11626

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-11626

LOCALITY

State Washington

General locality Puget Sound
Saratoga Passage

Locality Langley

1960

CHIEF OF PARTY

Lorne G. Taylor and Fred Natella

LIBRARY & ARCHIVES

DATE April 1964

USCOMM-DC 5087

11626

FORM 181
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T - 11626

Project No. (II): Ph-5905 Quadrangle Name (IV):

Field Office (II): Mt. Vernon, Washington
Chief of Party: Lorne G. Taylor
Unit Chief: W. V. Hull
Photogrammetric Office (III): Portland, Oregon
Officer-in-Charge: Lorne G. Taylor & Fred Natella
Instructions dated (II) (III): 10 Feb 1960 II &
Supplement 1: 5 May 1960 II & III
Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Kelsh Stereoscopic 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 (IV): 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):
Mean sea level except as follows: X
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): SANDY 2, 1924

Lat.: 48° 02' 03.131" Long.: 122° 22' 30.356" Adjusted X
Unadjusted

Plane Coordinates (IV): State: Washington Zone: North

Y= 321,023.36 X= 1,622,808.69

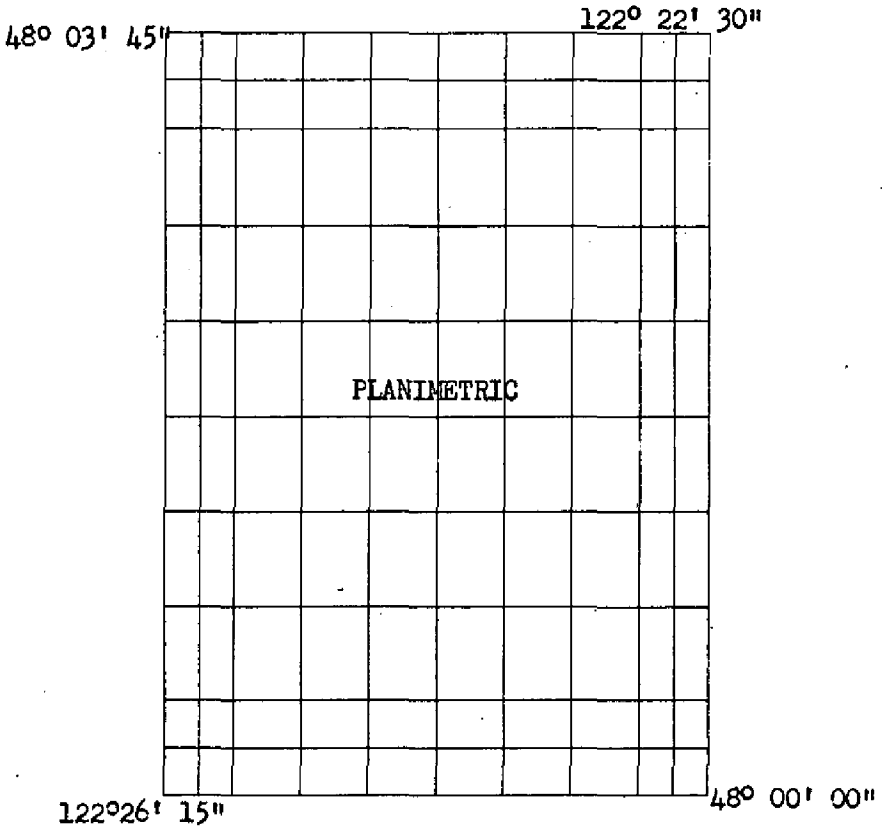
Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

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

FORM 181a
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD



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

FORM 181b
(4-23-54)

4.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): L. F. Van Scoy & J. D. Ulven Date: June & July 1960

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): 6-17-60 and 6-21-60 by field inspection and Kelsh Instrument compilation.

Projection and Grids ruled by (IV):	W. S.	Date:	6-9-60
Projection and Grids checked by (IV):	J. Keefer	Date:	6-9-60
Control plotted by (III):	L. L. Graves	Date:	10-11-60
Control checked by (III):	C. C. Harris	Date:	10-11-60
Radial Plot or Stereoscopic Control extension by (III):	W. A. Kuncis	Date:	July 1960
Stereoscopic Instrument compilation (III): Planimetry	D. N. Williams	Date:	11-21-60
Stereoscopic Instrument compilation (III): Contours		Date:	
Manuscript delineated by (III):	L. L. Graves, Scribing C. C. Harris, Stick-up	Date:	12-12-60 6-1-61
Photogrammetric Office Review by (III):	J. L. Harris, Rough Draft J. E. Deal, Advance	Date:	11-21-60 10-3-61
Elevations on Manuscript checked by (II) (III):		Date:	

COMM-DC-57842

FORM 181c
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5. U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C&GS Camera "S" and "L"

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
60-S-2485 & 2486	4-25-60	13:04	1:30,000	3.4' above M.L.L.W.
60-S-2792 & 2793	4-27-60	09:29	"	1.8' " "
60-L-9514 thru 9517	4-16-60	13:20	1:20,000	0.7' below "

Tide (III)

Ratio of Ranges	Mean Range	Diurnal ~~Spring~~ Range
	7.6	11.3
	7.6	11.2

Reference Station: Seattle, Washington
Subordinate Station: Tulalip, Washington
Subordinate Station:

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): 8
Shoreline (More than 200 meters to opposite shore) (III): 3.5
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 4 Recovered: 2 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): 1

Remarks:

COMM-DC-57842

FIELD INSPECTION REPORT

Map Manuscript T-11626

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 F-11584

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-11626

Project Ph-5905

Refer to the combined Photogrammetric Plot Report (Stereoplanigraph Bridge) for Strips 1, 3, 4, 5, 6, 7, 8, 9, 10 and 11 by Willard A. Kuncis, July 1960.

Filed with Desc. Report T-11584

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY
CONTROL RECORD

MAP T-11626 PROJECT NO. Ph-5905 SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-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)
SHORT, 1924 R.M.	Office	N.A.	390,255.01	255.01 (4744.99)		77.7 (1446.3)	
	Comp.	1927	1,622,471.55	2471.55 (2528.45)		753.3 (770.7)	
SANDY 2, 1924	Wash.N.	"	381,023.36	1023.36 (3976.64)		311.9 (1212.1)	
	P-286		1,622,808.69	2808.69 (2191.31)		856.1 (667.9)	
"	Office	"	380,749.91	749.91 (4250.09)		228.6 (1295.4)	
Sub Station "A"	Comp.		1,622,779.54	2779.54 (2220.46)		847.2 (676.8)	
"	"	"	380,894.73	894.73 (4105.27)		272.7 (1251.3)	
Sub Station "B"			1,622,441.01	2441.01 (2558.99)		744.0 (780.0)	

1 FT. = .3048006 METER

COMPUTED BY: J.L.H. DATE 9-23-60 CHECKED BY: L.L.G. DATE 9-23-60

COMM-DC-57843

COMPILATION REPORT

Map Manuscript T-11626

Project Ph-5905

31. Delineation:

The Kelsh Instrument was used to compile the planimetric details. Except as stated under Item 35, Shoreline and Alongshore Areas, the field inspection was satisfactory.

32. Control:

Horizontal control was satisfactory.

33. Supplemental Data:

Map of Island County, Washington, Scale 1 inch = 1 mile, compiled by Island County Engineer, March 1958.

34. Contours and Drainage:

Contours are not applicable.

Drainage was not field inspected. The drainage shown on the map manuscript was delineated by the compiler with reference to the U.S.G.S. Langley, Washington, quadrangle.

35. Shoreline and Alongshore Areas:

The mean high-water line was spot located by field inspection and delineated by the compiler.

Panchromatic and infrared photography was furnished for the shoreline areas.

Field inspection was done on the panchromatic photography which was taken when the tide was 1.8 ft. above M.L.L.W. The field inspector apparently ignored the infrared photography which was taken when the tide was 0.7 ft. below M.L.L.W. On the day the field inspection was done there was a -0.9 ft. tide at 9;21 AM and the field inspector was apparently in the area at that time. The compiler delineated the foreshore area, an approximate low-water line and a shallow limits using both sets of photography for interpretation. There were many features which could not be definitely determined, the most important of which were several areas that bare at low-water. These appear dark on the panchromatic photography and practically white on the infrared photography and may be kelp or

marsh areas. They are shown on the manuscript outlined with the low-water line symbol, but their character is not indicated.

36. Offshore Details:

Numerous rocks and piling just offshore from the mean high-water line are shown. Data on rocks baring along the shoreline was furnished by the field inspector for the time of field inspection and was transcribed to the vertical datum of the manuscript by the compiler.

37. Landmarks and Aids:

None.

38. Control for Future Surveys:

One photo-hydro station was located by Kelsh Instrument. It is listed under Item 49, Notes to the Hydrographer.

39. Junctions:

Satisfactory junctions were made on the north with T-11620, on the west with T-11625, on the east with T-11627 and on the south with T-11633.

Items 40, 46 and 47:

Refer to the Descriptive Report of T-11625 (1960).

Approved:

Fred Natella

Fred Natella, CAPT, C&GS
Portland District Officer

Respectfully submitted:

Edward Deal

J. Edward Deal
Cartographer

49. Notes to the Hydrographer:

One photo-hydro station was located:

Number	Description	Field Photo No.
2601	Angle Point in Concrete Bulkhead	60-S-2792

T - 11626

COMPILATION RECORD	COMPLETION DATE	REMARKS
1. Alongshore area for hydro	Mar. 30, 1961	
4. Interior details added. Compilation complete.	Oct. 4, 1961.	

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T-11626

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 X 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 alongshore 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 None 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 (Reviewer) J.Edward Deal (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-11626

48. Geographic Names:

Camano Island

Langley

Sandy Point

Saratoga Passage

Whidbey Island

Geographic Names Section
4 February 1963

Review Report
Shoreline Surveys
T-11623 through T-11630
January 1964

61. General Statement

There are eight (8) 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-1388a	1:10,000	1872
T-1681	1:20,000	1885
T-1682	1:20,000	1885
T-1994	1:20,000	1888

Cultural and shoreline changes have been continuous with extensive cultural changes in the urban areas. These maps are supersede the above surveys for common area for nautical charting.

63. Comparison with Maps of Other Agencies

Freeland, Washington	1:24,000	1953
Langley, Washington	1:24,000	1956
Tulalip, Washington	1:24,000	1956
Marysville, Washington	1:24,000	1956

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

64. Comparison with Contemporary Hydrographic Surveys

H-8609	1:10,000	1960
H-8699	1:10,000	1961
H-8753	1:10,000	1963

Shoreline and control of subject surveys was furnished prior to hydrography and no changes of importance have been made. There is good agreement.

65. Comparison with Nautical Charts

6448	1:40,000	1935 revised to 1962
6450	1:80,000	1961 revised to 1963
~~1845.6~~ 1945 6	1:80,000	1963

There are only minor differences between the charts and the subject 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

Chief, Photogrammetry Division 4/27/64

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11626

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	Examined REMARKS
6448	10/27/64	George Myers	Full (Part) ~~Before~~ After Verification Review ~~Inspection~~ Signed Via
			Drawing No.
18441	4/24/80	R. A. Lillis 5-29-80-RCS	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 49
18444	7-10-80	C James 7-15-80 RCS	Full ~~Part Before~~ After Verification Review Inspection Signed Via
CPH Chart			Drawing No. 10 Exam no corr superseded by NANC 1-1978 (CBp106318) OFF Chart
18443	7-11-80	C James 7-15-80-RCS	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. EXA
18423	2/23/81	D. C. Larson 3-17-81 RBB	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 21
18440	3/12/81	D. C. Larson 3-17-81 RBB	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 33
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

USCOMM-DC 8558-P63