8815

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. Office No. T-8815

LOCALITY

State OREGON

General locality Willamette River

Locality Lincoln, Polk County, Oregon

1947

CHIEF OF PARTY

R. A. Earle

LIBRARY & ARCHIVES

DATE SAMURY 28, 1948

B-1870-1 (1)++

RECORD SHEET

Div. of Photogrammetry Graphic Compilation Sect.

GENERAL	LOCALITY	WILLA	METTE	RIVER,	OREGON
LOCALITY	Lincoln,	Polk (County,	Oregon	ı
		0.7			- 0.0

PHOTOS ORDERED Dec., 1946 REC'D 14 Jan. 1947
PROJECTION ORDERED Dec., '46 REC'D 3 Feb. 1947

CONTROL:

COMPUTED Harris VERIFIED Davidson
PLOTTED Harris VERIFIED Barron

PHOTO PREPARATION:

CONTROL Harris

AZIMUTHS Davidson

PASS POINTS Letson

TEMPLETS Barron VERIFIED Harris

RADIAL PLOT:

PLOTTED BY Harris DATE 5-9-47

VERIFIED Deal DATE 5-12-47

COMPILATION:

DETAIL POINTS Elrod DATE 5-27-47
M. Elrod, Interior

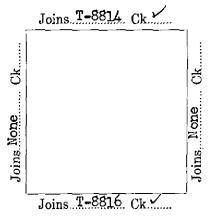
DETAIL BY F. Elrod, Shore DATE 8-5-47

VERIFIED BY R. H. BarronDATE 8-26-47

SHEET NO. T-8815

PROJECT NO. Ph-13(46)

SCALE 1:10,000



DATE OF PHOTOS 8-9-46

TIME OF PHOTOS 12:32 to 13:10

Pacific Standard Time

STAGE OF TIDE Water Level is a gradient between the elevations above M.S.L. of the zero of the U.S.E. river gages.

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

Due to a scale difference only a visual comparison was made with portions of the USGS McMinnville, Mount Angel, Salem and Stayton, Oregon 15 min. quadrangles, Scale, 1:62500. In general the planimetry which is common to the map manuscripts and quadrangle map is in good agreement. The water level of the quadrangle maps is higher than that of the map manuscript. Several unimproved roads shown (over)

REMARKS.

Complete planimetric detail along both shores of the Willamette River and within a zone averaging 300 meters in width on each side of the river has been compiled. Inshore from the area only skeleton details are shown.

FORWARDED TO Washington Office DATE 24 September 1947

R. A. Earle Chief of Party

COMPARISONS (CONTINUED)

on the quadrangle maps were deleted on the field photographs by the field unit and therefore, do not appear on the map manuscript. The eastern part of an improved road, which lies southeast of Keizer School and was shown on the Salem, Oregon Quadrangle Map, was not found by the field unit and cannot be identified on the photograph. The Salem, Oregon Quadrangle Map erroneously shows Oregon State Highways No. 219 and 221 as U. S. Highways.

There are no nautical charts of the area.

DATA RECORD

T- 8815

McMinnville, Mount Angel,
Quadrangle (II): Salem, and Stayton, Oregon Pro
(USGS 15 min.)

Project No. (II): Ph-13(46)

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

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

Instructions dated (II III): 8 October 1946 Copy filed in Descriptive of Photo-Supplemental Instructions: 4 November 1946 Report No. T (VI) Div of Photo-Stammed (VI) Div of P

Completed survey received in office: 9/29/47

Reported to Nautical Chart Section: /0/i/47

Reviewed: ///3/47 Applied to chart No. —

Date: -

Redrafting Completed:

Registered: 12/26/47

Published:

Compilation Scale: 1:10,000

Published Scale:

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): * See below

Reference Station (III): CURLY, 1940 r 1946

Lat.: 44° 59' 56.585" (1747.1) Long.: 123° 04' 36.496" (799.4) Adjusted X Unadjusted

State Plane Coordinates (VI): OREGON NORTH ZONE (ruled in red on the manuscript)

X = Y =

Military Grid Zone (VI)

77.6

The adopted water plane is a gradient between 95.5 ft. above M.S.L. (the zero of the river gage at Middle Windser Island) and 105.2 ft. above M.S.L. (the zero of the river gage at Upper Mosquito Bar). All bench mark elevations are referenced to M.S.L. and are on the Standard 1929 general adjustment of leveling in the U.S.A.

PHOTOGRAPHS (III)

	Number	Date	Time	Scale	Stage of Tide
	NINE LENS				WATER LEVEL
)	17287 & 17288 17296 to 17298 Inc. 17314 & 17315	Ħ	12:33 P.S.T. 12:47 13:10	ET 17	The water level of the photographs is believed to be close to the adopted water plane.

Tide from (III): None

Mean Range: None Spring Range: None

Camera: (Kind or source) U.S.C.& G.S. Nine lens,

Focal length 8.25 inches

Field Inspection by: J. C. LaJoye (Shoreline) date:April, 1947
J. Winniford (Interior & March, 1947

Winniford (Interior & March, 1947 Geographic Names) Feb., 1947

Field Edit by: None date:

Date of Mean High-Water Line Location (III): April, 1947

Projection and Grids ruled by (III) Washington Office date: January, 1947

" " checked by: Washington Office date: January, 1947

Control plotted by: James L. Harris date:April, 1947

Control checked by: Ree H. Barron date: April, 1947

Radial Plot by: J.L. Harris & J.E. Deal date: May 12, 1947

Frank Elrod, Shoreline

Detailed by: Marie Elrod, Interior date: August 5, 1947

Reviewed in compilation office by: Ree H. Barron date: August 26, 1947

Elevations on Field Edit Sheet checked by: Nove

date:

985

STATISTICS (III)

Iand Area (Sq. Statute Miles): 6.0 sq. mi. (complete detail)
21.6 " (skeleton detail)

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

Shoreline (Less than 200 meters to opposite shore): 7.0 statute mi. (measured along centerline of rivers)

Number of Recoverable Topographic Stations established: 7

Number of Temporary Hydrographic Stations located by radial plot: 35

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:

STATION .	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUD	E OR u.C	LATITUDE OR \$\mu\$-COORDINATE LONGITUDE OR \$\pi\$-COORDINATE	DISTANCE FR OR PROJECTIO FORWARD	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN WETERS FORWARD (BACK)	R. Elija R. K.S. - parton-digment - parom-gridon - posedijen - posedijen - posedijen - posedijen
ASH (USE),1935										Not searched for
PTS 25 RESET 1 USGS, 1936-37 0	USE Adj. in Comp. Office	N.A. 1927	45°	011	10,988"	339.2	(1513.0)			Used in Rad.Pl.
PTS 2 (USGS) 1924										Not searched for
IDL (USE), 1935										Not searched for
HEP (USE), 1935										Not searched for
JAT (USE), 1936 . 10	USE Adj. in Comp.	N.A. 1927	450	021	07.211"	222.6	(1629.6)			Used in Rad. Fl.
curi, 1940 G	G 4774 page 337	=	44° 123	591	56.585" 36.496	1747.1	(105.4)			Used in Rad. Pl.
CAL (USE), 1936										Not searched for
PTS 24 (USGS) (USE), 1936										Not searched for
PTS 1 (#SGS) . W	USE Adj. in Comp. Office	=	123	591	31.966	1520,1	(332.1)			Used in Rad. Pl.
VKEIZER, 1946 . Ba	G 6734 page 879	=		591	28.166" 43.857	869.5	(982.7)			Used in Rad. Pl.
URLE (USE), 1936							,			Not searched for

		3	10000					***************************************		
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUE)E OR y-(LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FRC OR PROJECTION FORWARD	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	REMARKS TAGOR DISTANCE FROM SRU OK PROSECTION TINE IN METERSFORWMENTFRACKT-
CHEMAWA, US INDIAN	47774 B	N A	450	100	10.07"	310.9	(1541.3)			Used in Rad. Pl.
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CHEMAWA, US INDIA	= 3 2 2	=	450	00	192.10	24.3	(1797.9)			= =
1940				59	35.43	0.944	(538.2)			
WOOD (USEA), 1934-1936										Not searched for
BROOKS, 1940	G 4774	=	450	021	18,509"	571.4	(1280.8)			Used in Rad. Pl.
	534			57	42,139	922.3	(390.9)			
XOPE (USE), 1934										Mat Codomon Hall
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COMPUTED BY. J. I. Harris	Harris		DATE MA	March, 1947	276		cuerken av R. A. Davidson	Davidson	March	M-2368-12
										177

FIELD INSPECTION REPORT Sheet T-8815 Project Ph-13(46)

1 to 25: All information that is applicable to these side headings is given in the "Field Inspection Report Sheets T-8812 to T-8816 inclusive, Project Ph-13 (46)." This report was included in the "Descriptive Report" for Sheet T-8812, which has been forwarded.

Al Earle
R. A. Earle

Chief of Party

COMPILATION REPORT Map Manuscript T-8815 Project Ph-13(46)

26. Control:

Eight horizontal control stations were recovered and satisfactorily identified by the field unit in the area of this map manuscript. They were well spaced and were adequate for use in controlling the photographs during the running of the radial plot.

The geographic positions of several traverse stations in the area which had been established or relocated by the U.S. Engineers, were readjusted in the following manner:

The differences between the positions published by the U.S. Engineers and that determined by the U.S. Coast & Geodetic Survey for other stations in the same lines were computed. These differences were then proportioned according to distances between stations and a correction applied to the original position of each traverse station.

The horizontal control stations of all federal agencies which fall in the area of this map manuscript, have been tabulated on two sheets of Form M-2388-12 which are attached to this descriptive report. A special column headed "Remarks", has been added to the form. In this column a short note has been entered which explains the manner in which the station was used.

The published positions, of the U.S. Engineer and U.S. Geological Survey stations which were not searched for by the field unit, have not been shown in the tabulation. These stations were not plotted on the map manuscript.

27. Radial Plot:

This map manuscript is part of Radial Plot No. 2, Project Ph-13(46), which includes Map Manuscripts T-8812 to T-8816 inclusive.

The radial plot was completed in the same manner as described for Radial Plot No. 1 of this project. The methods and a complete discussion of the various operations relative to work on the photographs, templets, and map manuscripts can be found in paragraph 27 of the Descriptive Report for Map Manuscript T-8809.

28 Detailing:

Compilation was done in accordance with instructions for Project Ph-13(46). Special care was taken to see that the requirements of paragraph 34 of the instructions were met.

The transforming printer at the Washington Office was not in proper adjustment at the time the photographs were printed and they could not be orient-

ed in their entirety at the compilation table when radially plotting various types of pass points. Enough pass points had, however, been established during the radial plot so that each chamber of each photograph could be separately oriented. For at least two of the chambers on each photograph, it was found necessary to de-center the photograph radially, to or from the chamber being oriented, so that the radials to the pass points and horizontal control stations in the chamber would pass through their positions on the map manuscript.

Due to shadows and overhanging trees along the banks of the rivers, it was often impossible to get more than a two radial intersection, on some of the detail pass points which were used to compile the shorelines. These two radial intersection points have been shown with a small circle in green ink on the reverse side of the map manuscript.

The photograph coverage was adequate and very little trouble was encountered in interpreting the planimetric details.

All planimetric features have been compiled, within a zone averaging 300 meters in width, along both shores of the Willamette River. Inshore from this zone only skeleton planimetric details have been shown. The detailing limits of the map manuscript were taken from the index map furnished the compilation office and are shown with a light full line in green acid ink.

This map manuscript is relatively a smooth drawing and all symbols have been drafted to conform with samples furnished the compilation office or with symbols shown on similar planimetric maps which have recently been published by the U. S. Coast & Geodetic Survey.

The heights of bluffs were indicated by the field inspector. Their location was interpreted by the compiler with the aid of the stereoscope. Shoreline features and drainage were also delineated by extensive use of the stereoscope, however, it was often necessary to detail the field inspector's interpretation of drainage through thickly wooded areas. This was done only when it was impossible to determine the location of drainage by stereoscopic examination of the photographs.

29. Supplemental Data:

No supplemental data was used in the area of this map manuscript.

30. Mean High-Water Line: (River shoreline at the adopted plane of reference)

A complete discussion of this feature can be found in paragraph 7 of the Field Inspection Report, Sheets T-8812 to T-8816 inclusive.

The mean high-water line (River shoreline at the adopted plane of reference) is shown by a continuous black acid ink line .008" in thickness at a plane that is a gradient between 97.6 ft above M.S.L. (the elevation of the zero of the U.S.E. river gage at Middle Windser Bar) and 105.2 ft. above M.S.L. (the elevation of the zero of the U.S.E. river gage at Upper Mosquito Bar).

There are no marsh areas immediately bordering the shoreline.

31. <u>Low-Water and Shoal Lines:</u>

The approximate limits of several small shoal areas have been detailed as indicated by the field inspection unit.

The field inspection unit did not indicate any low-water lines within the area of this map manuscript.

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

Several very small islands are the only details offshore from the mean high water line. All of these small islands are covered when the river is at flood stage.

33. Wharves and Shoreline Structures:

A low pile jetty, an overhead cable crossing, and a small dam have been shown as indicated by the field inspection unit.

34. Landmarks and Aids to Navigation:

Form 567 is being submitted recommending the charting as nautical land-marks of the following:

TOWER, east tower Bonneville Power Admn., Lincoln Rocks. TOWER, west tower Bonneville Power Admn., Lincoln Rocks.

There are no fixed aids to navigation within the limits of this map manuscript.

35. <u>Hydrographic Control</u>:

A complete discussion of this subject can be found in paragraph 12 of the Field Inspection Report, Sheets T-8812 to T-8816 inclusive, Project Fh-13 (46) which was forwarded with the Descriptive Report for T-8812. Delegation map

A question mark (?) has been lettered after hydrographic signal No. 1505 to indicate that the location of the station is doubtful. Hydrographic signal No. 1509 has been rejected because the resulting location, by use of the field data, does not agree with the location as shown on the field photographs.

It is believed that a sufficient number of well located signals have been established which may be used by the hydrographic party for establishing additional signals at the time the hydrographic survey is made.

A list of thirty-five hydrographic signal sites, which fall in the area of this map manuscript, is attached to the Field Inspection Report, Sheets T-8812 to T-8816 inclusive, Project Ph-13(46). (T-88/2)

36. Landing Fields and Aeronautical Aids:

There are no landing fields or aeronautical aids within the limits of this map manuscript.

37. Geographic Names:43

Geographic names are the subject of a special report, Investigation of Geographic Names, Sheets T-8812 to T-8816 inclusive, Project Ph-13(46), which has been submitted. All undisputed and recommended names have been shown on the map manuscript. Geographic Names Jection, Division of Charts.

38. Recoverable Topographic Stations:

Copies of Forms 524 are being submitted for the following: Photogrammetry Files

MARY, 1	.947	OTIS,	1947	QUIN,	1947	SOME,	19
NIRA, 1	.947	PHIL,	1947	ROSE,	1947	•	

39. Junctions:

Complete and satisfactory junctions have been made between map manuscripts T-8814 and T-8815 and between T-8815 and T-8816.

40. Bench Marks:

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

4. Comparison with Existing Topographic Surveye - Quadrangles

See record sheet which accompanies each map manuscript.

45. Comparison with Nautical Charts:

There are no nautical charts of the area.

Approved and forwarded:

Tohett Earle

Robert A. Earle Chief of Party Respectfully submitted: 10 September 1947

J. Edward Deal, Jr. Photogrammetric Engineer

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U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE

LANDMARKS FOR CHARTS



Portland, Oregon

STRIKE OUT ONE

TO BE CHARTED

I recommend that the following objects which have (have not been inspected from seaward to determine their value as landmarks, The positions given have been checked after listing. Klud be charted on (deboted from) the charts indicated. する。ものものにおいます

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GENERAL WILLAMETTE RIVER, OREGON			POSITION				•		1874
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This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." 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.	nce with t by individ	rith 1934 Field Memorandum dividual field survey sheets.	Memorand	lum, "LAN	DMARK	S FOR CF	"LANDMARKS FOR CHARTS." The data should be Information under each column heading should be given.	The de	ita should be
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Division of Photogrammetry Review Report of Shoreline Map Manuscript T-8815

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

28. Detailing.

Major changes made by the reviewer were limited to the shoreline of the Willamette River. The shoreline of numerous lakes and ponds was changed to a thin line to agree with Field Memorandum No. 1, (1938).

A number of field inspection notes that were omitted on the map manuscript have been added by the reviewer.

35. Hydrographic Control.

Temporary hydrographic station No. 1505 was removed from the map manuscript, its position being doubtful.

44. Comparison with Existing Topographic Quadrangles.

- U.S.G.S., McMinnville, Ore., 15' quadrangle, 1924, scale 1:62,500
- U.S.E., McMinnville, Ore., 15' quadrangle, 1947, scale 1:50,000
- U.S.G.S., Mt. Angel, Ore., 15' quadrangle, 1921, scale 1:62.500
- U.S.E., Mt. Angel, Ore., 15' quadrangle, 1947 scale 1:50,000
- -U.S.G.S., Salem, Ore., 15' quadrangle, 1913-5, scale 1:62,500
- U.S.E., Salem, Ore., 15' quadrangle, 1939, scale 1:62,500
- U.S.E., Salem, Ore., 15' quadrangle, 1947, scale 1:50,000
- U.S.G.S., Stayton, Ore., 15' quadrangle, 1923, scale 1:62,500
- U.S.E., Stayton, Ore., 15' quadrangle, 1939, scale 1:62,500
- U.S.E., Stayton, Ore., 15' quadrangle, 1947, scale 1:50,000

The shoreline of the Willamette River on these quadrangles is superseded by that on the map manuscript.

For further information see the Record Sheet.

45. Comparison with Nautical Charts.

There are no nautical charts in this area.

Reviewed by:

Reviewed under direction of:

B. Thomas Hynson 11-13-47

Chief, Review Section

APPROVED:

Technical Assistant to the Chief, Div. of Photogrammetry

Chief, Nautical Charts

Chief, Div. of Photogrammetry Chief, Div. of Coastal

Surveys

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