Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of S	urvey	Shorelin	ie
Field No	PH-6712	Office No.	T-13153 Edition 1 *
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State	Washi	ngton	given yellen far en samelen den far het far de
General lo	cality Ellic	tt Bay	
Locality	Duwamis	h Waterw	ау
M1* M1**			
		19 66-19	70
Div. of		OF PARTY Sobiera mmetry,	lski Wash., D.C.
	LIBRARY	& ARCHIV	'ES
DATE			

* Refer to Memo, page 12,

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T - 13153

PROJECT NO. (II):	<u>-</u>		<u>-</u>	
PH-6712, Elliott Bay, Wash	ington			
FIELD OFFICE (II):	11150011	CHIEF OF PARTY	<u> </u>	-
		Ì		
PHOTOGRAMMETRIC OFFICE (BI):		OFFICER-IN-CHAP		
Rockville, Maryland		V. Ralph	Sobiera	lski
INSTRUCTIONS DATED (II) (III):				
No written instru	ictions.			
METHOD OF COMPILATION (III):				
Graphic and B-8 stereoplott				
MANUSCRIPT SCALE (III):	STEREOSCO	OPIC PLOTTING INS	TRUMENT SCA	LE (III):
1:5,000		1:15,000		
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPO	ORTED TO NAUTICA	L CHART BRA	NCH (IV):
APPLIED TO CHART NO.	DATE:		DATE REGIS	TERED (IV):
	1		SEP	T 1976
GEOGRAPHIC DATUM (III):		VERTICAL DATU	м (ш):	
		MEAN SEA LEVEI		
		Elevations shown		_
N.A. 1927		i.e., mean low water	er or mean lowe	r low water
REFERENCE STATION (III):	··	<u> </u>	-	
DADIC 1017				
PARK 1917 LAT.: LONG.:	•			
47° 31' 26.178" 122° 19' 22.	903"	X ADJUSTED UNADJUSTED		
PLANE COORDINATES (IV):		STATE		ZONE
v= 194,188.66	7	Washing	ton	North
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTI OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE				

DESCRIPTIVE REPORT - DATA RECORD

Į.	T-13153	
FIELD INSPECTION BY (II):	. , , , , , , , , , , , , , , , , , , ,	DATE:
WEAT TO THE TOTAL COLUMN (STATE TO THE TOTAL COL	AND WETUOD OF LOCATION'S	1
photography taken		
July 26. 1966	- Office Interpretation of	photography
and	,	
Sept. 11-1970	- Office Interpretation of	
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. E. Roundtree		3/16/67
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. Glaser		3/20/67
CONTROL PLOTTED BY (III):		DATE
J. C. Richter		April 1967
CONTROL CHECKED BY (III):		DATE
H. Lucas		April 1967
RADIAL PLOT OR STEREOSCOPIC CONTROL EXT	ENSION BY (III): See Photogrammetric 519 (Chart 6442) Dec. 1963	OATE
	T. Gerlach	
STEREOSCOPIC INSTRUMENT COMPILATION (III):		DATE
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III):		DATE
J. C. Richter		
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
REMARKS:	Allan F. Divis Sept. 8	O.Y. 1970
rield edil by	ilian i vivis septi	00.1110

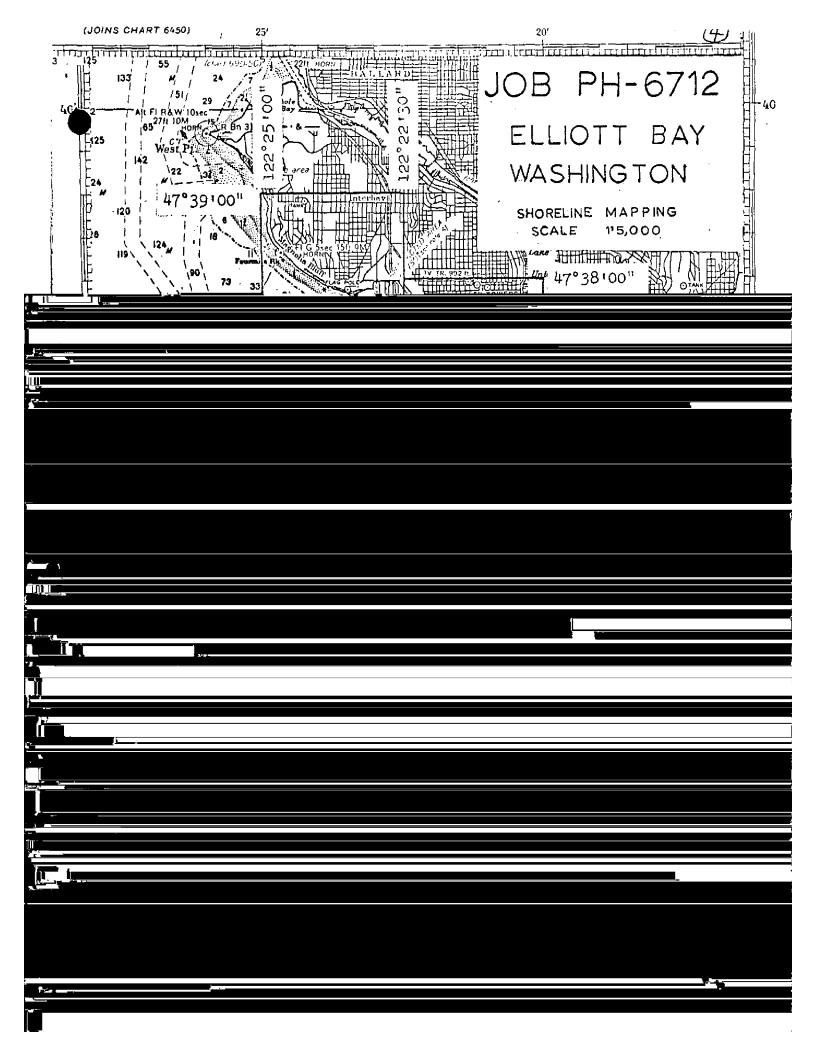
DESCRIPTIVE REPORT - DATA RECORD

7-13/53

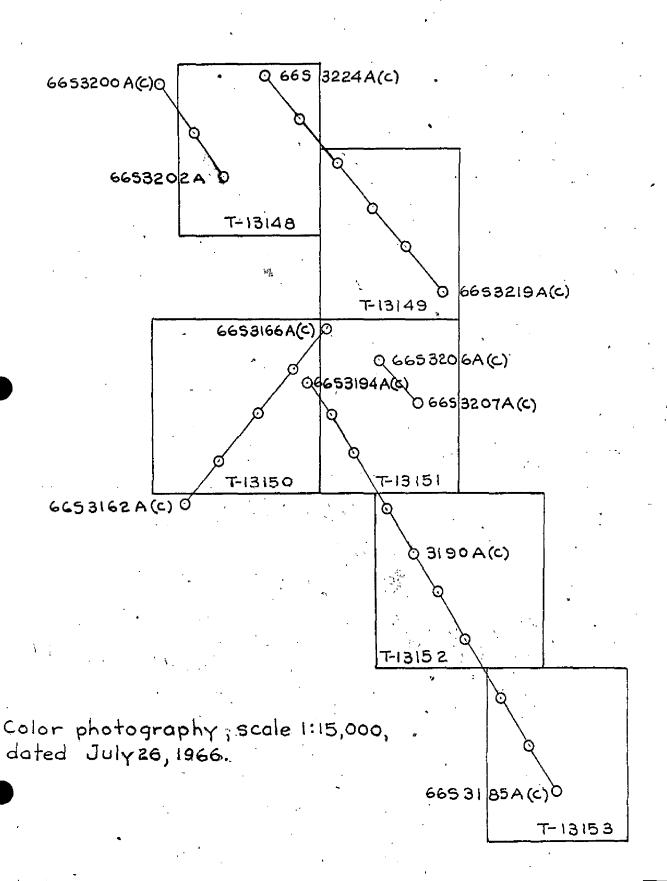
CAMERA (KIND OR SOURCE) (III):

"S" 6" Focal Length

"s"_6":	Focal Length	<u> </u>				
	PF	IOTOGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	ST	AGE OF TI	DE
66-8-3185A thru 3187A	7/26/66	12:36	1:15,000	8.8 a	bove M	ĹW
C,8 E. S-7026-48-5 Thru S-7026-48-12	9-11-70	UnKnown	1:12,000	unk	10wn	
		TIDE (III)		RATIO OF	MEAN	SPRING
				RANGES	RANGE	PANGE Diurna
REFERENCE STATION:	eattle, Wash	nington			7.6	11.3
SUBORDINATE STATION:						
SUBORDINATE STATION:		<u> </u>				
WASHINGTON OFFICE REVIEW BY	(IV): J.	B. Phillip.	5	DATE:	4/4 1	976
PROOF EDIT BY (IV):		- /-		DATE:	_,	
NUMBER OF TRIANGULATION STA	TIONS SEARCHED FO	R (II):	RECOVERED:	IDENTIFIE	D:	
NUMBER OF BM(S) SEARCHED FO	R (II):		RECOVERED:	IDENTIFIE	Ö	
NUMBER OF RECOVERABLE PHOT	O STATIONS ESTABL	ISHED (III):	·	 		
NUMBER OF TEMPORARY PHOTO	HYDRO STATIONS EST	FABLISHED (III):				
REMARKS:						



PH-6712 ELLIOTT BAY, WASH Photo Coverage



T-13153

COMPILATION RECORD	COMPLETION DATE	REMARKS
KYRKKKKKKKK KKKKKKKKKKK KKKKKKKKKKKKKKK		
* (See below)		
-		
Field edit applied	May 1971	Superseded
-		
Field edit application revised	July 1975	

^{*} Field inspection and field edit completed in 1964 for T-12519 (chart 6442) scale 1:10,000. Cronaflex copies enlarged 2X were paneled on this manuscript and detail revised with 1966 "S" photography in June 1967.

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Summary (PH-6712)

7-/3/53 is one of six 1:5,000 scale shoreline manuscripts prepared for photo-hydro support. These manuscripts orginated with PH-21411 (T-12519) compiled in April 1964 and field edited in September 1964.

PH-21411 was compiled at 1:10,000 scale and served as the base for Nautical Chart 6442. Photographic enlargements on film were made of the chart manuscript and these were applied to base sheets ruled for the new 1:5,000 scale shoreline mapping project. In July 1966, 1:5,000 scale photography was flown over the area for photo revision and for preparation of ratio prints for photo-hydro support. The photography was raticed and prepared for hydrography in May 1967.

Field edit and hydrographic operations were delayed until September and October 1970. The Corps of Engineers supplied 1:12,000 scale panchromatic photography taken in September 1970 for field edit use. The field editor visually verified the adequacy of the 1970 photography for use in revising map details. Edit information, including the 1970 photography, was applied in 1971. In 1975 the hydrographic survey reviewer requested the photogrammetric map for use in his review. Upon examination of the map the reviewer found errors in the application of field edit. The errors resulted, primarily, from the poor quality of the photographic prints used in 1971. Better quality prints were obtained and applied in 1975.

Refer to page <u>/2</u> of this Descriptive Report concerning the disposition of inadequacies in PH-6712 maps.

Final review was accomplished at the Rockville Office in July 1976.

Several changes were made to the shoreline and foreshore features during review. No attempt was made to update the buildings or other cultural features.

A stable base positive copy of the map and a Descriptive Report will be registered in the NOS Archives.

8

COMPILATION REPORT T-13153

This manuscript was compiled from a 2X enlargement of T-12519 (chart 6442) which was compiled in April 1964 and field edited in September 1964.

The enlargement on cronaflex was brought up to date graphically with 1:5,000 scale black and white cronapaque ratios of color photographs taken in July 1966.

One model of 1:15,000 color transparency was compiled on B-8 stereoplotter to complete the Duwamish Waterway on the south half of the manuscript.

After corrections the cronaflex enlargement was paneled on 1:5,000 scale manuscripts and photographs were prepared for hydro support.

31. Delineation

Graphic methods were used on the north half and the B-8 stereoplotter on the south half.

32. Control

There is an abundance of triangulation stations in the area of this manuscript.

33. Supplemental Data

None

34. Contours and Drainage

None

35. Shoreline and Alongshore Detail

There was no field inspection of the 1966 photography. No low water or shoal lines were visible on the photography.

36. Offshore Detail

No comment.

9

37. Landmarks and Aids

One landmark was abstracted from Form 567 of T-12519 (chart 6442) and listed on Form 567 for this manuscript.

38. Control for Future Surveys

None

39. Junctions

To the north with T-13152 in agreement. No contemporary survey to the east, west or south.

40. Horizontal and Vertical Accuracy

No comment

41. thru 45.

Inapplicable

46. Comparison with Existing Maps

Comparison was made with USGS quadrangle Seattle South, 1949, scale 1:24,000.

47. Comparison with Nautical Charts

A comparison was made with nautical chart No. 6442, scale 1:10,000, 2nd Edition, August 8, 1966, corrected to Jan. 14, 1967.

Items to be applied to nautical charts immediately:
None

Items to be carried forward:
None

Submitted by:

Approved by:

J. C. Richter

K. N. Maki, Chief Compilation Section



FIELD EDIT REPORT

MAP T-13153

Duwamish Waterway

Field edit of map T-13153 was accomplished during September and October 1970 from a skiff in conjunction with photogrammetric signal location and from a launch during hydrography.

METHOD

Field photographs and a paper ozalid copy of the manuscripts were employed in the field in place of Field Edit Ozalids which were not provided. The mean high water line and shoreline detail were verified by visual comparison of the shore area to field photographs and ozalid manuscripts. Army Corps of Engineers scale 1:12,000 photographs of 19 September 1970 were also used during field edit. Notes have been made in violet ink on the field edit ozalid and cross referenced where necessary to matte ratio prints 66 S 3185A and 66S3186A.



ADEQUACY OF COMPILATION

Compilation of the map is good. Minor changes have been made in the area covered by the map as noted on the field edit ozalid and referenced photographs. Field Inspection of the map is complete.

Review Report T-13153 Shoreline Survey

July 1976

62. Comparison with Registered Topographic Surveys

T-12519

1:10,000

1964

Refer to memorandum page /2.

63. Comparison with Maps of Other Agencies

Refer to the Compilation Report, item 46.

64. Comparison with Contemporary Hydrographic Surveys

н-9168

1:5,000

1970

Comparison was made with the final reviewed hydrographic survey and they are in agreement.

65. Comparison with Nautical Charts

6442

1:10,000

1964

Refer to memorandum page 12.

66. Adequacy of Results and Future Surveys

This map meets horizontal accuracy standards but does not meet NOS requirements for use in nautical chart maintenance. Refer to page /2 of this Descriptive Report concerning the inadequacies of this map.

Submitted by:

J. B. Phillips

Sphillip

Approved and Forwarded:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division



UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL OCEAN SURVEY Rockville, Md. 20852

C3421

July 22, 1976

·TO:

Chief, Coastal Mapping Division

FROM:

Quality Control Group & Ela Michigan

SUBJECT: Recommendation for New Mapping, Elliott Bay, Washington

1. Purpose

The memo outlines the need for a 2nd Edition of Map T-12519 (PH-21411), date 1964.

2. Background

Map T-12519, scale 1:10,000, was used in hydro operations in 1970. Six 1:5,000 scale maps (PR-6712), 2X enlargements of portions of the 1:10,000 scale map, were processed and revised with 1966 photography. Hydrography and field edit were accomplished in 1970.

3. Map Adequacy

For reasons outlined under Section 4, the six 1:5,000 scale maps do not meet NOS requirements for use in nautical chart maintenance. The inadequacies do not affect the basic hydrographic (sounding) information on the contemporary hydrographic surveys.

4. Map Deficiencies

Field edit of the 1:5,000 scale maps was inadequate. The field edit reports state that after revision of the maps with 1970 Corps of Engineers photography in areas indicated (by the editor) they will meet requirements. Many changes in shoreline and alongshore features, apparent on the photographs, were not noted by the editor. The photographs were generally poor for interpreting details and little clarification was done by the editor. Although the hydrographer corrected some photogrammetric survey details on the boat sheet, many changes, apparent on the 1970 photographs, were accepted as compiled from the 1966 photographs.





(13)

5. Disposition of 1:5,000 Scale Maps

The six 1:5,000 scale maps were reviewed in July 1976. Changes required in hydrographic survey details were called to the attention of the hydro survey reviewer by notes on the reviewed smooth sheet or by memo, as applicable.

6. Recommended Procedures

New bridging and basic compilation is recommended for the 2nd map edition.

Note: The last Complete investigation of landaments



48. Geographic Names List

Duwamish Waterway

. 19_67

July

Seattle, Washington

U.S. DEPARTEM TOF COMMEDIE 400

CUMMERCE	SURVEY	
5	GEODETIC SURVEY	
VERAR -	AST AND	

MOMETORITMENAMENTALINE LANDIMARKS FOR CHARTS

STRIKE OUT TWO

TO SEXUELE # EDS TO BE CHARTED TO SEXENTED

I recommend that the following objects which have (haxex mat) been inspected from seaward to determine their value as landmarks be charted on (ANDERSA STATES) the charts indicated.

Chief of Party. Capt. C&GS October 11, 1963 Fred Natella, Robert B. Melby The positions given have been checked after listing by

										5	(30.	Chief of Larry.
STATE	1.7 2.7 3.8 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7				POSITION			METHOD			TRAN.	•
	Wasiilig voii		5	LATITUDE #)NO'I	LONGITUDE +		LOCATION	DATE			CHARTS
CHARTING		BIGNAL		" D. M. METERS		D. P. METERS	DATUM	BURVEY No.	LOCATION	OGRAH	MENTO	FFECTED
TANK elevated	Seattle, Kenworth Truck Conp. Water Tank, 1955 HT=144(150)	•	47 31	22,303 688,8	122 18	08.85g	N.A. 1927	Priang		XX	00	6442 6449 6460
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gation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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. This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navi-USCOMMEDC 27126



ORM **164** 4-23-54)

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

CONTROL RECORD

COAST AND GEODETIC SURVEY

SCALE FACTOR

FROM GA.D OF PROJECTION LINE, FROM GRID OR PROJECTION LINE
IN METERS
FORWARD
FORWARD
(BACK)
FORWARD
(BACK) COMM- DC- 57843 16 11,4990.5 100,6698.9 100,0430.8 99,7933.8 99,8017.0 99,8959.6 11,6877.5 99,4834.6 11,8377.6 12,0614.5 99,6695.9 11,9196,2 99,8448.4 11,8262.4 11,6520.2 100,0698.9 11,8676.5 4.7927.4 12,1513.1 11,9984.1 99,9717.9 11,3656.4 1.0 (BACK) N.A. 1927 - DATUM DATE. DATUM SCALE OF MAP 1:5,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (BACK) CHECKED BY:.. FORWARD LONGITUDE OR x-COORDINATE LATITUDE OR #-COORDINATE 195,531,46 1,637,871.42 191,727,78 186,443.79 194,188,66 1,634,996,69 196,823.89 1,637,163,73 1,638,710.09 188,632,33 1,642,540.52 641,563,19 193,999.64 1,639,953.97 ,641,123,34 194,678.91 1,631,943.24 1,637,027.26 191,141,67 1,637,016.77 199,332,17 PH-6712 197,858.04 DATE APril 1967 PROJECT NO. DATUM ZOMNOMER BY. J. C. Richter SOURCE OF pg.126 pg.399 pg.399 pg.399 336 c (BOEING) 1953pg.337 (BOEING) 1953pg.337 F (BOEING) 1953pg.331 og.399 (BOEING) 1953pg.337 (INDEX) TRUCK CORP.,
WATER TANK 1955pg.
SEATILE, BOEING SEATTLE, KENWORTH MAP T. 13153 FIELD RÓTATING AERO BN. 1963 NO. 20 (WSF) 1957 NO. 21 (WSF) 1957 1 FT = 3048006 METER STATION **PARK 1917** ABOE 1957 M8 1957 闰 А



TIDE CEPUTATION

PROJECT NO. Ph. 6712 T-13153

Time and date of exposure 12:16 7/26/66

Reference station __Seattle

Mean range $\frac{7\cdot6}{\mathrm{Diurnal}}$

Date of field inspection

Subordinate station _____

h. m. 13:24 6:12 7:12 Time Low tide Duration of rise or fall High tide

	-	Height	Height x Rati
		feet	of ranges
	High tide	0.6	
	Low tide	0.2	
· · · · · · · · · · · · · · · · · · ·	Range of tide	8.8	

약		Time
		Ę.
	High tide at Ref. Sta.	13:54
	Time difference	00:
	Corrected time at Subordinate station	13:24

Low tide at Ref. Sta. 6:12 Time difference :00 Corrected time at 6:12		Time
ia.		h. m.
9	Low tide at Ref. Sta.	6:12
	Time difference	00:
	Corrected time at Subordinate station	6:12

	ъ. Э.		feet		feet	Photo. No.
Time H. T. or L. T. Required time Interval	13:24 12:16 1:08	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0.08 0.4.	Feature bares Stage of tide above MLW Feature above MLW		66-8-3157A
Time H. T. or L. T. Required time Interval	13:24 12:21 1:03	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0.00	Feature bares Stage of tide above MLW Feature above MLW		66-s-3164A
Time H. T. or L. T. Required time Interval	13:24 12:36 0:48	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0000	Feature bares Stage of tide above MLW Feature above MLW		66-s-3188A
Time H. T. or L. T. Required time Interval	13:24 12:44 :40	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0.08 0.08	Feature bares Stage of tide above MLW Feature above MLW		66-s-3199A
Time H. T. or L. T. Required time Interval	13:24 12:46 :38	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0,0 0,0 0,0 0,0	Feature bares Stage of tide above MLW Feature above MLW		66-s-3208A
Time H. T. or L. T. Required time Interval	13:24 12:56 :28	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0.0	Feature bares Stage of tide above MLW Feature above MLW		66-8-3223A



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