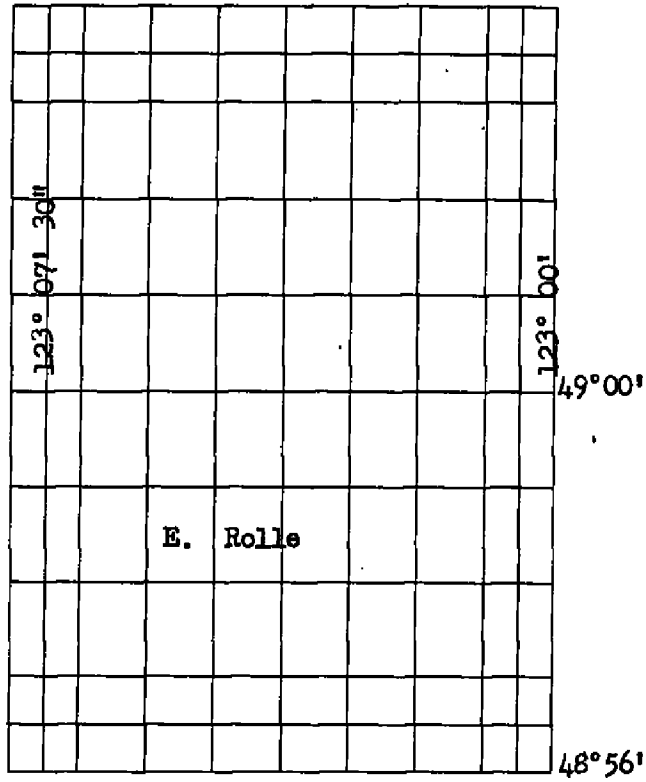
Lat.: 48° 58' 35.140" Long.: 123° 01' 26.066" Adjusted
~~Unadjusted~~

Plane Coordinates (IV): State: Wash. Zone: North

Y= X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,
or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.



Areas contoured by various personnel
 (Show name within area)
 (II) (III)

DATA RECORD

Field Inspection by (II): J. H. Winniford Date: Feb. 1951

Planetable contouring by (II): Date:

Completion Surveys by (II): *Ray H. Skelton II* Date: *Feb 1952*

Mean High Water Location (III) (State date and method of location):
Oct. 1950 (Same as date of Photography)

Projection and Grids ruled by (IV): T.L.J. Date: May 1951

Projection and Grids checked by (IV): H.D.W. Date: May 1951

Control plotted by (III): D. Lafferman Date: June 1951

Control checked by (III): B. Wilson Date: June 1951

Radial Plot or Stereoscopic Control extension by (III): E. Rolle Date: June 1951

Stereoscopic Instrument compilation (III):
(Planimetry E. Rolle Date: June 1951
(Contours Date:

* Manuscript delineated by (III): E. Rolle Date: July 1951
* See Remarks

Photogrammetric Office Review by (III): A.K.Heywood Date: Sept.1951

Elevations on Manuscript checked by (II) (III): A.K.Heywood Date: Sept.1951

Camera (kind or source) (III): **C&GS Camera "0" - single lens**

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
2010--2014	10-15-50	1126	1:24,000	{ 8.2 above MLLW 2.7 above MHW
2022--2027	10-15-50	1139	"	{ 8.1 above MLLW 2.6 above MHW

Tide (III)

Computed from Table of Predicted Tides
Reference Station: Port Townsend
Subordinate Station: Blaine, Semiamoo Bay
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	5.1	8.3
1.2	5.9	9.5

Washington Office Review by (IV): **EVERETT H. RAMEY**

Date: **23 October 1952**

Final Drafting by (IV): **J.H. Frazier**

Date: **April 29, 1955**

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **3**
Shoreline (More than 200 meters to opposite shore) (III): **7**
Shoreline (Less than 200 meters to opposite shore) (III): **0**
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): **19**
Number of BMs searched for (II): **0**
Number of Recoverable Photo Stations established (III): **2**
Number of Temporary Photo Hydro Stations established (III): **0**

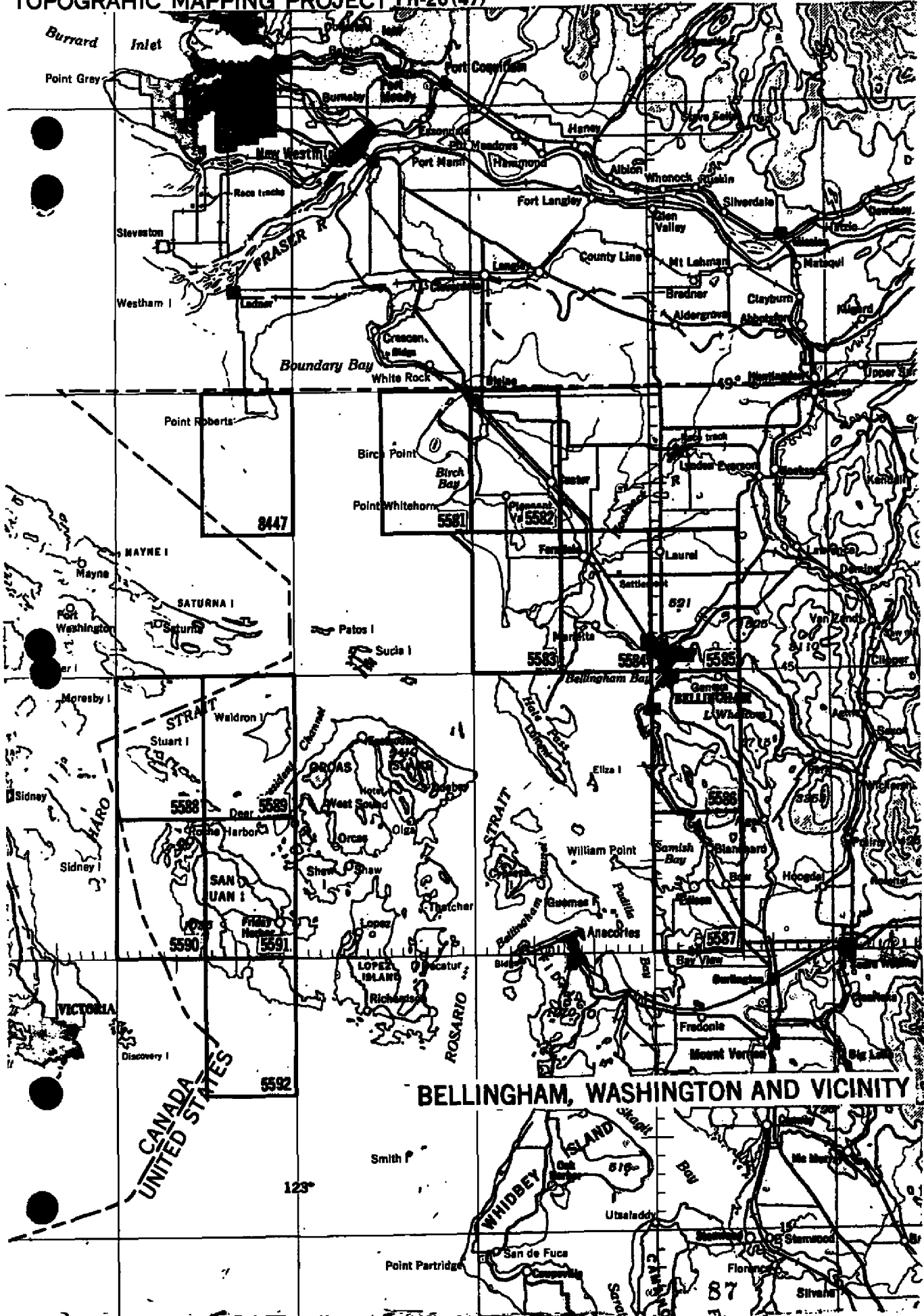
Recovered: **15**
Recovered:

Identified: **7**
Identified:

Remarks:

Assembly and evaluation of data for public land lines by Donald M. Brant.

TOPOGRAPHIC MAPPING PROJECT PH-26(47)



BELLINGHAM, WASHINGTON AND VICINITY

CANADA
UNITED STATES

123°

87

Summary to Accompany Topographic Map T-8447

Topographic map is one of thirteen similar maps of project Ph-26(47). It is the northeastern map of the project and is detached from the remainder of the project by water areas. It comprises all of that portion of Point Roberts which lies within the United States and some contiguous water areas.

Project Ph-26(47) is a stereoscopic mapping project. Field work in advance of compilation included the inspection of shore and interior features, the recovery and identification of horizontal control, the establishment of some vertical control, and the investigation of geographic names.

This survey was compiled by multiplex at a scale of 1:10,000 and covers approximately $4'$ in latitude by $7\frac{1}{2}'$ in longitude. After compilation the map was completely field edited. With the addition of hydrography by this Bureau, the map will be forwarded to the Geological Survey for publication as a standard $7\frac{1}{2}'$ topographic quadrangle.

Items registered under T-8447 will include a cloth-mounted lithographic print of the manuscript at a scale of 1:10,000, a cloth-mounted color print of the published map and the descriptive report.

FIELD INSPECTION REPORT
for
Quadrangle T-8447
Project Ph-26(47)

2: Areal Field Inspection:

This small peninsula, 3 square miles in area, bounded by Georgia Strait and by Boundary Bay, is the most northwesterly portion of the United States. It can be reached by water, or by traveling through Canada from Blaine, Washington, and re-entering the United States at the International Boundary at Point Roberts. Both Canadian and United States Customs and Immigration Offices are maintained on the main road while only a Canadian Office is maintained at Maple Beach, on the shores of Boundary Bay. When traveling to and from the area, care should be taken to stop at all Customs Offices..

The peninsula rises from southwest to the east and northeast, the southwest portion being low and swampy, but reclaimed by dikes and small drainage ditches. To the north, the land rises to form bluffs of 100 to 150 feet at the International Boundary. To the east, the land also rises to form a bare clay bluff near the end of the southeastern point of the peninsula. To the northeast, the land rises gradually toward the northeast corner of the area and then drops abruptly to form a low area in the vicinity of Maple Beach.

There is some agriculture, a project which is being encouraged by the Soil Conservation Service, in the southwest portion of the peninsula, but the majority of the area is covered with second growth timber and small chicken ranches. Two canneries are located in the area, Iversons, on the southwest point and an Alaska Packers Assn. Cannery on the southeast point. The A.P.A. Cannery is out of operation and the facilities are being removed. At the time that this area was visited by this party, only a watchman was kept at the plant. Field completion surveys should verify the extent to which this removal has been carried out.

There are several settlements in the area, the largest of which is Maple Beach, a summer resort which straddles the International Boundary at the northeast portion of the map. The village of Point Roberts lies about one mile north of the southwest point on the west side of the peninsula and is the post office for the area. To the east of the southwest point, a small summer development has been established, bearing the name South Beach. None of these towns are incorporated.

The peninsula is a separate township of Whatcom County, Washington.

Photograph coverage was adequate and complete despite clouds in the vicinity.

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3: Horizontal Control:

- (a) No additional horizontal control was established.
- (b) No datum adjustments were made and none are required for recovered stations.
- (c) Control not established by the U.S. Coast and Geodetic Survey consists of boundary monuments and markers along the International Boundary. Positions are listed in "Report on International Boundary Commission - Reestablishment of the Boundary between the United States and Canada - Gulf of Georgia to Northwesternmost Point of Lake of the Woods - Department of State - Washington - 1937". Geographic positions in this publication are on N.A. 1927 datum. The order of accuracy of each station is not known.*
Third-order or better. ENR
- (d) All required horizontal control was recovered and identified.
- (e) All U.S. Coast and Geodetic Survey control in the area was searched for except BOUNDARY, 1888 and MEADOW, 1888 which are not permanently marked and adequately described. The following were not recovered:

EAST ROBERTS, 1858
ROBERTS, 1888
WEST ROBERTS, 1858

Stations of the International Boundary Commission adjacent to the Boundary in this area were also searched for. The following were not recovered:

AVENUE, 1859
AVENUE, 1911

4: Vertical Control:

There are no Bench Marks in the area. Elevations for trigonometric leveling were established from the water surface through observations at a temporary tide staff connected by levels to Tidal Bench Mark 5 at Blaine, Washington. The line originated at water surface at South Beach and tied to water surface at Maple Beach.

All topographic levels were run by using Kern Theodolite P 36563. Elevations were established within the areas indicated by the Washington Office on the 1:24,000 scale contact prints, on points which were level for a distance of three meters in all directions. These points were numbered consecutively on the photographs, the point shown at the intersection of the crossed lines, in brown, being the center of the level spot. Elevations were recorded on form M-2507-12, computed, checked, and transferred to the photographs and verified. The tie between V

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point 4705 and a point on the "Inshore Range, west side of Boundary Bay" was computed by a non-reciprocal observation. The resulting water elevation tie was well within the limits of closure established for the project.

The first and last designated level points for the quadrangle are 4701 - 4705.

5: Contours and Drainage:

~~Contouring is inapplicable.~~ Contouring to be accomplished by stereophotogrammetric methods.

Drainage in the area is largely subsurface. The system of ditches in the southwest portion of the peninsula seems to terminate in a larger ditch which parallels the dike along the south portion of the point. There is no apparent outlet to this ditch. In the higher ground to the north and northeast, there is no surface drainage system of any importance.

6: Woodland Cover:

Woodland areas were classified in accordance with Photogrammetric Instructions No. 21, dated 8/18/48, and with the instructions contained in the Topographic Manual, Part II, Chapters V and VII. The timber in the area is largely second growth, and of a mixed character. Some of the areas of larger trees are being logged over, but there is no large scale operation.

7: Shoreline and Alongshore Features:

The shoreline was inspected in accordance with "Supplemental Instructions - Shoreline Inspection", dated 18 March 1944; by walking the shoreline. No boat was used on this work.

The datum of the photographs is such that the low water line is not visible and no attempt was made to delineate it.

The heights of alongshore rocks above the water, the date and time of observations were shown on the field photographs. See item 52

At the International Boundary, along Georgia Strait, high bluffs front along the shoreline. These gradually decrease in size until the shoreline 1/2 mile north of the southwest point and for about one mile east is composed of a sandy gravel beach. Easterly of this point, South Beach, a slight bluff starts and parallels the beach, culminating in a 200-foot clay bluff, immediately west of the A.P.A. Cannery.

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A low beach area extends east and south from this bluff to the high water line. It is on this beach area that the cannery, mentioned above, is located. This beach area extends north for a short distance until the wooded slopes of the bluff again extend to the shore. This condition continues to about one mile south of the International Boundary, where the bluff leaves the shore and continues in a northwesterly direction and the shoreline assumes a low sandy character. This area, the resort of Maple Beach, is bulkheaded for about one-half mile south of the International Boundary. The shoreline is regular in character throughout, there being no bays or inlets.

8: Offshore Features:

The only offshore features in the area are piers at Iversons Cannery, at the village of Point Roberts, and at Maple Beach; and the Offshore Range structures at the east side of Georgia Strait and at the west side of Boundary Bay. Rocks noted in the alongshore area were noted as described in Item 7.

9: Landmarks and Aids:

- (a) No landmarks for nautical charts are recommended.
- (b) There are no significant interior landmarks.
- (c) Aeronautical aids - none.
- (d) Five fixed aids to navigation were reported on Form 567. Azimuths of ranges were not determined.

10: Boundaries Monuments and Lines:

The only boundary to be mapped in the area is the International Boundary between the United States and Canada. It is adequately described and defined in the publication referred to in Par. 3(c).

One meander corner was the only established sectionalized point which was recovered. Other points, furnished this party by the authorities of Whatcom County, were not found due to a lack of reference ties. Some of the points were said to fall in road intersections but they could not be located closely enough to warrant identification.

11: Other Control:

One recoverable topographic station, "BERT 1951", was established.

See item 38

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12: Other Interior Features:

All roads were classified in accordance with instructions contained in the Topographic Manual Part II, Chapters V and VII.

Buildings to be shown on the map manuscript have been classified in accordance with instructions contained in Photogrammetry Instructions 29 dated 10/1/48 and in the Topographic Manual Part II, Chapters V and VII. All buildings of minor importance have been deleted with a green "X".

Public Buildings have been classified and named.

There are no bridges over navigable waters in the area.

The Point Roberts end of a submerged cable is shown on the field photographs near Point Roberts Light.

There are no landing fields in the area.

13: Geographic Names:

The geographic names in this area are incorporated in "Special Report, Investigation of Geographic Names, Project Ph-26(47)",

Filed in Geographic Names Section, Div. of Charts.

14: Special Reports and Supplemental Data:

Special Reports will be submitted later as follows:

1. Special Report of Boundaries, Project Ph-26(47)
 2. Special Report of Land Lines, Project Ph-26(47)
 3. Special Report, Investigation of Geographic Names, Project Ph-26(47) *See above*
 4. Special Report Coast Pilot, Project Ph-26(47)
filed in Coast Pilot Section, Div. of Charts
- One report. Filed under project number*

Records and supplemental data are submitted as follows:

Original copies of geodetic records - record books, recovery notes, descriptions, abstracts and lists of directions, triangle computations, geographic position computations, etc., will be forwarded to the Division of Geodesy after completion of all field work in the vicinity of Bellingham. Duplicate copies of descriptions and list of geographic positions are forwarded to the Washington Office with this report.

Photographs and other photogrammetric records are forwarded to the Washington Office with this report.

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Three copies of Form 567 listing Nonfloating Aids to be charted were forwarded to the Washington Office on Transmitting letter No. 8, 1951, dated 15 March 1951. One copy of Form 567 is forwarded to the Washington Office with this report, *attached to this report.*

One blue print of Lummi Island Twp. and Pt. Roberts Twp. is forwarded with this report.

Approved:

Charles W. Clark
Charles W. Clark
Chief of Party

Respectfully Submitted:

John C. Lajoie
John C. Lajoie
Cartographer

PHOTOGRAMMETRIC PLOT REPORT

21. AREA COVERED

T-8447

22. METHOD

Several flights covered the same areas in this quadrangle, all of them with excessive overlap and clouds or cloud shadows.

All photographs were inspected and only those that afforded maximum coverage with the greatest density of control were set.

The east side of the peninsula was bridged using diapositives 2010, 2013, and 2014.

The west side of the peninsula was bridged using diapositives 2022, 2121 and 2027 in that order.

No adjustments were necessary between these two strips.

All triangulation stations were held.

All topography except shoreline was drawn by multiplex. Detail points were established during multiplex compilation for the location of the MHWL from the field inspection photographs.

23. ADEQUACY OF CONTROL

The horizontal control provided was adequate and complied with project instructions.

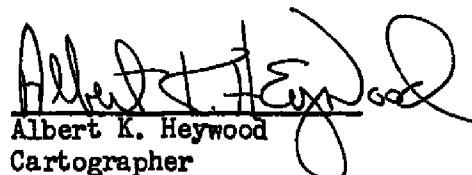
24. SUPPLEMENTAL DATA

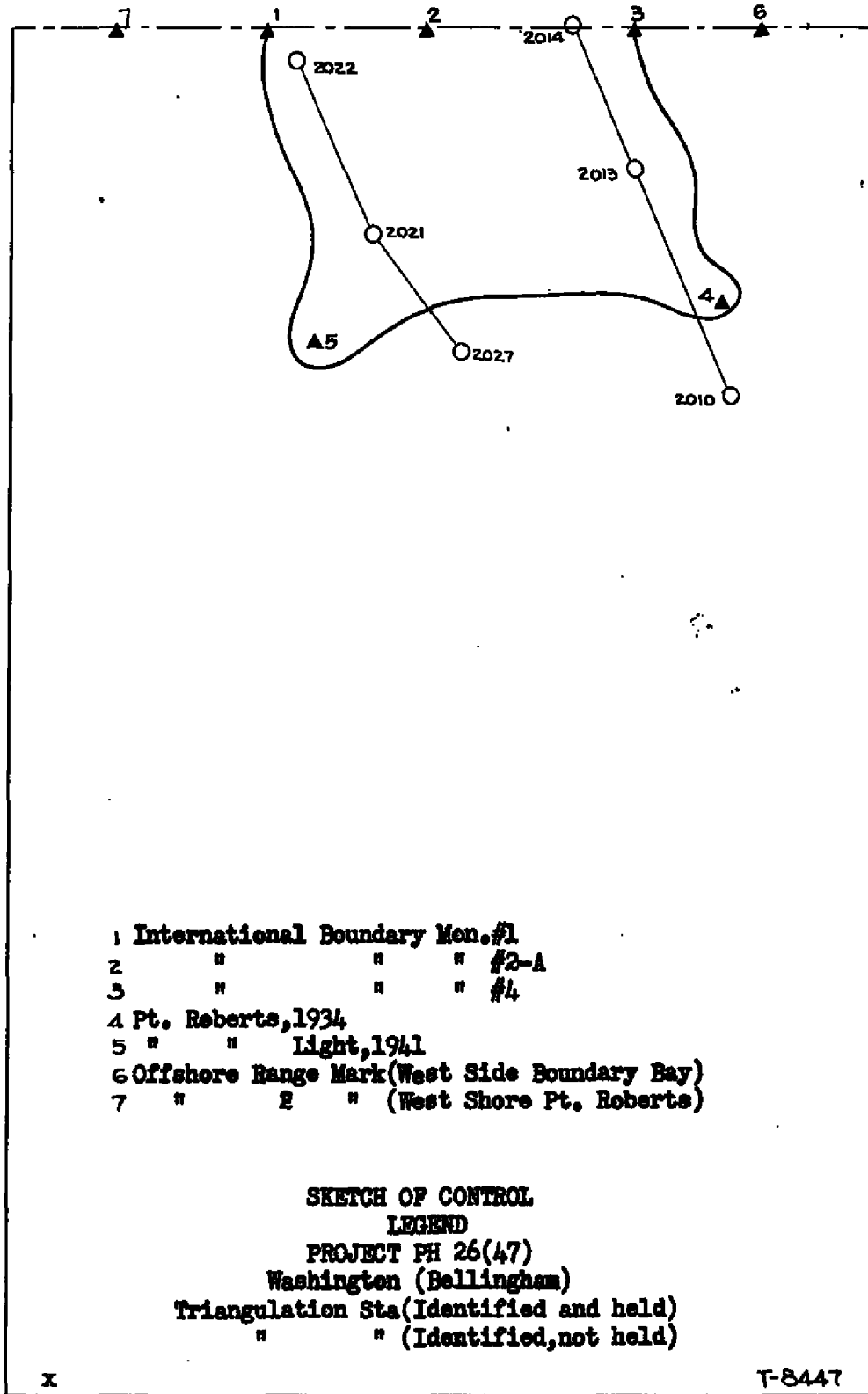
Inapplicable.

25. PHOTOGRAPHY

Refer to paragraph 22 of this report.

Respectfully submitted
19 September 1951


Albert K. Heywood
Cartographer



MAP T. 8447 PROJECT NO. Ph-26(47) SCALE OF MAP 1:10,000 SCALE FACTOR 1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR x -COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
			FORWARD	(BACK)	FORWARD	(BACK)		FORWARD	(BACK)	
INTERNATIONAL BOUNDARY MON. 1	I.B.C. Pg. 144	N.A. 1927	49 00 08.03		248.1	(1605.4)				
" 2-A (18C)	"	"	123 05 16.95		344.5	(875.0)				
"	"	"	49 50 08.06		249.0	(1604.5)				
" 4- (18C)	"	"	123 04 01.58		32.1	(1187.4)				
"	"	"	49 00 08.11		250.5	(1603.0)				
"	"	"	123 02 05.76		117.1	(1102.4)				
OFFSHORE RANGE MARK (WEST SHORE PT. ROBERTS)	" Pg. 272	"	49 00 08.104		250.3	(1603.2)				Dis mounted. See 357
"	"	"	123 06 39.524		803.3	(416.2)				
OFFSHORE RANGE MARK (WEST SIDE BOUNDARY BAY) (18C)	" Pg. 144	"	49 00 08.18		252.7	(1600.8)				
"	"	"	123 01 08.19		166.5	(1053.0)				
POINT ROBERTS, 1934 (18C)	" Pg. 272	"	48 58 35.140		1085.5	(768.0)				
"	"	"	123 01 26.066		530.1	(690.1)				
POINT ROBERTS, LIGHTHOUSE, 1941	Wash G.P.s Pg. 613	"	48 58 17.62		544.3	(1309.2)				
"	"	"	123 04 56.22		1143.4	(76.9)				
INTERNATIONAL BOUNDARY MON. 0 (Zero) (18C)	I.B.C. Pg. 144	"	49 00 08.03		248.1	(1605.4)				
"	"	"	123 05 21.80		443.1	(776.4)				
" 2 (18C)	"	"	49 00 08.05		248.7	(1604.8)				
"	"	"	123 04 26.39		536.4	(683.1)				
" 2-B (18C)	"	"	49 00 08.06		249.0	(1604.5)				
"	"	"	123 04 00.24		4.9	(1214.6)				
" 3 (18C)	"	"	49 00 08.07		249.3	(1604.2)				
"	"	"	123 03 36.04		732.5	(487.0)				
3-A (18C)	"	"	49 00 08.10		250.2	(1603.3)				
"	"	"	123 02 12.66		257.3	(962.2)				

1 FT. - 3048006 METER COMPUTED BY: Henry P. Eichert DATE: June 1951 CHECKED BY: A. K. Heywood DATE: June 1951

COMPILATION REPORT

31. DELINEATION

All topography except shoreline was drawn by the multiplex instrument. For details regarding MHWL compilation refer to item 22 Compilation Report for T-5588.

32. CONTROL

Both horizontal and vertical control was adequate with regard to its identification, density and placement.

33. SUPPLEMENTAL DATALand Plats

1 - Township No. 40 North, Range No. 3, W. Willamette Meridian, dated October 26, 1859.

1 - Township No. 41 North, Range No. 3, West Willamette Meridian, Washington.

Township Layout

1 - Lumni Island Twp
Twp 37 & 38 N., R 1 & 2 E., W.M. Pt. Roberts Twp. X
Twp 40 & 41 N.R 3W., W.M. Whatcom County, Wash.

34. CONTOURS AND DRAINAGE

Due to clouds and cloud shadows the contours in the vicinity of the village of Pt. Roberts are questionable. Contouring throughout the quadrangle was difficult due to heavy woods and clouds. *See item 53*

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate. *See item 52 X*

36. OFFSHORE DETAILS

Data complete

37. LANDMARKS And AIDS

Refer to Field Inspection Report, paragraph 9.

38. CONTROL FOR FUTURE SURVEYS

One additional topographic station MCT 40N, R 3 W 10/11, was established by field inspection but not mentioned in paragraph 11 of the field inspection report.

Two 524 forms have been submitted with this report. The positions of both were determined by multiplex. *See item 67*

A list of recoverable topographic stations has been prepared and included in paragraph 49 of this report.

39. JUNCTIONS

To the north is Canada; to the south, east and west is water.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to paragraph 34 of this report.

41. BOUNDARIES

Land Lines:

See Special Report, Boundaries, Project PH-26(47), Land Lines Project Ph-26(47), and item 10 of the field inspection report.

For details of land line compilation refer to compilation report T-5584, item 41. The graphically enlarged copy of the land plats of townships listed in item 33 is submitted with this report.

46. COMPARISON WITH EXISTING MAPS

No other topographic quadrangle of this area was available for comparison at the time of this report.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart No. 6300, (no scale listed), published September 1941 (11th edition), and corrected to 6 November 1950.

A pier noted on the chart in the most southeasterly point of the peninsula no longer exists.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted

Albert K. Heywood
 Albert K. Heywood
 Cartographer (Photo.)

Approved and forwarded

Joseph Steinberg

For

Hubert A. Paton
 Comdr., C&GS
 Officer in Charge

PHOTOGRAMMETRIC OFFICE REVIEW

T-8447

- 1. Projection and grids
- 2. Title
- 3. Manuscript numbers
- 4. Manuscript size

CONTROL STATIONS

- 5. Horizontal control stations of third-order or higher accuracy
- 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)
- 7. Photo-hydro stations
- 8. Bench marks
- 9. Plotting of sextant fixes
- 10. Photogrammetric plot reports
- 11. Detail points

ALONGSHORE AREAS

(Nautical Chart Data)

- 12. Shoreline
- 13. Low-water line
- 14. Rocks, shoals, etc.
- 15. Bridges
- 16. Aids to navigation
- 17. Landmarks
- 18. Other alongshore physical features
- 19. Other along-shore cultural features

PHYSICAL FEATURES

- 20. Water features
- 21. Natural ground cover
- 22. Planetable contours
- 23. Stereoscopic instrument contours
- 24. Contours in general
- 25. Spot elevations
- 26. Other physical features

CULTURAL FEATURES

- 27. Roads
- 28. Buildings
- 29. Railroads
- 30. Other cultural features

BOUNDARIES

- 31. Boundary lines
- 32. Public land lines

MISCELLANEOUS

- 33. Geographic names
- 34. Junctions
- 35. Legibility of the manuscript
- 36. Discrepancy overlay
- 37. Descriptive Report
- 38. Field inspection photographs
- 39. Forms

40. Reviewer Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Albert C. Rauck, Jr. Compilar Henry Reichel Supervisor, Review Section or Unit 6/4/52

43. Remarks:

FIELD EDIT REPORT
 Quadrangle T-8447
 Project Ph-26(47)

51: Methods:

No unusual methods were used in the field edit of this sheet. All roads were ridden and inspected. It was also necessary to traverse nearly all the roads with a plane table to correct questionable topography.

Probably the only new contribution to field edit practices of the Bureau has been the use of the barometer in resketching topo. This is further discussed in paragraph 53.

A legend showing colored inks used and symbols is shown on the field edit sheet.

References showing where questions raised by the reviewer on the discrepancy overlay are shown on the discrepancy overlay.

Only one field edit sheet was used. A few corrections were made on photographs, but in every such case reference is made to the photograph on the field edit sheet. Such corrections appear on photographs O-2013, 2014, 2020, 2022, 2027, and 2031.

52: Adequacy of compilation:

The compilation is seriously deficient in the delineation of buildings, access, and contouring. Well over one hundred buildings were added. Possibly a few of these are in the questionable cabin-or-house? class, and twelve or fifteen may be new, but the bulk of these were simple omissions. Some of these were visible on the photos; some were difficult to see if not altogether obscured. Omissions occur both in compilation and inspection.

Several roads and trails were added to provide access. The topo manual is not clear on this point, but it does say that roads will not be shown unless 0.6 in. long at 1/10,000 scale. The field editor has constructed this to mean that access will be shown to any class I building farther than 0.6 in. from a road, or to any class I building reached by a circuitous route more than 0.6 in. long.

The shoreline was apparently inspected at a rather high stage of the tide. The reviewer questioned the shoreline inspection on the west shore of the point because it did not reflect rocks shown on the chart. Several more rocks were

(2)

added and the position of one corrected. This is all rather unnecessary; the M.L.L.W is well beyond the limit of rocks along this shore. An extensive foul area was added east of south beach. A large rock, well off shore which does not cover at any stage was added to this area. The positions of several piles were corrected and several piles added near the old A.P.A. Cannery. It would have been very difficult for the field inspector to have located these, but no reference was made to them.

The contouring is discussed more fully under paragraph 53. The results of the profile will indicate that the correction of the contouring has been much the most costly part of the completion survey.

53: Map accuracy:

No test for horizontal accuracy was specified in this quadrangle. No gross error appeared in the running plane table traverses for vertical accuracy tests.

See item 23

A test for vertical accuracy was specified from the intersection of Boundary Bay Road, west southwest about 0.9 mile to the south end of the Boundary Line Road. The reviewer also called for a careful check of the contouring in the area of Pt. Roberts village. Experience elsewhere in the project indicated the desirability of proving the match along the International Boundary. These lines developed considerable trouble. The inspector ultimately ran about 10 miles of vertical accuracy profile to develop the extent of the bad contouring; approximately 2 square miles of contouring was resketched. There were 109 shots in the profiling, 35 % of which were in error over $\frac{1}{2}$ interval, and 9 % of which were in error over a full contour interval.

The difficulties with topography are probably due mostly to poor photography (See par. 22 of this report) and to heavy tree cover. The largest errors were along the bluff on the Boundary Bay side of the point where are also found the largest trees on the point.

Owing to the heavy tree cover some resketching was accomplished using the barometer. Position was obtained by pacing from map detail and from occasional points which could be approximately identified on the photograph and transferred to the map.

(3)

It is believed that after the resketching done in the field that the map now meets National Map Accuracy Standards. *See item 66*

54: Recommendations:

No further recommendations are submitted beyond those made by the field editor at conferences in Washington and Baltimore last winter.

55: Examination of proof copy:

Mr. Walter C. Davis, Deputy Collector of Customs, Point Roberts, Washington has agreed to examine a proof copy of the map. Mr. Davis has been a resident in the Blaine and Pt. Roberts areas for a number of years, and read the field copy of the map with no trouble at all.

All names listed as approved by the Geographic Names Section in paragraph 48 are in general use. The name "Maple Drive" which appears on the manuscript should read "Marine Drive".

56: New features:

A harness race track was constructed at Maple Beach in the summer of 1951. It has not taken a good name yet being variously known as the "Boundary Bay Race Track" and posted as the "Boundary Bay Turf and Surf Club". Being right in the Maple Beach community, it has no great need for a name.

57: Aids to navigation:

The "International Boundary, Range A, Front Light, Offshore Range Mark, (West Shore Point Roberts (IBC))" has been dismantled, and only the foundation for the marker remains. It has been replaced by a new inshore marker near the U.S. Customs Office. A position and designation for the new marker is undoubtedly available from the International Boundary Commission, but a topographic location has been submitted by this party. *See item 67*

Approved and Forwarded:

Charles W. Clark
Charles W. Clark*
Lt. Comdr.-USC&GS
Chief of Party

Respectfully Submitted:

Ray H. Skelton II
Ray H. Skelton II
Cartographer

TABULATION of ACCURACY TESTS
 Quadrangle T-8447
 Project Ph-26(47)

Prof. elev. Feet	Map elev. Feet	$\frac{1}{2}$ Error Feet	\pm Error after 40' shift Feet	Rem.
Line 1. West from Customs House, thence south to Point Roberts, thence east to Boundary Line Road to tie. Run to prove topo along International Boundary, and check topo in clouded area on photos. Clouded portion not included in summary.				
173	170	-3	-3	
174	170	-4	-4	
174	170	-4	-4	
186	166	-20	-20	
183	163	-20	-20	
171	157	-14	-13	
162	152	-10	-10	Rd. turns south
156	148	-6	-6	
152	143	-9	-9	
130	116	-14	-13	
118	103	-15	-14	
90	78	-12	-11	
80	70	-10	-10	
775	65	-10	-10	
24	24	0	0	
35	40	+5	+5	

Line 2. Boundary Line Rd. south from Customs House to Boundary Bay Rd.

168	163	-5	-5
158	143	-7	-6
119	121	+2	+2
97	97	0	0
76	79	+3	+2
70	74	+4	+3

Line 3. East on Boundary Bay Rd. from Boundary Line Road to Beach Road, thence WSW on line suggested by reviewer.

89	88	-1	0
102	98	-4	-3
135	124	-11	-11
140	128	-12	-11
146	137	-9	-8
176	160	-16	-16
147	139	-8	-7
131	126	-5	-5
129	123	-6	-5

(2)

Prof. elev. Feet	Map elev. Feet	± Error Feet	± Error after 40' shift Feet	Rem.
123	114	-9	-8	
110	108	-2	-1	
94	101	+7	+6	
88	92	+4	+2	
84	85	+1	0	
81	78	-3	-2	
62	62	0	0	
38	38	0	0	
20	23	+3	+3	
10	10	0	0	

Line 4. From Customs House east along International Boundary to Maple Beach, thence south to Boundary Bay Rd, thence west to tie. Proves International Boundary and gives reviewer spot elv. at Maple Beach.

152	152	0	0	
119	117	-2	0	
95	97	+2	+1	
87	87	0	0	Int. Bdry. Mon. 3
64	82	+18	+16	
73	80	+7	+6	
49	70	+21	+19	
38	58	+20	+19	
18	55	+37	+32	
6	35	+29	+21	
6	16	+10	+10	
6	15	+9	+9	
10	10	0	0	
4	8	+4	+4	
6	4	-2	-2	
8	4	-4	-4	
9	4	-5	-5	
9	4	-5	-5	
9	4	-5	-5	
14	14	0	0	
25	18	-7	-7	
77	58	-19	-17	
98	83	-15	-12	
106	90	-16	-15	T-rd W
152	129	-23	-21	
186	168	-18	-17	
192	192	0	0	
213	198	-15	-15	
208	198	-10	-10	
201	185	-16	-16	
196	184	-12	-11	

(3)

Prof. elev. Feet	Map elev. Feet	± Error Feet	± Error after 40' shift Feet	Rem.
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Line 5. Johnson Road, north from Boundary Bay Rd, thence east to Goodman Bay Road.

155	144	-11	-10
169	158	-11	-10
176	164	-12	-12
198	184	-14	-14
201	183	-18	-18
194	179	-15	-15
194	179	-15	-15
201	174	-27	-26
195	164	-31	-30
159	143	-16	-13
130	104	-26	-24

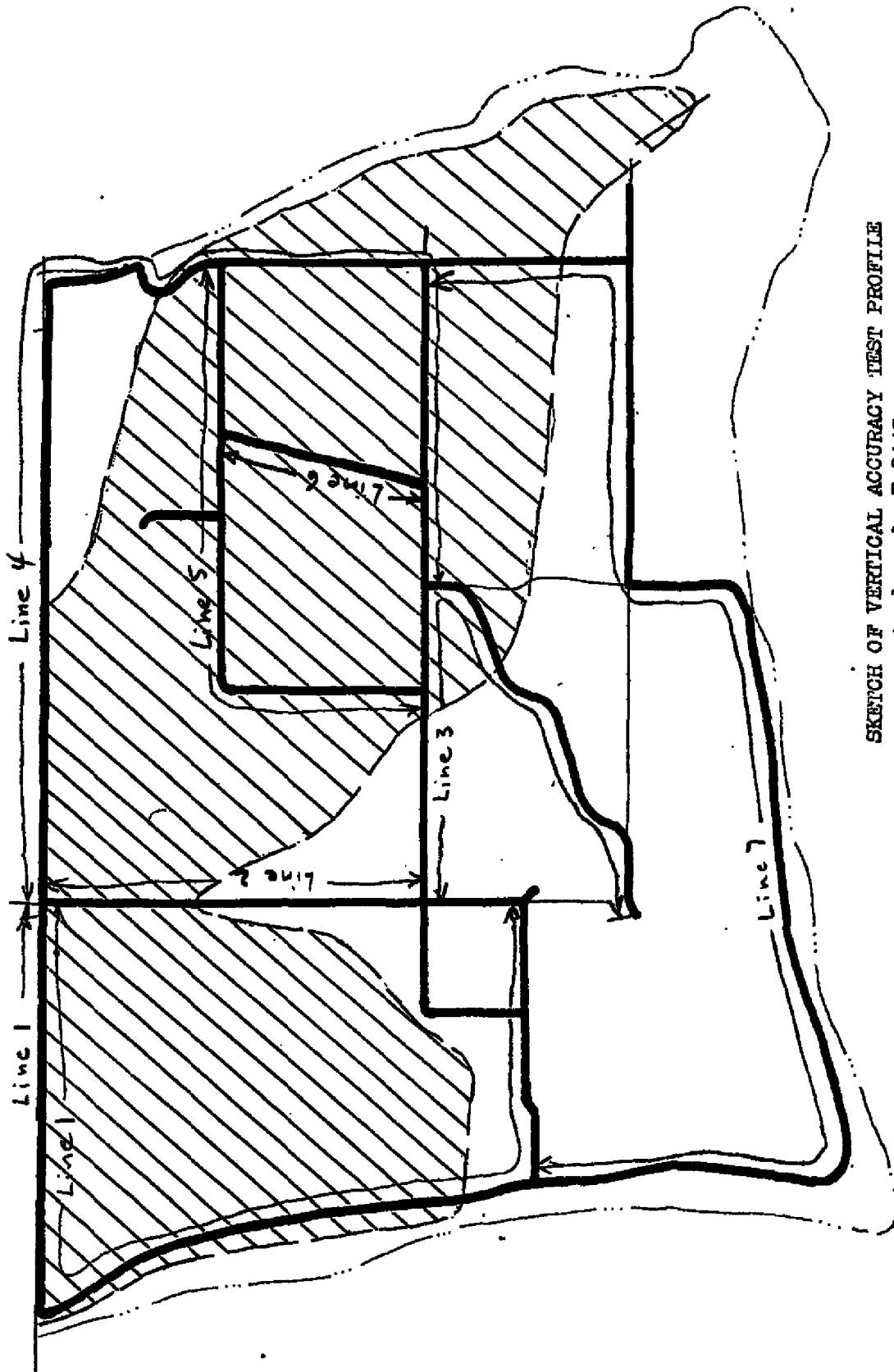
Line 6. Rd. 7 from Boundary Bay north to Johnson Rd.

205	184	-21	-21
207	186	-21	-21
207	190	-17	-17
216	198	-18	-18
226	201	-25	-25
235	204	-31	-31
219	199	-20	-19

Line 7. South on Goodman Bay Road from Boundary Bay Rd, thence west to South Beach Rd, thence west from South Beach following Marine Drive to Point Roberts Village.

190	195	+5	+5
194	195	+1	+1
172	170	-2	-1
159	156	-3	-3
136	136	0	0
101	101	0	0
89	91	+2	+2
56	58	+2	+1
24	24	0	0
8			
10			
12			
12			
12			
12			
9			
9			
13			

All less than $\frac{1}{2}$ interval.
Many on dike, won't interpolate.



SKETCH OF VERTICAL ACCURACY TEST PROFILE
 Quadrangle T-8447
 Project Ph-26(47)

49. NOTES FOR THE HYDROGRAPHER

The following is a list of recoverable topographic stations within this quadrangle:

CHY (BERT, 1950)
MC T4ON, R 3 W 10/11, 1951

CONCRETE PIER 1952

See item 67

48. GEOGRAPHIC NAMES

Boundary Bluff
Boundary Bay

Canada

Georgia Strait

Maple Beach

Pt. Roberts
Point Roberts

South Beach

United States

Washington
Whatcom County
Marine Drive (twice)

Boundary Bay Road

Boundary Line Road

South Beach Road

Pauls Road

Gulf Road

Johnson Road

Goodman Bay Road

✓ Northwest Grange

Roosevelt Road

Point Roberts ~~which~~
Township ~~is~~

(1960 Census map calls
it No. 12)

Names underlined in
red are approved.
10-17-52
L. Heck

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

TO BE CHARTED }
TO BE DELETED }

STRIKE OUT ONE

Halligthen, Washington

March, 1952

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be **charted-on** (deleted from) the charts indicated.

The positions given have been checked after listing by

Charles S. Clark

Chief of Party

STATE	WASHINGTON - British Columbia	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INNER CHART	OFFSHORE CHART	CHARTS AFFECTED	
					LATITUDE		LONGITUDE								DATUM
					°	'	°	'							
			International Boundary												
			Range A Front Light		19-00	250.4	123-06	803.4	N.A. 1927	I.B.C.		I		6300	
			This light has been destroyed and only the concrete foundation remains.												

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by *each column heading* **✓** shall be given.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

STRIKE OUT ONE

TO BE CHARTED
~~TO BE DELETED~~

March, 1952

Bellingham, Washington

I recommend that the following objects which have *(have not)* been inspected from seaward to determine their value as landmarks be charted on *(deleted from)* the charts indicated.

The positions given have been checked after listing by

Charles W. Clark

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				DATE OF LOCATION	METHOD OF LOCATION AND SURVEY NO.	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
			LATITUDE		LONGITUDE							
			D. M. METERS	° ' "	D. P. METERS	° ' "						
* International Boundary Range A Rear Light			49-00	123-03	1190	N.A. 1927	Photo Sextant T-8447		X		6300	
* The Light List designation of this Light is not known. It is probably International Boundary Range A Rear Light. See Form 524 files in General Files, Div. of Photogrammetry for description and position data. E.M.R.												

Chief of Party

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating* aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

Review Report
Topographic Map T-8447
23 October 1952

62. Comparison with Registered Topographic Surveys.-

T-1874 1:10,000 1888
Survey T-8447 is to supersede this survey for nautical charting.

63. Comparison with maps of other agencies.-None

64. Comparison with contemporary hydrographic surveys.- None

65. Comparison with Nautical Charts.-

6300 1941, latest correction 50 11/6
Numerous field edit corrections and additions were added to the manuscript. These changes were made with both black and red inks.

66. Adequacy of results and future surveys.-This map meets the National Standards of Map Accuracy and complies with project instructions.

Reference item 53. The vertical testing and contour revision done by the field editor was so comprehensive that no area of the map was missed. The work was controlled by a close network of checked planetable elevations left on the roads which secures accuracy throughout the map.

67. Aids to Navigation.-Reference item 57. The new inshore range mark is the rear light for Range A while the previously established rear light is the front light for Range A.

Form 524 was submitted during this review for "Concrete Pier 1952" which marks the position of the dismantled front light for Range A.

Reviewed by:

Everett H. Ramey
Everett H. Ramey

APPROVED

H. C. Lande
Chief, Review Section
Div. of Photogrammetry

W. Swanson
Chief, Div. of Photogrammetry

H. Edmonson
Chief, Nautical Chart Branch
Div. of Charts

Carl O. Heston
Chief, Div. of Coastal Surveys

78. Sept. 1953
This is another case, where the revision should have
the area be photographed in stead of going ahead with in
photography. W. Swanson

History of Hydrographic Information
T-8447
Point Roberts, Washington

Hydrography was added to the map manuscript in accordance with the general specifications of 18 May 1949.

Depth curves and soundings are in fathoms and originate with the following C&GS hydrographic survey:

H-2049 (1890) 1:20,000

Depth curves are shown at 1, 3, 5, and 10 fathoms.

Hydrography was compiled by Everett H. Ramey on 6 May 1953 and verified by Otto Svendsen.

Everett H. Ramey
Everett H. Ramey
10 June 1953