

TP-00393

TP-00393

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey .. Shoreline

Job No. PH-7107 Map No. TP-00393

Classification No. Final Edition No. 1

Field Edit Map

LOCALITY

State .. California

General Locality Dana Point to Point Vicente

Locality .. Terminal Island

1972 TO 1975

REGISTRY IN ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY

- ☒ ORIGINAL
☐ RESURVEY
☐ REVISED

SURVEY TP-00393

MAP EDITION NO. (1)

MAP CLASS Final

JOB PH-7107

PHOTOGRAMMETRIC OFFICE

Coastal Mapping Division
Norfolk, Va.

OFFICER-IN-CHARGE

Jeffrey G. Carlen CDR

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

- ☐ ORIGINAL
☐ RESURVEY
☐ REVISED

JOB PH- _____

MAP CLASS _____

SURVEY DATES:

19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE

Aerotriangulation 08/17/71
Compilation 11/5/71
Supplement 1 10/9/73
Amendment 1 10/30/73
Amend. 1 to Supp. 1 1/28/74

2. FIELD

Premarking 3/1/71
Premarking
Supplement I 2/25/72

II. DATUMS

1. HORIZONTAL:

☒ 1927 NORTH AMERICAN

OTHER (Specify)

2. VERTICAL:

☒ MEAN HIGH-WATER
☐ MEAN LOW-WATER
☒ MEAN LOWER LOW-WATER
☐ MEAN SEA LEVEL

OTHER (Specify)

3. MAP PROJECTION

Polyconic

4. GRID(S)

STATE

California

ZONE

6

5. SCALE

1:5,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY	I. D. Raborn	Sep 1973
	LANDMARKS AND AIDS BY	I. D. Raborn	Sep 1973
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat	PLOTTED BY	Allen	Sep 1973
	CHECKED BY	Allen	Sep 1973
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:7,500	PLANIMETRY BY	L. O. Neterer, Jr.	Aug 1974
	CHECKED BY	R. R. WHITE	Aug 1974
	CONTOURS BY	NA	
	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION METHOD: Smooth Drafted SCALE: 1:5,000	PLANIMETRY BY	L. O. Neterer, Jr.	Sep 1974
	CHECKED BY	F. Margiotta	Sep 1974
	CONTOURS BY	NA	
	CHECKED BY	NA	
HYDRO SUPPORT DATA BY		L. O. Neterer, Jr.	Sep 1974
CHECKED BY		F. Margiotta	Sep 1974
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	F. Margiotta	Sep 1974
6. APPLICATION OF FIELD EDIT DATA	BY	David Butler	Jul 1975
	CHECKED BY	A. L. Shands	Oct 1975
7. COMPILATION SECTION REVIEW	BY	A. L. Shands	Oct 1975
8. FINAL REVIEW	BY	A. L. Shands	Sept 1978
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	A. L. Shands	Nov 1978
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	E. L. Rolle	Dec 1979
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	E. L. DAUGHERTY	JUN 1980

TP-00393
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "L"	TYPES OF PHOTOGRAPHY LEGEND (C) <u>COLOR</u> (P) PANCHROMATIC (I) INFRARED	TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		ZONE Pacific	<input checked="" type="checkbox"/> STANDARD
		MERIDIAN 120th	<input type="checkbox"/> DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
72L(C) 2892-2894	3/24/72	14:46	1:15,000	0.8 ft. above MLLW
72L(C) 2900-2903	3/24/72	14:54	1:15,000	1.3 ft. above MLLW

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from the above listed photographs.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

No mean lower low waterline was shown.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No survey	TP-00394	TP-00400	TP-00392

REMARKS

TP-00393
HISTORY OF FIELD OPERATIONSI. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. B. Melby	Mar 1972
2. HORIZONTAL CONTROL	RECOVERED BY R. B. Melby	Mar 1972
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY R. B. Melby	Mar 1972
3. VERTICAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None	
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
72L(C)3092	LONG BEACH, RED BAND, STEEL TANK, 1920		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

1 form 152 with 1 form 25g ~~attached.~~

TP-00393

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	M. Fleming, Cdr. Davidson	Apr 1975
2. HORIZONTAL CONTROL	RECOVERED BY: None	
	ESTABLISHED BY: None	
	PRE-MARKED OR IDENTIFIED BY: None	
3. VERTICAL CONTROL	RECOVERED BY: None	
	ESTABLISHED BY: None	
	PRE-MARKED OR IDENTIFIED BY: None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY: R. Hopkins	Apr 1975
	LOCATED (Field Methods) BY: R. Hopkins	Apr 1975
	IDENTIFIED BY: None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY: R. Hopkins	Apr 1975
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY: NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

72 L (C) 2893

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

1 Blue line print, "Port of Los Angeles-Pipes & Utilities Crossing Channels"

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

1-field edit ozalid with field edit report, Abstract of Fix Geographic Positions 3-Forms 76-40, photo 72L(C) 2891,-2893, 2902

1-Field Film ozalid

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONTP-00393
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	Sep 1975	Class III manuscript superseded	10/11/74	9/30/74
Field edit applied. Compilation complete	Jul 1975	Class I manuscript	6/7/76	
Final Review	Sept 1978	Final	Nov 1978	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		5/24/76	Aids to be charted
1		5/24/76	Landmarks to be charted
1		5/24/76	Landmarks to be revised.

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: May 24, 19763. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS 76-36D SUBMITTED BY FIELD PARTIES.
 3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
 ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER: TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

SOUNDINGS IN FATHOMS AT MEAN LOWER LOW WATER

NOTE B

Navigation regulations are published in Chapter 2, Coast Pilot 7 or subsequent yearly supplements and are available to Mariners. Copies of the regulations may be obtained at the office of the District Engineer, Corps of Engineers in Los Angeles, Calif. 90012. Anchorage Regulations may be obtained at the office of the Commander, 15th Coast Guard District, San Diego, Calif. 92101. Areas in section numbers shown with area numbers.

NOTE C

SUBMARINE TRANSIT LINES
Times of submarine transits will be published in the Eleventh Coast Guard District (San Diego, California) Local Notices to Mariners. Sounding and Currents are requested not to be submerged objects across transits in use.

CAUTION
Transmitter showing or details in use in the area shown in this chart.
See Notice to Mariners.

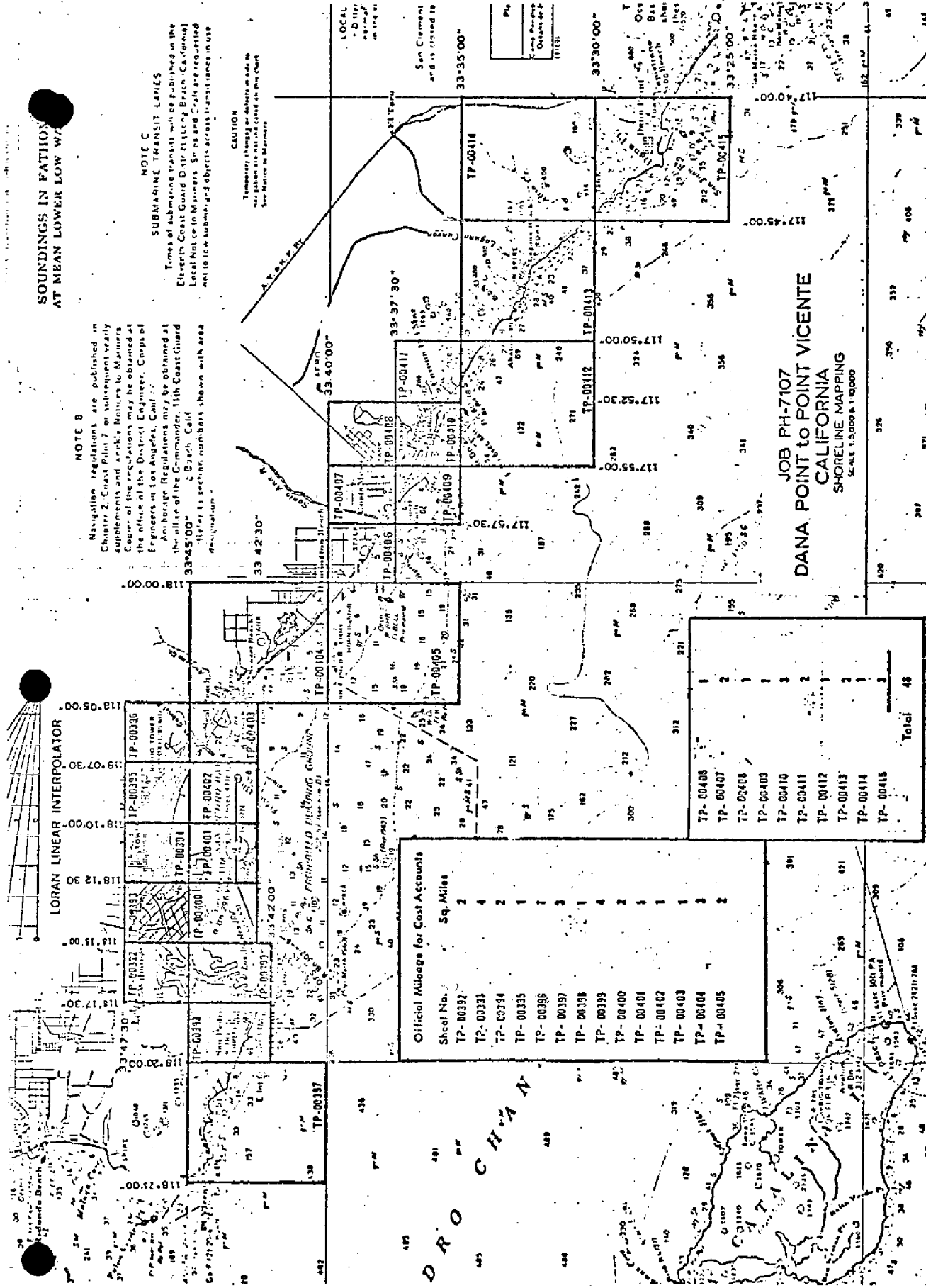
LOAN LINEAR INTERPOLATOR

Official Mileage for Cost Accounts

Sheet No.	Sq. Miles
TP-00332	2
TP-00333	4
TP-00334	2
TP-00335	1
TP-00336	1
TP-00337	3
TP-00338	1
TP-00339	4
TP-00400	2
TP-00401	1
TP-00402	1
TP-00403	1
TP-00404	1
TP-00405	2

TP-00403	1
TP-00407	2
TP-00408	1
TP-00409	1
TP-00410	3
TP-00411	2
TP-00412	1
TP-00413	3
TP-00414	1
TP-00415	3
Total	48

JOB PH-7107 DANA POINT TO POINT VICENTE CALIFORNIA SHORELINE MAPPING SCALE 1:5000 & 1:10000



SUMMARY TO ACCOMPANY

TP-00392 through TP-00403

Maps included in this summary comprise the northern portion of Project PH-7107. Each of them is 1:5,000 scale with the exception of TP-00392 which is 1:10,000 scale. They cover the coast of California from Anaheim Bay to Point Vicente. Each is a standard shoreline map, the purpose of which is to serve as support for contemporary hydrographic operations conducted in the area and to provide up-to-date shoreline for nautical chart construction.

The area is heavily populated with an accompanying high incidence of marine construction. Several major changes have occurred along the shoreline during the life of this survey due to construction.

Field operations prior to delineation consisted of the recovery and identification of horizontal control used for bridging and, also, leveling operations conducted in connection with the tide coordinated infrared photography which was used to delineate the mean lower low water line.

Bridging was done in the Rockville Office by analytic triangulation methods in September, 1973. Ratios were determined and ordered at that time.

Compilation was by Wild B-8 instrument method at the Atlantic Marine Center. Field edit was performed during the spring of 1975 and 1976. Edit data was applied to the maps at the Atlantic Marine Center.

Final Review was performed at the Atlantic Marine Center during the fall of 1978. The original base maps and all pertinent data was forwarded to the Rockville Office for reproduction and final registration.

FIELD INSPECTION

Field work prior to compilation was limited to the recovery and identification of horizontal and vertical control for use in the bridge and coordination of mean lower low water tide elevation. There was no clarification of photographic details.

PHOTOGRAMMETRIC PLOT REPORT

Part 2

Dana Point to Point Vicente

California

Job PH-7107

September 1973

21. AREA COVERED

The area covered by this report is along the west coast of California. This area is covered by one 1:10,000 scale sheet TP-00397 and eleven 1:5,000 scale sheets TP-00392 thru TP-00396 and TP-00398 thru TP-00403.

22. METHOD

Two strips of 1:30,000 scale color photography were bridged by analytic aerotriangulation methods. Sketch #1 shows the flight line of the photography and the placement of the control used in this adjustment. The two strips were controlled by field identified control paneled in 1972. Old control, which was office identified, was floated for checks. Ties were made between strips five and six. Strip number five was adjusted using 3 horizontal stations as control with one old station as a check. Strip number six was adjusted using 7 horizontal stations as control with 3 old stations as checks. Compilation points were located between strips #5 and #6 (1:30,000 scale photography) to control the 1:15,000 scale compilation photography, strips 10, 14, 15, 19, 20, and 21. Common points were located between strip 5 and 6 and the hydro support photography (1:15,000), strips 29 and 30, to determine the ratio scale. Sketch #2 shows the flight lines of the compilation and hydro support photography. Common points were located between strip 6 and strips 11 and 12 to determine only the ratio scale.

Difficulty in adjusting the strips occurred in the area of Long Beach Red Band Steel Tank, 1920. Points in this area approached the limits for National Map Accuracy Standards. This is the result of trying to obtain 1:5,000 scale sheets from 1:30,000 scale photography with several models being very weak. (Less than 1/2 model) The lower altitude strips were not bridged because the points for bridging would only be as good as the high altitude bridges. No difficulty is expected in detailing the compilation (1:15,000 scale models) however, if difficulty is encountered in the weak area, there are numerous office identifiable stations which could be used to help set up the models.

One model (Photos 72L2894, 72L2895) was set in the B-8. The four compilation points were held. Two triangulation stations and one substation were used as checks. All three held within 0.1 mm.

Data for ruling projections were furnished to the Coradomat to be plotted on the California zones 6 and 7 coordinate system.

23. ADEQUACY OF CONTROL

The control was adequate.

24. SUPPLEMENTAL DATA

USGS quadrangles were used to provide vertical control for the adjustment.

25. PHOTOGRAPHY

The photography was adequate as to coverage, overlap and definition.

Respectfully submitted,

Ivey O. Raborn
Ivey O. Raborn

Approved and forwarded:

John D. Perrow, Jr.
John D. Perrow, Jr.
Chief, Aerotriangulation Section

NOTES TO COMPILER

Strip number 13, which covers the breakwater, cannot be controlled or set in stereo instruments. This area must be compiled by field methods.

PHOTOGRAMMETRIC PLOT REPORT

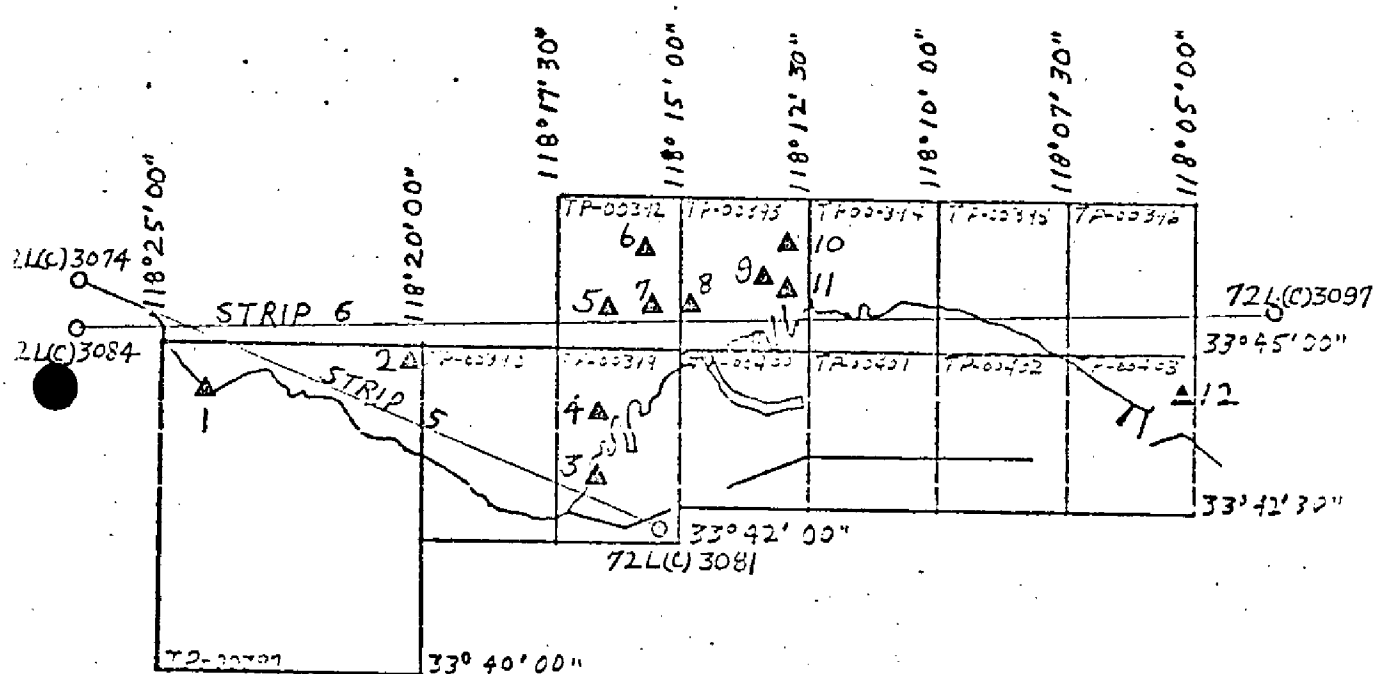
Part 2

Dana Point to Point Vicente

California

Job PH-7107

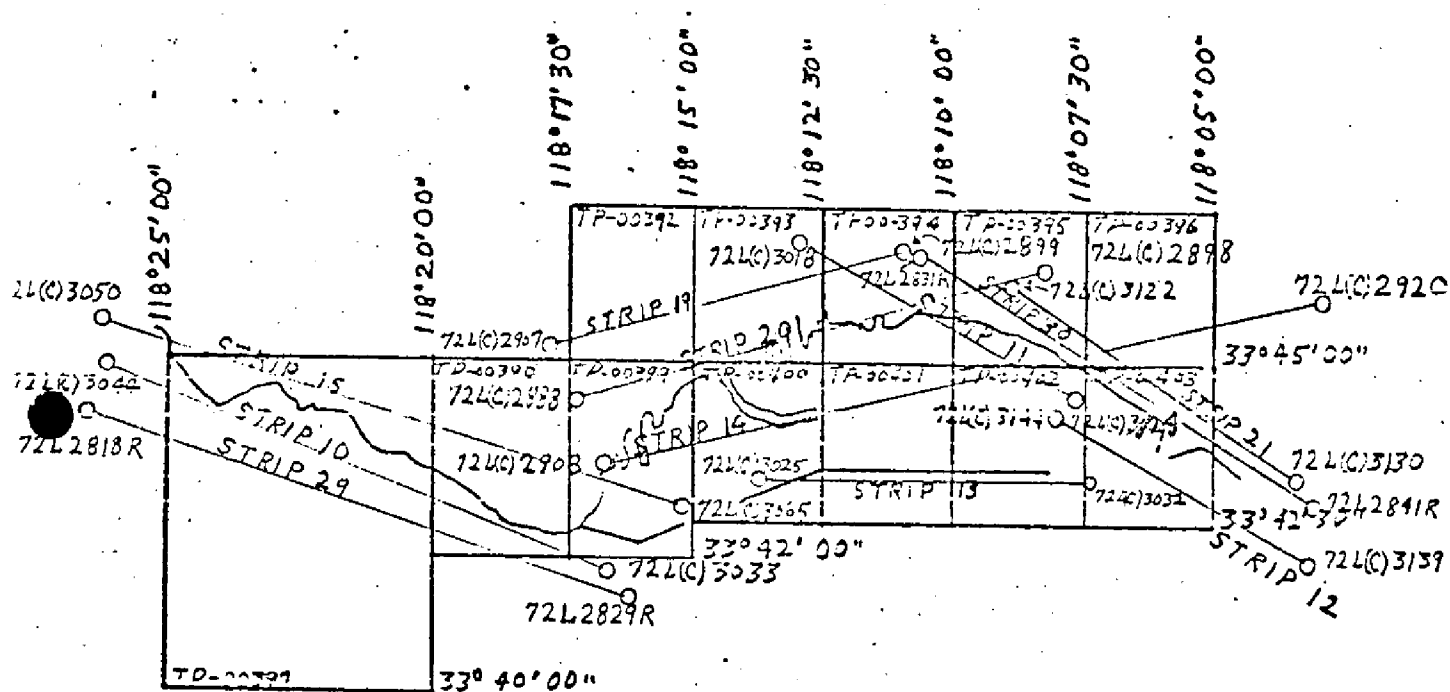
August 1973



1. Vicente, 1951
2. Verdes, 1963, Sub pt.
3. Old, 1899, Sub pt.
4. San Pedro Cotton Compress Co. Tank, 1933
5. San Pedro Pacific Coast Borax Co. Stack, 1933
6. Wilmington, Smart & Final Co. Warehouse Tank, 1933
7. Medora 1972
8. Wilmington Berth 176-177 Water Tank, 1933
9. Long Beach Red Band Steel Tank, 1920
10. Long Beach Procter & Gamble Water Tank, 1933
11. Long Beach Red Band Steel Tank, 1920, Sub pt.
12. B.M. N 766, 1956, Sub pt.

Sketch #1

8e



Sketch #2

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-00393	STATION NAME	JOB NO. PH-7107	GEODETTIC DATUM		AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		ORIGINATING ACTIVITY	
			STATE	ZONE		NA	1927	φ	λ	Division, Norfolk, VA.	Coastal Mapping
		SOURCE OF INFORMATION (Index)								REMARKS FORWARD	BACK
	MAST ON SIGNAL TOWER, 1942	Quad 331181 STA 1037				X=		φ 33 45	12.189	375.5	(1473.1)
						Y=		λ 118 14	21.943	564.7	(979.5)
* NAVY BASE TANK, 1942 MOVED		Quad 331181 STA 1038				X=		φ 33 45	26.153	805.8	(1042.8)
						Y=		λ 118 14	04.883	125.7	(1418.5)
EDISON, 1933		Quad 331181 STA 1109				X=		φ 33 45	49.885	1537.0	(311.6)
						Y=		λ 118 13	29.346	755.2	(788.8)
* WILMINGTON, FORD MOTOR CO., TANK, 1933		Quad 331181 STA 1041				X=		φ 33 46	08.556	263.6	(1585.0)
						Y=		λ 118 14	17.148	441.3	(1102.7)
* (See Hexach, PROCTOR AND LONG BEACH, PROCTOR AND GAMBLE CO. WATER TANK, 1933		Quad 331181 STA 1033				X=		φ 33 46	25.948	799.5	(1049.1)
						Y=		λ 118 12	48.490	1247.7	(296.2)
* LONG BEACH, RED BAND, STEEL TANK, 1920 (moved)		Quad 331181 STA 1034				X=		φ 33 46	05.194	160.0	(1688.6)
						Y=		λ 118 12	47.646	1226.1	(317.9)
STACK, 1942		Quad 331181 STA 1039				X=		φ 33 45	15.495	477.4	(1371.2)
						Y=		λ 118 14	18.564	477.8	(1066.4)
WILMINGTON TEXACO OIL CO. STACK, 1933		Quad 331181 STA 1042				X=		φ 33 47	19.782	609.5	(1239.1)
						Y=		λ 118 14	07.633	196.4	(1347.2)
* Stations not shown on map. Positions reported incorrect by NOAA Ship DAVIDSON in '74' ALS. 11/17/78						X=		φ -			
						Y=		λ			
NOTE: As a result of the geodetic datum the conducted by NOAA ship DAVIDSON in the spring 1975 many of the positions reported have changed.											
COMPUTED BY	A. C. Rauck, Jr.		DATE	10/12/73		COMPUTATION CHECKED BY	F. R. Gustafson			DATE	10/17/73
LISTED BY			DATE			LISTING CHECKED BY				DATE	
HAND PLOTTING BY			DATE			HAND PLOTTING CHECKED BY				DATE	

COMPILATION REPORT

TP-00393

31. DELINEATION:

Delineation was ^{on}by the Wild B-8 stereoplotter, using 1:15,000 scale color photography.

32. CONTROL:

See the Photogrammetric Plot Report, Part II dated September, 1973.*
Your attention is called to page 1 paragraph 3.

* Bound with this Descriptive Report.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. Drainage was delineated by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line and all alongshore details were delineated by office interpretation of the photographs.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

Copies of Forms 76-40 were forwarded to the field editor for verification, location and/or deletion.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See Form 76-36B, item #5, concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY:

Refer to Photogrammetric Plot Report, dated September, 1973, page 1, paragraph 3.

Triangulation station LONG BEACH, RED BAND STEEL TANK, 1920 was held with pass point bridge control during processing of cronapague ratios, however WILMINGTON, FORD MOTOR CO. TANK, 1933 and NAVY BASE TANK, 1942 did not hold. The photogrammetric position of these tanks would not hold the geographic positions by approximately .35MM and .5M respectively.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with the following USGS Quadrangles: LONG BEACH, CALIF., dated 1964, 1:24,000 scale.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following National Ocean Survey Chart 18302, scale 1:12,000, dated April 12, 1973, 19th edition.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

Lowell O. Neterer, Jr.

Lowell O. Neterer, Jr.
Cartographic Technician
September 10, 1974

Approved:

Albert C. Rauck, Jr.

Albert C. Rauck, Jr.
Chief, Coastal Mapping Section, AMC

June 15, 1978

GEOGRAPHIC NAMES


FINAL NAME SHEET

PH-7107, Dana Point to Point Vicente, California

TP-00393

Back Channel	Harbor Belt Line (RR)
Cerritos Channel	Inner Harbor
Channel Three	Long Beach (locality)
Channel Two	Middle Harbor
Consolidated Slip	Southern Pacific (RR)
Dominguez Channel	Terminal Island
East Basin	West Basin
East Basin (Middle Hbr.)	Wilmington

Approved by:


Charles E. Harrington, J C3x8
Chief Geographer

NOAA FORM 75-74
(7-75)U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

TP - 00393

1. PROJECTION AND GRIDS FPM	2. TITLE FPM	3. MANUSCRIPT NUMBERS FPM	4. MANUSCRIPT SIZE FM
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY FM	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA		7. PHOTO HYDRO STATIONS NA
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES ALS	10. PHOTOGRAMMETRIC PLOT REPORT FM	11. DETAIL POINTS FM
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE FM	13. LOW-WATER LINE FM	14. ROCKS, SHOALS, ETC. FM	15. BRIDGES FM
16. AIDS TO NAVIGATION FM	17. LANDMARKS FM	18. OTHER ALONGSHORE PHYSICAL FEATURES FM	19. OTHER ALONGSHORE CULTURAL FEATURES FM
PHYSICAL FEATURES			
20. WATER FEATURES FM	21. NATURAL GROUND COVER NA		22. PLANETABLE CONTOURS NA
23. STEREOSCOPIC INSTRUMENT CONTOURS NA	24. CONTOURS IN GENERAL NA	25. SPOT ELEVATIONS NA	26. OTHER PHYSICAL FEATURES
CULTURAL FEATURES			
27. ROADS FM	28. BUILDINGS FM	29. RAILROADS FM	30. OTHER CULTURAL FEATURES FM
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES FM	34. JUNCTIONS FM		35. LEGIBILITY OF THE MANUSCRIPT
36. DISCREPANCY OVERLAY FM	37. DESCRIPTIVE REPORT FM	38. FIELD INSPECTION PHOTOGRAPHS NA	39. FORMS FM
40. REVIEWER F Margiotta <i>P. Margiotta</i> 9/74		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> Albert C. RAuck, Jr.	
41. REMARKS (See attached sheet)			
FIELD COMPLETION-ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT			
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.			
COMPILER <i>David P. Butler</i> David P. Butler 7/14/75		SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. RAuck, Jr.	
Reviewer: A. L. Shands 10/9/75			
43. REMARKS <i>A. L. Shands</i>			
See form 76-36C, item 8, Field Inspection Operations and Items 7 and 8 of Field Edit Operations.			

FIELD EDIT REPORT

Long Beach and Los Angeles Harbor

Field edit was completed by DAVIDSON during the month of April 1975 on the following seven manuscripts:

TP 00392	TP 00399
TP 00393	TP 00400
TP 00394	TP 00401
	TP 00402

Field edit should be considered complete on these sheets with the exception of a small area on TP 00399 outside the Los Angeles Breakwater near Point Fermin. Heavy weather precluded proper verification of the ledge shown on the manuscript. The FAIRWEATHER is scheduled to conduct hydrography in that area in the fall of 1975 and plans to delineate this ledge using hydrographic methods. The office compilation of these manuscripts is very good. All questions have been answered and changes are shown in purple ink on the discrepancy ozalids and photographs.

Prior to conducting the field edit, DAVIDSON located many of the important landmarks and navigation aids within the harbor to 3rd order geodetic standards. The harbor area has experienced some horizontal shifting in recent years caused by the depletion of the underlying oil fields. Movements of as much as 3 meters were found. A copy of this report along with completed forms 76-40 giving new positions is included in the appendix. Many of the landmarks located by geodetic means were also listed on the forms 76-40 originated by AMC. References are noted on AMC's forms. In general, the photogrammetrically derived positions agreed quite well with DAVIDSON's horizontal control work.

Field Inspection

The photographs and discrepancy ozalids were taken into the field for verification. Our success at photo identification was poor, partly because of the inexperience of the officer conducting the field inspection and partly because pass points on the photographs obliterated many of the objects to be identified. Most positions were located by three point sextant fix with check angle. G.P.'s of both the fix and check fix were computed on the PDP 8e computer using the geodetic resection program RK-410. A listing of these verified G.P.s by fix number is included in the appendix. Each G.P. listed has been double checked and should be considered accurate. An abstract, by fix number, of the raw field data is also included for reference. It should be noted that not all the fixes listed apply to the field edit of these seven manuscripts. This list is a compilation of field edit fixes and other fixes relating to OPR-511 Chart Adequacy Survey field work - much of which overlap.

Many of the question asked of the field editor involved locating the shore ends of cable and pipe line crossings. In many cases, these shore ends were not visible because piers or other structures hid them. Those that could be located were. A manuscript was obtained from the Los Angeles Harbor Commission showing all utility and pipeline crossings in the Los Angeles half of the harbor. It is included with the data. It is recommended that the Long Beach Port authorities be contacted for a similar manuscript of the Long Beach half of the harbor.

Submitted

R. D. Hopkins
R. D. HOPKINS
LCDR, NOAA

Approved

R. D. Hopkins
for M. H. FLEMING
CDR, NOAA

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REVIEW REPORT
TP-00393

SHORELINE

September 29, 1978

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with copies of smooth sheets H-9671 (FA-5-2S-77) and (FA-5-2N-77) and Final Verified Smooth Sheet H-9672 (FA-5-3-77). The following are a list of features shown on the hydro surveys that are not visible on the photographs and were not dealt with by the field editor: ruins at the southerly marina east of Heim Bridge, dolphin at the east end of southerly marina West of Heim bridge, submerged pile and wreck in Consolidated Slip, submerged piles near mouth of Dominguez Channel, storm drain on north shore of Consolidated Slip, sunken barge between Piers 7 and 8A in West Basin. None of the above features are shown on the map.

Additionally, the hydro surveys indicate that a large slip shown on the map on the south shore of Cerritos Channel west of Heim Bridge has been filled in and no longer exist.

Naval Air Base Jetty Light "2" is not shown on the hydro survey.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 18751, 1:12,000 scale, 24th edition, dated March 18, 1978.

Naval Air Base Jetty Light 2 is charted as a lighted marker. It is shown of the map as a light. The two intake structure lights charted on the west side of Inner Harbor are not visible on the photography and were not recommended for charting by the field editor.

Ruins and submerged dolphins charted along the north shore of West Basin; the submerged pile, ruins and wreck in Consolidated Slip; ruins charted near the southern end of Pier E; an unlabeled square at the intersection of Inner Harbor and Channel Three; and several piles, piers and ruins in Channel 2 and Channel 3 are not visible on the photographs. The field editor did not recommend any of them for charting and they are ^{not} shown on the map.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the project instructions.

It is noted in the Photogrammetric Plot Report (Part II) that some difficulty was experienced in the area of this map in obtaining a final horizontal solution. It was suggested that the compilation office could use the several identifiable horizontal stations in the area to set models if no satisfactory solution could be had using points established by the bridge. The compilation office chose to use the bridge points exclusively. They held well within models and there were no problems encountered in tying adjacent models.

Several office identifiable horizontal control stations, did not hold to their published positions within the models. The study made by NOAA Ship DAVIDSON (See Field Edit Report, dated April, 1975) indicates that the entire area of San Pedro Bay is undergoing random and continuous horizontal displacement due to the depletion of underground oil deposits.

It is concluded that the compilation office made the right decision in not holding to the published positions of those identifiable stations and the map meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted by:

A. L. Shands

A. L. Shands
Final Reviewer

Approved for forwarding:

Bill H. Barnes
for Chief, Photogrammetric Branch, AMC

Approved:

John D. Perreew Jr.
Chief, Photogrammetric Branch

[Signature]
Chief, ~~Coastal Mapping~~ ^{Photogrammetry} Division

RECORD OF APPLICATION TO CHARTS

TP: 00393

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

[illegible]