

# 12068

orig

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-6101 Office No. T-12068

### LOCALITY

State WASHINGTON

General locality ADMIRALTY INLET

Locality PORT LUDLOW

1960-1961

### CHIEF OF PARTY

FRED NATELLA

### LIBRARY & ARCHIVES

DATE May 1964

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12068

## DESCRIPTIVE REPORT - DATA RECORD

T - 12068

PROJECT NO. (II):

PH-6101

FIELD OFFICE (II):

PORT TOWNSEND, WASHINGTON

CHIEF OF PARTY

FRED NATELLA

UNIT CHIEF

R. B. MELBY

PHOTOGRAMMETRIC OFFICE (III):

PORTLAND, OREGON

OFFICER-IN-CHARGE

FRED NATELLA

INSTRUCTIONS DATED (II) (III):

	14 MARCH 1961	II, III
AMENDMENT 1:	8 MAY 1961	II, III
AMENDMENT 1:	17 MAY 1961	II, III
AMENDMENT 4, 1	14 DECEMBER 1962	III

METHOD OF COMPILATION (III):

KELSH INSTRUMENT

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:6000

PANTOGRAPH SCALE:

1:10,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (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):

WHITE, 1934

LAT.:

47° 53' 57.881"

LONG.:

122° 38' 47.249"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

333,315.53

X = 1,555,274.00

STATE

WASHINGTON

ZONE

NORTH

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

FIELD INSPECTION BY (II): <b>R. B. MELBY</b>		DATE: <b>JULY - AUG. 1961</b>
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  <b>By FIELD INSPECTION AUGUST 1961 AND COMPILED BY KELSH INSTRUMENT.</b>		
PROJECTION AND GRIDS RULED BY (IV): <b>A. R.</b>		DATE <b>4-11-62</b>
PROJECTION AND GRIDS CHECKED BY (IV): <b>A. R.</b>		DATE <b>4-16-62</b>
CONTROL PLOTTED BY (III): <b>C. H. BISHOP</b>		DATE <b>5-16-62</b>
CONTROL CHECKED BY (III): <b>J. L. HARRIS</b>		DATE <b>5-16-62</b>
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): <b>R. J. PUEL</b>		DATE <b>APRIL 1962</b>
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY <b>D. N. WILLIAMS</b>	DATE <b>6-21-62</b>
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III):		DATE
SCRIBING BY (III): <b>C. C. HARRIS</b> <b>STICK-UP:</b> <b>L. L. GRAVES</b>		DATE <b>10-10-62</b> <b>1-2-63</b>
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): <b>J. L. HARRIS, ROUGH DRAFT</b> <b>J. L. HARRIS, ADVANCE</b>		DATE <b>6-28-62</b> <b>2-1-63</b>
REMARKS:		

## DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

C&amp;GS SINGLE LENS "W"

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 2-36 THRU 2038	9-21-60	12:08	1:30,000	2.7' ABOVE M.L.L.W.
RATIO PRINTS OF ABOVE AT 1:10,000 SCALE.				
COMPUTED FROM PRE-DICTED TIDE TABLES.				

## TIDE (III)

## DIURNAL

~~SPRING~~  
RANGE

		RATIO OF RANGES	MEAN RANGE	<del>SPRING</del> RANGE
REFERENCE STATION:	SEATTLE, WASHINGTON		7.6	11.3
COORDINATE STATION:	PORT LUDLOW, WASHINGTON		6.4	9.9
SUBORDINATE STATION:				
WASHINGTON OFFICE REVIEW BY (IV):		DATE:		
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	13	RECOVERED:	9	IDENTIFIED: 3
NUMBER OF BM(S) SEARCHED FOR (II):	7	RECOVERED:	7	IDENTIFIED: 1
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):		0		
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):		3		

REMARKS:

## FIELD INSPECTION REPORT

MAP MANUSCRIPT T-12068

PROJECT PH-6101

REFER TO THE FIELD INSPECTION REPORT FOR T-12066 THRU  
T-12068, JULY - AUGUST 1961 BY ROBERT B. MELBY WHICH IS INCLUDED  
IN THE DESCRIPTIVE REPORT FOR T-12066.

\*ALSO REFER TO SPECIAL REPORT, PROJECT PH-6101, "NOTES TO  
COMPILER" DATED 4 AUG. 1961 BY ROBERT B. MELBY.

\* *A part of Desc. Report T-12054*

## PHOTOGRAMMETRIC PLOT REPORT

MAP MANUSCRIPT T-12068

PROJECT PH-6101

REFER TO THE PHOTOGRAMMETRIC PLOT REPORT No. 1 BY RAYMOND  
J. PUHL, APRIL 1962, INCLUDED WITH THE DESCRIPTIVE REPORT FOR  
T-12068.

U.S. DEPARTMENT OF COMMERCE  
DESCRIPTIVE REPORTCOAST AND GEODETIC SURVEY  
TROL RECORD

MAP T. 12068

PROJECT NO. PH-6101

SCALE OF MAP 1:10,000

SCALE FACTOR NONE

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\mu$ -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)
HANA, 1934	WASH.N. P-75	N.A. 1927	344,343.09	4343.09						
			1,551,657.46	1657.46						
LUDLOW, 1927	DO	"	343,188.58	3188.58						
			1,547,332.46	2332.46						
PORT LUDLOW, REAR RANGE TANK, 1934	DO	"	342,908.	2908.						
			1,546,230.	1230.						
ROCK ISLAND, 1878	"	"	320,921.02	921.02						
			1,556,102.04	1102.04						
SHINE, 1927	DO	"	322,205.58	2205.58						
			1,547,919.91	2919.91						
SUB STA. A	OFFICE COMP.	"	322,247.2	2247.2						
			1,547,733.7	2733.7						
SUB STA. B	"	"	322,246.1	2246.1						
			1,548,146.6	3146.6						
TALA, 1923 <sup>17</sup>	WASH.N. P-358	"	344,699.97	4699.97						
			1,553,074.49	3074.49						
TEAL, 1955	"	"	332,557.86	2557.86						
			1,550,705.49	705.49						
TERMINATION 3 1927	"	"	321,641.49	1641.49						
			1,557,740.99	2740.99						
WHITE, 1934	"	"	333,315.53	3315.53						
			1,555,274.00	274.00						

1 FT. = 3048006 METER  
COMPUTED BY

A.J.P.

DATE 4-27-62

CHECKED BY C.H.B.

DATE 5-14-62

COMMA-DC-57843

COMPILATION REPORT  
MAP MANUSCRIPT T-12068  
PROJECT PH-6101

31. DELINEATION:

PLANIMETRY WAS COMPILED BY USE OF THE KELSH INSTRUMENT. THE MANUSCRIPT WAS SCRIBED IN ACCORDANCE WITH METHOD 2, PHOTOGRAMMETRIC INSTRUCTIONS 55, REVISED, DATED MAY 20, 1959 AND WAS COMPLETED PRIOR TO RECEIPT OF AMENDMENT 4, DATED DECEMBER 14, 1962.

32. CONTROL:

ADEQUATE SUPPLEMENTARY CONTROL WAS ESTABLISHED BY ANALYTIC AEROTRIANGULATION.

33. SUPPLEMENTAL DATA:

NONE.

34. CONTOURS AND DRAINAGE:

CONTOURS ARE NOT APPLICABLE.

DRAINAGE WAS COMPILED AS FIELD INSPECTED WHICH, IN SOME INSTANCES, WAS EXTENDED UPON STEREOSCOPIC EXAMINATION OF THE OFFICE PHOTOGRAPHY. COMPARISON WAS MADE WITH THE DRAINAGE SHOWN ON THE U.S.G.S. QUADRANGLE AND FOUND TO BE IN GOOD AGREEMENT.

35. SHORELINE AND ALONGSHORE DETAILS:

THE MEAN HIGH-WATER LINE WAS SPOT LOCATED BY THE FIELD PARTY AND REFINED BY THE KELSH OPERATOR. THE CHARACTER OF THE FORESHORE WAS FIELD INSPECTED AND THE OFFSHORE LIMITS OF THESE FEATURES WERE DELINEATED FROM PHOTOGRAPHY TAKEN AT A PREDICTED TIDE OF 3.6 FEET ABOVE M.L.L.W. AN APPROXIMATE SHALLOW LINE WAS ALSO DELINEATED IN SOME AREAS FROM THE SAME PHOTOGRAPHS.

36. OFFSHORE DETAILS:

DOLPHINS AND ROWS OF PILING WERE COMPILED AS INDICATED BY THE FIELD PARTY ON THE FIELD PHOTOGRAPHS. HEIGHTS OF ROCKS DETERMINED FOR THE TIME OF FIELD INSPECTION WERE CORRECTED TO THE VERTICAL DATUM OF THE MANUSCRIPT.



37. LANDMARKS AND AIDS:

ONE INTERSECTION TRIANGULATION STATION HAS BEEN SHOWN AS A LANDMARK. FORM 567 IS SUBMITTED:

38. CONTROL FOR FUTURE SURVEYS:

THREE PHOTO-HYDRO STATIONS WERE PLOTTED AND SHOWN ON THIS MANUSCRIPT. THEY WERE IDENTIFIED BY THE FIELD UNIT AND THEIR POSITIONS WERE DETERMINED DURING THE AEROTRIANGULATION BRIDGING OPERATION. NUMBERS AND DESCRIPTIONS OF THESE HYDRO STATIONS ARE LISTED IN PARAGRAPH 49.

39. JUNCTIONS:

SATISFACTORY JUNCTIONS WERE MADE WITH T-12067 TO THE NORTH AND WITH T-12069 TO THE EAST. THERE ARE NO CONTEMPORARY SURVEYS TO THE SOUTH OR WEST.

40. HORIZONTAL AND VERTICAL ACCURACY:

46. COMPARISON WITH EXISTING MAPS:

COMPARISON WAS MADE WITH THE U.S.G.S. 7½ MINUTE PORT LUDLOW, WASHINGTON QUADRANGLE, SCALE 1:24,000, EDITION 1953.

47. COMPARISON WITH NAUTICAL CHARTS:

COMPARISON WAS MADE WITH THE FOLLOWING NAUTICAL CHARTS:

NAUTICAL CHART 6401, SCALE 1:150,000 AT LAT. 47° 40'  
1ST ED. 8010-46, REVISED 10-6-58.

NAUTICAL CHART 6450, SCALE 1:80,000 AT LAT. 47° 57'  
12TH ED. NOV. 1961, REVISED 8-6-62.

NAUTICAL CHART 6421, SCALE 1:20,000 AT LAT. 47° 53'  
1ST ED. NOV. 1945, REVISED 8-8-60.

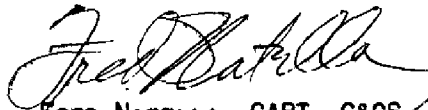
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

NONE.

ITEMS TO BE CARRIED FORWARD:

NONE.

APPROVED:

  
FRED NATELLA, CAPT, C&GS  
PORTLAND DISTRICT OFFICER

RESPECTFULLY SUBMITTED:

  
JAMES L. HARRIS.  
CARTOGRAPHER

48. GEOGRAPHIC NAME LIST:

THE GEOGRAPHIC NAMES LISTED BELOW WERE FURNISHED BY THE  
WASHINGTON OFFICE ON A FINAL NAME SHEET, A COPY OF THE U.S.G.S  
PORT LUDLOW, WASHINGTON 7½ MINUTE QUADRANGLE, SCALE 1:24,000,  
EDITION 1953.

BYWATER BAY  
HOOD CANAL  
PORT LUDLOW (BAY)  
PORT LUDLOW (COMMUNITY)  
TALA POINT  
TEAL LAKE  
THE TWINS  
SWANSONVILLE  
WHITE ROCK

*George H. Bane*  
*Geographic Names*  
*Section*  
*August 14 1963*

49/ NOTES FOR THE HYDROGRAPHER:

THREE PHOTO-HYDRO STATIONS, IDENTIFIED BY THE FIELD PARTY,  
WERE LOCATED BY ANALYTIC AEROTRIANGULATION METHODS.

<u>No.</u>	<u>DESCRIPTION</u>	<u>FIELD PHOTO No.</u>
6801	S.E. ONE OF TWO CUPOLAS ON ROOF OF ABANDONED BUILDING	60 W 2036
6802	N.W. CORNER OF BLDG.	60 W 2036
6803	N.W. GABLE OF BLDG.	60 W 2036

## PHOTOGRAMMETRIC OFFICE REVIEW

T-12068

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) X		7. PHOTO HYDRO STATIONS X
8. BENCH MARKS X	9. PLOTTING OF SEXTANT FIXES None	10. PHOTOGRAMMETRIC PLOT REPORT X	11. DETAIL POINTS None
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 X	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. REVIEWER James L. Harris		SUPERVISOR, REVIEW SECTION OR UNIT Edward Deal	
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			

Review Report  
Shoreline Surveys  
T-12068 thru T-12073  
November 1963

61. General Statement

These are six (6) shoreline maps of project PH-6101, Admiralty Inlet, Washington. These maps were prepared primarily for the location of non-floating aids and landmarks for the revision of our nautical charts and for control of proposed hydrographic surveys.

62. Comparison with Registered Topographic Surveys

T-1303b	1:10,000	1872
T-1389b	1:10,000	1872
T-4287	1:10,000	1927
T-4307	1:10,000	1927
T-6259	1:20,000	1934

Cultural and shoreline changes have been continuous. These map manuscripts are to supersede the above listed surveys for common area for nautical charting.

63. Comparison with Maps of Other Agencies

Port Ludlow	1:24,000	1953
Hansville	1:24,000	1953
Port Gamble	1:24,000	1953
Edmonds (East)	1:24,000	1953
Edmonds (West)	1:24,000	1953

There are cultural and shoreline changes due to the difference in survey dates.

64. Comparison with Contemporary Hydrographic Surveys - None

65. Comparison with Nautical Charts

6401	1:150,000	Oct. 1962
6521	1:20,000	revised to Aug 1960
6450	1:80,000	revised to June 1963

There are no differences of importance between the Charts and the subject manuscripts.

66. Adequacy 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  
L.C. Lande

Approved by:

Charles L. Lamm  
Chief, Photogrammetric Branch

J. E. Waugh 11/31/64  
Chief, Photogrammetry Division



### RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-12068

## 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.

[illegible]