

12057

only

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-12057

LOCALITY

State WASHINGTON

General locality ADMIRALTY INLET

Locality WALAN POINT

1960-1962

CHIEF OF PARTY

FRED NATELLA

LIBRARY & ARCHIVES

DATE May 1964

USCOMM-DC 5087

12057

DESCRIPTIVE REPORT - DATA RECORD
T - 12057

PROJECT NO. (II): PH-6101			
FIELD OFFICE (II): PORT TOWNSEND, WASHINGTON		CHIEF OF PARTY UNIT CHIEF	FRED NATELLA 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: 14 DECEMBER 1962 III			
METHOD OF COMPILATION (III): KELBN 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: XXX <i>Elevations shown as (25) refer to mean high water</i> <i>Elevations shown as (5) refer to sounding datum</i> <i>i.e., mean low water or mean lower low water</i>	
REFERENCE STATION (III): SKOW 2, 1941			
LAT.: 48° 05' 19.614"	LONG.: 122° 44' 02.580"	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED	
PLANE COORDINATES (IV): 402,890.56 x = 1,535,499.53		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): R. B. MELBY; L. L. RIGGERS		DATE: JULY 1962
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): JULY 1962 BY FIELD INSPECTION. COMPILATION BY KELSH INSTRUMENT.		
PROJECTION AND GRIDS RULED BY (IV): A.R.		DATE 12-17-62
PROJECTION AND GRIDS CHECKED BY (IV): F.E.B.		DATE 12-17-62
CONTROL PLOTTED BY (III): C. H. BISHOP		DATE 1-4-63
CONTROL CHECKED BY (III): R. H. MEYER		DATE 1-4-63
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): HENRY P. EICHERT		DATE DEC. 1962
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY C. H. BISHOP	DATE 1-11-63
	CONTOURS NONE	DATE
MANUSCRIPT DELINEATED BY (III): SMOOTH DRAFT: D. N. WILLIAMS		DATE 3-14-63
SCRIBING BY (III): STICK-UP: C. C. HARRIS		DATE 5-24-63
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): ROUGH DRAFT: J. L. HARRIS ADVANCE: J. L. HARRIS		DATE 3-7-63 5-27-63
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

C&GS SINGLE LENS "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 W 2028 THRU 2030	9-21-60	12:04	1:30,000	2.9' ABOVE M.L.L.W.
60 W 2029 AND 2030	"	12:04	1:10,000	2.9' ABOVE M.L.L.W.
60 W 1978 AND 1979	"	11:22	1:30,000	2.5' ABOVE M.L.L.W.
RATIO PRINTS OF ABOVE AT 1:10,000.				
				COMPUTED FROM PRE- DICTED TIDE TABLES.

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	DIURNAL SPRING RANGE
REFERENCE STATION: PORT TOWNSEND, WASHINGTON		5.1	8.3
COORDINATE STATION: MARROWSTONE POINT		5.6	8.8
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

DATE:

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 29

RECOVERED: 15

IDENTIFIED: 3

NUMBER OF BM(S) SEARCHED FOR (II): 7

RECOVERED: 7

IDENTIFIED: 1

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 1

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): 1

REMARKS:

FIELD INSPECTION REPORT

MAP MANUSCRIPTS

T-12057, T-12058, T-12064, T-12065,

T-12073

PROJECT PH-6101

JUNE - AUGUST 1962

2. AREAL FIELD INSPECTION:

THE SHORELINE IN THIS AREA IS COMMON TO THE EAST SHORE OF PUGET SOUND IN THE VICINITY OF THE CITY OF EDMONDS, WASHINGTON AND ADMIRALTY INLET IN THE VICINITY OF MARROWSTONE ISLAND, PORT TOWNSEND BAY AND OAK BAY.

THE CITY OF EDMONDS IS SERVED BY THE GREAT NORTHERN RAILWAY.

EDMONDS IS THE ONLY INCORPORATED CITY IN THE AREA.

FIELD INSPECTION WAS PERFORMED IN ACCORDANCE WITH STANDARD PROCEDURES.

THE QUALITY OF THE FIELD PRINTS WAS ADEQUATE FOR FIELD INSPECTION, SHORELINE INSPECTION AND IDENTIFICATION.

3. HORIZONTAL CONTROL:

(A) SUPPLEMENTAL CONTROL ESTABLISHED BY THE FIELD PARTY WERE STATIONS EDMONDS, BREAKWATER LIGHT; EDMONDS SMALL BOAT HARBOR, ENTRANCE LIGHT 1; AND EDMONDS, SMALL BOAT HARBOR, ENTRANCE LIGHT 2 (SHEET T-12073).

SINCE THE DATE OF PHOTOGRAPHY, A SMALL BOAT HARBOR HAS BEEN CONSTRUCTED AND THE NEWLY LOCATED STATIONS WERE USED FOR CONTROL FOR THE COMPILATION OF THIS NEW FEATURE.

OAK BAY LIGHT (SHEET T-12064) WAS LOCATED BY TRIANGULATION INTERSECTION METHODS IN 1961 BECAUSE OF ITS PERMANENT TYPE OF CONSTRUCTION AND IT WAS USED FOR PHOTO CONTROL.

THE POSITION OF STATION CRAVE, 1941 WAS REDETERMINED. THE POSITION OF THE STATION WAS PREVIOUSLY DETERMINED BY A NO-CHECK POSITION FROM AN INVERSE DISTANCE WITH AN ANGLE OF INTERSECTION OF 175°. THE POSITION WAS SUSPECTED DUE TO THE SLIM ANGLE OF INTERSECTION. A DIFFERENCE OF ABOUT 9 FEET WAS NOTED IN THE VALUE OF THE "Y" COORDINATE IN THE POSITION OF THE STATION AS REDETERMINED. THIS STATION WAS USED TO LOCATE A HYDROGRAPHIC SIGNAL.

THE POSITION OF NARROWS 2, 1962 WAS DETERMINED BY A SHORT TRAVERSE FROM NARROWS, 1934.

(B) NO DATUM ADJUSTMENTS WERE MADE BY THE FIELD PARTY.

(C) CONTROL ESTABLISHED BY OTHER AGENCIES WAS NOT SEARCHED FOR OR RECOVERED.

(D) ALL STATIONS REQUIRED BY THE PROJECT INSTRUCTIONS FOR CONTROL WERE RECOVERED OR ESTABLISHED AND POSITIVELY IDENTIFIED.

(E) ALL STATIONS ESTABLISHED BY THE COAST AND GEODETIC SURVEY WERE SEARCHED FOR.

THE FOLLOWING STATIONS WERE SEARCHED FOR AND HAVE BEEN LISTED AS LOST OR DESTROYED.

SHEET T-12057

PORT TOWNSEND, NAVY SUBMARINE NET, GREEN LIGHT, 1941	
GREEN, 1941	NAVY FRONT, 1941
KILISNOCK BAY ENTRANCE, TRANSFORMER TOWER, NORTH COLUMN, 1926	
CROW, 1941	DAY MARK, 1926

SHEET T-12058

NONE

SHEET T-12064

HADLOCK HIGH BUILDING, TANK, 1926	GAMIER, 1941
PORTAGE CANAL POWER POLE, 1941	YOUNG, 1941
PORTAGE CANAL, SOUTH ENTRANCE BEACON	
ALCOHOL PLANT TANK, 1915	
PORTAGE CANAL, NORTH ENTRANCE BEACON, 1941	
SOUTH REAR AUXILIARY, 1912	PIPE, 1941
PORT TOWNSEND CANAL, REAR RANGE LIGHT, 1926	
HADLOCK ELEVATOR SHAFT, 1926	

SHEET T-12065

OAK, 1934

MARROW, 1941

SHEET T-12973

MEADOWDALE, LARGE HALL, CHIMNEY ON WEST GABLE, 1921

(F) THE QUALITY OF IDENTIFICATION OF EACH STATION OR SUBSTITUTE STATION HAS BEEN INDICATED ON THE CONTROL STATION IDENTIFICATION CARD. NONE OF THE IDENTIFICATION WAS CONSIDERED SUBSTANDARD.

4. VERTICAL CONTROL:

VERTICAL CONTROL REQUIREMENTS ARE THE RECOVERY OF TIDAL BENCH MARKS. SIX TIDAL BENCH MARKS WERE SEARCHED FOR; 5 WERE RECOVERED; 1 WAS LOST.

5. CONTOURS AND DRAINAGE:

CONTOURS NOT APPLICABLE.

DRAINAGE IS COMMON TO ALL THE AREA. THE COURSES OF STREAMS HAVE BEEN INDICATED WHERE THEIR IMAGES ARE VISIBLE. IN SOME INSTANCES THE COURSES OF THE STREAMS ARE OBSCURED BY WOODLAND COVER. THE GENERAL PATTERN OF DRAINAGE CAN USUALLY BE DETERMINED BY THE LIGHTER, DECIDUOUS COVER THAT IS COMMON TO THE STREAM BEDS. MARSH AREAS HAVE BEEN INDICATED.

6. WOODLAND COVER:

MOST OF THE LAND THAT IS NOT UNDER CULTIVATION OR IN URBAN AREAS IS COVERED WITH A DENSE GROWTH OF MIXED TIMBER. WOODLAND COVER HAS BEEN CLASSIFIED ON THE FIELD PHOTOGRAPHS.

7. SHORELINE AND ALONGSHORE FEATURES:

THE SHORELINE AND ALONGSHORE FEATURES WERE INSPECTED FROM A SMALL BOAT OR BY WALKING THE BEACH.

(A) THE MEAN HIGH-WATER LINE HAS BEEN INDICATED ON THE FIELD PHOTOGRAPHS. ITS POSITION WAS DETERMINED BY VISUAL INSPECTION AND BY ITS RELATIVE POSITION TO IDENTIFIABLE SHORELINE FEATURES.

(B) THE LOW-WATER WAS NOT INDICATED ON THE FIELD PHOTOGRAPHS.

(C) THE CHARACTER OF THE FORESHORE HAS BEEN INDICATED ON THE FIELD PHOTOGRAPHS.

(D) BLUFFS ARE COMMON TO MOST OF THE SHORELINE, APPROXIMATE HEIGHTS OF THE BLUFFS HAVE BEEN INDICATED ON THE FIELD PHOTOGRAPHS.

(E) SEVERAL SMALL PIERS AND FLOATS ARE FOUND IN THE AREA. A PIER FOR LOADING AND UNLOADING NAVAL AMMUNITION AND A RAILROAD FERRY SLIP ARE FOUND ON THE WEST SHORE OF INDIAN ISLAND. A SMALL BOAT HARBOR HAS BEEN RECENTLY CONSTRUCTED AT EDMONDS (SHEET T-12073). SEVERAL MARINE RAILROADS AND AN AUTO-PASSENGER FERRY SLIP ARE FOUND AT EDMONDS.

(F) THE INSHORE ENDS OF SUBMARINE CABLES AND PIPELINES HAVE BEEN INDICATED ON THE FIELD PHOTOGRAPHS.

(G) OTHER SHORELINE FEATURES ARE BULKHEADS AND RAMPS FOR LAUNCHING SMALL BOATS.

8. OFFSHORE FEATURES:

OFFSHORE FEATURES IN THE FORM OF ROCKS OR PILES HAVE BEEN INDICATED ON THE FIELD PHOTOGRAPHS DURING THE SHORELINE INSPECTION. A SUNKEN WRECK HAS BEEN INDICATED ON PHOTOGRAPH 60 W 2030. LOCATION WAS BY A THEODOLITE FIX.

OFFSHORE ROCKS AND THEIR RESPECTIVE HEIGHTS HAVE BEEN INDICATED ON THE FIELD PHOTOGRAPHS. TIME OF DETERMINATION OF ROCK HEIGHTS IS BASED ON PACIFIC DAYLIGHT SAVING TIME.

9. LANDMARKS AND AIDS:

(A) THERE ARE NO CHARTED LANDMARKS IN THE AREA. ONE NEW LANDMARK WAS SELECTED.

(B) NO INTERIOR LANDMARKS WERE SELECTED.

(C) NO AERONAUTICAL AIDS WERE FOUND IN THE AREA.

(D) ALL FIXED AIDS TO NAVIGATION WERE INVESTIGATED AND HAVE BEEN LISTED ON FORM 567. THE NEWLY LOCATED LIGHTS AT THE EDMONDS BOAT BASIN ARE LISTED IN THE PUBLICATION "NOTICE TO MARINERS", DATED MAY 5, 1962, NO. 18, PAGE 1091.

(E) FLOATING AIDS ARE NOT APPLICABLE.

10. BOUNDARIES AND MONUMENTS:

BOUNDARIES AND MONUMENTS ARE NOT APPLICABLE. THE LIMIT LINES OF A CEMETERY AND OF EAST SHORE PARK (COUNTY) HAVE BEEN INDICATED ON THE FIELD PHOTOGRAPHS. THE FORMER FORT FLAGLER MILITARY RESERVATION IS NOW FORT FLAGLER STATE PARK. THE ENTIRE AREA OF INDIAN ISLAND IS A NAVAL RESERVATION.

11. OTHER CONTROL:

OTHER CONTROL ESTABLISHED BY THE FIELD PARTY WAS THE SELECTION OF NATURAL AND CULTURAL OBJECTS TO SERVE AS PHOTO-HYDRO STATIONS.

12. OTHER INTERIOR FEATURES:

ROADS, PUBLIC BUILDINGS AND BUILDINGS OF LANDMARK VALUE WERE INDICATED ON THE FIELD PHOTOGRAPHS AND CLASSIFIED.

THERE ARE NO AIRPORTS OR AIRFIELDS IN THE AREA. INDIAN ISLAND IS CONNECTED TO THE MAINLAND BY A FIXED SPAN HIGHWAY BRIDGE. AN OVERHEAD CABLE CROSSING OVER PORTAGE CANAL IS FOUND ABOUT 100 FEET SOUTH OF THE ABOVE MENTIONED BRIDGE.

13. GEOGRAPHIC NAMES:


GEOGRAPHIC NAMES WILL BE THE SUBJECT OF A SEPARATE, INFORMAL REPORT.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA:

A SPECIAL REPORT ON IDENTIFICATION OF HORIZONTAL CONTROL STATIONS ON MAP MANUSCRIPT T-12064 WAS SUBMITTED UNDER HEADING "NOTES TO COMPILER", 4 AUGUST 1961.

SUPPLEMENTAL DATA CONSISTS OF A PLAN OF THE PORT OF EDMONDS, SMALL BOAT HARBOR (SHEET T-12073).

APPROVED:


FRED NATELLA, CAPT, C&GS
PORTLAND DISTRICT OFFICER

RESPECTFULLY SUBMITTED:


ROBERT B. MELBY
SURVEYING TECHNICIAN

PHOTOGRAMMETRIC PLOT REPORT

MAP MANUSCRIPT T-12057

PROJECT PH-6101

REFER TO THE PHOTOGRAMMETRIC PLOT REPORT NO. 2 BY HENRY P.
EICHERT, DECEMBER 1962 AND INCLUDED WITH THE DESCRIPTIVE REPORT
FOR T-12050.

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

MAP T. 12057

PROJECT NO. PH-6101

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	WASH.N. SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y -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)
CLUMP 1943	P-309	N.A. 1927	404,550.92	4550.92	(449.08)		1387.12	(136.88)		
			1,535,741.48	741.48	(4258.52)		226.00	(1298.00)		
DOTSON 1941	P-308	"	400,787.66	787.66	(4212.34)		240.08	(1283.92)		
			1,504,590.92	590.92	(4409.08)		180.11	(1343.89)		
EAGLE 1941	P-309	"	398,137.94	3137.94	(1862.06)		956.44	(567.56)		
			1,541,801.05	1801.05	(3198.95)		548.96	(975.04)		
FLAG (HYDROGRAPHIC) 1942	P-308	"	404,587	4587.00	(413)		1398.12	(125.88)		
			1,545,940	940.00	(4060)		286.51	(1237.49)		
INDIAN (USE) 1920	P-309	"	400,101.25	101.25	(4898.75)		30.86	(1493.14)		
			1,534,770.02	4770.02	(228.98)		1453.90	(70.10)		
NAVY REAR 1941	"	"	400,998.16	998.16	(4001.84)		304.24	(1219.76)		
			1,540,920.02	920.02	(4078.98)		280.42	(1243.58)		
POINT HUDSON LIGHT 1926	P-310	"	413,402.17	3402.17	(1597.83)		1036.98	(487.02)		
			1,532,378.48	2378.48	(2621.52)		724.96	(799.04)		
RAWLINS (USE) 1920	P-269	"	407,410.68	2410.68	(2589.32)		734.78	(789.22)		
			1,546,041.58	1041.58	(3958.42)		317.47	(1206.53)		
ROCK 1941	P-308	"	400,083.98	83.98	(4916.02)		25.60	(1498.40)		
			1,537,467.02	2467.02	(2532.98)		751.95	(722.05)		
SKOW (USE) 1920	P-309	"	402,984.91	2884.91	(2015.99)		909.80	(614.20)		14
			1,535,594.22	594.22	(4405.78)		181.12	(1342.88)		
SKOW 2 1941	P-308	"	402,890.56	2890.56	(2109.44)		881.04	(642.96)		
			1,535,499.53	499.53	(4500.47)		152.26	(1371.74)		
TREE 1941	P-309	"	401,991	1991.00	(3009)		606.86	(917.14)		
			1,540,495	495.00	(4505)		150.88	(1373.12)		

1 FT. = 3048006 METER

COMPUTED BY: D.N.W.

DATE 1-3-63

CHECKED BY: R.H.M.

DATE 1-3-63

COMM-DC-57843

COMPILATION REPORT
MAP MANUSCRIPT T-12057
PROJECT PH-6101

ITEMS 31 THRU 33:

REFER TO THE COMPILATION REPORT FOR T-12065.

34. CONTOURS AND DRAINAGE:

CONTOURS ARE NOT APPLICABLE.

DRAINAGE WAS COMPILED AS FIELD INSPECTED.

35. SHORELINE AND ALONGSHORE DETAILS:

THE MEAN HIGH-WATER LINE WAS SPOT LOCATED BY THE FIELD PARTY AND REFINED BY THE KELSH OPERATOR DURING COMPILATION. THE CHARACTER OF THE FORESHORE AREA WAS INDICATED ON THE FIELD PHOTOGRAPHS AND WAS DELINEATED BY SYMBOL OR LABEL. THE SHALLOW LINE SHOWN WAS DETERMINED BY INSPECTION OF THE PHOTOGRAPHY TAKEN AT A PREDICTED TIDE OF 2.9 FEET ABOVE M.L.L.W. LOCATIONS AND ELEVATIONS OF ROCKS SHOWN WERE OBTAINED FROM DATA FURNISHED BY THE FIELD PARTY; THE HEIGHTS BEING ADJUSTED TO THE MANUSCRIPT DATUM. TWO WRECKS ARE SHOWN. ONE WAS COMPILED AS IDENTIFIED BY THE FIELD PARTY; THE OTHER WAS LOCATED BY SEXTANT FIX.

36. OFFSHORE DETAILS:

NONE.

37. LANDMARKS AND AIDS:

TWO FIXED AIDS TO NAVIGATION ARE SHOWN ON THIS MAP MANUSCRIPT. ONE IS A TRIANGULATION INTERSECTION STATION. THE SECOND AID, WALAN POINT LIGHT, WAS DOUBTFULLY LOCATED DURING THE AERO TRIANGULATION CONTROL EXTENSION. UPON RECEIPT OF THE FIELD INSPECTION PHOTOGRAPHY, THE PHOTOGRAMMETRIC OFFICE WAS ABLE TO LOCATE THIS LIGHT DURING KELSH INSTRUMENT COMPILATION. FORM 567 IS SUBMITTED.

38. CONTROL FOR FUTURE SURVEYS:

ONE PHOTO-HYDRO STATION WAS IDENTIFIED BY THE FIELD PARTY AND LOCATED BY KELSH INSTRUMENT DURING COMPILATION. ITS NUMBER AND DESCRIPTION IS LISTED IN PARAGRAPH 49.

39. JUNCTIONS:

SATISFACTORY JUNCTIONS WERE MADE WITH T-12058 TO THE EAST; WITH T-12064 TO THE SOUTH; WITH T-12056 TO THE WEST AND WITH T-11611 TO THE NORTH.

40. HORIZONTAL AND VERTICAL ACCURACY:

46. COMPARISON WITH EXISTING MAPS:

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

47. COMPARISON WITH NAUTICAL CHARTS:

COMPARISON WAS MADE WITH NAUTICAL CHART 6405, SCALE 1:20,000, 8TH EDITION, JULY 1, 1944, REVISED 2/12/62.


ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

NONE.

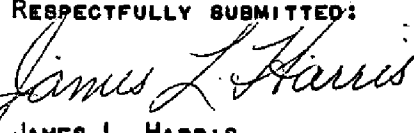
ITEMS TO BE CARRIED FORWARD:

NONE.

APPROVED:


FRED NATELLA, CAPT, C&GS
PORTLAND DISTRICT OFFICER

RESPECTFULLY SUBMITTED:


JAMES L. HARRIS
CARTOGRAPHER

49. NOTES FOR THE HYDROGRAPHER:

THE PHOTO-HYDRO STATION BELOW IS SHOWN ON THIS MANUSCRIPT.
IT WAS IDENTIFIED BY THE FIELD PARTY AND LOCATED BY THE KELSCH
OPERATOR DURING COMPILATION.

NO.	DESCRIPTION	FIELD PHOTO NO.
5701	SE CORNER OF PIER	60 W 2029

PHOTOGRAMMETRIC OFFICE REVIEW

T-12053 12057

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 REPORT ✓	11. DETAIL POINTS None
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE ✓	13. LOW-WATER LINE None	14. ROCKS, SHOALS, ETC. ✓	15. BRIDGES None
16. AIDS TO NAVIGATION ✓	17. LANDMARKS None	18. OTHER ALONGSHORE PHYSICAL FEATURES ✓	19. OTHER ALONGSHORE CULTURAL FEATURES ✓
PHYSICAL FEATURES			
20. WATER FEATURES ✓		21. NATURAL GROUND COVER ✓	22. PLANETABLE CONTOURS Not Applicable
23. STEREOSCOPIC INSTRUMENT CONTOURS Not Applicable	24. CONTOURS IN GENERAL Not Applicable	25. SPOT ELEVATIONS None	26. OTHER PHYSICAL FEATURES ✓
CULTURAL FEATURES			
27. ROADS ✓	28. BUILDINGS ✓	29. RAILROADS None	30. OTHER CULTURAL FEATURES ✓
BOUNDARIES			
31. BOUNDARY LINES None		32. PUBLIC LAND LINES None	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES ✓		34. JUNCTIONS ✓	35. LEGIBILITY OF THE MANUSCRIPT ✓
36. DISCREPANCY OVERLAY None	37. DESCRIPTIVE REPORT ✓	38. FIELD INSPECTION PHOTOGRAPHS ✓	39. FORMS ✓
40. REVIEWER James L. Harris		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			

COMPILATION RECORD

COMPLETION DATE

REMARKS

<i>Interior details added Compilation complete</i>	<i>5/24/63</i>	

48. Geographic Names List

Admiralty Inlet

Bugge Spit

Fort Flagler State Park

Indian Island

Kilisut Harbor

Marrowstone Island

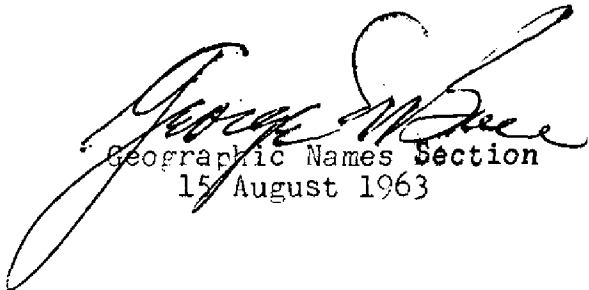
Midchannel Bank

Point Hudson

Port Townsend (bay)

Port Townsend (settlement)

Walan Point


Geographic Names Section
15 August 1963

Review Report
Shoreline Surveys
T-12056 through T-12061
October 1963

61. General Statement

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

62. Comparison with Registered Topographic Surveys

T-6884 a&b &	1:10,000 & 1:5,000	1941
T-6885 a&b	1:10,000 & 1:5,000	1941
T-1255	1:10,000	1871
T-4191	1:10,000	1926

There are cultural and shoreline differences due to time interval. These maps are to supersede the above surveys for common areas for nautical charting.

63. Comparison with Maps of Other Agencies

Sequin	1:24,000	1956
Gardiner	1:24,000	1953
Port Townsend (South)	1:24,000	1953
Nordland	1:24,000	1953

There are minor cultural and shoreline differences, due to the difference in time intervals.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

6403	1:40,000	Revised to July 1963
6405	1:20,000	Revised to Feb. 1962

Differences exist. However, there are no items to be applied immediately.

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. Lander
Chief, Photogrammetric Branch

J. E. Weyler 12/16/62
Chief, Photogrammetry Division

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-12057

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	REMARKS
184-SC (18423)	12-28-64	A.J. Hoffman	Full Part Before After Verification Review Inspection Signed Via Drawing No. thru 6405 #14
6300 (18400)	8-16-65	G.R. Johnson	Full Part Before After Verification Review Inspection Signed Via Drawing No.
18441	4/25/80	R.A. Lillis 5-30-80-RCS	Full Part Before After Verification Review Inspection Signed Via Drawing No. 49
18464	4/25/80	R.A. Lillis 12-15-80 RCS	Full Part Before After Verification Review Inspection Signed Via Drawing No. 22
18423	1/06/81 3-2-81	M.C. Larson PAB	Full Part Before After Verification Review Inspection Signed Via Drawing No. 21
18440	3/10/81 8-10-81	D.C. Larson PAB	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.

SKOW 2 (continued)

10-inch concrete monument. Disk is stamped "SKOW 2 1941." Mark projects 2 inches above the surface. No underground mark was set. Reference mark 1 is a bronze reference disk set in top of a square 6- by 6-inch concrete monument. Disk is stamped "SKOW 2 1941 NO 1." It is NE of station, projects 2 inches, and is 16 feet inshore from W shoreline.

Reference mark 2 is a bronze reference disk set in top of an 8- by 6-inch concrete monument. Disk is stamped "SKOW 2 1941 NO 2." It is ESE of station, flush, and is approximately 22 meters inshore from the W shoreline of spit.

OBJECT	DISTANCE meters	DIRECTION 0°00'00"0
SCOWALAN		
Iron pipe (SKOW (U.S.E.)		
R.M. 1	52.242	183 19 22
R.M. 2	16.965	194 36 51
SKOW (U.S.E.)	40.756	207 02 08
R.M. 2	15.457	295 43 42

Height of light above station mark - 1-1/2 meters.
Height of instrument above station mark - 1-1/2 meters.

(G.P., 1943)--On the E shore of Port Townsend Bay, on a low-lying sand spit which extends from the NW corner of Marrowstone Island across the N end of Killisut Harbor in a SW direction. It is about 500 meters N of the S end of the spit and 40.756 meters from SKOW (U.S.E.) 1921.

Station is marked with a bronze disk set in top of an 8-inch square concrete post. It was established in 1941 by R.R.M. The disk is stamped "SKOW 2 1941." An observing stand and a large slatted tripod are built over the station and are in good repair.

CLUMP (Jefferson County, Wash., G.P., 1943)--On the SE side of Port Townsend Bay, about 0.1 mile off the shoreline of the narrow sand spit which extends across the N end of Marrowstone Harbor. It is a square slatted structure set about 25 feet above the water on wooden derrick which is secured to piling driven in two fathoms of water.

Station was located by intersection. A short vertical pole which projects from the center of its top was pointed at.

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NAVY EAST (Jefferson County, Wash., R.R.M., 1941)--On the E shore of Port Townsend Bay, midway between the N and the S ends of a narrow sand spit at the NW end of Killisut Harbor. It is just E of an electric transmission line and near the third pole N of a transformer. About midway between the mean high water lines of Port Townsend Bay and Killisut Harbor. It is 8.64 meters S of a power-line pole and 32.10 meters NE of a power-line pole. Station mark is a bronze station disk set in top of a concrete post.

OBJECT	DIRECTION 0°00'00"0
RAIL	
KILLISUT 2	124 55 02.7
SCOWALAN	273 41 42.4

Height of light above station mark - 1-1/2 meters.
Height of instrument above station mark - 1-1/2 meters.

(L.D.G., 1941)--Station was recovered as described in good condition. The original description adequately covers this station except that the transmission line and transformer have been removed. The power poles still remain.

(G.P., 1943)--On the E side of Port Townsend Bay, midway between the N and S ends of a narrow sand spit, at the NW end of Killisut Harbor. The station is slightly E of a transmission line and near the third pole N of a transformer. The mark is set near the middle of the sand spit. Mark is a bronze disk set in top of an 8-inch square concrete post which projects 6 inches above the surface of the sand.

The mark is in good condition but may at some later date be covered by the large amount of driftwood which covers the spit. The mark is stamped "NAVY EAST 1941."

NAVY FRONT (Jefferson County, Wash., R.R.M., 1941)--Station is the front range of the proposed submarine net for Port Townsend Bay. It is located on the E shore of Port Townsend Bay, on the narrow sand spit extending SW from the NW corner of Marrowstone Island, about 75 meters SW of the mouth of a lagoon at the NW corner of Marrowstone Island, and 7 meters inshore from the W shoreline of the spit. It is about 1 meter E of the third power pole S of the lagoon entrance.

Station mark is a bronze station disk set in top of a 10- by 10-inch concrete monument. Disk is stamped "NAVY FRONT 1941." It projects 1 foot above surrounding surface. No underground or reference marks were set. Located by intersection. Height of light above station mark - 4 meters.

FOOT (Jefferson County, Wash., R.R.M., 1941)--Located on Marrowstone Island, off NE shore of Killisut Harbor, about 375 yards SE of narrow sand spit making to the S from the NW corner of Marrowstone Island, on low ground, elevation about 2 feet above mean high water, and at the foot of a 100-foot bluff near where the bluff changes from a SW to a SE direction. Station is 4.5 meters N of the high-water line and about 7 meters W of the bluff.

Station mark is a bronze station disk set in top of a 5- by 5-inch concrete monument projecting 8 inches above surface. Disk is stamped "FOOT 1941." No underground mark was set.

Reference mark 1 is a bronze reference disk set in top of a 5- by 5-inch concrete monument. It is NW of station, on steep slope, near foot of bluff. Projects 1 foot above surface.

Reference mark 2 is a bronze reference disk set in top of a 5- by 5-inch concrete monument. It is E of station, about 5 meters inshore from high-water line, and projects 6 inches above surface.

OBJECT	DISTANCE meters	DIRECTION 0°00'00"0
DOTSON		
R.M. 1	18.787	237 07 05
R.M. 2	10.890	297 04 33

Height of light above station mark - 2 meters.
Height of instrument above station mark - 1-1/2 meters.

GREEN (Jefferson County, Wash., R.R.M., 1941)--A main scheme intersection station. Station is about 430 meters offshore from sandpit extending in a SW direction from the NW side of Marrowstone Island. The center of light flashing green and supported by a group of piling. Structure is at the W end of a row of piling extending into the bay from the spit. The row of piling is about in line with the N and E shores of Killisut Harbor extended. The light is the E terminal of proposed submarine net which is to be placed across the mouth of Port Townsend Bay.

(G.P., 1942)--Destroyed. Apparently torn down to make way for the submarine net extending across Port Townsend.

KILLISUT 2 (Jefferson County, Wash., W.H.S., 1908; R.W.E., 1940) (Previous description is on page 6)--The original description is not on hand. In the general vicinity of the station we found an 8-foot observing stand and pole target, below the target, on the surface of the ground, was a ring of medium-sized stones. About 1 foot below the surface of the ground we found a 20-pound boulder with a pronounced high point that was centered exactly below the center of the pole target. We dug to a depth of 4-1/2 feet and found no other mark. The station was remarked with surface, underground, and two reference marks. A new description follows.

Station is about 2 miles SE of Port Townsend, at the NE corner of Marrowstone Island, 0.7 mile W of the remains of Fort Flagler dock, about 0.2 mile NE of Killisut Harbor, at the NE end of a lagoon, at the foot of a tree-covered steep slope, and 36 feet SE from and 3 feet above mean high-water line. It is 18 feet SE of the grass line.

Surface and underground marks are bronze station disks set in concrete. Underground mark is 4 feet below surface of the ground and is stamped "KILLISUT 2 1940." Surface mark projects 4 inches above ground and is stamped "KILLISUT 2 1940."

Reference marks are bronze reference disks set in concrete and they project 4 inches above the ground. Reference mark 1 is NE of the station and is stamped "KILLISUT 2 NO 1 1940." Reference mark 2 is SW of the station and is stamped "KILLISUT 2 NO 2."

Witness tree 1 is a blazed 10-inch fir tree S of the station. Witness tree 2 is a blazed 10-inch fir tree SW of the station.

OBJECT	DISTANCE meters	DIRECTION 0°00'00"0
INDIAN (U.S.E.)		
SCOWALAN		
No trespass sign	29.7	0 27 11.4
R.M. 2	11.007	24 02 56
R.M. 1	8.198	150 43 20
Witness tree 1	5.2	329
Witness tree 2	19.1	355

(L.D.G., 1941)--Original description was not available. The 1940 recovery note does not mention remarking the center or installation of permanent R.M. 2. It is not known by this party that a R.M. 1 existed and none was found. A heavy growth made the search difficult. A revised description is as follows.

Station is approximately 2 miles SE of Port Townsend, on the NW shore of Marrowstone Island, about 0.2 mile NE of Killisut Harbor, and 0.7 mile W of remains of old Fort Flagler dock. It is on the NE end of a lagoon, at the foot of a tree-covered hill, 36 feet SE of low-water line, 18 feet SE of grass line, about 3 feet above mean high water, 98 feet E of power pole bearing "No trespassing" sign, 16.9 feet N of witness tree 1 (a blazed 10-inch fir), and 62.8 feet NE of witness tree 2 (a blazed 10-inch fir). Station mark is a bronze station disk set in top of a 5- by 5-inch concrete monument projecting 1 inch above the surface. The disk is stamped "KILLISUT 2 1908-1940."

Reference mark 2 is a bronze reference disk set in top of a 6- by 6-inch concrete monument projecting 3 inches above the surface and lying S of the station.

OBJECT	DISTANCE meters	DIRECTION 0°00'00"0
SCOWALAN		
R.M. 2	11.006	36.109

(G.P., 1942-3)--Station was recovered and found to be in good condition. The description of 1940 is adequate. The 8-foot stand is still centered over the mark and is in good condition.

Reference mark 2 was recovered in good condition as were the witness marks.

Reference mark 1 is destroyed. The block of concrete with the disk in its end was recovered and is lying on the beach between high and low water.

PORT TOWNSEND SOUTHWEST BASE (Jefferson County, Wash., G.D., 1856; R.R.M., 1941) (Previous description is on page 4)--Station recovered by means of measurements from nearby station. Pieces of the 1908 tile were found and upon digging the 1856 mark was found. The station was remarked using the 1856 mark as the subsurface mark. New description follows.

Subsurface mark is a boulder with copper bolt about 30 inches below the surface of the ground. Surface mark is a bronze disk stamped "SW BASE 1856-1941." It is set in top of concrete post 11 inches square and projecting about 6 inches above the ground.

To reach station, land in cove just S of paper mill, or drive by car to same cove, walk W about 400 feet to edge of marshy lake formed by paper mill emptying waste water, turn and walk S about 400 feet or about 200 feet S of N tip of brush. Station is about 6 feet E of W brush line and about 15 feet E of E bank of the marshy pond.

YELLOW FLAG (Jefferson County, Wash., R.R.M., 1941)--On the W shore of Port Townsend Bay. A yellow flag nailed on the offshore end of pier about 700 meters S of the mill of National Paper Products Company.

Located for convenience of the topographer. Not marked and not recoverable.

PULP (Jefferson County, Wash., R.R.M., 1941)--A center pole. Located by intersection near the mill of the National Paper Products (continued on page 13)

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INDIAN (U.S.E.) (Jefferson County, Wash., U.S.E., 1920; R.W.K., 1940) (Previous description is on page 5)--On Indian Island, between Port Townsend and Killisut Harbor, about 1 mile SW of the N tip of the island, about 1/2 mile W of an Indian village at entrance to Killisut Harbor, on the top of a 130-foot bluff, and about 3 meters SE of the top.

Station is marked by a brass plug set in the center of a concrete post projecting about 4 inches above the ground.

Witness trees 1, 2, and 3 are, respectively, a 10-inch dead tree, a blazed 6-inch cedar, and a blazed 12-inch second growth fir.

SOOMALAN is 86.17 meters (from U.S.E. records) in azimuth 53°43'04".

OBJECT	DISTANCE meters	DIRECTION 0°00'00"0
KILLISUT 2		
Witness tree 1	2.6	71
Witness tree 2	2.9	104
Witness tree 3	2.2	180

(R.R.M., 1941)--This station was recovered as described in 1940 and found to be in good condition. The 1940 description was checked and found to be accurate except in the measurement of the distance from the bluff edge to the station. Recent slides have diminished the distance until it is now about 1 meter.

GUPPY (Jefferson County, Wash., R.R.M., 1941)--Located on the E shore of Killisut Harbor and the E shore of Mystery Bay. It is on prominent point formed by the junction of Mystery Bay with Killisut Harbor. Station is on the property of John P. Heinzer, about 100 meters N of the most S extremity of the point, 1.5 meters E of a wooden fence, 2.85 meters E of bank edge, and 25.6 meters N of point where above fence curves to E. Elevation about 7 feet above mean high water.

Station mark is a bronze station disk set in top of a 6- by 6-inch concrete monument flush with the surface. Disk is stamped "GUPPY 1941."

No underground or reference marks were set.

OBJECT	DIRECTION 0°00'00"0
CROW	
EAGLE	28 45 17

Height of light above station mark - 2 meters.
Height of instrument above station mark - 1-1/2 meters.

CROW (Jefferson County, Wash., R.R.M., 1941)--Located on the W shore of Killisut Harbor, on prominent point, about 1 mile NW of mouth of Mystery Bay, and 1.4 miles S of the N end of Killisut Harbor. It is on gravel spit, about 100 meters N of junction of gravel spit with Indian Island, 1-1/2 meters inshore from high-water line, and 14.5 meters E of tree line. Elevation about 1-1/2 feet above mean high water. The gravel spit is separated from firm land by a driftwood, water filled slough.

Station is marked by a bronze station disk set in top of a 6- by 6-inch concrete monument projecting 6 inches above the surface. No underground mark was set.

Reference mark 1 is a bronze disk set in top of a 6-inch iron pipe filled with concrete. Disk is stamped "CROW 1941 NO 1." It is W of the station, on solid ground, 1 meter inshore from tree line. Projects 8 inches above the surface.

OBJECT	DISTANCE meters	DIRECTION 0°00'00"0
ROCK		
R.M. 1	14.606	272 14 14

Height of light above station mark - 2 meters.
Height of instrument above station mark - 1-1/2 meters.

EAGLE (Jefferson County, Wash., R.R.M., 1941)--Located on the E shore of Killisut Harbor, about 1.1 miles N of Mystery Bay, and 1.25 miles S of the N end of Killisut Harbor. It is on top of bluff, in an area comparatively free of underbrush. Elevation about 22-1/2 feet above mean high water.

Station mark is a bronze station disk set in top of a 6- by 6-inch concrete monument. Disk is stamped "EAGLE 1941." It is 2-1/2 meters E of bluff edge and projects 5 inches above the surface. A path paralleling the bluff edge lies just W of the station.

No underground or reference marks were established.

OBJECT	DIRECTION 0°00'00"0
ROCK	
DOYSON	41 16 23
CROW	291 24 02

Height of light above station mark - 2 meters.
Height of instrument above station mark - 1-1/2 meters.

ROCK (Jefferson County, Wash., R.R.M., 1941)--Located on W shore of Killisut Harbor, about 1/2 mile S of the most N point of Indian Island.

Station mark is a bronze station disk cemented in drill hole in top of a very large boulder. Disk is stamped "ROCK 1941." Boulder is approximately 20 feet diameter, 15 feet in elevation above mean high water, and on the high-water line about 11 meters E of bluff on Indian Island. Station mark is 1.5 meters from E side of boulder and 2.5 meters from N end of boulder.

No underground or reference marks were established.

OBJECT	DIRECTION 0°00'00"0
EAGLE	
FRENCH 2	249 33 53

DOYSON (Jefferson County, Wash., R.R.M., 1941)--Located on E shore of Killisut Harbor, on low lying spit, elevation about 3 feet above mean high water, about 0.85 mile S of the N end of Killisut Harbor, and 1.6 miles N of mouth of Mystery Bay, on property of Charles Dotson. Station is about 24 meters inshore from the W shoreline of spit.

Station mark is a bronze station disk set in a 12- by 12-

inch concrete monument projecting 2 inches above the surface. The disk is stamped "DOYSON 1941." No underground mark was set.

Reference mark 1 is a bronze reference disk set in a 12- by 12-inch concrete monument projecting 3 inches. Disk is stamped "DOYSON NO 1 1941." It is NW of station and about 16 meters inshore from W shoreline of spit.

Reference mark 2 is a bronze reference disk set in a 12- by 12-inch concrete monument projecting 3 inches. Disk is stamped "DOYSON 1941 NO 2." It is ENE of the station and is about 32 meters inshore from the W shoreline of spit.

OBJECT	DISTANCE meters	DIRECTION 0°00'00"0
FRENCH 2		
R.M. 1	10.723	13 42 08
R.M. 2	8.857	129 02 41
NAVY REAR	119.080	152 17 06

Height of light above station mark - 2 meters.
Height of instrument above station mark - 1-1/2 meters.

NAVY REAR (Jefferson County, Wash., R.R.M., 1941)--Located on the E shore of Killisut Harbor, about 0.8 mile S of the N end of Killisut Harbor, and 1.6 miles N of the mouth of Mystery Bay, on property of Charles Dotson. Station is 3.2 meters inshore from bluff edge, elevation about 20 feet above mean high water, and is 35 meters S of a shed used as a garage by Charles Dotson. The N tangent of tree line, Indian Island, and a SE stack at National Paper Products mill are almost in range with the station. The courthouse steeple at Port Townsend and the mouth of a small tidal slough just below the station at foot of bluff are in range with the station.

Station mark is a bronze station disk set in top of a 5-inch circular concrete monument projecting 4 inches. Disk is stamped "NAVY REAR 1941." An 18-inch rounded concrete patty is 1-1/2 feet E of the station. The patty has the inscription "NAVY REAR 1941" and an arrow pointing to the station.

No underground mark or reference marks were set.

OBJECT	DISTANCE meters	DIRECTION 0°00'00"0
RAIL		
NAVY FRONT		
DOYSON	119.080	24 52 28

Height of light above station mark - 4 meters.
Height of instrument above station mark - 1-1/2 meters.

FRENCH (Jefferson County, Wash., J.S.L., 1871; R.R.M., 1941) (Previous description is on page 6)--Station lost. Mark found on ground out of place.

FRENCH 2 (Jefferson County, Wash., R.R.M., 1941)--Located on the most N point of Indian Island, about 0.45 mile E of entrance to Killisut Harbor, on top of an 18-foot (approx. elev.) bank. Station is 9 meters SW of point or tip of bank, 4 meters SE of the NW face of bank edge, and 4 meters NW of the SE face of bank edge.

Station mark is a bronze station disk set in top of a 10- by 10-inch concrete monument projecting 3 inches above the surface. No underground mark was set. Station mark stamped "FRENCH 2 1941."

Reference mark 1 is a bronze reference disk set in top of a 10- by 10-inch concrete monument. Disk is stamped "FRENCH 2 1941 NO 1." It is W of station, projects 3 inches, and is approximately 3 meters inside the NW face of the bank.

Reference mark 2 is a bronze reference disk set in top of a 10- by 10-inch concrete monument. Disk is stamped "FRENCH 2 1941 NO 2." It is S of station, projects 4 inches, and is 2 meters inside the SE face of bank.

OBJECT	DISTANCE meters	DIRECTION 0°00'00"0
SKOW 2		
R.M. 2	5.989	259 58 35
R.M. 1	3.420	336 25 27

Height of light above station mark - 1-1/2 meters.
Height of instrument above station mark - 1-1/2 meters.

SKOW (U.S.E.) (Jefferson County, Wash., U.S.E., 1920; R.W.K., 1940) (Previous description is on page 6)--Searched for the station 30 minutes. Signal has blown over and is lying on the ground. We found the cedar witness post still standing but badly rotted. We found the reference mark that was established by H.A.C. 1926, but were unable to find the station. It is probably covered with sand.

(R.R.M., 1941)--Station was recovered in good condition. The original description was not furnished and the 1926 recovery note is not complete. A new description follows.

Station is on E shore of Port Townsend Bay, on a low lying sand spit which extends from the NW corner of Marrowstone Island across the N end of Killisut Harbor in a SW direction. It is approximately 500 meters N of the S end of the spit and 25 meters E of the W shore of the spit.

Station is marked with a 4- by 4-inch precast concrete monument. A brass screw with cross cut in head marks the center. A galvanized-iron bolt is in the N corner of the monument. Mark is flush with the surface.

Reference mark is a 6-inch galvanized iron pipe filled with concrete, projects 4 feet above the surface. Top of pipe contains a screw cap covering a light switch. Pipe is 11 meters inshore from the W shoreline of spit and is the most S of three. Located by traverse from SKOW 2, 1941.

OBJECT	DISTANCE meters	DIRECTION 0°00'00"0
SKOW 2	40.756	
R.M. (iron pipe)	22.162	108 36 43

SKOW 2 (Jefferson County, Wash., R.R.M., 1941)--On E shore of Port Townsend Bay, on low lying sandpit extending from NW corner of Marrowstone Island across the N end of Killisut Harbor in a SW direction, approximately 460 meters N of the S end of spit, and 11 meters inshore from the shoreline of the spit.

Station mark is a bronze station disk set in top of a 10- by (continued on page 12)