8960 TO 8965 INCL.

B-1870-1 (1)

Diag. Cht. Mc. 5602-2

8960 TO 8965 INCL

U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT
Type of Survey TLATTERIC & SHORSLINE 1
LOCALITY
StateCALTYORHIA
General locality HU POLIST BAY
Locality EURINEA AND ARTHUA CALIFORNIA
194 2
CHIEF OF PARTY
0. W. Meark R. A. Eavig. orbland Photograpmetric Offic
LIBRARY & ARCHIVES
DATE August 29, 1951

DATA RECORD

T-8960 to T-8965 Inclusive

• Project No. (II): Ph-25(47) Quadrangle Name (IV):

Portland, Oregon

Field Office (II): Eureka, California (Field Unit) Chief of Party: R.A. Earle

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge:

W. H. Bainbridge

Charles W. Clark Copy filed in Division of

Instructions dated (II) (III): 27 February 1948

Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): None

Date received in Washington Office (IV): //- 22-79 Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 7-9-51

Publication Scale (IV): 1:10,000

Publication date (IV): ZTan to ZTune 1951

Geographic Datum (III): N.A. 1927

Vertical Datum (III): Mean Sea Level

Mean sea level except as follows: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III):

See reverse side.

Lat.:

Long.:

Adjusted **Unadjusted**

Plane Coordinates (IV):

State: California Zone: 1.

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

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

Reference Stations

· 四种(10) 是 47.94四。

T-8960	SAMOA 2, 1941 Lat. 40° 49' Long. 124° 11'	21.350" 658.6m 10.082" 236.3m	(1192.2m) y=550,067-76 (1169.8m) x=1,395,048.96
T-8961	ARCATA, 1941 Lat. 40° 52' Long. 124° 06'	56.433" 1740.8m 09.789" 229.2m	(110.0m) y= 571,261-53 (1175.6m) x= 1,418,649-37
T-8962	ZAHNER, 1941 Lat. 40° 45' Long. 124° 10'	33.025" 1018.7m 47.718" 112.3m	(832.lm)y= 526,92679 (295.lm)x=1,396,216.01
T-8963	MEADOW, 1928 Lat. 40° 28' Long. 124° 06'	49.682" 1532.5m 29.638" 694.6m	(318.3m)y = 546, 335.88 (711.6m)x=1,416,524.58
T-8964	RICKS, 1941 Lat. 40° 40' Long. 124° 17'	39.595" 1221.3m 11.228" 263.7m	(629.4m)y= 497,997.00 (1145.4m)x=1,365,917.33
T -89 65	SISSON 2, 1919 Lat. 40° 42' Long. 124° 12'	53.399" 1647.1m 04.414" 103.6m	(203.6m) y= 579,927.22 (1304.7m) x=1,389,887.41

All recovered in 1948.

Adjusted Positions.

Reference Station (Little See Towerse Side.

Publication Scale (W): / / 0,000

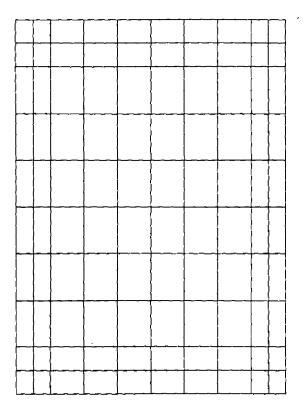
Geographic Datum (III): N.A. 1927

Plane Coordinates (IV):

construction indicates whether most are to be entered by (II) Word Party. (III) Protestraminetric Office. (2.10) Ween region Office.)

Form.T.Paget

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Areas contoured by various personnel (Show name within area) (II) (III)

No contours

DATA RECORD

•	Charles Hanavich, J. H. Winniford, J. L. Harris, E. H. Taylor, and R. B. Welby	3/15/48 Date: to 4/28/48
	Planetable contouring by (II):	Date:
	Completion Surveys by (II): None	Date:
	Mean High Water Location (III) (State date and method of location): Located by fi between 3/18/48 and 4/28/48. Field data transferred to off with the aid of the stereoscope and then compiled on map may	ice photographs
	Projection and Grids ruled by (IV):	Date:
	Projection and Grids checked by (IV);	Date:
	Control plotted by (III): John C. Lajoye & Roy A. Davidson (all Sheet	Date: Larch 1949
)	Control checked by (III): Ree Barron & Frank H. Elrod (all Sheets)	Date: March 1949
	*Radial Plot or Stereoscopio Ree Barron, John C. Lajoye, & J.E. Deal Control extension-by (III):	Date: April 15, 1949
	Planimetry Storoggopia Instrument acquillation (42)	Date:
	Stereoscopic Instrument compilation (III): Contours	Date:
	Manuscript delineated by (III): See reverse side.	Date:
	Photogrammetric Office Review by (III): Ree H. Barron (all Sheets)	Date: 6/15/49 to 7/29/49
•	Elevations on Manuscript Ree H. Barron (Tidal Bench Marks) checked by (II) (III):	Date: 6/15/49 to 7/29/49

T-8960 John H. Winniford T-8961 Carita C. Wiebe T-8962 Helen L. Laube T-8963 Carita C. Wiebe T-8964 John C. Lajoye T-8965 Helen L. Laube 4/12/49 to 6/6/49 4/12/49 to 5/31/49 4/19/49 to 6/29/49 6/7/49 to 7/14/49 4/19/49 to 5/31/49 6/29/49 to 7/26/49

Field Inspection Photographs

Mosm wish Water Location (III, (State este and mythod of location): Located by field inspections between 3/16/45 and 4/53/45. Field fights transferred buildfiles photographs with the sid of the stereoscope and then compiled on any manuscripts.

7-8960: 47-0-310 to 314; 333-4; 368-9.

7-8961: 47-D-482 to 486; 502 to 506

T-8962: 47-0- 314% 317; 330; 335% 338; 363% 365

T-8963: 47-D-364-5; 486 & 488

7-8964: 47-0-317 to 322; 325 & 328; 352 to 356 11111 40 beauted losses

Red Maryon, John V. sejoje, & J.S. Deel om April 15, 1945

7-8965: 47-D-339; 352 To 356

1.7.5.

appress at definested by (III). See never so italie.

Protectament of Chicago Review by Mills Rec H. Barron (all Cheets) | Date: 6/15/43 to 7/25/45

(Eden on Manuscript Res H. Berryon (Tidel Fench Marke)

(AB) (th sea peaks

Camera (kind or source) (III):

Single lens Camera "D"

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
47 D 313 & 314 47 D 352 to 356 47 D 363 to 367 48 D 376 to 436 3 D 447 to 492	Inc. 11/22/47 " 11/22/47 " 11/21/48	14:30 13:51 to 13:54 13:39 to 13:41 12:14 to 12:57 13:10 to 13:40 for photographic	í ::	ratio 2.9 ft. above M.2.LW " 2.8 ft. " " " 2.8 ft. " " " 5.7 to 6.3 ft. " " " 6.4 to 6.5 ft. " "

Tide (III)	Diurnal
	Ratio of Mean Spring Range Range
Reference Station: Humboldt Bay, California	4.5 6.4
Subordinate Station: None	
Subordinate Station:	511950
Washington Office Review by (IV): Leva J. Stevens 8960 Berry, Breene 8961 Webber, Breene, Lucas 8961 Webber, Breene, Lucas 8961 Webber, Breene, Lucas 8961 A. Berry, Breene, Weber 8964 Breene, Balley Proof Edit by (IV): 8963 9964 9964 9964 1000 100	Date: \$962 27 Heb. 1950 1950 Date: \$962 20 Apr 1950 1950 Date: \$965 1404 1950 Date: \$965 1404 1950 Date: \$965 A.g 21, 1950 \$961 A.g 21, 1950 \$962 Nov. 20, 1950 \$964 Sept. 12, 1950 Date: \$964 Sept. 12, 1950 Date: \$965 A.g 31, 1950
Land Area (Sq. Statute Miles) (III):	
Shoreline (More than 200 meters to opposite shore) (III): 73.7 Statute Mile	es
Shoreline (Less than 200 meters to opposite shore) (III): 30.3	
Control Leveling - Miles (II):	
Number of Triangulation Stations searched for (II): 188 Recovered: 102	Identified: 65
Number of BMs searched for (II): (Tidal) Recovered: 1	Identified: 11
Number of Recoverable Photo Stations established (III): 51	
Number of Temporary Photo Hydro Stations established (III): None	

Remarks:

In addition 19 triangulation stations were established.
Above statistics are for the entire project.

Bureau Archives 941 6-7581

Summary to Accompany Descriptive Report for T-8960 to T-8965

Project Ph-25(47) covers the area Latitude 40°40' to 54', Longitude 124°02' to 19! and consists of 11% planimetric maps, T-8960 to T-8965, at a scale of 1:10,000.

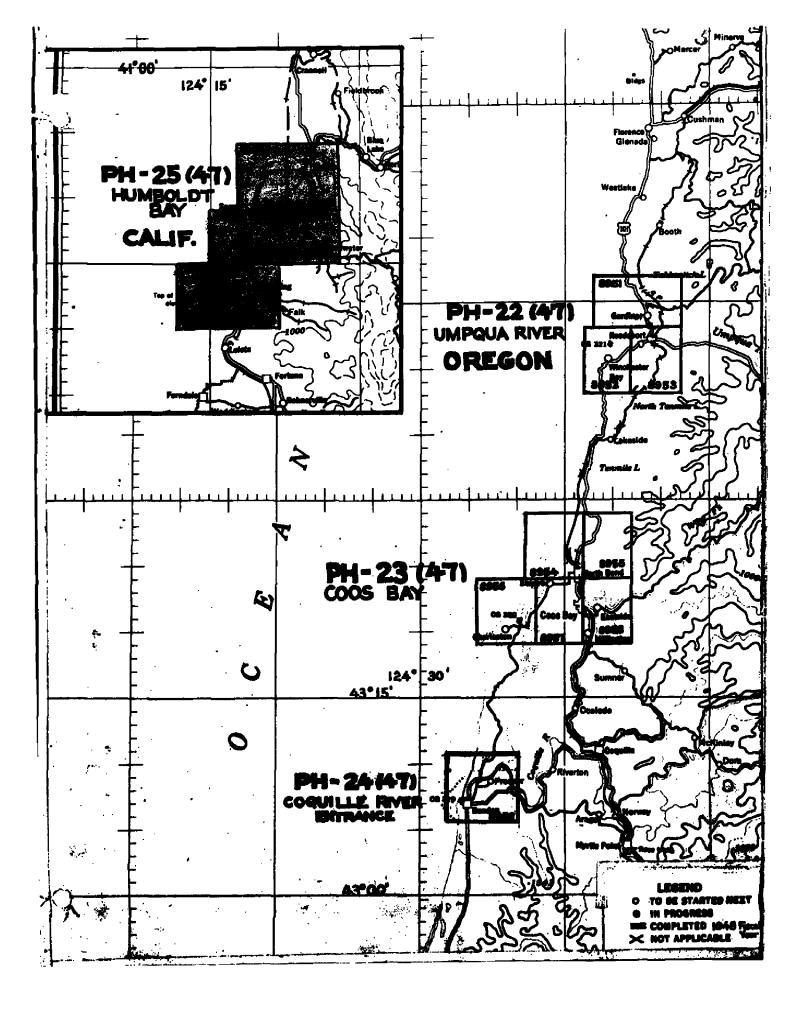
None of the maps in this project has been delineated to the full extent of the respective geographic limits. This is in accord with the project instructions which state that the mapping shall extend generally back to where the mountainous or hilly areas begin."

Field inspection work for the project was completed in the spring of 1948. The compilations were made from the field inspection photographs taken in November 1947 plus high-water photographs taken in November 1948.

Data pertaining to Project Ph-25(47) dre filed as follows:

- A. Division of Photogrammetry General Files
 - 1. Acetate map manuscripts
 - 2. 48 Forms 524
 - 3. Field inspection photographs
- B. Bureau Archives
 - 1. One volume Form 250 (Horizontal Angles) 8H G-7579
 - 2. Special Report, Third-order triangulation 94 9-75%
 - 3. 190 Forms 526] 94" G-7580 16 Form 525] GA
 - 4. Registered lithographic print of the reviewed manuscript at compilation scale
 - Registered original descriptive report
- C. Geographic Names Section
 - 1. Investigation of Geographic Names Ph-25(47).

Lena T. Stevens 1 May 1950



FIELD INSPECTION REPORT Sheets 8960 to 8965 Inclusive Project Ph-25(47)

1. Description of the Area:

Humboldt Bay, which is the largest and most suitable harbor between San Francisco and the Columbia River, is situated in the northwestern part of California along the Pacific Ocean. A narrow strip of beach and sand separates the bay from the ocean. It is bordered on the north by the Arcata flatlands which comprise the delta of the Mad River. On the east and southeast, smaller bodies of low alluvial lands are found with laterals extending up Jacoby and Freshwater Creeks, The Elk River, and Salmon Creek. Terraces of old marine or coastal plane deposits are found north and east of these lowlands. On the south is Table Bluff; a prominent terrace, it extends westward to the ocean. South of Table Bluff is the extensive delta of the Eel River.

The bench lands or river terraces are in the main from 100 to 500 feet high. On the whole, they are a marine deposition but in some areas have been modified by the rivers and larger creeks.

The lowlands of the area are either tidal flats or river flood plains that lie only a few feet above tide water. The tidal flats are found north of and around Humboldt Bay and southwest of Table Bluff. These tidal flats, however, have been reclaimed for the most part. Along the bay and the various creeks, numerous tide gates have been installed and the low lands crisscrossed with drainage ditches so that the tide does not reach them except for a certain amount of underground seepage. The river flood plain is associated with the Mad River in the northern part.

Tidal marsh land is found close to the bay. It is traversed by numerous tidal sloughs and channels, and is covered by a salt-marsh vegetation. At one time it was extensive but most of it has been reclaimed by the construction of dikes and is utilized chiefly for grazing purposes. At one time Gunther Island was reclaimed, but the dikes are broken in many places and the land has reverted to its original state.

Along the beaches - the South Spit and the North Spit areas - are wind-blown sand dunes loosely held in place by a sparse growth of grass. Inland along the North Spit, some of the dunes attain a height of 60 to 70 feet, with a vegetal growth of trees, brush, or grass.

South Bay and North Bay in the south and north parts of Humboldt Bay, respectively, become extensive mud flats a low tide and are traversed by tidal channels.

East of the agricultural lowlands or valleys, the land is rough, mountainous, and wooded. The forests consist of redwood, Douglas fir, white fir, and other lesser growths. Much of the land has been cut over but it is now springing up with second growth timber. The land has little value except for forestry.

The drainage of the entire area is mainly toward the west and northwest. In the mountainous and hilly areas, the drainage is well established. Drainage is poor in the plains of the streams emptying into Humboldt Bay. The low lying lands on the deltas of the ad and Eel Rivers are also poorly drained. The northern part of the area is drained by Mad River Slough and Mad River. The Eel River drains the southern part. Salmon Creek, Elk River, Freshwater Creek and Jacoby Creek drain the eastern side of the Humboldt Bay area and enter the bay.

The close proximity of the ocean is responsible for a mild, moist, and even climate the year round. The climate is characterized by a rainy season that lasts from October to May and a dry season from June to September. Prevailing winds, which are moderate, are from the north during the summer and from the southeast during the winter.

In addition to being a great lumbering center, the Humboldt area is noted for its dairying industry. Another important mainstay is the fish industry. Vegetables, berries, fruit, and other products are raised chiefly for local consumption.

Eureka, the county seat of Humboldt County and the largest town, is an important agricultural trading center and shipping point. The main concentration of docks and wharfs, and a variety of industrial buildings, railroad yards, and other commercial sites are found along the city's waterfront. Next in importance is the City of Arcata. It is a trading and shipping center for lumber, dairy products, and other minor agricultural commodities. The smaller communities of Samoa and Fields Landing are important for their large lumber mills.

One major highway, U.S. 101 (Redwood Highway), traverses the area north and south along the east side of Humboldt Bay. Another major highway, U.S. 299, extends into the area from the east and junctions with U.S. Highway 101 north of Arcata. In addition to these highways, there are numerous connecting county roads which are kept in good condition in the settled sections.

Transportation by rail is more rapid and regular than by boats. As a result the railroad carries the bulk of outgoing and incoming freight. The principal realroads are the Northwestern Pacific and the Humboldt Northern. The former provides the towns of Arcata and Eureka rail connection with San Francisco and other points south, while the latter leads northerly up the coast from Arcata for a short distance. At the present time there are no rail connections with any of the states or large towns to the north.

Humboldt Bay was discovered in 1849, and shortly thereafter the area was settled by pioneers. It is isolated by rugged mountain ranges to the north, east, and south, and for many years practically the only way of communicating with the outside world was by boat. In spite of this, the influx of population was rapid, especially during the last two wars, so that in the cleared and settled parts the population is quite dense.

2. Completeness of Field Inspection:

The field inspection for the clarification of details on the photographs, and for the classification and identification of features such as roads, buildings, wooded areas, drainage, etc., has been completed in accordance with the instructions for this Project. In general, the detail limits indicated on the index map by the Washington Office were adhered to.

Various maps have been obtained to supplement the field inspection work. (See 33, Compilation Report, pp 43-44)

. 3. Interpretation of the Photographs:

Each type of vegetation such as woodland, grassland, cultivated areas, marsh, swamp, and other characteristics have been classified a sufficient number of times on the field photographs to enable the office personnel to interpret the photographic detail correctly.

Softwoods are recognized by a darker tone of color as well as by the spire-like shadows. Hardwoods are light grey in color and, in general, show a more rounded outline. The lowland areas range in shading from a light grey to a dark grey and have a mottled appearance. In the bay area the mud flats, which bare at low water, range from light grey to dark grey; the darker shading is eel grass on the mud flats. (The eel grass areas are further recognized by the crisscrossed tidal sloughs and rills.) Sand areas are light, and the dunes are recognized by the dark shadows visible on the photographs.

4. Horizontal Control:

The subject of supplemental control established in this area is discussed in a "Special Report, Third-order Triangulation, Project Ph-25(47)", which has been submitted.

A thorough search has been made for all USC&GS stations established during prior surveys in this area as well as for control stations established by other agencies (USE and USGS). Most of the stations originally established by the other agencies have been occupied by our Bureau in later years. Many of the old stations have been lost or destroyed; however, the majority of the more recently described and established stations were recovered.

Recovery notes on Form 526 have been prepared for all stations for which a search was made. It is believed that about 30% more stations were identified on the field photographs than were necessary to adequately control the radial plots for this project. This additional control was identified to offset the possible loss of any of the stations when this project is re-photographed because of insufficient end lap in the field photographs taken in November, 1947. In addition, the field recovery units were instructed that stations identified by the substitute station method should be selected with care to prevent their immediate future loss. For additional information refer to paragraph 7 of the instructions for this project.

5. Vertical Control:

The instructions for this project did not request the recovery of vertical control; however, Photogrammetry Instructions No. 17, dated 9/15/47, under side heading 23d, page 9, specify that tidal bench marks shall be shown on planimetric and shoreline manuscripts, and in accordance therewith a search was made for them. The descriptions for the tidal bench marks were obtained from the horizontal and vertical control data for the Eureka, Fortuna, and Ferndale quadrangles issued by the Office of the Chief of Engineers, Washington, D.C. Recovery notes on Form 685 have been prepared for all tidal bench marks in the area which were listed in the control data mentioned above.

Geodetic bench marks were not searched for except where they were recovered and identified on the field photographs to satisfy the topographic requirements for control along the waterfront areas. In such cases, recovery notes on Form 685 were prepared as well as on Form 524.

Contours and Drainage:

No contouring is involved in the area.

All drainage, except for minor ditches, was located and classified in the field. Drainage features, which were indistinguishable on the photographs were located by pacing or taping. In addition, the drainage defined in the field was rechecked under the stereoscope by the field inspector; but in some instances this was not possible because of insufficient end lap in the field photographs.

In cases where it was doubtful whether drainage was perennial or intermittent, the classification was verified by local inquiry.

In the low alluvial areas around the bay, many of the tidal creeks or channels have been diked along the sides and tide gates installed. With these artificial restrictions, these creeks and channels are not affected by tidal changes except for the unavoidable seepage in a few areas where the dikes and tide gates are in disrepair.

Certain portions of the lowland areas adjoining the bay become flooded during heavy run-offs and rains with the result that the streams and channels spill over when the overload becomes too great for the tide gates to handle. The flow is aggravated still more during periods of high tide when the force of the incoming tides closes the gates.

7. Mean High-Water Line:

The mean high-water line was identified in the field on the photographs in accordance with the supplemental instructions dated 18 March 1944 and 20 June 1938, and with Photogrammetry Instructions No. 17, dated 9-15-47. The entire shoreline was inspected visually in the field either by walking along the shoreline or by examination from a boat. No difficulty was encountered in ascertaining the mean high-water line on the field photographs except in the vicinity of the bluffs at Buhne Point and Southport Landing, because of the shadows from the bluff cast placed along the shoreline. However, since the mean high-water is at the foot of these bluffs, the shoreline can be readily delineated by the use of a stereoscope.

The northwest face of Buhne Point is subject to additional erosion and receding from the strong impinging action of the flood tides surging through the entrance to Humboldt Bay.

Changes are to be expected in the small cove just south of Buhne 1944 photos Point where dredging operations are now in effect as well as at the show results. extreme southwest corner of South Bay just north of Table Bluff where future dredging operations are contemplated.

Along the seaward side, the mean high-water line is distinguishable by a visible line on the photographs. The storm high-water is irregular and parallels the west side of the foot of the sand dunes or else the west side of the debris line (logs, trees, stumps, and other refuse).

Inside the bay, the mean high-water either follows closely the limits of vegetation or a visible line on the photographs along the sandy beaches. Frequently, the shoreline follows the offshore edge of dikes where they are found. Where marsh areas are found, the shoreline is the edge of the marsh; and along the channels and sloughs, it is marked by a bank line, vegetation line, or the offshore edges of dikes.

8. Lower Low-Water Line:

Where practical and possible the lower low-water line was identified and noted on the photographs. In other areas the lower low-water line was noted by an approximate symbol on the field photographs.

At low tide extensive portions of Humboldt Bay, especially in Arcata Bay and South Bay, are mud flats. It should be noted that some of the areas indicated on chart 5832 as shoal areas are mud flats (or mud flats covered with eel grass) at low tide.

On the seaward side, the prominent berm at the water's edge on the photographs, can be readily delineated as an approximate low-water line. It has not been noted on the field photographs as it is readily distinguishable. The definite lower low-water line can not be delineated along the coast as several field measurements taken in the field at low-water indicate that the photographs used for field inspection were not taken at the time of low water.

9. Wharves and Shoreline Structures:

The waterfront areas were carefully investigated during the shoreline inspection. All wharves, piers, bulkheads, retaining walls, jetties, marine railways, and other shoreline features were inspected and identified on the photographs. All essential and less well-defined detail has been clarified by appropriate notations and markings. All anchored floats were either deleted or noted as such on the photographs.

10. Details Offshore from the High-water Line:

Dolphins, piling, remains of old wharves and piers, foul and debris areas, cable areas, wreckage, and other offshore obstructions

T-8962

or details were inspected, identified, and clarified on the photographs by appropriate notations and markings during shoreline inspection operations.

Numerous log booms are to be found in the vicinity of Samoa, Fields Landing, and along Eureka Slough.

At the head of Arcata Bay are several old trestles and wharves regal in ruins. A line of old and broken piling, which are the remains of a previous trestle, are found in the bay south of Jacoby Creek.

A large ship-wreck along the coast line and southwest of Samoa, which is noted on chart 5832, was not seen when the shore-line was inspected in that area. The wreck is believed to be still in the vicinity.

Not visible on photograph 47-D 3/4 args, at near low water.

11. Landmarks and Aids to Navigation:

stage.

All charted landmarks have been investigated and verified as to their value when seen from offshore. In addition, a selection was made of other prominent objects along the shore which are definite landmarks, and these were recommended for charting.

A complete investigation of all fixed aids to navigation was made in the field. Where an aid to navigation was a triangulation station, its location was verified and reported in accordance with the instructions. They were either identified on the photographs if visible or located by triangulation methods. Their correct names, distinctive markings, et cetera, were verified from the latest edition of the Light List - Pacific Coast". Several discrepancies were found; they are:

- 1. Arcata Channel Lights 1, 2, 3, and 4, which are noted on 7-8960 chart 5832 just northwest of Gunther Island and are listed in the 1948 Light List, were found upon field investigation to have been removed in January of 1946. The Director was notified about this error in a letter from Lt. Comdr. R.A. Earle dated 26 May 1948.
- 2. The light located just south of the south tip of Gunther Island is listed in the 1948 Light List as "Indian Island Spit Light". This name is in disagreement with the approved name for the geographic feature Gunther Island which is a decision of the Board on Geographical Names, and is also the approved name in the special report on geographic names submitted for this project. This light

was located by triangulation methods on April 28, 1948. Later it was ascertained from the Commanding Officer of the Humboldt Bay Coast Guard Station that this light would be moved about 20 feet SW from its present position in the near future. The triangulation name of the station is Gunther Island Spit Light.

3. Triangulation station "Humboldt Bay, Green Blinker, at Fog Signal Station, 1941", which was established by D. H.K., is misnamed and confusing. This station is a light and is listed in the 1948 Light List as the North A Jetty Light. This Light List name is recommended in order to avoid confusing it with the name Humboldt Bay 2. Fog-Signal Station which is listed in the Light List and is described as being a siren on a white frame building. 1. Still listed "North Joseph Light List 2. Now on Humboldt Bay Approach, R.F. as a diaphone. 1949 Light List.

In accordance with Photogrammetry Instructions No. 6, dated 12-30-46, Mr. Heck of the Division of Charts was notified of the data contained in item 2 and Mr. Sutcliffe of the Division of Geodesy on the subject matter listed in item 3.

All charted landmarks as well as those recommended for charting and fixed aids to navigation have been reported on Form 567 as well as on either Forms 524, 525, or 526.

Library: 94/ 6.7580

12. Hydrographic Control:

No photo-hydro stations were established; this is in accordance with the instructions for the project.

Where a sufficient number of existing control stations, nautical and aeronautical landmarks, and fixed aids to navigation, were not available to comply with the requirements for topographic control, additional ones were selected and identified in accordance with subject 235 of the Hydrographic Manual.

All topographic stations have been reported on Form 524. For additional information refer to side heading 5, last paragraph, and attached list (p. 64)

13. Landing Fields and Aeronautical Aids:

The following landing fields were inspected in the area;

1. Eureka Airport located on the North Spit. This airport 7-8962 was established by the Navy during the last war; it is now leased by a private party.

4.9

Humboldt County Airport located east of the City 78963 of Eureka on the SE side of U.S. Highway 101.

All aeronautical aids in the area have been investigated and reported on Form 567 as well as on either Forms 524, 525, or 526. A high frequency beam station has been established by the U.S. Civil Aeronautics Authority on Table Bluff since the field photo- 7-8964 graphs had been taken. It was located on a photograph by reference measurements and reported on Forms 567 and 524.

14. Road Classification:

All roads have been traversed and classified in accordance with Photogrammetry Instructions No. 10, and amendment thereto, dated 4-14-47, and 10-24-47, respectively.

Route numbers and names were verified from road signs and other local sources, and shown on the photographs. Names, if any, of all roads in rural areas were noted on the photographs. In urban areas with a pattern of many streets, a sufficient number of street names, usually the more prominent ones, were labeled on the photographs to provide an adequate orientation whereby the remaining street names could be easily identified by the compiler from city maps of the area. These official maps, showing streets and street names, were obtained from local authorities.

15. Bridges: Entendin Bridge Book Standard by & Richardson

All bridges for the area covered by this report as listed in the U.S. Engineers "List of Bridges Over Navigable Waters in the U.S." dated July 1, 1941, were inspected in the field; all clearances were carefully measured with a steel tape in accordance with Photogrammetry Instructions No. 13. Since the latest edition of the bridge book is not available, a complete listing of the bridges is made below with all necessary data to be compared with the latest edition of the bridge book for any discrepancies. The local District Engineer should be notified of any discrepancies. The bridge clearances, type of bridge, and the time of the field measurements have been noted on the photographs. A list of the bridges investigated follows:

7-8962 Miles above Mouth: .5 Name: None Location: Eureka Slough, California Owner: Northwestern Pacific Railway Kind: Although a swing type bridge, it has been discontinued as such and is now fixed. Number of Spans: 1 Channel Span: Hor. Cl. - 78 feet left and right spans Vert. Cl. to WL - 9.0 feet; to MLLW - 11.4 feet

7-8963

7-8963

Purpose of Bridge: Railroad
Date of Field Measurements: 4/29/48, PST 1450
Remarks: The navigable channel is under the right span
in proceeding upstream.

Name: None
Location: Eureka Slough, California
Owner: California State Highway Commission
Kind: Fixed
Number of Spans: 1
Channel Span: Hor. Cl. - 75 feet
Vert. Cl. to WL - 20.0 feet; to MLLW - 22.5 feet
Purpose of Bridge: Highway
Date of Field Measurements: 4/29/48, PST 1500
Remarks: This highway bridge was rebuilt around 1941.

Name: None
Location: Eureka Slough, California
Owner: The Pacific Lumber Company
Kind: See remarks
Number of Spans: See remarks
Channel Span: Hor. Cl. - 10.0 feet; see remarks
Vert. Cl. - unlimited; see remarks
Purpose of Bridge; None
Date of Field Measurements: 4/29/48
Remarks: Railroad bridge gone; bridge piling in place with
10.0 - foot Hor. Cl. Overhead crossbeams and rails
removed with vert. Cl. unlimited.

Miles above Mouth: 2.9
Name: None
Location: Eureka Slough, California
Owner: N.M. Deroy
Remarks: This bridge has been removed.

5. Miles above Mouth: 3

Name: None
Location: Eureka Slough, California
Owner: Humboldt County
Remarks: This bridge has been removed.

6. Miles above Mouth: 2.0
Name: None
Location: Eureka Slough, California
Owner: The Pacific Lumber Co.

Kind: Fixed

Number of Spans: 1

Channel Span: Hor. Cl. - 10.0 feet

Vert. Cl. to WL - 7.0 feet; to MLLW - 10.0 feet "HAW" 3.0

Purpose of Bridge: Abandoned railroad trestle Date of Field Measurements: 4/29/48, PST 1530

Remarks: Not listed in 1941 bridge book. Overhead rails have been removed but some of the crossbeams, including the bridge piling, remain.

7 Miles above Mouth: .5

7-8863

Name: None

Location: Freshwater Slough, California

Owner: Peter H. Christensen

Kind: Fixed Arch Number of Spans: 1

Channel Span: Hor. Cl. - 35.6 feet

Vert. Cl. to WL - 15.0 feet; to MLLW - 15.9

feet MA

Purpose of Bridge: Private (road)

Date of Field Measurements: 4/29/48, PST 1320

Remarks: None

Wiles above Mouth: 1.66

7-8963 .

Name: None

Location: Freshwater Slough, California Owner: M. Brazil

Owner: M. Brazil Kind: Fixed Arch Number of Spans: 1

Channel Span: Hor. Cl. - 35.6 feet

Vert. Cl. to WL - 17.0 feet; to MLLW - 17.8

feet

MHW = 11.4

Purpose of Bridge: Cattle crossing
Date of Field Measurements: 4/29/48, PST 1310
Remarks: None

9 Miles above Mouth: 1.85

7-8963

Name: None

Location: Freshwater Slough, California

Owner: Humboldt County

Kind: Fixed

Number of Spans: 1

Channel Span: Hor. Cl. - 18.0 feet

Vert. Cl. to WL - 13.8 feet; to MLLW - 14.5

feet

MHW 8.1

Purpose of Bridge: Highway
Date of Field Measurements: 4/29/48, PST 1300
Remarks: None

10 Miles above Mouth: 3.5

7-8963

Name: None

Location: Freshwater Slough, California (Ryan Slough branch)

Owner: Humboldt County

Remarks: No clearances were obtained for this fixed highway bridge listed in the 1941 bridge book as the slough is not navigable upstream from the bridge.

// Miles above Mouth: .5

7-8962

Name: None

Location: Elk River, California Owner: N.W. Pacific Railway Co.

Kind: Fixed

Number of Spans: 1

Channel Span: Hor. Cl. - 35.0 feet

Vert. Cl. to WL - 9.5 feet; to MLLW - 9.8 feet

Purpose of Bridge: Railroad NHW

Date of Field Measurements: 4/29/48, PST 1200

Remarks: This bridge may have been rebuilt; the vertical clearance does not agree with the 1941 bridge book.

/2 Miles above Mouth: .75

7-8962

Name: None

Location: Elk River, California

Owner: California State Highway Commission

Kind: Fixed

Number of Spans: 1

Channel Span: Hor. Cl. - 32.0 feet

Vert. Cl. to WL - 9.7 feet; to MLLW - 10.0

feet

Date of Field Measurements: 4/29/48, PST 1210 Remarks: This highway bridge was rebuilt in 1937

/3 Miles above Mouth: .8

T. 8962

Name: None

Location: Elk River, California

Owner: Dolbeer and Carlson Lumber Co.

Kind: Fixed

Number of Spans: 1

Channel Span: Hor. Cl. 10.0 feet

Vert. Cl. to WL - 7.0 feet; to MLLW - 7.4 feet

Purpose of Bridge: Railroad; see remarks

MHW - 1.0

Date of Field Measurements: 4/29/48, PST 1215

Remarks: This is a railroad not a highway bridge as listed in the 1941 bridge book; it is possible that this bridge was rebuilt into a railroad bridge.

14 Miles above Mouth: .85

Name: None

Location: Elk River, California

7-8962

Owner: Humboldt County Kind: Fixed

Number of Spans: 1

Channel Span: Hor. Cl. - 18.6 feet

Vert. Cl. to WL - 8.6 feet; to MLLW - 9.1 feet

Purpose of Bridge: Highway

Date of Field Measurements: 4/29/48, PST 1220

Remarks: This highway bridge was rebuilt in August, 1942.

Name: None
Location: Mad River Slough, California
Owner: Northwestern Pacific Railway
Wind: Fixed
Number of Spans: 1
Channel Span: Hor. Cl. - 12.0 feet
Vert. Cl. to WL - 11.3 feet; to MLW - 11.5 feet
Purpose of Bridge: Railroad
Date of Field Measurements: 4/28/48, PST 1130

Name: None
Location: Mad River Slough, California
Owner: Humboldt County
Kind: Fixed
Number of Spans: 1
Channel Span: Hor. Cl. - 18.0 feet
Vert. Cl. to WL - 10.3 feet; to MLLW - 10.6 feet
Purpose of Bridge: Highway

Remarks: This railroad bridge was rebuilt around 1942

Date of Field Measurements: 4/28/48, PST 1135 Remarks: This highway bridge was rebuilt around 1941 or 1942.

/7 Miles above Mouth: 1.5
Name: None
Location: Mad River Slough, California
Owner: Humboldt Northern RR
Kind: Fixed
Number of Spans: 1
Channel Span: Hor. Cl. - 7.2 feet
Vert. Cl. to WL - 13.0 feet; to MLLW - 13.1 feet

Purpose of Bridge: Railroad

Date of Field Measurements: 4/28/48, PST 1058

Remarks: The above data applies to two bridges, one on the east channel and the other on the west channel; either channel may be used in navigating. These railroad bridges were rebuilt around 1942. One of

these bridges was not listed in the 1941 bridge book.

/ Wiles above Mouth: 3

T-8960

Name: None

Location: Mad River Slough, California

Owner: Humboldt County

Kind: Fixed

Number of Spans: 11 (choice of either span in navigating)

Channel Span: Hor. Cl. - 13.0 feet each span
Vert. Cl. to WL - 12.6 feet; to MLW - 12.6 feet

Purpose of Bridge: Highway

MAW 62

Date of Field Measurements: 4/28/48, PST 1030 Remarks: This highway bridge was rebuilt around 1945.

16. Buildings and Structures:

A complete field investigation was made of all buildings and structures within the approximate detail limits indicated on the index map by the Washington Office.

In rural areas all buildings to be shown have been circled or adequately indicated on the field photographs. In many instances, buildings have been deleted in green ink or referenced so that the office compiler would have no doubt concerning the field investigation. Obscured buildings have been shaped with ink.

In urban areas only public and landmark buildings have been circled, outlined, or appropriately noted. Public parks, college grounds, and similar places within the urban limits were inspected as rural areas. .

Along waterfront areas all the buildings have been circled, outlined, or adequately noted, and large buildings and structures were named.

In both rural and urban areas all public and important buildings have been classified and named.

For additional information refer to side heading 2.

17. Boundary Monuments and Lines:

With the exception of public land lines and political boundaries, the investigation of boundary monuments and lines was accomplished. This is in accordance with the instructions for the project.

Except for the boundary limits of small areas such as cemeteries, parks, schools, landing fields, et cetera, which were obtained by the various field inspection parties, this phase of the work was done by a special 2-man field party.

The city limits of Eureka and Arcata have been indicated on the field photographs. All of the boundary monuments that were recovered have been reported on Form 524. City maps have been obtained to supplement the delineation of the corporate limits. The corporate limits of Arcata were extended only to the detail limits; however, the necessary information has been noted in ink on a map of the City of Arcata to enable the compiler to delineate the complete limits, if need be. The map is the fined in the designant.

A photostatic copy (in two pieces) showing the boundary limits in red ink was obtained of Humboldt State College from the school authorities. The limits of the college grounds have not

been indicated on any of the field photographs.

No legal descriptions were available for the city limits of Eureka or Arcata.

18. Geographic Names:

The investigation of geographic names was accomplished by a special 1-man field party and is the subject of a special report "Investigation of Geographic Names, Project Ph-25(47)", which has been submitted. Filed in Geographic Names Section

The local names of roads and highways, small parks and cemeteries, railroad stations, et cetera, were obtained by the various field inspection parties. Various maps showing street and other local names were obtained from the local authorities to supplement the field work.

19. Power Transmission, Telephone and Telegraph Lines:

The field inspection of this phase of the work was done in accordance with the Field Edit Instructions - Supplement 1, dated 4 February 1946.

Submarine and overhead cable crossings across navigable water-ways have been indicated on the field photographs. The vertical clearances of the overhead cable crossings indicated on the photographs are to the estimated mean high-water level (MHW along the bank or shore).

Three submerged cable crossings were noted; they are:

- 1. A Pacific Gas and Electric Co. cable crossing from South 7-8962

 Eureka to the Wilson Lumber Co. yards (Fairhaven).
- 2. A Pacific Telephone and Telegraph cable crosses the bay in the vicinity of item 1 above.
- 3. A Coast Guard telephone cable crossing from the South

Spit to the North Spit.

No evidence in the field was found of any submerged cable crossings in the vicinity of Bucksport as indicated on Chart 5832. It was ascertained locally that the Corps of Engineers of the San Francisco District had issued a permit for a cable crossing in the vicinity but to whom the permit had been issued and whether the cable had ever been installed could not be established by local inquiry. See 4/5. Review Report, Heading 65, 75462

20. Field Photographs:

To avoid duplication of work among the various field units, the approximate limits of each sheet were indicated on a selected number of field photographs in purple ink; however, the field work was not limited to these photographs when others were available in the area. The sheet limits on the photographs are not the true limits; they follow natural boundaries such as highways, creeks, or in such a way as to provide photograph coverage in adjacent sheets.

The urban limits were indicated in white pigment ink on a selected number of photographs and follow natural boundaries (streets).

The junctions between field photographs have been checked by the field inspectors. For the field photographs used in any one sheet refer to the Data Record, Form N. T-1.

20 A Symbols, Color Scheme, and Station Names:

SYMBOLS (standard symbols used)

- 1. Ground and Photogrammetric Points Refer to Photogrammetry Instructions No. 5, No. 6, and No. 12.
- 2. Shoreline Inspection Refer to Supplemental Instructions, Shoreline Inspection, 3-18-44; Field Memorandum No. 1, 6-20-38 and Photogrammetry Instructions No. 17.
 - a. Inshore and approximate offshore (indefinite) limits of marsh, swamp, etcetera, at mean high-water indicated by short dashes. Approximate offshore limits, in addition, noted as "Flooded at MHW", et cetera.
- 3. Interior Field Inspection Refer to:
 - a. Road Classification Photogrammetry Instructions

- No. 10 (and Amendment thereto) and No. 17.
- b. Bridge Classification Photogrammetry Instructions No. 13 (and supplement thereto in the Acting Director's letter dated 12-16-47) and No. 17.
- c. Woodland Classification Photogrammetry Instructions No. 15 and No. 17.
- d. Field Edit Instructions, 8-24-45, and Field Edit Instructions Supplement 1, 2-4-46.
- 3. Shoreline, culture, drainage, vegetation and swamp features, and boundaries and abbreviations Photogrammetry Instructions No. 17.

COLOR SCHELE

- 1. Horizontal Points (direct identification and substitute point or reference measurement methods).
 - a. Horizontal control point, azimuth point and topographic point - Red
- 2. Photogrammetric Points (direct identification and substitute point or reference measurement methods)
 - a. Photo point Red (horizontal points) or purple (other points such as section corner and boundary monument) .
 - b. Photo-hydro point (hydrographic signal point) Blue
- 3. Vertical Points
 - a. Bench point Blue
 - b. Spot point Blue
- 4. Other points
 - a. Recovered and unrecovered section corners, boundary monument, etc. Purple
- 5. Mean High-water Line Red

- 6. Approx. Mean High-Water Line Red and labeled
- 7. Indefinite Shoreline (definite and approximate offshore limits as well as inshore limits of marsh, swamp, et cetera) Blue
- 8. Low-Water Line (MLW on East Coast and MLLW on West Coast) Red
- 9. Approx. Low-Water Line (MLW on East Coast and MLLW on West Coast) Red
- 10. Shoal or reef line Red and labeled
- ll. Drainage
 - a. Streams, sloughs, ditches, etc., if single lined -.. Blue
 - Ponds, streams, canals, sloughs, etc., if double lined - Red

Note: No streams, ditches, canals, etc., have been double lined unless its actual width could be shown on the photo.

- 12. Cultural features Red
- 13. Boundaries Purple
- 14. Deletions Green
- 15. Tick Mark (to denote change in stream or shoreline identification, etc.) Red
- 16. Notes on Photographs All notes in <u>red</u> unless noted otherwise

STATION NAMES (examples)

Triangulation and Traverse

Landmark Stations ----- TANK, ELEV (Eureka Tank, 1948)
(Naut., Aero., or Int. Ldmk,
90 feet high)

Fixed Aids to Navigation ---Reeder Lt. (Reed Lt., 1935)
Light List name (unused) if abandoned
Front Daybn 4 (Beacon 4, 1946)
- Light List Name

Shoreline Control for Ship

Hydrography -----Eureka, 1946 - first 4 letters underlined or all if less than 4

Topographic

Landmark Stations -----CUPOLA (Humboldt Club), 1946
(Naut., Aero., or Int. Ldmk)

Fixed Aids to Navigation--Reeder Lt. - Light List name
Reeder Lt. (unused) - if abandoned
Front Daybn 4 - Light List name

N.B.: Any permanent (steel or masonry) abandoned light structure recommended as nautical landmark. The correct names for all fixed aids to navigation have been obtained from the latest edition of the Light List and their distinctive markings and descriptions checked in the field.

Shoreline Control for Ship

Interior Marked Stations ---Eureka Az Mk, 1946
PTS 14 (USGS, 1910), 1948 control less than
3-order

Hydrographic Station

Shoreline Control -----6001 (lone fir tree) - first signal site in T-8960; described in sketchbook

Bench Mark

Spotted -----BM L 104, 1947

N.B.: New triangulation stations are given names of 5 or more letters; topographic stations - 4 letters; however descriptive, geographic, or personal names were preferred to arbitrary ones.

Approved:

R.A. Earle

Charles W. Cl

- W.H. Bainbridge Comdr.-USC&G Survey Chief of Party Respectfully submitted:

Charles Hanavich Topographic Engineer

PHOTOGRAMMETRIC PLOT REPORT Map Manuscripts No's. T-8960 to T-8965, Incl. Project Ph-25(47)

21: AREA COVERED:

This radial plot comprises Map Manuscripts No's. T-8960 to T-8965, inclusive. The area covered is in the State of California and includes Humboldt Bay, Arcata Bay, the cities of Eureka and Arcata, and the lowlands adjacent thereto.

22: METHOD:

It was not necessary to use base grid sheets and the radial plot was run directly on the six map manuscripts which had been joined together with clear cellulose tape.

The photographs were taken with Camera "D" in 1947 and 1948 and ratio prints at a scale of 1:10,000 were furnished for the project. These ratio prints did not contain special fiducial marks for use in correcting for paper distortion and no attempt was made to correct for paper distortion by other methods.

Radials were drawn on templets made of pieces of .005" clear acetate, 18" X 18" square, which were cut from a roll 36" X 100'. Craftint Red Plastic Ink #111 was used to draw all the radials.

In all but a few instances the radials to horizontal control stations passed directly through the points of their plotted positions on the map manuscripts. In no case was any radial held more than 0.1 mm off the plotted point. The closure was excellent and about 90% of the intersections of radials to pass points were practically perfect.

After all the templets were oriented and securely fastened with masking tape to the joined six map manuscripts, the radial plot was turned face down on the radial plot table.

This office has constructed a glass top table, with lights, at the same height as the radial plot table. This table can be conveniently moved about and can be abutted to any portion of each side of the radial plot table.

In its face down position the radial plot was placed over the glass top table, a portion at a time, and the photograph centers and intersections of radials to pass points, for that portion of the plot, were pricked and circled directly on the reverse side of the map manuscripts. Craftint Blue Ink #234 was used for this purpose. This process was repeated until the entire radial plot was covered and all photograph centers and pass points had been pricked and circled on the reverse side of the joined map manuscripts.

The radial plot was then turned face up and the templets and map manuscripts dismantled.

The transferring of photograph centers and pass points from within the projection limits of one map manuscript to the margin of an adjoining map manuscript was done by matching meridians and parallels common to each sheet.

23: ADEQUACY OF CONTROL:

The field unit identified an ample number of horizontal control stations for this radial plot.

Several stations, which were not marked and not described, were tentatively identified by the field unit, subject to how well they could be held to in the radial plot. They are:

WEST HOUSE WITH WHITE DOOR ON S. SIDE, WEST GABLE, 1919 in T-8960 PEN (USE), 1911 in T-8961 JIM (USE), 1911 in T-8962 PRICE (USE), 1911 in T-8962 HOWE, 1919 in T-8962

These stations could not be held. to along with numerous other well identified stations and This fact has been noted on their respective recovery notes.

Facts concerning station "CUPOLA, BAYSIDE COMMUNITY PRESBYTERIAN CHURCH, 1948" are contained in a copy of a letter to The Director, 7-896/ which is attached. (2-60)

24: SUPPLEMENTAL DATA:

There were no graphic control surveys or other supplemental control data furnished for the area of this project.

25: PHOTOGRAPHY:

The photographs taken in 1948 furnished adequate coverage and overlap except as follows:

In T-8965 in the vicinity of Fields Landing.

In T-8965 in the vicinity of Salmon Creek.

In T-8960 between Eureka and Arcata.

In T-8962 along the west limits of the map manuscript.

For the mean high-water line along the Pacific Ocean shoreline.

In the above listed areas the photographs taken in 1947 were used to supplement the 1948 photography.

A sketch is attached showing the location of photograph centers and horizontal control stations in the area.

Approved:

Charles W. Clark Chief of Party

Respectfully submitted: J. Edward Deal Jr.

J. Edward Deal, Jr.

Cartographer

Page XI N.A. AQO 491 28.282" ASTA AQO 491 29.282" ASTA AQO 491 29.282" ASTA AQO 491 29.292" ASTA AQO 491 29.292" ASTA AQO 491 29.292" ASTA AQO 491 29.297" AQO 491	MAP I & SECTION		- PROJE	PROJECT NO. #### 80.14.C.	4. Sep. 6. f.	SCALE OF IMAP ARANGEMON	W. S. W. W. W.	C)0	ノーンドーコー	SCALE FACTOR None
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N.4. 400 49! 07.690" 68.4 (1336.1) N.4. 400 49! 07.690" 237.2 (1613.6) N.4. 400 49! 21.350" 10.082" 1927 124° 11! 10.082" 236.3 (1169.8) N.2388.1 N.2388.1 N.236.3 (1169.8) N.2388.1 N.23888.1 N.23888.1 N.23888.1 N.23888.1 N.23888.1 N.23888.1 N.23888.1 N.238888.1 N.23888.1 N.23888888888888888888888888888888888888	WEST	6-6168	N.K.					1659.6	(191.2)	A
N.A. 40° 49' 07.690" 237.2 (1613.6) 1927 124° 10' 47.071" 1103.1 (303.0) N.A. 40° 49' 21.350" 658.6 (1192.2) 1927 124° 11' 10.082" 236.3 (1169.8) DATE 9/20/48 CHECKED BY. James I., Harris DATE 9/20/48 CHECKED BY. James I., Harris DATE 9/20/48 DATE 9/21/48 DATE 9/21/48 DATE 9/21/48 DATE 9/21/48 DATE 9/21/48 DATE 9/21/48 DATE 9/21/48 DATE 9/21/48 DATE 9/21/48	GABLE, 1919	rage 105	1927			*		68.4	(1336.1)	29.
1927 124° 10' 47.071" 1103.1 (303.0)	WOOD CO. WHITE CON	C. Page	N.A.					237.2	(1613.6)	2
Page N.A. 400 49' 21.350" 658.6 (1192.2) 271 1927 124° 11' 10.082" 236.3 (1169.8) Ante 9/20/48 CHECKED BY. James L. Harris Date 9/21/48	STACK 1928. 1941	303	1927		47.071"			1103.1	(303.0)	32
H. Elrod DATE 9/20/48 CHECKED BY. James L. Harris DATE 9/21/48	•	Page	N.A.					658.6	(1192.2)	
Elrod DATE 9/20/48 CHECKED BY. James L. Harris DATE 9/21/48	1	27.7	1927					236.3	(1169.8)	
	H.	Elrod	P DA		87,	снескер ву. James	L. Harris			

None	FROM GRID OR PROJECTION LING FORWARD (RACK)															Fe	age	٤	2		M - 2388 - 12	
SCAL FACTOR None	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE FRO FORWARD (BACK)	(1 478 7)		1		=															DATE 9/21/48	
000,0	J.W.																				Harris	
SCALE OF MAP_1:10,000	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)						In poor conditioning														CHECKED BY: J. L.	
MAP T- 8960 PROJECT NO. Ph-25(47)	LATITUDE OR V-COORDINATE LONGITUDE OR x-COORDINATE	40° 49' 08,823"	1240 101 49,985"	40° 521 26.638"	160	1,00 511 09,379"	1240 091 25,788"						*		*			4		7	9/20/48	
. PROJEC	DATUM	N.A.	1927	N.A.	1927	N.A.	1927			-	* *	*		+ 5		-					DATE.	
0	SOURCE OF INFORMATION (INDEX)	8919-0	XI 6168	Office	1927 Comp.	Page	XI 63														Elrod	
MAP T- 8960	STATION	- SAMOA INCINERATOR G-6168	(Gin) 1921 r 1929 XI 6168		MIDDLE, RM 2, 192		HIGH 2 (USE) 1939 XI 63														COMPUTED BY: F. H.	

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	OR x-COOF	SDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)		DATUM	N.A. 1927 - D DISTANCE ROM GRID OR PROJE IN METERS	ATUM ' scrion Line s (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
DOCK (USE)	Page 292	N.A. 1927	124 051		22,220"				685.4	(1165.4)	
ARCATA, CATHOLIC CHURCH, GOLD CROS	G-6013 S Page XV 306	N.A. 1927	124° 051		31,995"				986.9	(863.9)	
HOUSE WITH RED	G-6168 Page	.A. N	1000	-	15,602"				481.3	(1369.5)	
WILLIAMSON 1927		N.A. 1927			28.554"				880.8	(970.0)	
JOE (USE)	Page	N.A.	1 7	-	128"				401.9	(1448.9)	
BAY 2 (USE) X	Page	N.A. ×	40 491		37.881" 57.283" 53.571"				1767.0	(83.8)	Destrayed (1948)
•	Page	N.A.			56.433"				1740.8	(0.011)	
ARCATA 1941		1927	1240 061		1684.60				229.2	(1175.6)	
STATE TEACHERS COLLEGE CUPOLA, 1921	L- Page XV 306	N.A. 1927	124° 04'		38.215"				811.0	(672.0)	
McCLUSKI HILL	14	N.A.			25.676"				792.0	(1058.8)	North of map
ARCATA, GOLDEN STA	N STATES BLACK G-6013	1927 N.A.	124, 05		16.108"				343.9	(1506.9)	limit
RESIDE	XV 306	1927	124 051	31 26.62	62 "				623.4	(781.7)	ige
BAY 2 (USE)	Field	N. A. 1927	127,0 07,1	-	57.607"				12%6.0	(73.8)	343
FRY FINIAL JA	_	N.A. 1927			34,197"				1054.9	(795.9)	
OOG METER	L. Harris		II ca	87/		CHECKED BY:	F. H. El	Elrod		DATE 9/23/48	M-2388-12

TON			2002	NOterrander	SCALE OF MAP	200	2	SCALE I ACI ON	T. W. W. W.
		SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR p-COORDINATE LONGITUDE OR x-COORDINATE		UM STION	N.A. 1927 DISTAI FROM GRID OR PR IN WET FORWARD	- DATUM' NCE ROJECTION LINE FERS (BACK)	DIST/
Harry Soc 1927 124° 111 03,753° 1926. 1426.3 (424.5) 1927 124° 111 03,753° 1926. 1426.3 (424.5) 1426.3 (424.5) 1426.3 (424.5) 1426.3 (424.5) 1426.3 (424.5) 1426.3 (424.5) 1426.3 (424.5) 1426.3 (424.5) 1426.3 (424.5) 1426.3 (424.5) 1426.3 (424.5) 1426.3 (424.5) 1426.3 (424.2) 1426.3 (424.2) 1426.3 (424.2) 1426.3 (424.2) (SOUTH EUREKA HAM-	Page	N.A.	471 39.08			1205.6	(645.2)	•
Chicaga Hole Col. Page N. A. P. 40° 46' 46' 239" 772.1 (534.8) 772.1 (SHANTSHR. POLITIE	302	1927	יננ			88.0	(1318.7)	
Check 1927 1927 124° 121 32.927" 349.0 (1501.8) 1501.8 15	SOUTH EUREKA HOLM FUREKA LUMBER CO.	Page	N.A.	197			1426.3	(424.5)	
Curb 1941 Page N.A. 40° 48' 11.314" 782.1 624.4) 782.1 624.4) 782.1 624.4 782.1 624.4 782.1 624.4 782.1 624.4 782.1 624.4 782.1 624.4 782.1 624.4 782.1 624.4 782.1 624.4 782.1 624.4 782.1 624.4 782.1 624.4 782.1 624.4 782.1 624.4 782.1 624.4 782.1 782.1 624.4 782.1 782.	BRICK STACK, 1941	302	1927	, TT,			772.1	(634.8)	
USE 1941 290 1927 124° 101 33.364" 782.1 (524.4)		Page	ļ.	187			349.0	(1501.8)	
Page N.A. i LOO LOS	(USE)	290	1927	101			782,1	(624.4)	
1941 290 1927 124° 11' 16.197" 1941 296 1947 (1027.6) 1941 285 1927 124° 10' 4/148" 1112.3 (295.1) 1941 286 N.A.; 4.0° 45' 33.025" 265.2 (885.6) 1951 1941 290 1927 124° 11' 6.896" 268.7 (1198.7) 1966 N.A.; 4.0° 46' 28' 30' " 268.7 (1198.7) 1966 N.A.; 4.0° 46' 28' 20' " 268.7 (1198.7) 1966 N.A.; 4.0° 46' 10.922" 268.7 (1198.7) 1967 1947 124° 09' 09' 04' " 211.9 (1194.5) 1968 N.A.; 4.0° 48' 10.922" 211.9 (1194.5) 1968 N.A.; 4.0° 48' 10.922" 211.9 (1194.5) 1968 N.A.; 4.0° 48' 10.145" 405.5 (1445.2) 1969 N.A.; 4.0° 46' 56.270" 126' 0, 127' 8 (255.0) 1971 N.A.; 4.0° 46' 56.270" 126' 0, 127' 8 (255.0) 1972 N.A.; 4.0° 46' 56.270" 1738.8 (112.0) 1971 N.A.; 4.0° 45' 35.88 " 112.30 " 116.8 (744.0) 1971 N.A.; 4.0° 45' 35.88 " 116.8 N. 1. H. Wilmiford 116		Page		197			1213,1	(637.7)	
1941 285 1927 124° 10: 47.418" 1112.3 (295.1) 1941 285 1927 124° 10: 47.418" 1112.3 (295.1) 1951 1941 290 1927 124° 11: 08.396" 208.7 (1198.7) 1952 1942 124° 11: 08.396" 208.7 (1198.7) 1953 1943 1944 1945 124° 09: 09.04 208.7 (1198.7) 1953 1943 1944 1945 124° 09: 09.04 208.7 (1198.7) 1954 1945 1945 1946 1946 1946 208.7 (1198.7) 1955 1945 1946 1946 1946 1946 208.7 (1198.7) 1955 124° 09: 1946 1946 1946 1946 208.7 (1198.7) 1955 124° 09: 1946 1946 1946 1946 208.7 (1145.2) 1955 124° 09: 1946 1946 1946 1946 208.7 (1145.2) 1956 1957 124° 09: 1946 1946 1946 1946 208.6 (1145.2) 1958 1957 124° 09: 1946 1946 1946 1946 1946 208.6 (1146.2) 1958 1957 124° 12: 196.0 196.8 196.4 (112.0) 1958 1958 1958 1958 1958 1958 1968	(USE)	290	1927	ינו			379.4	(1027.6)	
1941 285 1927 124° 101 47.418" 965.2 (885.6) 1885.6 1927 124° 111 08.896" 965.2 (885.6) 1941 290 1927 124° 111 08.896" 208.7 (1198.7) 1941 290 1927 124° 091 09.04 " 201.9 (1194.5) 1942 1943 1944		Раде		451			1018.7	(832.1)	
Cuer 1941 290 1927 124° 11 08.896" 208.7 (1198.7) 208.7 (1198.7) 208.7 (1198.7) 208.7 (1198.7) 208.7 (1198.7) 208.7 (1198.7) 208.7 (1198.7) 208.7 (1198.7) 208.87 208.7 (1198.7) 208.7 (1198.7) 208.7 (1198.7) 208.7 (1198.7) 208.7 (1198.7) 208.7 (1198.7) 208.7 (1198.7) 208.7 (1198.7) 208.7 (1198.7) 208.7 (1198.7) 208.7 (119.7) 209.7 (124° 09.90, 04." 209.7 (119.7) 209.7 (124° 09.90, 04." 209.7 (124° 09.90, 04." 209.7 (124° 09.90, 04." 209.7 (124° 09.90, 04." 209.7 (124° 09.90, 04." 209.7 (124° 09.90, 04." 209.7 (124° 09.90, 04." 209.7 (124° 09.90, 04." 209.7 (126° 09.90, 04." 209.7 (126° 09.90, 04." 209.7 (126° 09.90, 04." 209.7 (126° 09.90, 04." 209.7 (126° 09.90, 04." 209.7 (126° 09.90, 04." 209.7 (126° 09.90, 04." 209.7 (126° 09."		285		101 47.41			1112,3	(295.1)	
(USE) 1941 290 1927 124° 111 08.896" 208.7 (1198.7) (USE) 1941 290 1927 124° 091 08.04" 208.7 (1198.7) (USE) 1941 304 1927 124° 091 09.04" 20.04" 20.05 11.9 (1194.5) (USE) 1942 304 1927 124° 091 29.687" 20.05 (471.5) (USE) 1943 XV 305 1927 124° 091 31.560" 20.05 (471.5) (USE) 1943 XV 305 1927 124° 124° 121.560" 20.030" 20.07 (120.0) (USE) 1943 XV 305 1927 124° 124° 121.20" 20.030" 20.07 (120.0) (USE) 1945 XV 305 1927 124° 124° 121.20" 20.030" 20.07 (120.0) (USE) 1945 XV 305 1927 124° 124° 121.20" 20.030" 20.07 (120.0) (USE) 1956 XV 305 1927 124° 124° 121.20" 20.030" 20.07 (120.0) (USE) 1957 XV 305 1927 124° 124° 124° 124° 121.30" 20.030" 20.07 (120.0) (USE) 1958 XV 305 1927 124° 124° 124° 124° 125.30" 20.030" 20.07 (120.0) (USE) 1958 XV 305 1927 124° 124° 124° 124° 125.30" 20.05 (120.0) (USE) 1958 XV 305 1927 124° 124° 125.30" 20.030" 20.07 (120.0) (USE) 1958 XV 305 1927 124° 124° 125.30" 20.030" 20.07 (120.0) (USE) 1958 XV 305 1927 124° 124° 125.30" 20.030" 20.07 (120.0) (USE) 1958 XV 305 1927 124° 124° 125.30" 20.030" 20.05 (120.0) (USE) 1958 XV 305 1927 124° 124° 125.30" 20.030" 20.05 (120.0) (USE) 1958 XV 305 1927 124° 124° 125.30" 20.05 (120.0) (USE) 1958 XV 305 1927 124° 125.30" 20.05 (120.0) (USE) 1958 XV 305 1927 124° 124° 125.30" 20.05 (120.0) (USE) 1958 XV 305 1927 124° 124° 125.30" 20.05 (120.0) (USE) 1958 XV 305 1927 124° 124° 125.30" 20.05 (120.0) (USE) 1958 XV 305 1927 124° 124° 125.30" 20.05 (120.0) (USE) 1958 XV 305 1927 124° 124° 125.30" 20.05 (120.0) (USE) 1958 XV 305 1927 124° 124° 125° 125° 125° 125° 125° 125° 125° 125		Раде		157			965.2	(885.6)	
######################################	1201 (USE) 1941	230	1927	ים			208.7	(1198.7)	
WATER TANK, Page 305 1927 124° 091 09.04 " WATER TANK, Page 305 1927 124° 091 09.04 " P1915 A CITY HALL G-6168 N.A.: 40° 481 13.145" A CITY HALL G-6168 N.A.: 40° 481 13.145" WEST EAV SOUTH G-6013 N.A.: 40° 451 51.797" WEST EAV SOUTH G-6013 N.A.: 40° 451 51.797" CUSE) G-6168 N.A.: 40° 451 51.797" G-6168 N.A.: 40° 451 51.797" CUSE) A CITY HALL G-6168 N.A.: 40° 451 51.797" CUSE) G-6168 N.A.: 40° 451 51.797" CUSE) A CITY HALL G-6168 N.A.: 40° 451 51.797" CUSE) A CITY HALL G-6168 N.A.: 40° 451 51.797" CUSE) A CITY HALL G-6168 N.A.: 40° 451 51.797" CUSE) A CITY HALL G-6168 N.A.: 40° 451 51.797" CUSE) A CITY HALL G-6168 N.A.: 40° 451 51.797" CUSE) A CITY HALL G-6168 N.A.: 40° 451 51.797" CUSE) A CITY HALL G-6168 N.A.: 40° 451 51.797" CUSE) A CITY HALL G-6168 N.A.: 40° 451 51.797" CUSE) A CITY HALL G-616 N.A.: 40° 451 51.797" CUSE) A CITY HALL G-616 N.A.: 40° 451 51.797" CUSE) A CITY HALL G-616 N.A.: 40° 451 51.797" CUSE) A CITY HALL G-616 N.A.: 40° 451 51.797" CUSE) A CITY HALL G-616 N.A.: 40° 451 51.797" CUSE N.A.: 40°		6-6013		481 28.90			891.5	(959.3)	
# CITY HALL G-6168 N.A.: 40° 48' 10.952" 935.0 (471.5) # CITY HALL G-6168 N.A.: 40° 48' 13.145" 405.5 (1445.3) # CITY HALL G-6168 N.A.: 40° 48' 13.145" 405.5 (1445.3) # CITY HALL G-618 N.A.: 40° 48' 13.145" 405.5 (1445.3) # CITY HALL G-619 N.A.: 40° 45' 51.797" 124° 124° 124° 124° 1250" 1250" 1250.6 # CITY HALL G-613 N.A.: 40° 45' 51.797" 1250" 1250.6 # CITY HALL G-613 N.A.: 40° 45' 56.370" 1250" 1250.6 # CITY HALL G-613 N.A.: 40° 45' 56.370" 1250 1250 1250 1250 1250 1250 1250 1250		Page 305		00.60 160			211.9	(1194.5)	
# CITY HALL G-6168 N.A.: 40° 48' 13.145" 405.5 (1445.3) 4 CITY HALL G-6168 N.A.: 40° 48' 13.145" 405.5 (1445.3) 1919 XI 103 1927 124° 09' 51.443" 1205.9 (200.6) DT BAY SOUTH G-6013 N.A.: 40° 45' 51.797" 1260" 14' 31.560" 1597.8 (253.0) CHET 1941 XV 305 1927 124° 12' 00.030" 1738.8 (112.0) LIT. 1939 XI 94 1927 124° 12' 00.030" 0.7 (1406.2) DI HAY FOUTH G-6013 N.A.: 40° 45' 52.88" 1738.8 (112.0) L. STATION BLINKER, 1941 XV 305 1927 124° 13' 12.30 " 1106.8 (744.0) BLINKER, 1941 XV 305 1927 124° 13' 12.30 " 10'7/48 10'7/48 10'7/48 10'7/48	UREKA HUMBOLDT OF	Page		78, 10.95			337.8	(1513.0)	
A CITY HALL G-6168 N.A.: 40° 48' 13.145" 405.5 (1445.3) LOTE BAY SOUTH TOTAL SOUTH TOTAL SOUTH TOTAL SOUTH TOTAL SOUTH TOTAL STATION TOTAL SOUTH TOTAL SOUTH TOTAL SOUTH TOTAL SOUTH TOTAL STATION TOTAL SOUTH TO	TTOP 1919, 1941	304	1927	160	,		935.0	(471.5)	
1919 XI 103 1927 124° 091 51.443" DT EAX SOUTH WEST END, G-6013 N.A.; 40° 451 51.797" (USE) (USE) G-6168 N.A.; 40° 461 56.370" L r. 1939 XI 94 1927 124° 141 31.560" L STATION G-6168 N.A.; 40° 461 56.370" L STATION G-6013 N.A.; 40° 451 35.88 " L STATION G-6013 N.A.; 40° 451 12.30 " BLINKER,1941 XV 305 1927 124° 131 12.30 " G-808. F. H. Elrod DATE 9/21/48 CHECKED BY. J. H. Winniford GARD 10.7/49 AND THE NATION GARD 10.7/49 CHECKED BY. J. H. Winniford GARD 10.7/49 GARD 10.7/49		99-61-68	N.A.	187			405.5	(1445.3)	
CDT BAY SOUTH G-6013 N.A.; LOO L	1919	XI 103	1927	091 51.44			1205,9	(200.6)	
XV 305 1927 124° 14' 31.560" 746.2 (667.1) 9 XI 94 46' 46' 56.370" 0.7 112.0) 04 45' 124° 12' 124° 12' 124° 194 XV 305 1927 124° 13' 12.30" 12' 194 XV 305 1927 12' 13' 12.30" 12' H. Elrod DATE 9/21/48 CHECKED BY. J. H. Winnifford DATE 10/7/49	LDT BAY WFST I	G-6013		451 51	in the second se		1597.8	(253.0)	
G-6168 N.A.; 40° 46' 56.370" 1738.8 (112.0) 04	NED LICHT 1941	XV 305	1927	14, 31			740.2	(667,1)	
9 XI 94 1927 124° 121 00.030" 0.7 (1406.2) OG G-6013 N.A.: 40° 45 35.88 " 12.30 " 124° 13 12.30 " 12.		61-63	N.A.	461			1738.8	(112.0)	Pa
0G G-6013 N.A.: 40° 45: 35.88 " 10.230 " 10.24 XV 305 1927 124° 13: 12.30 " CHECKED BY J. H. Winniford Date 10/7/49 " 1238	1911 r. 1939		1927	121			0.7	(1406.2)	ge
1941 XV 305 1927 124° 13' 12.30" 288.5 (1118.9) H. Elrod DATE 9/21/48 CHECKED BY J. H. Winniford DATE 10/7/48	TUMBOLDT BAY FOG	6-6013		45, 35.88			1106.8	(7/7.0)	<i>3\$</i>
H. Elrod DATE 9/21/48 CHECKED BY. J. H. Winniford DATE 10/7/49	REEN BLINKER, 1941	λ×		13, 12,30			288.5	(1118.9)	
	ı.	lrod	VQ		CHECKED BY J. H.	Winnifor		ATE 10/7/	

ATION	MAP T. 8962	•	PRO.IFC	PROJECT NO Ph-25(47)	SCALE OF MAP 1:10,000	000.	SCALE ACTOR None	FACTO	R None
UNE Comp. Comp.	NOI	SOURCE OF FORMATION (INDEX)	DATUM	LONGITUDE OR V-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	l		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
USE 1940 197 124° 11 31.441" 1971 1970 1971 1971 1971 1971 1971 1971 1972 1		1-6168	ll .	1.27			1812.6 (38.2)	
Page N.A. 400 47! 31.893" 666.5 (66	USE)	5		וו		i i	4	(5.699	
Cuse Page N.A. 124° 12! 28.430" 666.5 (28.00	N.A.	1.27			4	879.3)	-
NO. 1 (USE) Page N.A. 40° 46' 26.366'' 813.3 (1) 1941 285 1927 124° 13' 11.975'' 280.8 (1) 241 285 1927 124° 13' 11.975'' 13.259'' 13.24.4 (1928 r. 1941	285	1927	121			٦	740.2)	
1941 285 1927 1240 131 11.975" 280.8 (1) 1929	NO. 1 (USE)	9826	1	197				(1037.5)	
G-G168 N.A.; 40° 48! 43.259" 1334.4 (Page 9/27 124° 11' 16.020" 375.5 (1) XI 30 40° 46' 00.849" 26.2 (1) Page XV 305 1927 124° 13' 01.132" 26.5 (1) XV 305 1927 124° 09' 43.43 " 26.5 (1) Page 304 1927 124° 09' 48' 11.288" 1018.2 (1) Page 1927 124° 08' 11.288" 1018.2 (1) Page 1927 124° 08' 11.632" 124° 08' 11.617" Page 1927 124° 08' 11.617" 124° 08' 11.617" Page 1927 124° 09' 22.186" 1842.8 (1) Field N.A.; 40° 47' 25.340" 1601.3 (1) Field N.A.; 40° 47' 25.340" 122,0 10' 56.213" Frield N.A.; 40° 48' 10.188" 1317.9 (1) Field N.A.; 40° 48' 10.188" 124° 08' 15.30" Frield N.A.; 40° 48' 10.28.30" 124° 08' 15.30"	1761	285	1927	13, 11.97			1	(1126.2)	
Page Page 1927 124° 11' 16,020" 26.2 (1)	LONE TANK	3-6168		187				(7.915	
G-6013 N.A. LOO	1039	- age		111			1	(3.0501)	
Page 1927 124° 13¹ 01,132" 26.5 (1) XV 305 1927 124° 09¹ 43.43" 788.8 (1) Rage N.A. 40° 48¹ 11,288" 1018.2 1018.2 Page N.A. 1927 40° 48¹ 11,288" 348.2 1018.2 904 1927 124° 08¹ 17,632" 348.2 1 Page N.A. 1024° 11¹ 11.617" 1842.8 1842.8 1842.8 Field N.A. 240° 46¹ 51.910" 1601.3 1601.3 1601.3 1601.3 Field N.A. 240° 48¹ 10.188" 1317.9 1601.3 1601.3 1601.3 1601.3 Field N.A. 240° 48¹ 10.188" 15.301" 314.2 174.7 174.7 174.7 Page N.A. 260 47¹ 25.115" 174.7 174.7 174.7 174.7 174.7	T BAY,	6013		197				(1824.6)	
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1948 Comp. 1927 124° 10' 56.213" 1317.9 (RADIO TOWER Field N.A. 40° 48' 10.188" 314.2 (1) R OF TWO 1948 Comp. 1927 124° 08' 15.301" 358.7 (1) Page N.A. 40° 47' 25.115" (1)	2	ield		471				(1069.2)	
RADIO TOWER Field N.A. : 40° 48' 10,188" 314.2 (1) R OF TWO 1948 Comp. 1927 124° 08' 15.301" 358.7 (1) Page N.A. : 40° 47' 25.115" 774.7 (1)	1978	Comp.	1927	10' 56.21			1317.9 (88.8)	
OF TWO 1948 Comp. 1927 124° 08' 15.301" 358.7 (J	RADIO TOWER	ield.		81°01 .87 007				(1536.6)	A
Page N.A. ' 40° 47' 25,115"	OF TWO 1948		1927	180				(1047.8)	
				* 47 ₀ 07			7	(1.9701)	36
1941 286 1927 124° 09' 41.124"	2, 1941	286	1927	l i			964.2 (442.5)	

MOLEVE	SOURCE OF		LATITUDE OR W-COORDIN	JR y-C00	COORDINATE	DISTANCE FROM GRID IN FEET.	DATUM	N.A. 192	1927 - DATUM PISTANCE	FACTOR DISTANCE	The Party of the P
NO.	INFORMATION (INDEX)	DATOM	LONGITUDE OR x-COORDINATE	OR x-C0	ORDINATE	OR PROJECTION LINE IN METERS FORWARD (BACK)	Ö		FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FORWARD (BACK)	. 1
, M STREET	Page	N.A. :	187 007	192	20.454"			630.9	(1219.9)	200	
A.		1927		091 26	26.142"			612.8	(793.6)	no pood	- 1
EUREKA CATHOLIC	P	N.A.		70 187	1616.70			151.7	(1,669.1)		
1919 cauca	303	1927		691 43	43.934"			1029.9	(376.6)	//	Control of the last
EUREKA, DOLHERR &	Page	N.A. :	87 007	72 187	27.64,611			852,8	(0.866)		
BRICK STACK, 1941		1927		80 160	08.488"			199.0	(1207.4)	H	
FRESH 2 (USE)	214	N.A. ;	40° 48	481 39	39.781"			1227,1	(623.7)		
1939	291	1927		081 36	36.484"			(855,1	(551.2)	H	No. of Contract of
	Page	N.A.	A STATE OF	471 56	56.944"			1756.6	(94.3)		
GEAR (USE), 1941	290	1927	1240 111		39,260"			920.3	(486.2)	4	
	Page	N.A.	37 007	68 187	39.582"			1221.0	(629.8)		0
HAM, 1941	286	1927	111111	11, 18	18,483"			433.2	(973,1)	A-	
HUMBOLDT NORTH	Page	N.A.		451 05	05.030"			155.2	(1695,6)		1
BASE, 1941	285	1927	NEW YORK	13 51	51.856"	Also TBH No. 9, 1945		1216.5	(191,1)	"	
	Page	N.A		481 32	32,621"			1006,3	(844.5)		
MANN (USE) 1919	XV 291	1927	10000	091 32	32,130			753.1	(653.2)	"	
	Page	N.A.	Share .	481 30	30,631			6.446	(905.9)		1
OIL (USE) 1919	290	1927	10000	75 160	54.031"			1266,4	(139.9)	n	
	8979-5	N.A. "	37 007	481 43	43.342"			1337.0	(513.8)		
POTNT (IISE) 1919	XI 97	1927		180	54.030"			1266.4	(139.9)	" "	
ROLPH SHI PYARD	8919-5	N.A.	7007	471 18	18,20 "			. 561.4	-		
SOUTH TANK, 1919	XI 98	1927		11, 52	52.44 "			1229.5	(177,3)		
SOUTH EUREKA, HOLD	Page	N.A. 6		97 197	46.517			1434.9	(415.9)	3	110000
BLACK TANK 1941		1927	100	11. 34	34.498"	•		808.9)	×	L
1 FT. = . 3048006 METER	larris			1		CHECKED BY. J.	H. Winniford			10/7/28	11

None	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)							Page	38	M · 2388 · 12
SCALL FACTOR	27 - DATUM TANCE PROJECTION LINE ACTERS (BACK)	(208.4)	(1835.0)							DATE 10/7/48
SC		1642.4	15,7							æd.
1:10,000	DATUM									Winniford
SCALE OF MAP. 1	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)									СНЕСКЕО ВУ. Ј. Н.
PROJECT NO Ph-25(47)	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	40° 45' 53.244" 124° 13' 52.247"	141							DATE 9/24/48
PROJE	DĄTUM	N.A.: 1927	N.A.:					·		à
2	SOURCE OF INFORMATION (INDEX)	Page 102	Page 289							L. Harris
MAP T. 8962	STATION	WRECK, TALLEST MAST, 1919	LOG (USE)							COMPUTED BY.

The state of the s

MAP T. 8963		PROJE	PROJECT NO. Ph-25(47)	SCALE OF MAP. 1:10	1:10,000	SCALE	-EACTOR	R None
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR v-COORDINATE LONGITUDE OR x-COORDINATE	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)	- DATUM NCE COLECTION LINE FERS (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
	ÿ	j	771 13.10			404.3	(1446.5)	
KALKERS POINT, OLD	74 X	1927 N.A.	124 07 07.147" 10° 48' 27.62 "			852.0	(8,866)	
FARM, NURTH CABLE	XI 101		051		_	1376.3	(30.0)	
MEADOW, 1928	Page *	N.A.	187			1532.5	(318.3)	
r. 1941	286	1927	190			9**/69	(711.6)	
	6-6168	N.A.	471			1149.4	(701.4)	
-RAM (USE) 1911	XI 97		124° 051 23.938"			561.2	(845.4)	
BRICK (USE)	6-6168	N.A.	10° 481 22 482"			693.5	(1157,3)	
1919 r. 1929	XI 100		140		·	920.3	(486.1)	
	3919-5	N.A.	187			371.2	(1479.6)	
ROAD (USE) 1911	x⊓ 96		38			132,1	(1274.3)	
						:	ŀ	
-		·						
-								
		·						
								Rge
	·							39
								8
1 FT 3048006 METER COMPUTED BY: J. L.	e J.L. Harris	70	DATE 9/22/48	CHECKED BY. G. Richter	1chter	- DA	DATE 9/30/48	*.2388.12
:						_		

) None	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	destroyed.													limits					Pa	90	39	M-2388-12
SCALE FACTOR IN	N.A. 1927 - DATUM FACTOR DISTANCE DISTANCE OF PROJECTION LINE FROM GRID OR IN METERS (BACK) FORWARD	517.6 (891.1) 3-27	1354,2 (496,5)		0	908.9 (941.8)	213.7 (1195.5)	754.7 (1096.1)	596.4 (811.4)	1820.6 (30.1)	451.9 (956.7)	1221.3 (629.4)	263.7 (1145.4)	973.9 (876.9)	1149.0 (260.9) 5.0+11	254.3 (1596.4)	1388.5 (20.1)	(1.0%1) 9.011	903.9 (505.5)		196.6 (1212.5)	1591.4 (259.4) 367.1 (1041.6)	DATE
000 0	DATUM FROM	-	1			-				1		1			1		1	,					. Winniford
SCALE OF MAP_1:10,000.	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	Permand from map			(снескер ву. Ј. Н.
PROJECT NO. Ph-25(47)	LATITUDE OR V-COORDINATE LONGITUDE OR x-COORDINATE	124° 16' 22,047"	1.17	161	41.	40° 40' 29,467"	131	144	1240 14' 25.417"	40° 41' 59.023"	1240 13' 19.248"	400 401 39.595"	1240 17' 11,228"	40° 38' 31.572"	1240 171 48,899	400 421 08.243"	1240 15' 59.144"	40° 401 03.585"	1240 171 38.483"	107	124 13' 08.372"	20° 41' 51.591"	рате <i>9/23/4</i> 8
PROJEC	DATUM	N.A. 1927	N.A.	1927	N.A.	1927 N.A.	1927	N.A.	1927	N.A.	1927	N.A.	1927	N.A.	1927	N.A.	1927	N.A.	1927	N.A.	1927	N.A. 1927	P 0
0.	SOURCE OF INFORMATION (INDEX)	Page 2	1	301	Page	289 Page	289	Page	289	Page	288	Page	288	Page	284	Page	284	Office	Comp.	8919-5	XI 92	Page 284	L. Harris
MAP T- 8964	STATION	TABLE BLUFF LIGHT Page STATION RADIO TOW- 301	TABLE BLUFF LIGHT	HOUSE, 1941	HOOKTON (USE)	1941	FILL 2, 1941	MOUND (USE)	1919 r. 1941		SHEEP (USE) 1941		- RICKS, 1941		CANNIBAL, 1941	TABLE (USE)	1911 r. 1940	SALT RIVER RM #2	1937	E	1911 r. 1941	GUARD, 1941	1 FT. = 3048006 METER COMPUTED BY:

						N.A. 1927 - DATUM	- DATUM	_
STATION "	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR "-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	DISTANCE FROM-GRID-OR PROJECTION LINE IN METERS FORWARD (BACK)	NCE ROJECTION LINE TERS (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
(USE)	Field	N.A.	400 431 25.768"			8.767	(1055.9)	
Annual Control	Comp.	1927	151			272.5	(1135.5)	
TABLE BLUFF LIGHT	Page	N.A.	177			1408.4	(442.3)	
	302	1927	161		3	518.2	(890.5)	
CHANNEL	Field	N.A.	1777			1263.6	(587.1)	
2 A LIGHT, 1948	Comp.	1927	131			734.4	(673.4)	
HOOKTON CHANNEL	Field	N.A.	400 44' 26.667"			\$22.6	(1028,2)	
	Comp.	19277	131			555.0	(852.8)	
EL	Field	N.A.	40° 441 02,746"			2.48	(1766.1)	(
	Comp.	1927	1240 131 09.911"			232.6	(1175.3)	
田	Field	N.A.	431			1635.7	(215.1)	
1948	Comp.	1927	124° 13' 11.202"			262.9	(1145.1)	
HOOKTON CHANNEL	Field	N.A.	40° 441 04.773"			147.2	(1703.5)	(
DAY BEACON 3 1947	Comp.	1927	131			108.5	(1299.4)	
HOOKTON CHANNEL	Field	N.A.	40° 431 20,340"			627.4	(1223.4)	
6	Comp.	1927	131			702.6	(705.5)	
	Field	N.A.	40° 44, 26.030"			802.9	(1047,8)	
(USE), 1948	Comp.	1927	131	The second secon		27.2	(1380.6)	
						-		
						7		Pa
								9e
								**
								10
1 FT. = .3048006 METER	L. Harris	70	DATE 9/23/48	CHECKED BY. J. I	H. Winniford		DATE 10/	10/7/48 M.2388-12

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-	E OR y-C	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM		N.A. 1927 - DATOM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
PITCE NEW BARN	9-6168	N.A.	007	1 17	12.04 #			371.4	(1479.4)	
GABLE, 1919	XI 101	1927	1240		24.26 "			569.7	(839.2)	
M 2,	Page	N.A.	007		53,399"			1647.1	(203.6)	
1919 r. 1941	284	1927	1240	121	04.414"			103.6	(1304.7)	
	8919-5	N.A.	007	431	46.26 "			1426.9	(423.8)	
RED TANK, 1919	86 IX	1927	1240		45.23 "			1061.4	(346.6)	
FIELD 2 (USE)		N.A.	007	421	58,495"			1804.3	(76.4)	
1939	XI 62	1927	1240	121	48.508"			1138.5	(269.7)	2
	6-6119	N.A.	007	121	53,437"			1648.3	(202,4)	*
(SISSON 2-2)	XI 74	1927	1240		04.793"			112.5	(1295.8)	
PORAR	Eield	N.A.	007	1777	13,104"			404.2	(1446.6)	Removed from
STATION 1948	Comp.	1927	1240	11.	26.375"			618.9	(789.0)	acetate map.
ELK RIVER SCHOOL	Field	N.A.	007	431	48,205"			1,86.9	(363.8)	
	Comp.	1927	1240	101	16.311"			382,8	(1025.2)	
E3.	Field	N.A.	007	107	54.552"			1682,7	(168.0)	-
10	Comp.	1927	1240		16,767"			1098,3	(310.8)	
										Pa
										9e
										7:
					/					
1 FT. = .3048006 METER	Harris		6	9/23/18		CHECKED BY. G.	E. Richter		6/6	9/30/48

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COMPILATION REPORT Map Manuscripts No's. T-8960 to T-8965 Incl. Project Ph-25(47)

31: DELINEATION:

The compilation was accomplished entirely by graphic methods.

The 1948 photography was taken during a high stage of tide and on these photographs the mean high-water line along the shoreline of the Pacific Ocean was obscured by breakers. This mean high-water line was clearly visible on the 1947 photographs, which were taken when the tide was at a low stage. This office had not foreseen this difficulty and had not requested office photographs of the 1947 photographs in this area. The 1947 photographs, however, had been used for the field inspection work and these were utilized to supplement the 1948 photography when compiling the high-water line. Detail points were first selected along the beach, which were common to each set of photographs. These were radially plotted from the 1948 photographs and the line was detailed from the 1947 field photographs.

Refer to side heading 25: "Photography" of the Photogrammetric Plot Report for additional facts pertaining to photographs in this project.

32: CONTROL:

The placement and density of identified control stations were satisfactory.

Refer to side heading 23: "Adequacy of Control" of the Photogrammetric Plot Report for additional facts.

33: SUPPLEMENTAL DATA:

The following plans and maps, which were used to supplement the photographs are being forwarded with the map manuscripts.

1	City of Eureka California, Eureka Chamber of Commerce	Scale 1"= 400! -
2	Land USE Map of the City of Eureka	Scale 1"= 800'
3	City of Eureka, California	Scale 1"=1400'
4	Diagram of the south limits of Eureka	Scale Unknown

Map of the City of Arcata, Humboldt County California 1947

Scale 1"= 400' -

4 Map of Arcata, Humboldt Co., Calif. 1933

Scale 1"= 550' Approx.

7 Plan, State of California Board of Control Normal School, Humboldt Co. (2 parts)

Scale 1"= 2001

Nos. 2, 3.45,7 bound with Completion Report (Aug. 1451, LTS)
Not. 186 sent to Hap Files Section

34: CONTOURS AND DRAINAGE:

Not applicable.

35: SHORELINE AND ALONGSHORE DETAILS:

The mean high-water line was located by the field inspection party on the 1947 photographs. The photographs were examined, with the aid of the stereoscope and the field location was refined to agree with the definite line visible on the photographs. Refer to side heading 31: "Delineation" of this Compilation Report.

The lower low-water lines in Humboldt Bay could be readily determined on the 1947 photographs and these were compiled as delineated on the field photographs by the field unit. The areas between the mean high-water and lower low-water lines in Humboldt Bay either bare at low-water or are very shoal.

No attempt was made to determine the foreshore and approximate shoal areas in the Pacific Ocean either by field inspection or office examination of the photographs.

All alongshore details appearing on the photographs, except these deleted by the field unit, were compiled.

36: OFFSHORE DETAILS:

There were no offshore details indicated by field inspection in this part of the Pacific Ocean and none were discernable by office inspection of the photographs. All offshore details in Humboldt Bay have been compiled.

37: LANDMARKS AND AIDS:

Forms 567 are being submitted with this descriptive report for all Landmarks and Aids in the area of these map manuscripts.

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38: CONTROL FOR FUTURE SURVEYS:

Fifty-one recoverable topographic stations were radially plotted and Forms 524 are being forwarded with this descriptive report for forty-eight of these stations. The three stations for which Forms 524 are not being submitted are Azimuth Marks.

A list of recoverable topographic stations by map manuscripts has been prepared and included as part of paragraph 49. (P. 54)

There were no photo-hydro stations radially plotted in this project.

39: JUNCTIONS:

Satisfactory junctions have been made between all map manuscripts in this project.

40: HORIZONTAL AND VERTICAL ACCURACY:

There are no areas considered to be submormal in horizontal accuracy. Vertical accuracy is not applicable to this project.

46: COMPARISON WITH EXISTING MAPS:

A visual comparison was made between these map manuscripts and the Eureka, FERNDALE, and FORTUNA, California 15 min. quadrangles Scale 1:62,500, Edition of 1942, 1943 and 1944 respectively. The cultural and physical features of the map manuscripts should supercede those of the quadrangles.

Comparison was made with all maps listed under side heading 33: and in general it is believed that only approximate distances can be scaled from these maps. For the most part these maps were used to obtain the names of streets in Eureka, and Arcata, California.

47: COMPARISON WITH NAUTICAL CHARTS:

Comparison was made, by use of the vertical projector, with nautical chart 5832, Scale 1:30,000 dated December 1944. Changes that are believed of importance to warrant immediate application to the chart are:

The numerous new wharves, piers and other structures 7-8962 along the waterfront of the City of Eureka which have been built since the chart was made.

Numerous deletions and new shoreline structures along the remaining shoreline of Humboldt Bay. The building up of a spit in Humboldt Bay at Lat. 40° 46' 15" and Long. 124° 12' 00". The deletion from the chart of a portion of the Humboldt Northern Railroad on North Spit between Lat. 40° 45' 40" and Lat. 40° 47' 25". The addition to the chart of Eureka Airport on North Spit and Humboldt County Airport near Freshwater Junction.

The correction of the mean lower low-water lines shown on the chart in upper Humboldt Bay to agree with those shown for the area on Map Manuscript T-8960.

48: GEOGRAPHIC NAME LIST: THE

Geographic names, shown on the attached sheets, except those otherwise noted, were listed in Special Report, "Investigation of Geographic Names", Project Ph-25(47) and on Final Name Sheets 7/8/48 Project Ph-25(47) furnished by the Washington Office.

Names listed in the above report and not shown on the map manuscripts were either disputed names or they fall outside the detail limits of the map manuscripts.

The street names, cemetery names, parks, public buildings, etc. in the cities of Arcata and Eureka were obtained from field inspection notes and the maps of Arcata and Eureka listed under side heading 33: "Supplemental Data".

49: NOTES FOR HYDROGRAPHER:

The recoverable topographic stations have been listed on an attached sheet. (page 54)

Approved:

Chief of Party

Respectfully submitted: J. Edward Deal Js.

J. Edward Deal, Jr.

Cartographer

حات. PHOTOGRAMMETRIC OFFICE REVIEW

T. 8960

1. Projection and grids2. Title3. Manus	cript numbers4. Manuscript size
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PHOTOGRAMMETRIC OFFICE REVIEW

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Project Ph-25(47)

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TO BE CHARTED

April 1945

Enreka, California

April

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I recommend that the following objects which have (nzocnot) been inspected from seaward to determine their value as landmarks be charted on factored from the charts indicated. to BE DELETED

The positions given have been checked after listing by

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***This Fog Signal pass tion was changed during 1948. See Light List 1989 for new position (No. 733.2.) Note to March 1960 (Dec.) 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

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Project Ph-25(47)

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Eureka, California

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Page 1 of

April

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Project Ph-25(47)

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Eureka, California

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LANDMARKS FOR CHARTS

April!

Eureka, California

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Project Ph-25(47)

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The positions given have been checked after listing by

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STATE					POSITION		į	METHOD	1		CHART
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CHARTING NAME	DESCRIPTION	SIGNAL		D.M. METERS	0	D.P.METERS	DATUM	SURVEY No.	LOCATION		
	Eureka, Humboldt County Court	•	-				.¥.≈	8962			
DOME	House, Globe at top (150' bigh).		87 07	337.8	124 09	935.0	1	Trieng	1971	H	5832
ANT A	Eureka, Water Tenk, Black, Dolbeer	•	87 07	\$ \$	127,00	2,0	*	•	*	*	*
- Antiboar	Carson Residence, Fureka, Cupola	•	0	0 067	76.	9 0 0 0 7	*	*	סנטנ	>	2
and the	3 5	2.4.4.1	4 4	1	10.1	9	=	*	10.1	•	•
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	So. Fureka, Holmes Eureka Lunber C		2	2	*****	+				•	
- TANK	Black Tank (80' high)		70 76	40 46 1434.9	124 11	808.9	3	2	*	न्द	# 2
RADIO		•		4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	: :	() ()		â	(•
To T	K.H.U.M. Radio Towner (203 high)		17 07	781.7	154 10	1317.9	=	2	1948	H	2
RADIO	Eureka, Radio Station KIEM Tower, Red Light at Top. (184' high)	• 	87 07	346.2	124 08	413.3	*	8	1761	Ħ	*
RADIO	MIEM Radio Tower - Taller of Two (382' high)	•	87 07	317.2	127, 08	358.7	#	*	8761	54	*
TANK EL FVA PEN	TANK TANK		70 76	1601 3	122.00	520.2	=	*	*	P 4	E
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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.

LANDMARKS FOR CHARTS DIGMEDACTINGCATOS

Eureka, Californi

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I recommend that the following objects which have firmways been inspected from seaward to determine their value as landmarks be TOTOTOTOTOTOTOTO

Project Ph-25(47)

STRIKE OUT ONE

TO BE CHARTED

April 1945

The positions given have been checked after listing by charted on (dalated from) the charts indicated.

										3	Chief of Party.
STATE					POSITION			METHOD	:		
	Galifornia		LAT	LATITUDE	LON	LONGITUDE		LOCATION	DATE	SE CH	CHARTS
CHARTING NAME	DESCRIPTION	SIGNAL	-	D.M. METERS	-	D. P. METERS	DATUM	SURVEY No.	LOCATION	HSNI	
ZANX	Rolph Shirward South Tenk (85' high)		67 07	7.192	12%	1229.5	N.A. 1927	8962 Triang.	1919	bet	5832
7. TOBER	Flac No 1 (18E) (40' hich)	•	77 07	2	£1 781.	280.8		*	1971	×	*
	Humboldt Bay Coast Quard Barracks	•					1	•			1
CUPULA	Cupola (50' high)		97 07	26.2	124 13	26.5	E	F	E	1 4	E
* LOOKOUT	Humboldt Bay Coast Guard Look- out Tower, 1928 (50' high)	TWTO.	40 45	1716.0 124 13	124 13	1238.0	# Ra	8962 Ital Flot	1949	×	*
MAGE	The state of the s	•	4/ 0/	1 6/91	ST 761	1004 4	E	2962	1010	×	*
	U.S. Coast Guard Observation Tower		4	****	-	70/27	1	8962	74/4	1	
TOWER	near Berracks (92' high)	LOOK	97 07	368.1	124, 13	76.6	# Ra	Radial Plot	1949	> <	22
- 4.0mm	Wooden Signal Tower over LOG (USE)	•	¥7 07	15.7	127. 72	8 791	s	8962	0.0	×	*
	Samos, Hammond Redwood Company	4	7			5			1(4)		
TANK	Wooden Hater Tenk (115' high)		87 07	1842.8	124 11	272.3	*	æ	1941	₩	
TEANY	Black Tank, Pacific Lumber Co.	ROPE	40 43		124 12	1366.1	" Rac	8965 Radiel Mot		M	4 7
1700	Welde Landing Red Tenk (25th high)		£7 U7	1726.9	124 12	1061.4	*	8965 Triens.		M	*
TOWER	Wooden Signal Tower over & SFITH 2 (USE) 1948 (50' high)		77 07		124 13	27.2	*		1948	14	*
STAND-	Silver Standpipe (60' high)	OML	27 OT	1439.3	174 11	1342.9	" Rac	Radial Plot	1949	н	
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LANDMARKS FOR CHARTS INDINIDADA CITADA EXAMINATO

STRIKE OUT ONE

April 1945

Sureka, Celifornia

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The positions given have been checked after listing by

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- 1	California			LATITUDE	.voe	LONG	LONGITUDE		LOCATION		08E C		CHARTS AFFECTED
	DESCRIPTION	SIGNAL	۰	-	D. M. METERS	0	D.P. METERS	DATUM	SURVEY No.	}		0 P P S	***************************************
T	Samos Wh. Concrete Stack Hammond		07	67 07	237.2	277.2 126.10	1103.1	N.A.	8960 Triene.	1928		至,	Mt. Shas 5832
	South Rureka, Stack Concrete White Hemmond Redwood Co. Flant #2(200' high	teh)	9	1.7	11 72 1205.6 124.11	124 11	0 22	I 1	8962				
T	Red Fl. Light K.H.U.M. Radio Tower (203' high)	•	04	40 47	781.7 124.10 1317.9	124 10	1317.9	a :	æ	8761			
T	Eureka, Humboldt Co. Court House	•	97		337.3	337.8 124 09	935.0	3 27	t	19/1			e de estadores de la composición de la
T	Fureka, Radio Station KIEM Tower Red Light at too (184' high)	•	9	-	348.2 124 08	124 08		2	2	ä			
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Project Ph-25(47)

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Eureka, California

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18	OR CHY												
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000	LOCATION	SURVEY No.	8960	=	=	*							
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6	JOE	D. M. METERS											
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		SIGNAL	3			-	■ con						
	<u> </u>												
	aldt Bay)	DESCRIPTION	Light	Light	Light	Light							
	California (Humboldt Bay)	DESC	Arceta Chennel 1 Light	Arcata Channel 2 Light	Arcata Channel 3 Light	Arceta Channel 4 Light							
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LANDMARKS FOR CHARTS NONHIOATINGCAIDSC

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April 1945 .

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1	DESCRIPTION	SIGNAL	- 0	D.M.METERS	-	D. P. METERS	DATUM	SURVEY No.	LOCATION	OHSNI		
-	Carsons Tank 1919		67 07		956.9 124.10	335.8	N.A. 1927	Triang.	1919	×	5832	
1	Arcata Wharf, Black Tank, 1919		40 50	1268.4	1268.4 124 06 1165.8	1165.8	=	Triang.	2	×	=	
(mine)	Humboldt Bay Coast Guard Station Lookout Tower		46 45	1715.8	1715.8 124.13 1249.3	1249.3	=	Triang.	1761	×	=	
New Property	Occidental Mill Stack	7.	87 07	519.2	124 10	233.6			1919	×	=	
CO I	S.E. point of North Spit, near siren,		40 45		124.13	18.0	0.	2,000	6	>	=	
Eline	Table Huff Light Station, Tower a	Tower destroyed (1946) Base intact.	11) Base	-	124.16	517.6	=	5 168	1767	*	=	
			40 43.	N	12% 13.1		=	\$962	0.	×	=	
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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.

16-51696-1 U. S. GOVERNMENT PRINTING OFFICE

COPY

c/o Swan Island Postal Station Portland 18, Oregon

8 September 1949

To:

The Director

U.S. Coast and Geodetic Survey

Washington 25, D.C.

Subject: Intersection station "CUPOLA, BAYSIDE COMMUNITY PRES-

BYTERIAN CHURCH, 1948"

T-8961

The intersection station "CUPOLA, BAYSIDE COMMUNITY PRESBYTERIAN CHURCH, 1948" could not be held during the running of the radial plot for Project Ph-25(47). This station is located about 1.5 miles southeast of Arcata, California, in the village of Bayside.

It is believed that an error in identification was made, when observing this station and that the geographic position submitted for this station on June 11, 1948, is not correct.

> Charles W. Clark Lieut. Comdr.-USC&G Survey Chief of Party

CWC/cw

7312-rb

16 September 1949

COPY

To: Lt. Comdr. Charles W. Clark U.S. Coast and Geodetic Survey c/o Swan Island Postal Station Portland 18, Oregon

Subject: Intersection Station "CUPOLA, BAYSIDE COMMUNITY PRESBYTERIAN CHURCH, 1948" Project Ph-25(47)

This is in reply to your letter informing this office that Intersection Station "CUPOLA, BAYSIDE COMMUNITY PRESBYTERIAN CHURCH 1948" could not be held in the radial plot of Project Ph-25.

It is noted that you believe an error in identification was made when observing this station, however, it is not clear in this office whether or not one direction was observed to an erroneous object or the object observed upon was erroneously named and described.

The geographic position computation for the no check position of this station has been verified as correct in this office.

It is requested that you determine from the radial plot and field inspection photographs whether or not the geographic position should be rejected or a new name given to the station. You are to report your findings, both in the radial plot report and by letter to this office.

/S/ J. H. Hawley
Acting Director

COPY

c/o Swan Island Postal Station Portland 18, Oregon

22 September 1949

To:

The Director

U.S. Coast and Geodetic Survey

Washington 25, D.C.

Subject:

Intersection Station "CUPOLA, BAYSIDE COMMUNITY PRES-

BYTERIAN CHURCH, 1948", Project Ph-25(47).

Reference:

Letter No. 7312-rb, dated 16 September 1949.

The error of identification of the subject station as referred to in my letter dated 8 September 1949 was believed to be an erroneous identification of the object on one of the triangulation cuts and that the two cuts were not on the same object.

A further study of the situation indicated the above may not be a correct assumption.

One cut on this station was from station PEN (U.S.E.), 1911. This station was identified but would not hold in the radial plot. The recovery card (not yet submitted) indicated some doubt about the recovery of station PEN. No description of PEN was available to the field party. A pipe was found in the vicinity of the geographic position and was assumed to be the station but apparently it was not the correct station.

The radial plot position of PEN is about 50 meters northwest of the geographic position. The radial plot position of CUPOLA, BAYSIDE COMMUNITY PRESBYTERIAN CHURCH is about 10 meters southwest of the computed geographic position.

The conclusion reached at this office is that both cuts were on the same object but the cut recorded as being from PEN (U.S.E.), 1911 was from an unknown point. It is thought that the computed geographic position of CUPOLA, BAYSIDE COMMUNITY PRESBYTERIAN CHURCH is incorrect and should not be listed in the list of geographic positions.

Removed From list by Div. of Geodely.

The field observations in question were made by Mr. Charles Hanavich who is now in the Washington Office. He may be able to give further information on the subject.

Charles W. Clark Lt. Comdr.-USC&G Survey Chief of Party

71



7 October 1949

To: Lt. Comdr. Charles W. Clark U. B. Coast and Geodetic Survey c/o Swan Island Postal Station Portland 18, Oregon

Subject: Intersection Station "CUPOLA, BAYSIDE COMMUNITY PRESEYTERIAN CHURCH, 1948", Project Ph-25(47)

This is in reply to your letter dated 22 September 1949, recommending that the geographic position of CUPOLA, BAYSIDE COMMUNITY PRESEXTERIAN CHURCH be rejected. Your investigation appears to have been satisfactory, and this office is rejecting the position of the station.

The information furnished in your letter was corroborated by Mr. Charles Hanavich, and it has been concluded that Station PFN (U.S.E.) 1911 was both errobously recovered and identified, making the observations from PEN to CUPOLA of no value.

It is requested that you include a statement on the recovery card for station PEN, adding emphasis to the fact that recovery was very doubtful.

ET ADAMS

Acting Director.

T-8960

· · Arcata Bay (shift name)

- · Arcata Channel

- Bird Island

Gunther Island (shift wame) Northwestern Pacific RR Pacific Ocean - Gunther Island

· Humboldt Meridian

- Humboldt Northern RR.

Liscom Slough

. Mad River Slough - Mad River Slough Channel

- Samoa

- Samoa School (Elem.)

*Note:

Not shown in Geographic Names Reprot but the name is shown on field inspection photograph 47-D-335 and the building is indicated on USGS Eureka, Calif. 15 min. quadrangle.

T-8961

> Alliance

> Arcata -

- Arcata Bay .

→ *Bay School *

→ Bayside

- Brainard · - Gannon Slough

Humboldt Northern RR

- Humboldt State College

Jacoby Creek -

Janes Creek . - Janes School -

Jolly Giant Creek

. Liscom Slough

N. Grotzman creek. -. Northwestern Pacific RR To Humboldt Bay.

. U.S. 299

* Bay School is shown on the USGS Eureka, Calif. 15 min. quadrangle and on field inspection photograph 47-D-481. It was not considered in the geographic names investigation.

Groatzman Creek is not shown on the map manuscript because an examination of the photographs does not reveal the creek to be as extensive as shown on the USGS Eureka, Calif., 15 min. quadrangle. The creek is believed to terminate west of the detail limits of the map manuscript, in Fickle Hill. (LTS).

(This spelling is NEW: Older Usts. Report both have Grotzman as approved above

- Bloomfield Acres.

- FECKLE Itill Road.

-. Greenwood Cemetery

- Fickle Hill.

T-8962

Arcata Bay

Bayview . Bucksport .

- Coast Guard Lookout

Daby Island .

* Eureka . _

· Humboldt Bay ·

Humboldt Bay Lifeboat = . U.S.C.G. No. 316 Station USCG ·

→ Humboldt Bay Fog Signal . ✓

Station

* Elk River Corner . - Humboldt Northern RR .

V. North Spit . L

Additional approved names on T-8962:

On sheet: Clark Slough . Kik River

Added: Euréka Channel -

Franklin School (Elem.) >Myrtle Grove Cemetery ... Eureka Junior High School . Mureka Senior High School . Marshall Grammar School . -St. Joseph Hospital >St. Bernard School) Carson Park >Humboldt County Hospital . -Parkston Addition (City Park) . L -Sequoia Park General Hospital Lincoln School (Grammer) Community Hall and Grammar School -Oceanview Cemetery · / -St. Bernard Cemetery . -Sunset Memorial Park Cemetery .

Albee Stadium . - Ed Ross Memorial Playground . Jefferson School (Grade) .

V Names approved MCA 1-21-50 Lay. U.

Northwestern Pacific RR · *Eureka Airport · V. Eureka Slough - Pacific Ocean . Fairhaven - U Redwood Highway 2 U.S. |01. V= Checked + approved r. Fort Humboldt Museum . Samoa . V. Gunther Island . -South Spit (see attached list . Swain Slough . Fald itional names) . Woodley Island . geographic names investigation. It is shown by approved as a geographic name on the "Mt. Shaste" photograph (2) * Eureka Airport was not considered during photograph 47-D-316. T-8963 ·Park St. . - Arcata Bay . - Humboldt Bay . > Eureka Slough -· Cottage St . . > *Humboldt County Airport* J. Fay Slough . > Indianola (2) . · Edgewood Rd . Freshwater Corners . Dunber IR . Trinity st. -> Freshwater Creek . - Redwood Highway . · Myrtle Ave. - Freshwater Junction . > Ryan Slough . J. Freshwater Slough * o Harris Stu-* Humboldt County Airport was not considered Names preceded during the geographic names investigation. It is shown as a geographic name on the "Mt. by . approved Shasta" sectional aeronautical chart and on 4-21-50 field photograph 47-D-487. 9-18-531 Checked a.j. W. chnits: present official name w T-8964 Euverta County Airport. Buhne Point · South Bay. · Clark School · South Bay Station • Fields Landing • South Spit 🖟 · Hookton • Southport Channel · Hookton Channel · Southport Landing & • Table Bluff (bluff) · Humboldt Bay • Indianola (1) • Table Bluff Light Station . McNulty Slough · Table Bluff Rancheria (Talian Reservation) · Northwestern Pacific RR · Houkton Slough · West Ave. ... Pacific Lymper Co (private RR spur) " Hames marked · Pacific Ocean · by . approved · Lighthouse Road . 4-27-50 T-8965 a.g. W. · Northwestern Pacific RR - Beatrice · Bucksport School . Orton Creek V . · Buhne Spit Shoal -· Red Bluff . Redwood Highway (U.S. 140-101) • Elk River

• Elk River School

• Fields Landing •

Hookton Slough

· Humboldt Bay .

· Humboldt Hill .

• Salmon Creek

• South Bay • >

South Bay Station (suggestomission)

Spruce Point (Road-Book) - settlement

* Willow Brook . *

· Humboldt Grunge

A. R. (purely descriptive) = Pacific humber co-R.R. . humber

- Snain slough ~

. Salmon Creek School .

- Fields Landing Elem. School.

· Harrison Avenue.

. West Ave.

. 2nd Ave ..

. 3rd Ave.

. Railroad Ave.

Names preceded by . are approved 5-2-50 LHECK

491 NOTES FOR THE HYDROGRAPHER! (see also heading 38, page 45)

List of Recoverable Topographic Stations
Map Manuscripts T-8960 to T-8965 Inclusive
Project Ph-25(47)

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T-8960
                 TOSS, 1948
                 TACK, 1948 GABLE
                  ABLE, 1948
                  CAST, 1948 GABLE
                 DART, 1948 GABLE
                 EASY 1948 - W. Tank ( MA)
       T-8961
                               Mon
                 HUMP, 1948
                 FULL, 1948
                               Hon
                                Hon
                 GOSH, 1948
                  JACO, 1948
       T-8962
                 1948 Tower
                                           -ROAD, 1948 Mon
                                         SLIP, 1948 EUREKA
                  TONE, 1948 Mon
                  KATE, 1948 Mon
                                          UNION OIL WHARF LT., 1948
                                         INDIAN IS. SPIT LT., 1948 Light
EUREKA CHANNEL 2 LT,, 1948 Light
EUREKA NAVY BASE PIER, NORTH END LT., 1948
""" SOUTH "" "
STANDARD OIL WHARF LT., 1948 Light
Light
Light
                  MOSS, 1948 Mon
                 NEST, 1948 Mon
                  QUIT, 1948 Mon
POOR, 1948 Mon
                 UNTO, 1948 Tower
                                            HUMBOLDT BAY FOG-SIGNAL, 1948 Signal
                 WANE, 1948 GABLE
       T-8963
                  VOTE, 1948 GABLE
                  ANTI, 1948 CUPOLA GONE, 1948
                                                          TRIPOD
       T-8964
                  BELL, 1948 TANK
                                          HILL, 1948
                                          JUHP, 1948
KEEP, 1948
LORE, 1948
                  CORE, 1948 TANK
                  DONE, 1948 GABLE
                  EVER, 1948 GABLE
                 FRED, 1948 TRIPOD
                                           MONT, 1948
                 NOON, 1948 BEAM
       T-8965
                 TOSTE (USE), 1948
                 ROBE, 1948 TANK
                               BRIDGE
                 SOME, 1948
                 POST, 1948 Gable
                 QUIL, 1948 Standpipe
+ 3 Az mks
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51

Review Report Planimetric Maps T-8960 & T-8965 Inc. 2 May 1950

61. Bridges:

Vertical clearances in the bridge list are for NHHW. Clearances on the map manuscript were adjusted to NHW. (Listed in the Field Inspection Report).

62. Comparison with Registered Topographic Surveys:

474	1:10,000	1854	with contours	(T-8962,64,65)
1137	1:10,000	1869	42 65	(T-8962,64)
1174	1:10,000	1870	£3	(T-8962,64,65)
1175	1:10,000	1870	tı tı	(T-8960,62,63)
1176	1:10,000	1870	17 EP	(T-8961,63)
1177	1:10,000	1870	tt tr	(T-8960,61)
3776	1:10,000	1919	Shoreline & Control	(T-8962,64,65)
3777	1:10,000	1919	tr tr	(T-8960,61,62)
4512	1:10,000	1929	11 53	(T-8962,64,65)
4513	1:10,000	1929	t?	(T-8960,61,63)
4514	1:20,000	1929	With contours	(T-8964)
4515	1:20,000	1929	63	(T-8960)

The maps in this project supersede the older surveys for charting purposes for all detail except contours.

T-6616 1:10,000 1936 Graphic control T-6814 1:10,000 1939 " "

63. Comparison with Haps of Other Agencies:

USGS Eureka 1:62,500 ed. 1942 rep. 1948 T-8960,61,62,63 USGS Fortuna 1:62,00 ed. 1944 T-8964 USGS Ferndale 1:62,500 ed. 1944 T-8964,65

The Arcata city boundary line on T-8961 differs considerably from that shown on the quadrangles. The boundary limits drawn on T-8961 were authenticated, as of the date of field inspection. It supersedes the line shown on the quadrangles.

- 64. Comparison with Contemporary Hydrographic Surveys: None
- 65. Comparison with Nautical Charts:

5832 1:30,000 ed. Dec. 1934, Rev. Jan. 2, 1950

Page 2 T-8960 to T-8965

Discrepancies

T-8960

- Humboldt Northern RR has been relocated.
- A breached dike has made a mud flat of the fast land area south of Mad River Slough entrance.
- The pier north of Samoa no longer exists. A lone pile at 40° 49' 27"/124° 08' 20" is not on the chart.
- A lone pile at 40° 50' $03''/124^{\circ}$ 07' 22" on the chart is absent on T-8960. It is not visible on the photographs and not noted by field inspection.

T-8961

A charted dolphin opposite the wharf ruins by Arcata Channel is not on the manuscript, because it is not visible on the photographs and was not labeled by field inspection.

<u>T-8962</u>

A charted cable crossing from Eureka to Gunther Island Spit Light is not on the manuscript. It was not located by field inspection.

Six visible aids were plotted during review.

Humboldt Bay Lighted Buoys "3" and "6" Nun Buoys "8" and "10" Samoa Channel, Lighted Buoy "1" Eureka Entrance Channel Lighted Buoy

Because T-8962 was compiled from 1948 field inspection, the following items appear on T-8962 but are not on the chart revised to January 1950.

- Lookout Tower at Coast Guard Station
- Fog Signal
- Eureka Channel Light 2

Two lights, built in 1949 and listed in the 1950 Light List, are not on T-8962:

Humboldt Bay Approach, Range Front. This light is on the tower built to replace the old "Lookout Tower", (1) above, and has a diaphone to replace the "Fog Signal", (2) above.

Page 3 T-8960 to T-8965

Discrepancies

T-8962 Continued

(2) Humboldt Bay Approach Range Rear.

The "Tank" on the chart northwest of Coast Guard Cupola is an observation tower and should be labeled "Tower" on future reprints of Chart 5832

The peninsula-shaped strip of land extending southward from Samoa to Humboldt Bay entrance, and a similar strip south of the entrance (on T-8964), are dune areas.

The strip on T-8962 differs from the other in that there is a considerable amount of shrub growth which prevents a shifting of the sand except along the Pacific Ocean side of the area.

Because this condition is peculiarly characteristic of the northern strip, the shrub-covered areas have been delineated as "brush", even though the present mapping practice is to ignore the category "brush".

T-8964

The cable area Buhne Foint - South Spit and the "obstruction" off shore from Fields Landing are not entered on T-8964, because no field information was given to indicate their existence.

T-8965

- 1. The dike system in Hookton Slough area, with consequent land reclamation.
- 2. Lumber RR east of Elk Creek.

66. Adequacy of Results:

These compilations comply with project instructions; meet the National Standards of Accuracy and are adequate for chart publication and maintenance.

Reviewed by:

Leha T. Stevens

Approved by:

Chief, Review Section F. M. M. Division of Photogrammetry

Chief, Nautical Chart Branch

Division of Charts

Chief, Div. of Photogrammetry

Chief, Div. coaste Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. 78960-1-2-3-4-5

Record of Application to Charts

5832		
	Norfolk Office	Before After Verification and Review Completely
		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
		Before After Verification and Review

M-2168-I

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.