8666 8667
8668

8666 8668 8667

Diag'd. on diag. ch. No. 6154

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Air Photographic

Field No. T-8666, T-8667 and T-8668 Office No.

LOCALITY

State Oregon and Washington

General locality Multnomah County, Oregon
Clark County, Washington

Locality Hewlett Point, Washington,

Gilbert River and Holbrook, Oregon

194 7

CHIEF OF PARTY

R. A. Earle

LIBRARY & ARCHIVES

DATE Dec 26 - 1947

8-1870-1 (1)

RECORD SHEET

Div. of Photogrammetry
Graphic Compilation Sect.

GENERAL LOCALITY Multnomah County, Oregon

SHEET NO. T-8666

LOCALITY Holbrook, Oregon

PROJECT NO. CS-322

PHOTOS ORDERED Aug. 1945 REC'D 9-24, 9-26, 10-1-45 & 1-21-46

SCALE 1:8000

PROJECTION ORDERED May 19 46 REC'D 6-4-46

Joins T-8662 Ck

Joins None Ck | Joins T-8667 Ck

Joins None Ck

CONTROL:
COMPUTED Foster VERIFIED Bushnell
PLOTTED Foster VERIFIED Bunce

PHOTO PREPARATION:
CONTROL Foster
AZIMUTHS Davidson
PASS POINTS Bunce

TEMPLETS Sherwood VERIFIED Harris

RADIAL PLOT:
PLOTTED BY Harris DATE 10-7-46
VERIFIED Deal DATE 10-11-46

COMPILATION:
DETAIL POINTS Foster DATE 10-17-46
DETAIL BY Foster DATE 12-3-46
VERIFIED BY Barron DATE 12-13-46

DATE OF PHOTOS See reverse side.

TIME OF PHOTOS "

STAGE OF TIDE "

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

Due to scale difference only a visual comparison was made with the USGS Hillsboro Oregon - Washington 15 min. quadrangle, Scale: 1:62500. Common planimetry of the quadrangle and map manuscript is in good agreement. Honeyman Lake, Bonneville Power Adm. transmission line, Wildwood Golf Course and a 30 ft. dike on Sauvie Island are not shown on the quadrangle. Several pond and marsh areas (over)

REMARKS

All corrections and additions which were found during the field edit were applied to the map manuscript. A final compilation office review was then made.

FORWARDED TO Washington Office DATE January 14, 1947

R. A. Earle
Chief of Party

M-2305-12

shown on the quadrangle have been reclaimed by drainage operations.

Comparison was made with black line prints on clear acetate of Topographic Surveys No's. 6617a and 6617b, Scale: 1:10000 enlarged to a scale of 1:8000. The shoreline as shown on the topographic sheet and map manuscript, is in excellent agreement except along the east bank of Multnomah Channel between Latitude 45° 41' 05" and 45° 41'45", where the banks have eroded since the topographic survey was made in 1938.

Comparison was made with Chart No. 6154, Scale: 1:40000, by use of the vertical projector. In general the shoreline of the chart and map manuscript is in agreement. The alignment of several roads shown on the chart has been changed, and numerous marsh and pond areas on Sauvie Island have been drained since the chart was made.

PHOTOGRAPH DATA

Number		Date	Time	Scale	Stage of Tide
				1:17000 contact	
336 to 340	Inc.	6-30-45	9:50	1: 8000 ratio	11.9 ft. above M.L.W.
353 to 357	"	6-30-45	10:20	"	11.9 ft. " "
1368 to 1371	"	7-10-45	10:30	"	9.9 ft. " "
3499 to 3501	"	11-21-45	13:45	"	4.9 ft. " "
3647		11-21-45	15:45	"	5.0 ft. " "
1285 to 1288	"	7- 2-45	13:00	1: 5000 contact	11.0 ft. " "

Form T-1

DATA RECORD

T-8666

Quadrangle (II): Holbrook, Multnomah Co, Oregon (3 minute) **Project No. (II):** CS-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) Div. Ptg. Office Files

Completed survey received in office: 21 January, 1947

Reported to Nautical Chart Section: ✓

Reviewed: 3 June 1947 **Applied to chart No.** **Date:** /

Redrafting Completed: 19 June 1947

Registered: Dec 24 Oct. 1947 **Published:** 1947

Compilation Scale: 1:8000 **Published Scale:** 1:9609

Scale Factor (III): None

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

Reference Station (III): TS 5-100 (29th Engineers) 1939 r1945 (Oregon)

Lat.: 45° 40' 06.226" (192.2m) **Long.:** 122° 52' 00.549" (11.9m) **Adjusted** X *
Unadjusted
* Position from "Horizontal and Vertical Control Data, Hillsboro, Quad. Oreg.--Wash." issued by, Office of Chief of Engineers, Washington, D. C.

State Plane Coordinates (VI):

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
			1:17000 contact	
336 to 340 Inc.	6-30-45	9:50	1: 8000 ratio	11.9 ft. above M.L.W.
353 to 357 "	6-30-45	10:20	"	11.9 ft. " "
1368 to 1371 "	7-10-45	10:30	"	9.9 ft. " "
3499 to 3501 "	11-21-45	13:45	"	4.9 ft. " "
3447	11-21-45	15:54	"	5.0 ft. " "
1285 to 1288 "	7- 2-45	13:00	1: 5000 contact	11.0 ft. " "

Tide from (III): Daily readings of the U.S. Engineers tide gauge located at Government Moorings on the West Shore of the Willamette River just south of St. Johns Bridge. The 0 + 00 of the gauge 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, focal length 12 inches

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

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

Date of Mean High-Water Line Location (III): November 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 made on Nov. 21, 1945, were taken when the water level was at 4.9 ft. above M.L.W.

Projection and Grids ruled by (III) Washington Office **date:** May, 1946

" " " **checked by:** Washington Office **date:** May, 1946

Control plotted by: Richard Foster **date:** September, 1946

Control checked by: Eda H. Bunce **date:** September, 1946

Radial Plot by: J. L. Harris & J. E. Deal **date:** October 11, 1946

Detailed by: Richard Foster **date:** Dec. 3, 1946

Reviewed in compilation office by: Ree H. Barron **date:** Dec. 13, 1946

Corrections and changes after field edit by: Ree H. Barron date: Jan. 7, 1947

Review after changes due to field edit by: Roy A. Davidson date: Jan 8, 1947

Elevations on Field Edit Sheet checked by: Charles Hanavich, Topo. Engineer **date:** Dec., 1946

STATISTICS (III)

Land Area (Sq. Statute Miles): 7.0

Shoreline (More than 200 meters to opposite shore): 6.0 statute miles

Shoreline (Less than 200 meters to opposite shore): 0.5 statute miles

Number of Recoverable Topographic Stations established: 11
(5 topo. stations, 1 witness corner, 5 section corners)

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	date: April, 1946
Shoreline Inspection by: J. C. LaJoye, Prin. Photo. Aid	date: April, 1946
Recovery of Horizontal Control by: J. C. LaJoye	date: May, 1946
Recovery of Vertical Control by: J. H. Winniford, Photo. Aid	date: Sept., 1945
Investigation of Geographic Names and Civil Boundaries by: L. E. Ervast, Photo. Aid	date: June, 1946

RECORD SHEET

Div. of Photogrammetry
Graphic Compilation Sect.

GENERAL LOCALITY Multnomah County, Oregon

LOCALITY Gilbert River

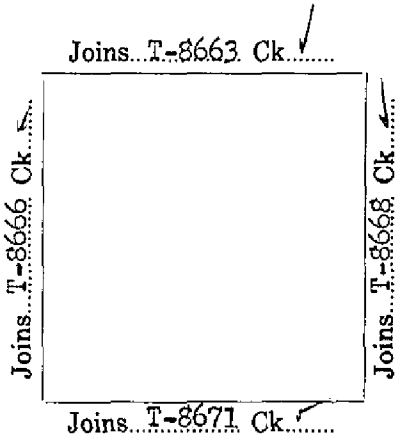
SHEET NO. T-8667

PROJECT NO. CS-322

SCALE 1:8000

PHOTOS ORDERED Aug., 1945 REC'D 1-21-46 9-24, 9-26, 10-1-45,

PROJECTION ORDERED May, 1946 REC'D 6-4-46



CONTROL:
COMPUTED Foster VERIFIED Bushnell

PLOTTED Bunce VERIFIED Foster

PHOTO PREPARATION:
CONTROL Foster

AZIMUTHS Davidson

PASS POINTS Bunce

TEMPLETS Sherwood VERIFIED Harris

RADIAL PLOT:
PLOTTED BY Harris DATE 10-7-46

VERIFIED Deal DATE 10-11-46

COMPILATION:
DETAIL POINTS Letson DATE 10-9-46

DETAIL BY Letson DATE 11-14-46

VERIFIED BY Barron DATE 12-3-46

DATE OF PHOTOS See reverse side

TIME OF PHOTOS "

STAGE OF TIDE "

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

Due to scale difference only a visual comparison was made with the U.S.G.S. Hillsboro, Oregon - Washington 15 min. quadrangle, Scale: 1:62500. Extensive drainage operations have been in process on Sauvie Island, since the quadrangle was made and many of the pond and marsh areas have been reclaimed. Elsewhere the common planimetry of the map manuscript and quadrangle is in agreement. (over)

REMARKS

All corrections and additions which were found during the field edit were applied to the map manuscript. A final compilation office review was then made.

FORWARDED TO Washington Office DATE January 14, 1947

R. A. Earle
Chief of Party

M-2305-12

COMPARISONS (cont'd)

Comparison was made with a black line print on clear acetate of Topographic Survey No. 6617b, Scale: 1: 10000 enlarged to a scale of 1:8000. The shoreline as shown on the topographic sheet and map manuscript is in excellent agreement.

Comparison was made with Nautical Chart No. 6154, Scale: 1:40000 by use of the vertical projector. Due to extensive drainage operations many pond and marsh areas, on Sauvie Island, have been reclaimed since the chart was made. Many of the roads shown on the chart are not in correct alignment and the location of Gilbert River is in error in several places. In general the shoreline of Multnomah Channel as shown on the chart and map manuscript is in agreement.

PHOTOGRAPH DATA

Number	Date	Time	Scale	Stage of Tide
430 to 434 Inc.	6-30-45	11:30	1:17000 contact 1: 8000 ratio	11.9 ft. Above M.L.W.
527 to 530 "	6-30-45	13:00	"	11.9 ft. " "
3526 to 3529 "	11-21-45	13:45	"	5.0 ft. " "
3531 to 3534 "	11-21-45	13:45	"	5.0 ft. " "
1289 to 1292 "	7- 2-45	13:00	1: 5000	11.0 ft. " "

Form T-1

DATA RECORD

T-8667

Quadrangle (II): Gilbert River, Multnomah Co., Oregon **Project No. (II):** CS-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)
Div. Phtg Office Files

Completed survey received in office: 21 January, 1947

Reported to Nautical Chart Section: ✓

Reviewed: 19 May, 1947 **Applied to chart No.** **Date:**

Redrafting Completed: 13 June 1947

Registered: ~~27 Oct~~ 27 Dec 1947 **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): JUNCTION, 1946

Lat.: 45° 40' 02.493"(77.0m) **Long.:** 122° 49' 01.540"(33.3m) **Adjusted**
Unadjusted X
Field Compilation

State Plane Coordinates (VI):

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.

JAH

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
430 to 434 Inc.	6-30-45	11:30	1:17000 contact 1: 8000 ratio	11.9 ft. above M.L.W.
527 to 530 "	6-30-45	13:00	"	11.9 ft. " "
3526 to 3529 "	11-21-45	13:45	"	5.0 ft. " "
3531 to 3534 "	11-21-45	13:45	"	5.0 ft. " "
1289 to 1292 "	7- 2-45	13:00	1: 5000 contact	11.0 ft. " "

Tide from (III): Daily readings of the U. S. Engineers tide gauge located at Government Moorings on the west shore of the Willamette River just south of St. Johns Bridge. The 0 +00 of the gauge 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, focal length 12 inches

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

Field Edit by: J. H. Winniford, Photo. Aid **date:** Dec., 1946

Date of Mean High-Water Line Location (III): November 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 m ap manuscripts. Photographs made on November 21, 1945, were taken when the water level was 4.9 ft. above M.L.W.

Projection and Grids ruled by (III) Washington Office **date:** May, 1946

" " " **checked by:** Washington Office **date:** May, 1946

Control plotted by: Eda H. Bunce **date:** Sept., 1946

Control checked by: Richard Foster **date:** Sept., 1946

Radial Plot by: James L. Harris & J. E. Deal **date:** Oct. 11, 1946

Detailed by: Helen L. Letson **date:** Nov. 14, 1946

Reviewed in compilation office by: Ree H. Barron **date:** Dec. 3, 1946
Corrections and changes after field edit by: Roy Davidson date: Jan. 7, 1947
Review after changes due to field edit by: Ree Barron date: Jan. 8, 1947
Elevations on Field Edit Sheet checked by: Charles Hanavich, Topo. Engineer **date:** Dec., 1946

STATISTICS (III)

Land Area (Sq. Statute Miles): 8.0

Shoreline (More than 200 meters to opposite shore): 4.0 statute miles

Shoreline (Less than 200 meters to opposite shore): 7.0 statute miles

Number of Recoverable Topographic Stations established: 4
(1 topo. station, 2 D.L.C. corners, and 1 section corner)

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: W. J. Bushnell, Photo. Aid
J. H. Winniford, Photo. Aid date: May, 1946

Recovery of Horizontal Control by: C. Manavich, Topo. Engineer date: April, 1946

Recovery of Vertical Control by: None

Shoreline Inspection by: J. H. LaJoye, Prin. Photo. Aid date: April, 1946

Investigation of Geographic Names and Civil Bounderies by: L. E. Ervast, Photo. Aid date: June, 1946

RECORD SHEET

Div. of Photogrammetry
Graphic Compilation Sect.

Multnomah County, Oregon
GENERAL LOCALITY Clark County, Washington

LOCALITY Hewlett Point, Washington

SHEET NO. T-8668

PROJECT NO. CS-322

SCALE 1:8000

PHOTOS ORDERED Aug. 1945 REC'D 1-21-46
9-24, 9-26, & 10-1-45

PROJECTION ORDERED May 1946 REC'D 6-4-46

Joins T-8664 Ck ✓

Joins T-8667 Ck ✓

Joins T-8669 Ck ✓

Joins T-8672 Ck ✓

CONTROL:
COMPUTED R. Foster VERIFIED E. Bunce

PLOTTED Bushnell VERIFIED Bunce

PHOTO PREPARATION:
CONTROL Bushnell, Foster & Bunce

AZIMUTHS Davidson

PASS POINTS Bunce

TEMPLETS Sherwood VERIFIED Harris

DATE OF PHOTOS See reverse side

RADIAL PLOT:
PLOTTED BY Harris DATE 10-7-46

VERIFIED Deal DATE 10-11-46

TIME OF PHOTOS "

STAGE OF TIDE "

COMPILATION:
DETAIL POINTS Turner DATE 10-16-46

DETAIL BY Turner DATE 11-5-46

VERIFIED BY Davidson DATE 11-29-46

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

Due to scale difference only a visual comparison was made with the USGS Hillsboro, Oregon - Washington 15 min. quadrangle, Scale: 1:62500. There are many changes in the pond, lake and marsh areas shown on the quadrangle due to extensive drainage operations on Sauvie Island. In general roads and other planimetric detail are in agreement. Comparison was made with a black line print on clear (over)

REMARKS

All corrections and additions which were found during the field edit were applied to the map manuscript. A final compilation office review was then made.

FORWARDED TO Washington Office DATE January 14, 1947

R. A. Earle
Chief of Party

M-2305-12

acetate of Topographic Survey No. 6572, of October, 1937, Scale: 1:10000 enlarged to a scale of 1:8000. The west shoreline of the Columbia River is in excellent agreement. The following differences were noted along the east shoreline of the Columbia River:

At Latitude	45° 41' 42"	shoreline has eroded.
" "	45° 41' 24"	inlet has cut through forming island.
" "	45° 41' 15"	the shoreline of island has eroded.
" "	45° 41' 00"	a small cove has filled considerably.
" "	45° 40' 28"	the shoreline has built up.
" "	45° 40' 18"	rounded point has eroded.
" "	45° 39' 30"	shoreline has changed shape and built up due to dumping of spoil.

Comparison was made in the same manner with Survey No. 6618a. The east shoreline of the Willamette River has eroded at Latitude 41 39' 15". The west shoreline of the Willamette River is building up at Kelley Point.

Comparison was made with Nautical Chart No. 6154, by use of the vertical projector. There are many differences, the most important of which are:

1. The pond and marsh areas, which have been reclaimed on Sauvie Island.
2. The building up and erosion of the Columbia River shorelines.
3. The changes in road alignment.

In general, other features are in fair agreement.

PHOTOGRAPH DATA

Number	Date	Time	Scale	Stage of Tide
			1:17000 contact	
627 to 631 Inc.	6-30-45	14:45	1: 8000 ratio	11.9 ft. above M.L.W.
666 to 670 "	7- 1-45	10:15	"	11.7 ft. " "
3564 to 3568 "	11-21-45	14:45	"	4.9 ft. " "
3573 to 3576 "	11-21-45	14:15	"	4.9 ft. " "
3593	11-21-45	14:45	"	4.9 ft. " "
3650 to 3653 "	11-21-45	15:45	"	5.0 ft. " "
1399 to 1410 "	7-10-45	10:30	1: 5000 contact	9.9 ft. " "
874 to 875	7- 1-45	13:40	"	11.7 ft. " "
3643 to 3645 "	11-21-45	15:00	1:17000 contact 1: 8000 ratio	4.9 ft. " "

Form T-1

DATA RECORD

T- 8668

Quadrangle (II): Hewlett Point, Washington (3 minute) **Project No. (II):** CS-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)** Div. Phtg. Office Files

Completed survey received in office: 21 January, 1947

Reported to Nautical Chart Section: ✓

Reviewed: 23 May, 1947 **Applied to chart No.** **Date:**

Redrafting Completed: 30 June 1947

Registered: ~~27~~ Oct 1947 **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): HEWLETT POINT (WASH.), 1937 r 1945

Lat.: 45° 40' 52.289" (1614.3m) **Long.:** 122° 45' 58.771" (1271.9m) **Adjusted** X **Unadjusted**

State Plane Coordinates (VI):

X = **Y =**

Military Grid Zone (VI)

* (M.L.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.

9/47

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
			1:17000 contact	
627 to 631 Inc.	6-30-45	14:45	1: 8000 ratio	11.9 ft. Above M.L.W.
666 to 670 "	7- 1-45	10:15	"	11.7 ft. " "
3564 to 3568 "	11-21-45	14:45	"	4.9 ft. " "
3573 to 3576 "	11-21-45	14:15	"	4.9 ft. " "
3593	11-21-45	14:45	"	4.9 ft. " "
3643 to 3645 "	11-21-45	15:00	"	4.9 ft. " "
3650 to 3653 "	11-21-45	15:45	"	5.0 ft. " "
1399 to 1410 "	7-10-45	10:30	1: 5000 contact	9.9 ft. " "
874 to 875	7- 1-45	13:40	"	11.7 ft. " "

Tide from (III): Daily readings of the U.S. Engineers tide gauge located at Government Moorings on the west shore of the Willamette River just south of St. Johns Bridge. The 0 +00 of the gauge 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, focal length 12 inches

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

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

Date of Mean High-Water Line Location (III): November 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 made on November 21, 1945, were taken when the water level was 4.9 ft. above M.L.W.

Projection and Grids ruled by (III) Washington Office **date:** May, 1946

" " " **checked by:** Washington Office **date:** May, 1946

Control plotted by: Walter Bushnell **date:** Sept., 1946

Control checked by: Eda H. Bunce **date:** Sept., 1946

Radial Plot by: J. L. Harris & J. E. Deal **date:** Oct. 11, 1946

Detailed by: Albert C. Turner **date:** Nov. 5, 1946

Reviewed in compilation office by: Roy Davidson **date:** Nov. 29, 1946

Corrections and changes after field edit by: Ree H. Barron date: Jan. 9, 1947

Review after changes due to field edit by: J. E. Deal date: Jan. 10, 1947

Elevations on Field Edit Sheet checked by: Charles Hanavich, Topo. Engineer **date:** Dec., 1946

STATISTICS (III)

Land Area (Sq. Statute Miles): 6.4

Shoreline (More than 200 meters to opposite shore): 10 statute miles

Shoreline (Less than 200 meters to opposite shore): 5.0 statute miles

Number of Recoverable Topographic Stations established: (11 fixed aids to navigation and 1 topographic station)

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:	W. J. Bushnell, Photo. Aid	date: April, 1946
Shoreline Inspection by:	J. C. LaJoye, Prin. Photo. Aid	date: April, 1946
Recovery of Horizontal Control by:	J. H. LaJoye	date: Oct., 1945
Recovery of Vertical Control by:	J. H. Winniford, Photo. Aid	date: Sept., 1945
Investigation of Geographic Names and Civil Boundaries by:	L. E. Ervast, Photo. Aid	date: June, 1946

FIELD INSPECTION REPORT
QUADRANGLES T-8666, T-8667, & T-8668
PROJECT CS-322

1 to 25: All the information that is applicable to these side headings is given in the "Field Inspection Report, Project CS-322, Area of the Fourth Radial Plot", which was enclosed with the Descriptive Report for Quadrangles T-8669 and T-8670. This Descriptive Report has been submitted.

Approved by:

Robert A. Earle,
Chief of Party

Respectfully submitted:

Charles Hanavich,
Topographic Engineer

(3rd order) Junction, 1946

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 photo index, 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.	

January 1951

COMPILATION REPORT
MAP MANUSCRIPTS T-8666, T-8667 & T-8668
PROJECT CS-322

26. Control:

At the time this project was started there were sixty-seven horizontal control stations in the area of these three map manuscripts. Twenty-five of these stations were recovered and twenty were satisfactorily identified on the photographs for use in the radial plot. Eighteen of the identified horizontal control stations were located in the area of Map Manuscript No. T-8668 and the two others, which fall in the area of the other map manuscripts, were 29th Engineer stations and had not been included in any scheme of triangulation of the U. S. Coast & Geodetic Survey. In order to satisfactorily control the photographs, in the area of map manuscripts T-8666 and T-8667, the field unit established one permanent triangulation station in Quadrangle T-8667, and two temporary triangulation stations in Quadrangle T-8666. "Logie" and "Timber"

A complete tabulation of the horizontal control stations which were originally in the area of these three map manuscripts is attached to the "Field Inspection Report, Project CS-322, Area of the Fourth Radial Plot". This report was included with the descriptive report for Map Manuscripts T-8669 and T-8670 which was forwarded on 8 January 1947. → Filed in Div. Photogram. General Files, under "Special Reports."

The three new triangulation stations which were established in this area are listed in a tabulation attached to a special report, "Third-Order Triangulation and Traverse, Project CS-322, Area of the Fourth Radial Plot", which has been forwarded. → Filed in Library & Archives under G-6785

Station TEN (U.S.E.) 1904, r1945, was plotted by using the following Lambert Coordinates, Oregon North Zone:

X = 1,424,638.25 Y = 732,784.08

27. Radial Plot:

The facts concerning the radial plot for the area of these three map manuscripts have been fully covered in the "Descriptive Report, Fourth Radial Plot, Project CS-322". This radial plot report was included with the descriptive report for Map Manuscripts No's. T-8669 and T-8670, which was submitted to the Washington Office on 8 January 1947. → Filed in Div. Photogram General Files under "Special Reports."

28. Detailing:

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 November 21, 1945, were helpful in determining the high-water line and other shoreline details. They were not satisfactory for accurately determining the detail falling in the outer limits of the photograph 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 descrepancy 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, which are being forwarded with the map manuscripts, were used to supplement the photographs:

> Sheets 1, 2, 3, 8, 9, 10, 11, 12 and 13 of a set of 74 sheets published by the Multnomah County Assessor's Office, Scale: 1" = 600'.

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 November 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. Engineers low-water datum, which is 1.29 feet. above the 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 indicated some indefinite areas which bare at low-water. They have been shown enclosed in a dotted black acid ink line and appropriately noted. Approximate shoal lines have been shown by a light dashed black acid ink line as indicated by the field inspection unit.

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

There are no details offshore from the mean high-water line.

33. Wharves and Shoreline Structures:

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

34. Landmarks and Aids to Navigation:

Forms 567 are being submitted for the following fixed aids to navigation which have been investigated and, providing their position had not been previously established by triangulation methods, were located radially:

In the area of Map Manuscript No. T-8668:

MORGAN BAR LOWER RANGE REAR LIGHT
MORGAN BAR LOWER RANGE FRONT LIGHT
HEWLETT DIKE LIGHT
MORGAN BAR RANGE REAR LIGHT (new position)
MORGAN BAR RANGE FRONT LIGHT
MORGAN BAR DIKE "2" LIGHT
MORGAN BAR DIKE "5" LIGHT
MORGAN BAR DIKE "4" LIGHT
COON ISLAND RANGE REAR LIGHT
COON ISLAND RANGE FRONT LIGHT
WILLAMETTE RIVER LIGHT (new position)
WILLAMETTE RIVER ENTRANCE LIGHT (triangulation station)
MORGAN BAR DIKE DAYBEACON #1 (" ")
MORGAN BAR DIKE DAYBEACON #2 (" ")

In the area of Map Manuscript No. T-8667, Forms 567 are being submitted for the deletion of the following Nautical and Aeronautical Landmark:

AERO (on Sauvie Island) -- Demolished

35. Hydrographic Control:

No additional hydrographic stations were established along the Columbia River as a sufficient number of existing horizontal control stations and fixed aids to navigation had been recovered or located to comply with the instructions. Several recoverable topographic stations were established along Multnomah Channel for use during future hydrographic surveys.

36. Landing Fields and Aeronautical Aids:

There are no landing fields within the area of these three map manuscripts. Forms 567 is being submitted for Aeronautical Aid "AERO" (on Sauvie Island), which has been destroyed.

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 Fourth Radial Plot", which was forwarded on 8 January 1947. (Filed in Geographic Names Section, charts)

38. Recoverable Topographic Stations:

Copies of Forms 524 are being submitted for the following:

In the area of Map Manuscript No. T-8666:

BRICK CHIMNEY, 1946
TRES, 1947 dolphin
PTS10, (USGS), Ore. B, 1914, 1946
T 2N R 1W-2W Section Corner 7-12-13-18, 1946
T 2N R 2W Section Corner 11-12-13-14, 1946
T 3N R 2W Section Corner 1- 2-11-12, 1946
Witness Corner to Meander Corner A. M. McQuinn D.L.C., 1946
Witness Corner to Meander Corner ¼ Section Corner, not ¼ corner.
T 2N-3N R 1W, 31 - 6, 1946.
T 2N R 1W, ¼ Section Corner 1 - 12, 1947
DOLP, 1947
DAN, (1938), 1946. — = BM. Z-14

Form 524 is also being submitted for WILL, 1938, which could not be found. It is recommended that the station be considered lost.

In the area of Map Manuscript No. T-8667:

FERRY (1938), 1946
T 2N R 1W Section Corner 4-5-8-9, 1946
S.E. Corner Alexander McQuinn, D.L.C., 1946
Witness Corner to Meander Corner of Jacob Cline, D.L.C., 1946

In the area of Map Manuscript No. T-8668:

RIP (U.S.E.) (1941), 1946 (dolphin (d))
The eleven fixed aids to navigation, which are not triangulation stations, were previously listed in paragraph 34 of this descriptive report.

Special Report:
Investigation of Boundary Monuments and Lines... Area of Fourth Radial Plot. Filed in Div. Photogram. Gen. Files under "Spl. Repts."

39. Junctions:

Complete and satisfactory junctions have been made between Map Manuscripts No's. T-8666, T-8667 and T-8668, and with adjoining map manuscripts.

40. Bench Marks:

Bench marks have been detailed as identified by the field inspection units. Each bench mark is indicated by a black acid ink cross with the name and elevation to the nearest 1/10 ft. lettered nearby.

41. Donation Land Claims and Section Lines:

Donation land claim and section lines were located on ozalid prints of the map manuscripts after the initial compilation had been completed. These lines, with pertinent explanatory notes, were placed on the prints in red and purple ink respectively, by the field party, and were then traced on the map manuscripts by the compilers. The ozalid prints containing these lines are being forwarded.

Filed with map manuscript.

44. Comparison with Existing Topographic Surveys:

See record sheet which accompanies each map manuscript.

45. Comparison with Nautical Charts:

See record sheet which accompanies each map manuscript.

Approved and forwarded:

Robert A. Earle
Chief of Party

Respectfully submitted:
January 8, 1947

J. Edward Deal Jr.

J. Edward Deal, Jr.
Photogrammetric Engr.

FIELD EDIT REPORT
QUADRANGLES T-8666, T-8667, and T-8668
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 the 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 accurate, also in regard to relative position.

Any omissions or drafting of detail that seemed to be questionable was called to the attention of the Compilation Office by notes. Several buildings, roads, and drainage ditches, which were recently constructed, were located by planetable methods or field measurements on field photographs or the ozalid prints. Large areas of wooded marsh were found to have been cleared when the ditches were constructed with the result that several intermittent and perennial ponds were drained. The names of roads which were indicated on the prints were obtained from official road signs. Other minor changes, omissions, and deletions were noted and corrected.

All the shoreline features could not be checked because of the extreme high-water level brought about by an out of season flood. It is to be noted that the various low land areas, unprotected by dikes and noted on the field edit sheets, become flooded during the annual freshets or out of season floods. For additional information refer to side headings 1 and 7 of the "Field Inspection Report, Area of the Fourth Radial Plot, Project CS-322".

In accordance with the field edit instructions, map manuscripts No'd. T-8666 and T-8668 were examined for completeness and accuracy in regard to geographic names, boundaries, public land lines, and detail by Mr. Bernard Morris, County Surveyor of Clark County, Vancouver, Washington.

Mr. Wm. Norris, District Engineer for the Sauvie Island Soil Conservation District, examined T-8667 for similar data. The geographic names in this area have been reviewed by Mr. Lewis A. McArthur, Collaborator for the U. S. Coast & Geodetic Survey.

48. Accuracy Tests:

No horizontal accuracy tests were run in this area. For map accuracy tests near the area of these map manuscripts refer to the field edit reports for Quadrangles T-8675 and for T-8679 to T-8681 inclusive.

49. Bench Mark Elevations:

The elevations of the bench marks shown on these sheets have been checked. Some of the elevations of the USC & GS bench marks are unadjusted elevations and are subject to correction when adjusted.

50. Donation Land Claims and Section Lines:

Donation land claims and section lines were located on additional ozalid prints of the map manuscripts by a special field party after the initial compilation had been completed. These lines were indicated in red and purple ink, respectively, and supplemented, if necessary, by explanatory notes. These additional ozalid prints will be submitted with the field edit sheets.

Field Edit reviewed by:

Charles Hanavich,
Topographic Engineer

Field Edit by:

F. H. Elrod,
Prin. Photo. Aid

Approved by:

R. A. Earle,
Chief of Party

Division of Photogrammetry

Review Report of

Map Manuscript T-8666

Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.

41. Donation Land Claim and Section Lines.

Several changes have been made to the land lines on this manuscript which are shown in blue pencil on the map manuscript. The recommended changes have been referred to the Portland Photogrammetric Office for verification. When approved by the photogrammetric office the manuscript will be corrected.

44. Comparison with Existing Topographic Surveys.

Comparisons were made with the following:

A. Previous Surveys:

T-6617a, b 1:10,000 1938

B. Quadrangles:

U.S.G.S., Hillsboro, Ore.-Wash., 15', 1:62,500, 1920

U.S.E., Hillsboro, Ore.-Wash., 15', 1:62,500, 1939

The planimetry in common areas is superseded by T-8666.

A description of comparisons appears on the Record Sheet attached to the descriptive report.

45. Comparison with Nautical Charts.

Chart 6154 1:40,000 1945

The bluff along the shore of Multnomah Channel and the 30 ft. dike on the east shore of this channel opposite Rocky Point ~~is~~ are not shown on the chart.

Other comparison notes appear on the Record Sheet attached to the descriptive report.

This manuscript has not been applied to nautical charts.

Reviewed by:

Lena T. Stevens
Lena T. Stevens
Photogrammetrist
3 June 1947

Reviewed under direction of:

S. V. Griffith
S. V. Griffith
Chief, Review Section

APPROVED BY:

B.J. Jones 12/47
Technical Assistant to the
Chief, Div. of Photogrammetry

Chief, Nautical Chart Br.
Division of Charts

K.T. Adams
Chief, Div. of Photogrammetry

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

Division of Photogrammetry

Review Report of

Planimetric Map T-8667

Subjects not used in this review report have been adequately covered in other parts of the descriptive report.

41. Land Lines.

A. Donation Land Claims

Several boundary lines have been re-drawn to agree with General Land Office plat distances and angles and from evidence of lines on the photographs:

1. East line of James Taylor moved westward 975+ feet.

2. North line of Isabella Logie moved northward 96± feet.

3. South line of Jacob Cline altered in position and direction.

4. Boundaries of Mathew White re-drawn.

5. North and west lines of Ellis Walker re-drawn.

6. Meanders for Leonard Jewett put on map.

7. Meanders for Horace McIntire put on map.

8. The west line of section 17 has been changed, which also changed the east line of Wm. Baker.

B. Section Lines

Section corner 3-4-9-10 is listed as recovered, but recovery forms were not submitted by the field party. ~~and~~ No other evidence of field recovery was submitted.

Changes in Donation Land Claim boundaries necessitated changes in section lines. Particular attention is called to the line T3N - T2N.

Every Donation Land Claim measurement indicates that this line falls farther ~~south~~ on T-8667 (and western T-8668), thus making the curve in the line considerably less.

43. Comparison with Previous Topographic Surveys.

6617b 1:10,000 1938

(See Record Sheet for details.)

44. Comparison with Existing Topographic Quadrangles.

USGS, Hillsboro, Oreg.-Wash., 1:62,500 rep. 1920
USE " " " " 1939

(See Record Sheet.)

The map manuscript supersedes the quadrangles, in their common area, in planimetric and shoreline detail, and contours are changed in large areas which have been reclaimed.

45. Comparison with Nautical Chart. (See Record Sheet)

6154 1:40,000 1945 ed.

Submarine cable crossing at ferry northeast of Burlington is not indicated on the nautical chart.

This map manuscript has not been applied to chart 6154 as of the date of this review.

Reviewed by:

Lena T. Stevens
Lena T. Stevens
Photogrammetrist
19 May 1947

Reviewed under direction of:

S. V. Griffith
S. V. Griffith
Chief, Review Section

APPROVED BY:

B.G. Jones 12/47
Technical Assistant to the Chief, Div. of Photogrammetry

[signature]
Chief, Nautical Chart Br.
Division of Charts

K.T. Adams
Chief, Div. of Photogrammetry

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

Division of Photogrammetry

Review Report of

Planimetric Map Manuscript T-8668

Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.

41. Donation Land Claim and Section Lines.

Changes made to the Donation Land Claim lines have been shown in purple crayon on an ozalid print of T-8668 submitted to the Portland Photogrammetric Office for approval. When approved the lines will be drafted on the manuscript.

Changes made to section lines have been shown on the ozalid in brown crayon. Section corners, 2-3-10-11 and 10-11-14-15 have been relocated from General Land Office plat data.

44. Comparison with Existing Topographic Surveys.

Comparisons were made with the following, (A) Previous Surveys and (B) Quadrangles, and the planimetry in all common areas is superseded by T-8668:

A. Previous Surveys

T-6572	1:10,000	1937
T-6618	1:10,000	1938

B. Quadrangles

U.S.G.S. Hillsboro, Oreg.-Wash., 15', 1:62,500, 1920

U.S.E. Hillsboro, Oreg.-Wash., 15', 1:62,500, 1939

An adequate description of these comparisons appears on the Record Sheet attached to this descriptive report.

45. Comparison with Nautical Charts.

Comparison made with the following nautical chart has been adequately described on the Record Sheet:

6154 1:40,000 1945

This map manuscript has not been applied to nautical charts.

Reviewed by:

Lena T. Stevens
Photogrammetrist
26 May 1947

Reviewed under direction of:

S. V. Griffith
Chief, Review Section

APPROVED BY:

B.J. Jones 12/47
Technical Assistant to the
Chief, Div. of Photogrammetry

Chief, Nautical Chart Br.
Division of Charts

K.T. Adams
Chief, Div. of Photogrammetry

Chief, Div. of Coastal
Surveys

April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Project CS-322
T-8667
(Nautical & Aeronautical)

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

~~TO BE CHARTED~~ / TO BE DELETED — STRIKE OUT ONE

Portland, Oregon — January 8, 1947

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 OREGON

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° ′	LAT. D.M. METERS	POSITION LONGITUDE ° ′	LONG. D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
AERO	Aeronautical Beacon on Sauvie Island about 0.4 mile N.E. of Reeder Rd. and Sauvie Island Road	AERO	45 39	748.0	122 50	46.0	N.A. 1927	Scaled from Chart	1-4-47		X		6154
	NOTE: This aeronautical beacon has been demolished.												

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.

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Project CS-322
T-8668

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED / TO BE DELETED — STRIKE OUT ONE

Portland, Oregon January 6, 1947

The following fixed aids to navigation ~~recommended 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.W. Neal

R. A. Earle *Chief of Party.*

STATE: OREGON AND WASHINGTON

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° ′	LATITUDE D.M. METERS	LONGITUDE ° ′	LONGITUDE D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
LIGHT	Morgan Bar Lower Range Rear F. W.	LIGHT	45 41	(739.7) 1112.7	122 46	(543.0) 755.3	N.A. 1927	Radial Plot	5-8-46		X		6154
"	Morgan Bar Lower Range Front Fl. W., 5 seconds	"	45 41	(971.8) 880.6	122 46	(579.3) 719.0	N.A. 1927	"	"		X		"
"	Hewlett Dike Fl. R., 4 seconds	"	45 41	(1526.1) 326.3	122 46	1197.8) 100.6	N.A. 1927	"	8-27-45		X		"
"	Morgan Bar Range Rear F.W. (Light moved, new position)	"	45 40	(6.0) 1846.4	122 46	(455.5) 843.0	N.A. 1927	"	11-1-45		X		"
"	Morgan Bar Range Front, F.W. 5 sec.	"	45 40	(317.7) 1538.7	122 46	(571.1) 727.4	"	"	5-8-46		X		"
"	Morgan Bar Dike "2", Fl.R., 4 sec.	"	45 40	(1093.4) 759.0	122 46	(740.6) 558.0	"	"	"		X		"
"	Morgan Bar Dike "5", Fl.W., 4 sec.	"	45 40	(1687.2) 165.2	122 45	(316.1) 982.7	"	"	10-22-45		X		"
"	Morgan Bar Dike "4", Fl.R., 4 sec.	"	45 39	(227.6) 1624.8	122 46	(1065.6) 233.2	"	"	5-8-46		X		"
"	Coon Island Range Rear, F.R.	"	45 39	(636.7) 1215.5	122 46	(1019.5) 279.6	"	"	"		X		"
"	Coon Island Range Front, F. W.	"	45 39	(756.1) 1096.3	122 46	(1194.7) 104.4	"	"	"		X		"
"	Willamette River (new position) Gp. Occ. W., 12 seconds	"	45 39	(1401.3) 451.1	122 45	(411.0) 888.1	"	"	11-8-45		X		"
"	Willamette River Entrance, R. R.	"	45 39	(1473.3) 379.1	122 46	(1295.8) 3.5	"	Triangulation	1938		X		"
BEACON	Morgan Bar Dike Daybeacon #1	BEACON	45 40	(217.9) 1634.5	122 46	(1182.6) 115.9	"	"	1937		X		"
"	Morgan Bar Dike Daybeacon #2	"	45 40	(969.7 882.7	122 45	(74.1) 1224.5	"	"	1937		X		"

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.

GEOGRAPHIC NAMES

Survey No.
T-8666-67-68

1 Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
(Each Sheet Separately)										1
T-8666:										2
Oregon										3
Multnomah County										4
Multnomah Channel										5
Spokane Portland and Seattle										6
U.S. No.. 30 Columbia River Highway: ~~also~~ St Helens Road										7
Bonneville Power Administration Transmission Line										8
Holbrook										9
~~Holbrook School~~ with T-8667										10
Holbrook Farm										11
Sauvie Islamd										12
Cornelius Pass Road										13
Logie Trail										14
~~Honeyman Lake Morgan~~ Brix Road										15
Honeyman Lake										16
Morgan Road										17
~~Hist. Mon. for Fort William~~			x							18
Site of Fort William										19
P G E Power Line (several places)										20
Wildwood Golf Course										21
Sauvie Island Road										22
Rocky Point Road										23
Lucy Reeder Road										24
~~Skyline Boulevard~~ (not shown on manuscript, but cuts across its SW corner)										25
Rocky Point										26
										27

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GEOGRAPHIC NAMES

Survey No. T-8666, T-8667, T-8668

	2 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	
V	T-8667:										1
V	Oregon										2
V	Multnomah County										3
V	Multnomah Channel										4
V	Sauvie Island										5
V	U.S. No. 30	(space here only for that name)									6
V	Spokane Portland & Seattle										7
V	Holbrook School										8
V	McCarty Creek										9
V	P G E Power Line										10
V	Sauvie Island Road										11
V	Reeder Road										12
V	Gilliham Loop Road										13
V	Oak Island Road										14
V	Sauvie Island School and Church										15
V	Sauvie Island Soil Conservation District										16
V	Lucy Reeder Road										17
V	Gilbert River										18
V	Sturgeon Lake										19
V	Charlton Road										20
V	Oregon State Game Commission Building										21
V	T-8668:										22
V	Oregon										23
V	Multnomah County										24
V	Washington										25
V	Clark County										26
V	Columbia River										27

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GEOGRAPHIC NAMES

Survey No.

T-8666-67-68

3 Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
T-8668 (continued):										1
Willamette River										2
Willamette River Light										3
Willamette River Entrance Light										4
Kelley Point										5
Belle Vue Point										6
Gillihan Loop Road										7
P G E Power Line										8
Coon Island Range Front Light										9
Coon Island Range Rear Light										10
Morgan Bar Dike 4 Light										11
Morgan Bar Dike 5 Light										12
Morgan Bar Dike 2 Light										13
Morgan Bar Range Front Light										14
Morgan Bar Range Rear Light										15
Morgan Bar Lower Range Front Light										16
Morgan Bar Lower Range Rear Light										17
Dairy Creek										18
Reeder Road										19
Sturgeon Lake										20
Washington Side of river:										21
Shillapoo Lake										22
Hewlett Point										23
Hewlett Dike Light										24
Morgan Bar Dike Beacon No. 1										25
Morgan Bar Dike Beacon No. 3										26
Blurock Landing										27

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GEOGRAPHIC NAMES

Survey No.

T-8666-67-68

4 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	
T-8668 (continued):										1
Lower River Road										2
Lower Ferry Road	?									3
										4
										5
										6
										7
										8
										9
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										25
										26
										27

Names underlined in red approved by L. Heck on 4/28/47

M 234

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
c/o Swan Island Postal Station
Portland 18, Oregon

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

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17 June 1947

To: Chief, Division of Photogrammetry
U. S. Coast & Geodetic Survey
Washington 25, D. C.

From: Lt. Comdr. R. A. Earle

Subject: Review of Map Manuscript T-8666

Reference: Your Letter, 78-RCR, dated 10 June 1947

In accordance with the above reference notes, pertaining to the changes made in your office in the position of land lines, were placed on the ozalid prints of Map Manuscript T-8666.

As in the case of many other map manuscripts, you attention is respectfully called to the fact that the exact location of many of these land lines is exceptionally doubtful. While in most cases we can check your location by the G.L.O. plats, this office does not feel the original location was necessarily wrong, as the G.L.O. plats contain many errors and the field man who actually made a field investigation of these lines may have had excellent reasons for placing the lines in a slightly different position. This office does not have the personnel to make a new field investigation of these lines, therefore, we are accepting them provided they are not in conflict with County and City Surveys.

R A Earle

R. A. Earle
Chief of Party

RAE/gw

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c/o Swan Island Postal Station
Portland 18, Oregon

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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

2 June 1947

To: Chief, Division of Photogrammetry
U. S. Coast & Geodetic Survey
Washington 25, D. C.

From: Lt. Comdr. R. A. Earle

Subject: Review of Map Manuscript T-8667

Reference: Your Letter, 78-RCR, dated 21 May 1947

In accordance with the above reference, Mr. Deal, of this office made a complete re-investigation of the land lines falling in the area of Map Manuscript T-8667. The Section and Township Lines, as accepted in this area, are shown in green ink on the ozalid print. Mr. Deal's report on the re-investigation of these lines is attached herewith.

R A Earle

R. A. Earle
Chief of Party

RAE/gw

FOR VICTORY
BUY
UNITED STATES
WAR
BONDS
AND
STAMPS

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
c/o Swan Island Postal Station
Portland 18, Oregon

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

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2 June 1947

MEMORANDUM

To: Lt. Comdr. R. A. Earle

From: J. Edward Deal, Jr.

Subject: Reinvestigation of Land Lines in the Area of Map Manuscript T-8667

In accordance with your instructions, I have made a complete reinvestigation of the land lines in the area of Map Manuscript T-8667 and find the following:

The movement in the section and township lines, as suggested by the review in the Washington Office, is partly the result of changes which we have previously verified on map manuscripts to the south and east. While some of the changes are necessary to make proper junctions, I find that the reviewer is trying to adhere strictly to the G.L.O. plats and attempting to use a system of straight lines in his recommendations for the location of the section and township lines in this area. As has previously been explained this cannot be done as measurements established by surveys and conditions existing on the ground must be considered along with the G.L.O. plats.

I have shown in green ink on an ozalid print of T-8667 the section and township lines as they are accepted in this area. The lines have been carried forward from recommendations made recently by this office for T-8671 to the south. Also a satisfactroy junction has been made with T-8663, T-8666, and T-8668 by tying into known monumented points falling in these three map manuscripts. They were plotted from all available data, always attempting to reconcile the survey data to the G.L.O. plat data if possible. It is apparent that many of the sections are irregular in shape but this condition was only shown when the section line fell on planimetric detail shown on the map manuscript.

Upon examining the changes to the donation land claim lines suggested by the reviewer and shown on the ozalid print in red crayon pencil, it is apparent that there must be data and measurements for these claims on file in the Washington Office which was not furnished the compilation office and also not available at any of the departments of

78-RCR

4 June 1947

TO: Lt. Comdr. Robert A. Earle
U. S. Coast and Geodetic Survey
c/o Swan Island Postal Station
Portland 18, Oregon.

Subject: Review of map manuscript T-8668

All land lines on map manuscript T-8668 have been verified except those shown in crayon on the enclosed ozalid print.

Section line changes have been shown in brown crayon. The adjustment of corners 13-14-23-24 and 14-15-22-23 on map manuscript T-8672, approved by your office, necessitated the adjustment of corners 10-11-14-15 and 2-3-10-11 on this manuscript.

Donation Land Claim line changes have been shown in purple crayon on the ozalid print. A discrepancy exists in the line between the Horace McIntire D.L.C. and the Leonard Jewett D.L.C. The original meanders have been reconstructed for these tracts around a former lake. Evidently an arbitrary line now separates these tracts across the former lake. Please provide the information pertaining to this line. Our source material affords no information other than the meander line depicted on the ozalid.

It is requested that you verify or correct our interpretations, at your earliest convenience, and return the ozalid so that smooth drafting on these features may be completed.

Edmund L. Jones
Encls. Acting Chief, Div. of Photogrammetry

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
c/o Swan Island Postal Station
Portland 18, Oregon

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FOR VICTORY BUY UNITED STATES WAR BONDS AND STAMPS

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17 June 1947

To: Chief, Division of Photogrammetry
U. S. Cosat & Geodetic Survey
Washington 25, D. C.

From: Lt. Comdr. R. A. Earle

Subject: Review of Map Manuscript G-8668

Reference: Your Letter of 4 June 1947

In accordance with the above reference, notes, pertaining to the movement of land lines in your office, were placed on the attached copy of the ozalid print of Map Manuscript T-8668.

1 filed with map manuscript

RAEarle

R. A. Earle
Chief of Party

RAE/gw

NAUTICAL CHARTS BRANCH

SURVEY NO. T8666, 8667, 8668

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
5/25/48	6154	Pisegani	T8666 8667 8668. ~~Before~~ After Verification and Review Part. applies.
22 Sept 49	6155	Nichols	~~Before~~ After Verification and Review
			T-8668 completely applied.
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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			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.