

# 11594

617

Diag. Cht. No. 6450-2.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Ph-5905 Office No. T-11594

### LOCALITY

State Washington

General locality Whidbey Island

Locality Swantown

19 60

### CHIEF OF PARTY

Lorne G. Taylor & Fred Natella

### LIBRARY & ARCHIVES

DATE July 1964

USCOMM-DC 5087

# 11594

DESCRIPTIVE REPORT - DATA RECORD

T- 11594

Project No. (II): Ph-5905

Quadrangle Name (IV):

Field Office (II): Mt. Vernon, Washington

Chief of Party: Lorne G. Taylor

Unit Chief: Wesley V. Hull

Photogrammetric Office (III):

Officer-in-Charge: Lorne G. Taylor

& Fred Natella

Instructions dated (II) (III): 10 Feb. 1960 II

Copy filed in Division of

Supplement 1 5 May 1960 II & III

Photogrammetry (IV)

Method of Compilation (III): Kelsh Instrument

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6000

Pantograph Scale

1:10,000

Scale Factor (III): None

Date received in Washington Office (II):

NOV 6 1961

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): X

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): SWANTOWN, 1942

Lat.: 48° 17' 26.142"

Long.: 122° 43' 28.412"

Adjusted X  
Unadjusted

Plane Coordinates (IV):

State: Washington

Zone: North

Y= 476,430.21

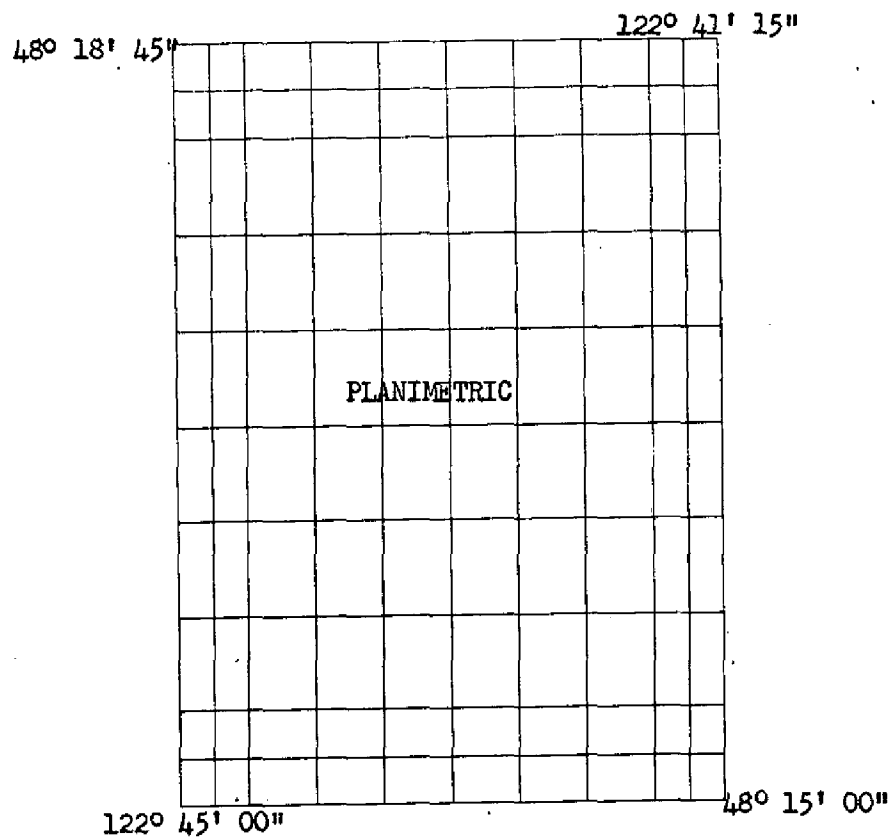
X= 1,539,627.54

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.

DESCRIPTIVE REPORT - DATA RECORD

3.  
U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY



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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): W. V. Hull & L. F. Van Scoy Date: June & Aug. 1960

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): 6-30 & 8-2-60 by field inspection and Kelsh Instrument compilation.

Projection and Grids ruled by (IV): J. E. T. Date: 5-4-60

Projection and Grids checked by (IV): W.S. Date: 5-4-60

Control plotted by (III): J. L. Harris Date: 11-17-60

Control checked by (III): R. M. Sundean Date: 11-17-60

Radial Plot or Stereoscopic Control extension by (III): W. A. Kuncis Date: July 1960

Stereoscopic Instrument compilation (III):  
Planimetry D. N. Williams Date: 11-9-60  
Contours Date:

Manuscript delineated by (III): L. L. Graves, Scribing Date: 11-29-60  
C. C. Harris, Stick-up 6-8-61

Photogrammetric Office Review by (III): J. L. Harris, Rough Draft Date: 11-18-60  
J. E. Deal, Advance 9-19-61

Elevations on Manuscript checked by (II) (III): Date:

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C&GS Single lens "S"

Number	Date	Time	Scale	Stage of Tide
60-S-2730 thru 2732	4-26-60	11:35	1:30,000	0.7' above M.L.L.W.

Tide (III)

Reference Station: Port Townsend, Washington  
Subordinate Station: Reservation Bay, Fidalgo I., Washington  
Subordinate Station:

Ratio of Ranges	Diurnal	
	Mean Range	Spring Range
	5.3	8.6
	4.5	7.6

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 10  
Shoreline (More than 200 meters to opposite shore) (III): 4  
Shoreline (Less than 200 meters to opposite shore) (III): None  
Control Leveling - Miles (II):  
Number of Triangulation Stations searched for (II): 13 Recovered: 10 Identified: 1  
Number of BMs searched for (II): None Recovered: Identified:  
Number of Recoverable Photo Stations established (III): None  
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

## FIELD INSPECTION REPORT

Map Manuscript T-11594

Project Ph-5905

Refer to the Field Inspection Report for the entire Project  
Ph-5905 by Wesley V. Hull, February 1960 to September 1960.

*Filed with Desc. Report T11584*

## PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-11594

Project Ph-5905

Refer to Photogrammetric Plot Report (Stereoplanigraph  
Bridge) Strip No. 9, Puget Sound, Washington; Whidbey and  
Camano Islands (1960) by W. A. Kuncis.

*Filed with Desc. Report T11584*

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY  
DESCRIPTIVE REPORT  
CONTROL RECORD

MAP T-11594

PROJECT NO. Ph-5905

SCALE OF MAP 1:10,000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\psi$ -COORDINATE LONGITUDE OR $\lambda$ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
TWIN, 1951	Wash.N. P. 271	N.A. 1927	482,734.91 1,542,015.74	2734.91 (2265.09) 2015.74 (2984.26)		833.6 (690.4) 614.4 (909.6)	
DO		"	482,431.5	2431.5 (2568.5)		741.1 (782.9)	
Sub. Station "A"			1,542,039.4	2039.4 (2960.6)		621.6 (902.4)	
DO		"	482,538.3	2538.3 (2461.7)		773.7 (750.3)	
Sub. Station "B"			1,541,942.4	1942.4 (3057.6)		592.0 (932.0)	
B-16, 1952	Wash.N. P. 280	"	483,912.28	3912.28 (1087.72)		1192.5 (331.5)	
B-20, 1952	"	"	1,548,217.47	3217.47 (1782.53)		980.7 (543.3)	
LAKE, 1939	"	"	482,697.77	2697.77 (2302.23)		822.3 (701.7)	
LOW, 1940	"	"	1,544,264.62	4264.62 (735.38)		1299.9 (224.1)	
PAYDAY	"	"	481,428.45	1428.45 (3571.55)		435.4 (1088.6)	
R.M. No. 1, 1942	P. 272	"	1,540,621.10	621.10 (4378.90)		189.3 (1334.7)	
B-18, 1952	"	"	465,860.24	860.24 (4139.76)		262.2 (1261.8)	
PAYDAY	P. 277	"	1,533,028.50	3028.50 (1971.50)		923.1 (600.9)	
R.M. No. 1, 1942	"	"	479,970.68	4970.68 (29.32)		1515.1 (8.9)	
B-18, 1952	P. 277	"	1,540,111.77	111.77 (4888.23)		34.1 (1489.9)	
SWANTOWN, 1942	"	"	483,955.02	3955.02 (1044.98)		1205.5 (318.5)	
WARNER, 1954	P. 280	"	1,545,622.49	622.49 (4377.51)		189.7 (1334.3)	
TARGET, 1951	"	"	476,430.21	1430.21 (3569.79)		435.9 (1088.1)	
	P-277	"	1,539,627.54	4627.54 (372.46)		1410.5 (113.5)	
	"	"	482,627.85	2627.85 (2372.15)		801.0 (723.0)	
	P. 272	"	1,547,054.15	2054.15 (2945.85)		626.1 (897.9)	
	"	"	483,978.72	3978.72 (1021.28)		1212.7 (311.3)	
	P. 271	"	1,545,614.94	614.94 (4385.06)		187.4 (1336.6)	

1 FT. = 3048006 METER

COMPUTED BY: C.H.B.

DATE 9-9-60

J.L.H.

DATE 9-19-60

COMM-DC-57645

CHECKED BY: C.H.B.

DATE 8-15-60

J.E.D.

DATE 8-17-60



## COMPILATION REPORT

Map Manuscript T-11594

Project Ph-5905

31. Delineation:

The Kelsh Instrument was used to compile the planimetric details. Some office delineation was necessary to supplement the field inspection relative to roads leading to waterfront facilities.

32. Horizontal Control:

Horizontal control was adequate.

33. Supplemental Data:

Refer to Descriptive Report for T-11588 (1960).

34. Contours and Drainage:

Contours are not applicable.

Drainage was field inspected and no additional drainage was indicated by reference to U.S.G.S 15 minute quadrangle, Deception Pass, Washington.

35. Shoreline and Alongshore Features:

The mean high-water line and alongshore features were adequately field inspected and no difficulties were encountered.

Low-water lines shown on the manuscript should be fairly accurate since the photographs were made at mean lower-low-water.

Shoal lines were not indicated because of a large Kelp area adjacent to the low-water line. The outer limits of this area have been compiled.

36. Offshore Details:

Individual rocks which were field inspected and which lie just offshore from the M.H.W.L. have been compiled.

37. Landmarks and Aids:

None.

38. Control for Future Surveys:

None.

39. Junctions:

Satisfactory junctions were made with T-11587 on the north, T-11595 on the east and with T-11601 and T-11602 on the south. A small area of shoreline of the Strait of Juan De Fuca has been compiled in the west marginal area of the manuscript and no junction is required because the Strait of Juan De Fuca borders to the west.

Items 40 and 46:

Refer to the Descriptive Report for T-11588 (1960).

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart No. 6380, 8th Edition March 3, 1947, Corrected through 1-23-60, Scale 1:80,000.

Comparison was made with Nautical Chart No. 6450, 11th Edition, March 3, 1945, Corrected through 1-23-60, Scale 1:80,000.

Items to be Applied to Nautical Charts Immediately.

None.

Items to be Carried Forward.

None.

Approved:

Respectfully submitted:

*Fred Natella* *J. Edward Deal*

Fred Natella, CAPT, C&GS  
Portland District Officer

J. Edward Deal  
Cartographer

49. Notes to the Hydrographer:

None.

T-11594

COMPILATION RECORD	COMPLETION DATE	REMARKS
4. Interior details added Compilation Complete	Sept. 19, 1961	

## PHOTOGRAMMETRIC OFFICE REVIEW

T- 11594

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

## CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy X 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) None 7. Photo hydro stations None 8. Bench marks None 9. Plotting of sextant fixes None 10. Photogrammetric plot report X 11. Detail points X

## ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline X 13. Low-water line X 14. Rocks, shoals, etc. X 15. Bridges None 16. Aids to navigation None 17. Landmarks None 18. Other alongshore physical features X 19. Other along-shore cultural features X

## PHYSICAL FEATURES

20. Water features X 21. Natural ground cover X 22. Planetable contours None 23. Stereoscopic instrument contours None 24. Contours in general None 25. Spot elevations None 26. Other physical features X

## CULTURAL FEATURES

27. Roads X 28. Buildings X 29. Railroads None 30. Other cultural features X

## BOUNDARIES

31. Boundary lines X 32. Public land lines None

## MISCELLANEOUS

33. Geographic names X 34. Junctions X 35. Legibility of the manuscript X 36. Discrepancy overlay None 37. Descriptive Report X 38. Field inspection photographs X 39. Forms X  
40. J.L. Harris J. Edward Deal

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.

\_\_\_\_\_  
Compiler\_\_\_\_\_  
Supervisor

43. Remarks:

M-2623-12

T-11594

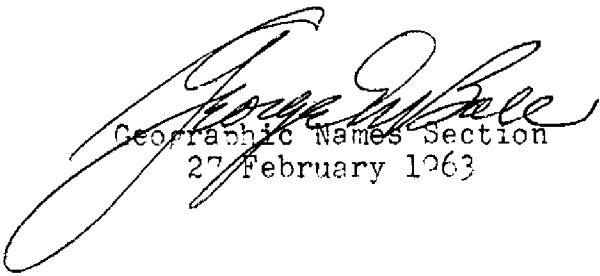
48. Geographic Names:

Hastie Lake

Strait of Juan de Fuca

Swantown

Whidbey Island

  
Geographic Names Section  
27 February 1963

Review Report  
Shoreline Surveys  
T-11594 through T-11600  
April 1964

61. General Statement

These are seven (7) shoreline maps of project PH 5905, Puget Sound, Washington. These maps were prepared primarily to provide basic maps, including the location of all non-floating aids and landmarks for use in revising our nautical charts, and for control of proposed hydrographic surveys.

62. Comparison with Registered Topographic Surveys

T-1253	1:10,000	1871
T-2011	1:20,000	1888
T-2156	1:20,000	1889
T-6685a	1:10,000	1939
T-6768	1:10,000	1940
T-6769	1:10,000	1940

Cultural and shoreline changes have been continuous with extensive cultural changes in Oak and Crescent Harbors on Whidbey Island. These maps are to supersede the above surveys of common area for nautical charting.

63. Comparison with Maps of Other Agencies

Deception Pass	1:62,500	1951
Utsolady	1:24,000	1956
Conway	1:24,000	1956

There are some cultural and shoreline differences but in general the agreement is good.

64. Comparison with Contemporary Hydrographic Surveys

H-8542	1:10,000	1960
H-8543	1:10,000	1960

Shoreline and control of the subject surveys was furnished prior to the hydrographic surveys and apparently no differences exist.

65. Comparison with Nautical Charts

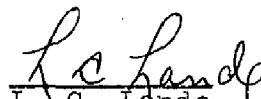
6404	1:10,000	1952 revised to Mar. 1961
6450	1:80,000	1961 revised to Oct. 1963
184 S.C.	1:80,000	1963

There are no differences of importance between the charts and the manuscripts.

66. Accuracy of Results and Future Surveys

These surveys were prepared according to project instructions and are within the required accuracy for nautical charting.

Reviewed by:

  
L. C. Lande

Approved by:

  
Chief, Photogrammetric Branch

 7/10/64  
Chief, Photogrammetry Division



