8676
8677

Diag'd. on diag. ch. No. 6146

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Air Photographs

Field No. T-8676 and / Office No. T-8677 /

Date of Photos - July & Nov. 1946

LOCALITY

Horiz. Accy. Test.

State Washington

General locality Clark County, Washington

Locality Columbia River East of Vancouver, Washington

1946

CHIEF OF PARTY

R. A. Earle

LIBRARY & ARCHIVES

DATE Dec. 11, 1947

8-1870-1 (1)

8676
8677

Form T-1

DATA RECORD

T- 8676

Quadrangle (II): WEST MILL PLAIN, WASH. (3 minute) **Project No. (II):** C.S. 322

Field Office: Portland, Oregon **Chief of Party:** R.A. Earle

Compilation Office: Portland, Ore. **Chief of Party:** R.A. Earle

Instructions dated (II III): July 12, 1945
Supplemental Instructions: Aug.29, Sept.10, Oct. 25, Nov. 30 and Dec. 6, 1945.

Copy filed in ~~Descriptive Report No. T-~~ (VI)
Division of Photogrammetry files

Completed survey received in office: 3 April, 1946

Reported to Nautical Chart Section: ✓

Reviewed: 13 Nov. 1946 **Applied to chart No.** **Date:**

Redrafting Completed: 27 Nov. 1947

Registered: ~~24 July, 1947~~ 11/47 **Published:** 1947

Compilation Scale: 1:8000 **Published Scale:** 1:9600

Scale Factor (III): None

Geographic Datum (III): N.A. 1927 **Datum Plane (III):** * See below

Reference Station (III): LEISER (U.S.E.) WASH., 1938 r 1945

Lat.: 45°36'25.393" (784.0 m) **Long.:** 122°35'23.151" (501.7 m) **Adjusted** X **Unadjusted**

State Plane Coordinates (VI): Oregon, North Zone
Washington, South Zone

X = **Y =**

Military Grid Zone (VI)

* (M.H.W.=6.29 ft. above Mean Sea Level) (M.L.W.=1.29 ft. above Mean Sea Level) All elevations are on the Standard 1929 general adjustment of leveling in the U.S.A.

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
762 to 763 Inc.	7-1-45	12:20	(1-17,000 contact) (1- 8,000 ratio)	11.7 ft. above M.L.W. *
1130 to 1133 Inc.	7-2-45	10:20	" "	11.0 ft. above M.L.W.
1236 to 1238 Inc.	7-2-45	12:00	" "	11.0 ft. above M.L.W.
3602 to 3604 Inc.	11-21-45	14:45	" "	4.9 ft. above M.L.W.

Tide from (III): Daily readings of the U.S. Engineer tide guage located at Government Moorings on the west shore of the Willamette River just south of St. Johns Bridge. The 0±00 of the guage is M.L.W., Columbia River, which is 1.29 ft. above Mean Sea Level.

Mean Range: **Spring Range:**

Camera: (Kind or source) K 17, 12 inch focal length

Field Inspection by: See Remarks, page 3 **date:**

Field Edit by: F.H. Elrod, Prin. Photo. Aid **date:** July, 1946

Date of Mean High-Water Line Location (III): Nov. 21, 1945

Note: According to supplemental instructions dated Sept. 10, 1945, a high-water line of 5.0 ft. above Mean Low Water is to be shown on the Map Manuscripts. Photographs were taken on Nov. 21, 1945, when the water was at 4.9 ft. above M.L.W.

Projection and Grids ruled by (III) Washington Office **date:** Oct. 1945

" " " **checked by:** Washington Office **date:** Oct. 1945

Control plotted by: Eda H. Bunce **date:** Nov. 1945

Control checked by: Carita C. Wiebe **date:** Nov. 1945

Radial Plot by: James L. Harris and Ree H. Barron **date:** Nov. 29, 1945

Detailed by: Carita C. Wiebe **date:** March 19, 1946

Reviewed in compilation office by: Ree H. Barron **date:** March 21, 1946

Corrections and changes after field edit by: Marie B. Elrod Date: July 25, 1946

Review after changes due to field edit by: Ree H. Barron date: Aug. 2, 1946

Elevations on Field Edit Sheet checked by: C. Hanavich, Photo Engr. **date:** July 1946

STATISTICS (III)

Land Area (Sq. Statute Miles): 4.7

Shoreline (More than 200 meters to opposite shore): 2.5 statute miles

Shoreline (Less than 200 meters to opposite shore): None

Number of Recoverable Topographic Stations established: 2 fixed aids to navigation.

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles:

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

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

Remarks:

Field Inspection By: J.H. Winniford, Photo Aid (C.ofC.) Date: Dec. 1945

Shoreline Inspection By: J.C. Lajoye, Prin. Photo. Aid Date: Feb. 1946

Recovery of Horizontal Control By: J.C. Lajoye, Prin. Photo.Aid Date: Sept.1945

Recovery of Vertical Control By: J.H. Winniford, Photo Aid(CofC) Date: Sept.1945

Investigation of Geographic Names and Civil Boundaries By: L.E. Ervast, Photo Aid (C of C) Date: Dec. 1945

Form T-1

DATA RECORD

T-8677

Quadrangle (II): EAST MILL PLAIN, WASH. (3 minute) **Project No. (II):** C.S. 322

Field Office: Portland, Oregon **Chief of Party:** R.A. Earle

Compilation Office Portland, Ore. **Chief of Party:** R.A. Earle

Instructions dated (II III): July 12, 1945
Supplemental Instructions Aug. 29, ~~Sept.~~ 10, Oct. 25, Nov. 30 and Dec. 6, 1945
Copy filed in ~~Descriptive Report No. T-~~ (VI) Division of Photogrammetry files

Completed survey received in office: 3 April, 1946

Reported to Nautical Chart Section: ✓

Reviewed: 18 Oct. 1946 **Applied to chart No.** **Date:**

Redrafting Completed: 29 Oct. 1946

Registered: ~~24 July, 1947~~ 11/47 **Published:** 1947

Compilation Scale: 1:8000 **Published Scale:** 1:9600

Scale Factor (III): None

Geographic Datum (III): N.A. 1927 **Datum Plane (III):** * See below.

Reference Station (III): CUPOLA (Union High School), 1945

Lat.: 45°37' 05.565" (171.8 m) **Long.:** 122°30' 12.722" (275.6 m) **Adjusted** / **Unadjusted** X
Field Position

State Plane Coordinates (VI): Oregon, North Zone / Washington, South Zone

X = **Y =**

Military Grid Zone (VI)

* (M.H.W. = 6.29 ft. above Mean Sea Level) (M.L.W. = 1.29 ft. above Mean Sea Level)
All elevations are on the Standard 1929 general adjustment of leveling in the U.S.A.

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
387 to 389 Inc.	6-30-45	10:45	(1-17,000 contact) (1-8,000 ratio)	There are no tidal waters within the limits of this map manuscript.
1192 to 1194 Inc.	7-2-45	10:40	" "	
1233 to 1238 Inc.	7-2-45	12:00	" "	

Tide from (III): None

Mean Range: Spring Range:

Camera: (Kind or source) K 17, focal length 12 inches

Field Inspection by: See Remarks, page 3 date:

Field Edit by: F.H. Elrod, Prin. Photo Aid date: July, 1946

Date of Mean High-Water Line Location (III): None

Projection and Grids ruled by (III) Washington Office date: Sept. 1945

" " " checked by: " " date: Sept. 1945

Control plotted by: Eda H. Bunce date: Nov. 1945

Control checked by: Carita C. Wiebe date: Nov. 1945

Radial Plot by: James L. Harris and Ree H. Barron date: Nov.29,1945

Detailed by: Carita C. Wiebe date: Feb. 20, 1946

Reviewed in compilation office by: J.E. Deal date: March 28,1946

Corrections and changes after field edit by: Marie B. Elrod date: July 26, 1946

Review after changes due to field edit by: Ree H. Barron date: Aug. 1, 1946

Elevations on Field Edit Sheet checked by: None date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 5.6

Shoreline (More than 200 meters to opposite shore): None

Shoreline (Less than 200 meters to opposite shore): None

Number of Recoverable Topographic Stations established: None

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles:

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

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

Remarks:
Field Inspection By: L. Mac Arthur Date: Dec.1945

Recovery of Horizontal Control: None

Recovery of Vertical Control: None

Investigation of Geographic Names
and Civil Boundaries by: L.E. Ervast, Photo Aid (C.ofC.) Date:Dec.1945

Special Report: Investigation of Boundary Monuments and Lines...
Area of the First Radial Plat.
Filed in Div. Photogram. Gen. Files, under "Special Reports."

FIELD INSPECTION REPORT
QUADRANGLES T-8676 and T-8677
PROJECT CS-322

1 to 25: Except for the supplemental data listed below under side heading 17, all information applicable to these side headings is given in the "Field Inspection Report, Project CS-322, Area of the First Radial Plot". This report was enclosed with the Descriptive Report for Quadrangles T-8709 and T-8710, which has been submitted.

17. Boundary Monuments and Lines:

In addition to the Donation Land Claims in Clark County, Washington, other claims which were granted by the Federal Government, have been compiled on the map manuscripts at the request of Mr. Charles Deaco, Clark County Engineer and Mr. Bernard Morris, Clark County Surveyor. These claims are, as in the case of the Donation Land Claims, the basis for property surveys.

These claims include pre-emption claims, timber claims, and mineral claims. No attempt was made to distinguish between these various types of claims inasmuch as the required information was not available at the Clark County Court House. These other claims were listed with the Donation Land Claims in the Special Report on Boundary Monuments and Lines; however, they are noted as Land Claims rather than Donation Land Claims on the map manuscripts.

Approved by:

R.A. Earle
Chief of Party

Respectfully submitted,

Charles Hanavich
Photogrammetric Engr.

1945:

△ B-17 and △ B-18 fall on T-8676.

△ B-7, B-10, B-11, and Cupola (Union High Sch) fall on T-8677.

See Description Book No. 397, p. 26.

Amendment to File Data

Since project CS-322 was reviewed and registered, it was decided that a Completion Report for each project would be written and filed in the Bureau of Archives. This Completion Report should include all special reports, correspondence of probable future interest or importance, a project layout, a photoindex, and a copy of the initial and supplementary project instructions.

A special file has been set up in the library for Division of Photogrammetry projects. The Completion Report and other special reports will be filed under the project number, and these will be arranged in numerical order.

The following reports and records for project CS-322 are now filed in the Bureau Archives, rather than according to the red notes in the Descriptive Reports:

		Access No.
A.	Special Reports:	
	1. Investigation of Boundary Monuments and Land Lines for Radial Plots 1, 2, 3, and 4	CS-322 Rept. 1
	2. Radial Plots 1, 2, 3, and 4	" " 2
	3. Legal descriptions of boundaries	" " 3
	4. Field Inspection for plots 1, 2, 3, and 4	" " 4
B.	Computations: Triangulation and Traverse	943/GTZ G-6785
C.	Field records:	
	1. Horizontal Angles (form 250) 12 vol.	943/GH G-7082
	2. Traverse Measurements (form 590) 9 vol.	943/GB G-7083
	3. Descriptions (form 525) and recoveries (form 526)	943/GA G-6786
	4. Pricking cards (form M-982-1) for tri. and Trav.	Div. of Photogrammetry General File
	5. Recoverable Topographic stations (form 524)	Div. of Photogrammetry General File
D.	Recovery of bench marks (form 685)	Filed in Leveling Sec.
E.	Supplemental data: maps, plans	

These were transferred to the Map Section (Mr. Stanley, Chief), Division of Charts, to be selectively filed or discarded.

COMPILATION REPORT

MAP MANUSCRIPTS NUMBERS T-8676 and T-8677

PROJECT CS-322

26. Control:

The eight existing horizontal control stations falling in the area of Map Manuscript No. T-8676 were located near the north shoreline of the Columbia River. The field unit positively identified one of these stations, one was of doubtful identification, two were recovered but not identified and four were reported lost. There were no existing horizontal control stations in the area of Map Manuscript No. T-8677.

In order to satisfactorily control the photographs a field unit established one triangulation station in the area of T-8677. In addition a third order traverse was run between triangulation stations SNAG 3, 1945 and HAZEL (WASH.), 1938, r1945. Two of the monumented traverse stations along this traverse were identified and were of great help in controlling the photographs in the northern limits of these two map manuscripts.

One additional triangulation station, "RADIO BEACON" (Center of 5 beacons), WASH., 1946, is shown in the northwest corner of Map Manuscript T-8676. This station was established for use in the second radial plot subsequent to the compilation work on T-8676.

Facts concerning the doubtful existing horizontal control station, "ELLSWORTH CANNERY (Downstream Cor.) 1939", are contained in a letter to the Director dated December 11, 1945.

A complete tabulation of the horizontal control stations, which were originally in the area of these two map manuscripts, is attached to the "Field Inspection Report, Project CS-322, Area of the First Radial Plot". This report is included with the descriptive report for map manuscripts T-8709 and T-8710 which was forwarded to the Washington Office on July 5, 1946.

A complete tabulation of supplemental horizontal control stations which were established in 1945 and 1946 is attached to a special report, "Third-Order Triangulation and Traverse, Project CS-322, Area of the First Radial Plot", which was forwarded to the Washington Office on July 12, 1946.

General Files in Div. Photogrammetry
Filed in Library under "G-6785"

(in Div. Photogram. Geog. Files

27. Radial Plot:

The facts concerning the radial plot for the area of these two map manuscripts have been fully covered in the "Descriptive Report, First Radial Plot, Project CS-322". This radial plot report was included with the descriptive report for map manuscripts T-8709 and T-8710 which was forwarded to the Washington Office on July 5, 1946.

28. Detailing:

The northern limit of these map manuscripts was at latitude 45°37'45", as per instructions contained in a letter "73 ld", dated December 20, 1945.

Compilation was done in accordance with instructions for Project CS-322 and special instructions applicable to planimetric mapping.

The photography was adequate. The reflight photographs made on Nov. 21, 1945 were helpful in determining the high-water line and other shoreline details in the area of T-8676. They were not satisfactory for accurately determining the detail falling in the outer limits of the photographs or for orientation and use in the radial plotting of the minor pass points. In some cases it was difficult to interpret, from the ratio print, the correct shape and size of buildings. This was attributed to the loss of sharpness when the contact prints were enlarged.

When any item relative to the field inspection data was doubtful, it could be clarified by consultation with the field man who had done the inspection work. It was, therefore, unnecessary to make discrepancy overlays for the field edit work.

The classification symbols for tree or brush areas are placed on the inside of the curled line which denotes the limits of said areas. These curled lines and the letter symbols are in green acid ink.

All boundary and land claim lines are shown by appropriate symbols in red acid ink. A legend shown in the margin of each map manuscript identifies these lines.

Pertinent notes, relative to various items, have been lettered in the margins of the map manuscripts.

29. Supplemental Data:

The following maps or plans were used to supplement the photographs:

Blue line print, Map of McLoughlin Heights, Scale 1"=200', to

be forwarded at a later date.

Blue line print, Map of Clark County, Wash., Scale 1"-1 mile, forwarded to Washington Office on July 15, 1946.

30. Mean High Water Line:

The mean high-water line was detailed from information submitted by the field parties and from stereoscopic examination of the photographs. Most of the shoreline data is shown on field photographs taken on Nov. 21, 1945. The mean high-water line is shown by a continuous heavy-weight black acid ink line at a plane five feet above the U.S. Engineer low-water datum which is 1.29 ft. above mean sea level. There are no marsh areas immediately bordering the mean high-water line. The bank line at the normal flood stage of the river has been noted.

31. Low-Water and Shoal Lines:

The field inspection unit did not furnish any information on definite low-water or shoal lines in the area of Map Manuscript No. T-8676.

32. Details Offshore from the Mean High-Water Line:

The offshore details include piling areas and a sand knoll. They have been shown in accordance with the data submitted by the field inspection parties.

33. Wharves and Shoreline Structures:

Piers, wharves, dolphins, etc., have been shown.

34. Landmarks and Aids to Navigation:

There are no existing or recommended landmarks in the area of these two map manuscripts.

The below listed two aids to navigation, for which Form 567 is attached, fall in the area of T-8676: fm 524 also

RYAN POINT UPPER RANGE FRONT LIGHT
RYAN POINT UPPER RANGE REAR LIGHT

35. Hydrographic Control:

No additional hydrographic stations were established along the Columbia River. A sufficient number of existing control stations were recovered in this area to comply with the instructions.

36. Landing Fields and Aeronautical Aids:

Sugg Airport (private) falls within the limits of Map Manuscript No. T-8677.

Sketch of airport with measurements of buildings and runways given on back of Field Inspection phils (ratio print) No. 1192.

Form 567 is attached recommending the retention of "RADIO BEACON" (center one of 5 beacons) as an aeronautical aid on Aeronautical Chart No. W-1.

37. Geographic Names:

Only undisputed geographic names are shown on the map manuscripts.

Geographic names are the subject of a special report, "Investigation of Geographic Names, Project CS-322, Area of the First Radial Plot", which was forwarded to the Washington Office on July 12, 1946.

in Geog. Names Sect, Coastal Surveys

38. Recoverable Topographic Stations:

Copies of Forms 524 are being submitted for the two aids to navigation listed in paragraph 34 of this descriptive report. see P 34

39. Junctions:

Complete and satisfactory junctions have been made between Map Manuscripts Nos. T-8676 and T-8677 and with adjoining map manuscripts.

40. Bench Marks:

Bench marks have been detailed as identified by field inspection units. Each bench mark is indicated by a black acid ink cross with the name and elevation to the nearest 1/10 foot lettered nearby. No bench marks on T-8677

44. Comparison with Existing Topographic Surveys:

See record sheet which accompanies each map manuscript.

45. Comparison with Nautical Charts:

There are no nautical charts covering the area of Map Manuscript No. T-8677. See record sheet which accompanies Map Manuscript No. T-8676 for comparison with nautical chart no. 6156.

Approved and Forwarded:

Robert A. Earle
Chief of Party

Respectfully Submitted:
August 6, 1946

J. Edward Deal Jr.

J. Edward Deal, Jr.
Photogrammetric Engineer

FIELD EDIT REPORT
T-8676 and T-8677
Project CS-322

46. Methods:

These map manuscripts were field edited in accordance with the Field Edit Instructions dated 24 August 1945. All corrections and additions have been made accurately on the field edit prints in colored ink, or the place where a correction or addition is to be made has been indicated by a note which refers to a field photograph. All features which are to be deleted have been crossed out in colored ink.

New buildings were located either by pacing or taping and are shown on the field edit prints. A legend on each of these prints will furnish a key to all symbols and to the different colored inks used.

47. Adequacy of the Compilation:

The planimetry as delineated on the map manuscripts may be considered as complete and adequate with respect to the corresponding ground detail. Except for the deletions, corrections, additions, and notations made on the field edit prints, it is also accurate in regard to relative position.

Any drafting of detail that seemed to be questionable was called to the attention of the Compilation Office by notes. The additional names and numbers of roads which were indicated on the field edit prints were obtained from recently installed road signs.

All shoreline features could not be accurately checked because of the extreme high-water caused by the spring freshet. A few changes and corrections relative to drainage were noted.

In accordance with the field edit instructions, the accuracy and completeness of the map manuscripts in regard to geographic names, boundaries, public land lines and detail, were checked by Mr. B.R. Morris, Deputy County Road Engineer, Clark County Engineer's Office, Vancouver, The geographic names shown on these sheets have been reviewed by Mr. Lewis A. McArthur, Collaborator for the U.S. Coast and Geodetic Survey.

48. Accuracy Tests:

Results of the horizontal accuracy test on T-8676 and T-8677 are attached to the back of this report. For data on this traverse,

refer to "Special Report, Third-Order Triangulation and Traverse, Project CS-322, Area of the First Radial Plot", which has been submitted.

These maps are believed to comply with the horizontal accuracy specifications.

49. Bench Mark Elevations:

The elevations of the bench marks shown on the manuscript of sheet T-8676 have been checked. No vertical control was available in quadrangle T-8677.

Field Edit Reviewed By:

Charles Hanavich
Photogrammetric Engr.

Field Edit By:

F.H. Elrod
Prin. Photo. Aid

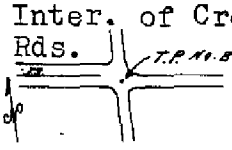
Approved By:

R.A. Earle
Chief of Party

HORIZONTAL ACCURACY TEST
Map Manuscripts T-8676 and T-8677
Project CS - 322

This test consists of a traverse between triangulation stations HAZEL,1938 and SNAG 3 (USE),1945. The traverse is 8.5 statute miles in length and contains 25 test points; 17 of which are within the limits of these map manuscripts. In the tabulation the geographic position from the traverse computations is referred to as T.P.No. and the scaled position from the map manuscripts (scale 1:8,000) is referred to as M.M.No.

TABULATION OF TEST POINTS

Description of Point	Test Point Number	Latitude	Longitude	Displacement in mm
		T-8676		
Inter.of T-rd.	T.P.No.B14-1	45 37 470.2	122 33 64.6	
80 degrees	M.M.No.B14-1	45 37 468.5	122 33 67.3	.32
Inter.of T-rd.	T.P.No.B15-1	45 37 500.1	122 33 493.1	
90 degrees	M.M.No.B15-1	45 37 502.0	122 33 494.8	.26
Inter. of T-rd.	T.P.No.B15-2	45 37 499.5	122 33 736.4	
90 degrees	M.M.No.B15-2	45 37 501.5	122 33 736.8	.20
Inter. of T-rd.	T.P.No.B15-3	45 37 498.0	122 33 1106.4	
90 degrees	M.M.No.B15-3	45 37 500.9	122 33 1106.4	.29
Inter. of T-rd.	T.P.No.B16-1	45 37 502.6	122 34 417.2	
60 degrees	M.M.No.B16-1	45 37 502.3	122 34 416.0	.12
Inter. of T-rd.	T.P.No.B17-1	45 37 622.1	122 34 824.3	
60 degrees	M.M.No.B17-1	45 37 620.4	122 34 822.2	.27
Inter. of T-rd.	T.P.No.B18-1	45 37 729.2	122 34 1228.8	
80 degrees	M.M.No.B18-1	45 37 728.7	122 34 1230.9	.22
Inter. of T-rd.	T.P.No.B18-2	45 37 754.5	122 35 77.1	
85 degrees	M.M.No.B18-2	45 37 752.2	122 35 78.0	.25
Inter. of T-rd.	T.P.No.B19-1	45 37 819.4	122 35 319.5	
80 degrees	M.M.No.B19-1	45 37 820.5	122 35 320.4	.14
Inter. of Cross Rds.	T.P.No.B19-2	45 37 885.1	122 35 539.0	
	M.M.No.B19-2	45 37 884.5	122 35 537.7	.14
		T-8677		
Inter. of T-rd.	T.P.No.B 2	45 36 48.5	122 30 208.9	
90 degrees	M.M.No.B 2	45 36 47.7	122 30 205.6	.34
Inter. of Cross	T.P.No.B 3	45 36 353.8	122 30 209.4	
Rds. 90 degrees	M.M.No.B 3	45 36 349.5	122 30 208.1	.45

Description of Point	Test Point Number	Latitude			Longitude			Displacement in mm
T-8677 continued								
Inter. of T-rd.	T.P.No.B5-1	45	36	1147.8	122	30	224.3	
85 degrees	M.M.No.B5-1	45	36	1143.4	122	30	219.7	.63
Inter. of T-rd.	T.P.No.B 5	45	37	101.3	122	31	276.5	
80 degrees	M.M.No.B 5	45	37	100.7	122	31	278.1	.27
Inter. of T-rd.	T.P.No.B 6	45	37	234.3	122	31	1142.6	
80 degrees	M.M.No.B 6	45	37	236.8	122	31	1143.7	.27
Inter. of T-rd.	T.P.No.B13-1	45	37	377.3	122	32	767.8	
90 degrees	M.M.No.B13-1	45	37	376.8	122	32	768.6	.09
Inter.of drive	T.P.No.B13-2	45	37	442.1	122	32	1171.2	
& N edge of Hwy	M.M.No.B13-2	45	37	440.9	122	32	1167.5	.39
80 degrees								

Test point No. B19-2 is a less well defined point. All the others are well defined.

All the test points were found to test well within the accuracy requirements except for T.P.No. B5-1.

Approved By:

R.A.Earle
Chief of Party

Respectfully Submitted By:

Charles Hanavich
Photo. Engr.

GEOGRAPHIC NAMES

Survey No. T-8676-8677

1 Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
(10/30/46: north edge of both sheets incomplete this date--1 minute wide)										1
Names on both sheets:										2
Washington									USGB	3
Clark County										4
U.S. 830/ Wash. 8		(Evergreen Highway)								5
Spokane, Portland and Seattle										6
										7
										8
T-8676:										9
Oregon									USGB	10
Multnomah County										11
Columbia River									"	12
Ellsworth										13
Leiser Point										14
West Mill Plain		(area)								15
West Mill Plain School										16
Burntbridge Creek	not on sheet									17
McLoughlin Heights										18
Ellsworth Springs										19
City of Vancouver Watershed										20
Wash. No. 8A		(a small section in NW corner of sheet)								21
										22
T-8677:										23
East Mill Plain										24
East Mill Plain School		(not Mill Plain School)								25
Union High School										26
Burton School — Mill Plain Meth. church										27
Sugg Airport										

Names underlined in red approved 10/30/46 by L. Heck

M 234

Form 567
(Rev. April 1942)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Project C. S. 322
T-8676

NONFLOATING AIDS TO NAVIGATION
~~LANDMARKS FOR CHARTS~~

~~TO BE CHARTED~~
~~TO BE DELETED~~ } STRIKE OUT ONE

Portland, Oregon, March, 1946

The ~~following Fixed Aids to Navigation~~ ~~I recommend that the following objects which~~ have (~~have not~~) been inspected ~~from seaward to determine their value as landmarks~~, ~~be charted~~ on (~~deleted from~~) the charts indicated.

The positions given have been checked after listing.

Robert A. Earle
Chief of Party.

GENERAL LOCALITY: Columbia River, Washington NAME AND DESCRIPTION	POSITION						METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	LATITUDE			LONGITUDE		DATUM						
	° ′	D. M. METERS		° ′	D. P. METERS							
RYAN POINT UPPER RANGE FRONT LIGHT Fl. W., 1 Sec.	45 36	(972.8) 879.6		122 35	(298.8) 1001.7	N.A. 1927	Radial Plot	March 1946		X		#6156
RYAN POINT UPPER RANGE REAR LIGHT Occ. W., 6 Sec.	45 36	(983.8) 868.6		122 35	(555.1) 745.4	N.A. 1927	Radial Plot	March 1946		X		#6156

Note: The geographic positions of the above nonfloating aids to navigation are in agreement with the charted positions shown on Chart #6156.

Letter 451 (1947)

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. 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.

U. S. GOVERNMENT PRINTING OFFICE 16—27869-1

Copy checked JEW

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

T-8676

NONFLOATING AIDS OR LANDMARKS FOR CHARTS (AERONAUTICAL)

TO BE ~~RETAINED~~ CHARTED
TO BE ~~DELETED~~ DELETED
STRIKE OUT ONE

Portland, Oregon, ~~August 6~~, 1946

I recommend that the following objects which ~~have~~ *(have not)* been inspected from seaward to determine their value as landmarks, be charted on *(~~deleted from~~)* the charts indicated.

The positions given have been checked after listing by J.E. Deal

R. A. Earle *Chief of Party.*

STATE	EAST OF VANCOUVER CLARK COUNTY, WASH.		POSITION					METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
			LATITUDE		LONGITUDE		DATUM						
CHARTING NAME	DESCRIPTION	SIGNAL NAME	° ′	D.M. METERS	° ′	D.P. METERS							
RADIO BEACON	(Center one of 5 beacons) WASHINGTON		45 38	(875.7) 926.7	122 35	(167.8) 1131.5	N.A. 1927	Triangulation	2-28-46				Aeronautical W-1

NOTE: The above listed geographic position was established by field computation and is unadjusted.

Letter 451 (1947)

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. 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.

RECORD SHEET

Div. of Photogrammetry
Graphic Compilation Sect.

GENERAL LOCALITY East of Vancouver, Washington SHEET NO. T-8677

LOCALITY East Mill Plain, Washington PROJECT NO. C.S. 322

PHOTOS ORDERED Aug. 1945 Nov. 1945 REC'D Oct. 1, 1945 Jan. 21, 1946 SCALE 1:8000

PROJECTION ORDERED Aug. 1945 REC'D Sept. 19, 1945

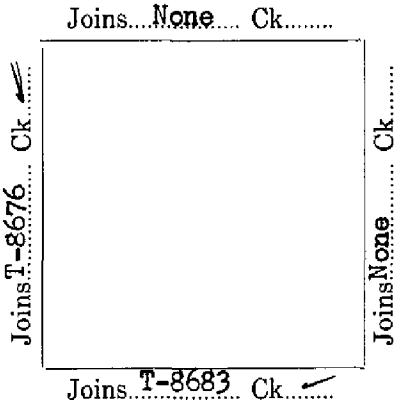
CONTROL:
COMPUTED Harris VERIFIED Myers
PLOTTED Bunce VERIFIED Wiebe

PHOTO PREPARATION:
CONTROL Harris
AZIMUTHS Letson
PASS POINTS Harris

TEMPLETS Myers VERIFIED Harris

RADIAL PLOT: Barron
PLOTTED BY Harris DATE 11-26-45
VERIFIED Deal DATE 11-29-45

COMPILATION:
DETAIL POINTS Wiebe DATE 11-29-45
DETAIL BY Wiebe DATE 2-20-45
VERIFIED BY Deal DATE 3-28-45



DATE OF PHOTOS 6-30-45 7-2-45

TIME OF PHOTOS 10:45 10:40

STAGE OF TIDE There are no tidal waters within the area of this Map Manuscript.

COMPARISON WITH PREVIOUS SURVEYS; TOPO., HYDRO., AND CHARTS:

Due to the scale difference only a visual comparison was made with the U.S.G.S. Portland, Ore.-Wash. 15 minute quadrangle. Common planimetric detail is in good agreement. There are (no) nautical charts covering the area of this Map Manuscript. #6156

REMARKS

Corrections and changes due to field edit and a final compilation office review have been made.

FORWARDED TO The Director U.S. Coast and Geodetic Survey DATE August 8, 1946

R.A. Earle
Chief of Party

Note to be added to Review Report for T-867:

Donation Land Claims. The D.L.C. boundary line of Philip Christ has been added to the map manuscript. The existence of the hiatus between the Philip Christ D.L.C. and the James Davidson and H.F. Rodney land claims has been verified.

K.D.M.

Division of Photogrammetry

Review Report of

Topographic Survey, Manuscript No. T-8676

Paragraph numbers not used in this review have been adequately covered in other parts of this report.

28. Detailing.-

Only one minor addition to this map manuscript was necessary during the review. The orchard at approximately latitude 45°36'45", longitude 122°36'00" was entirely omitted from T-8676. This orchard has been added and the junction with T-8675 (to the west) is now satisfactory.

44. Comparison with Existing Topographic Maps and Quadrangles.-

The following existing topographic surveys covering the area of T-8676 have been compared with the manuscript:

T-2085	1:10,000	1890
T-2521	1:10,000	1900

T-8676 supersedes T-2085 except for the contours and fence lines on T-2085, and it supersedes T-2521 completely.

A visual comparison of the U. S. Geological Survey Quadrangle "Portland, Oreg.-Wash.", 1:62,500, 1905, 1940 corrections, and of the U. S. Engineer Quadrangle "Portland, Oreg.-Wash.", 1:62,500, 1939-40, shows favorable agreement in the planimetric detail for their common area.

45. Comparison with Nautical Charts.-

A visual comparison of the Nautical Chart No. 6156, 1:40,000, 9/21/46, with T-8676 shows favorable agreement. This map has not been applied to Nautical Chart No. 6156 as of the date of this review.

Reviewed by: Inspected by:

K. H. Maki — S. V. Griffin

Photogrammetric Aid B — Chief, Review Section

11/13/46

APPROVED BY:

B.J. Jones 11/47
Technical Assistant to the
Chief, Div. of Photogrammetry

Chief, Nautical Chart Branch
Division of Charts

K.T. Adams
Chief, Div. of Photogrammetry

E.K. Green
Chief, Div. of Coastal Surveys

Division of Photogrammetry

Review Report of

T-8677

Paragraph numbers not used in this review report have been adequately covered in other parts of this report.

28. Detailing.-

The manuscript was complete as received from the field and no changes were necessary during the Washington Office review.

44. Comparison with Existing Topographic Quadrangles.-

This map manuscript supersedes the following quadrangles in planimetric detail for their common area:

U.S.G.S. Portland, Oreg.-Wash. 1:62,500, 1905-40
U.S.E. Portland, Oreg.-Wash. 1:62,500, 1939-40

45. Comparison with Nautical Charts.-

This manuscript contains no shoreline and no comparison was made with chart 6156.

Reviewed by:

Lua T. Stevens
Photogrammetrist
October 18, 1946

Inspected by:

S. V. Griffin
Chief, Review Section

APPROVED BY:

Biggers 11/47
Technical Assistant to the
Chief, Div. of Photogrammetry

K. T. Adams
Chief, Div. of Photogrammetry

Chief, Nautical Chart Branch
Division of Charts

C. K. Green
Chief, Div. of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. T-8676
T-8677

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6/17/48	6156	Pisegari	T8676 Exam. for crit. changes only, - no ~~Before~~ After Verification and Review Correction.
1 Aug 50	6156	Nichols	~~Before~~ After Verification and Review Both completely applied to Reconstruction.
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

RECORD SHEET

Div. of Photogrammetry
Graphic Compilation Sect.

GENERAL LOCALITY East of Vancouver, Washington SHEET NO. T-8676

LOCALITY West Mill Plain, Washington PROJECT NO. C.S. 322

PHOTOS ORDERED August, 1945 Nov., 1945 REC'D Oct. 1, 1945 Jan. 21, 1946

SCALE 1:8000

PROJECTION ORDERED Aug. 1945 REC'D Oct. 8, 1945

Joins None Ck.....

Joins T-8675 Ck.....

Joins T-8677 Ck.....

Joins T-8682 Ck.....

CONTROL:
COMPUTED Harris VERIFIED Myers

PLOTTED Bunce VERIFIED Wiebe

PHOTO PREPARATION:
CONTROL Harris

AZIMUTHS Letson

PASS POINTS Harris

TEMPLETS Myers VERIFIED Harris

RADIAL PLOT: Harris
PLOTTED BY Barron DATE 11-26-45

VERIFIED Deal DATE 11-29-45

COMPILATION:
DETAIL POINTS Wiebe DATE 1-21-46

DETAIL BY Wiebe DATE 2-25-46

VERIFIED BY Deal DATE 3-26-46

DATE OF PHOTOS See other side

TIME OF PHOTOS See other side

STAGE OF TIDE See other side

COMPARISON WITH PREVIOUS SURVEYS; TOPO., HYDRO., AND CHARTS:

Due to the scale difference only a visual comparison was made with the U.S.G.S. Portland, Ore.-Wash. 15 minute quadrangle. Common planimetric detail is in good agreement.

A comparison was made with nautical chart No. 6156 and differences are as follows: (See reverse side)

REMARKS

Corrections and changes due to field edit and a final compilation office review have been made.

FORWARDED TO The Director U.S. Coast & Geodetic Survey DATE August 8, 1946

R.A. Earle
Chief of Party

COMPARISONS (Continued)

On the north shore of the Columbia River between Longitude 122°34'45" and Longitude 122°35'32" the shoreline has receded from 0 meters to 40 meters.

At Longitude 122°35'33" on the north shore of the Columbia River a small inlet has filled as much as 40 meters.

On the north shore of the Columbia River between Longitude 122°35'34" and Longitude 122°36'00" the shoreline has receded from 0 meters to 50 meters.

PHOTOGRAPH DATA

Photo No.	Date	Time	Stage of Tide
762 and 763	7-1-45	12:20	11.7 ft. above M.L.W.
1130 to 1133 Inc.	7-2-45	10:20	11.0 ft. above M.L.W.
1236 to 1238 Inc.	7-2-45	12:00	11.0 ft. above M.L.W.
3602 to 3604 Inc.	11-21-45	14:45	4.9 ft. above M.L.W.

The Mean Low Water datum was established by the U.S. Engineers and their tide guage which is located at Government Moorings, St. John's Bridge. Willamette River, is set for this datum. The 0.00 point of this guage is 1.29 feet above Mean Sea Level. The high water line as shown on the Map Manuscript is a plane five feet above the U.S. Engineers low water datum.