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

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

NOAA FORM 76-36A (3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY
- [X] 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 PRECEEDING MAP EDITION
TYPE OF SURVEY
- [ ] ORIGINAL
- [ ] RESURVEY
- [ ] REVISED

JOB PH-
MAP CLASS
SURVEY DATES:
19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE		2. FIELD	
Aerotriangulation	08/17/71	Premarking	3/1/71
Compilation	11/5/71	Premarking Supplement I	2/25/72
Supplement 1	10/9/73		
Amendment 1	10/30/73		
Amend. 1 to Supp. 1	1/28/74		

II. DATUMS

1. HORIZONTAL: [X] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: [X] MEAN HIGH-WATER; [ ] MEAN LOW-WATER; [X] MEAN LOWER LOW-WATER; [ ] MEAN SEA LEVEL — OTHER (Specify)

3. MAP PROJECTION: Polyconic

4. GRID(S)

STATE	ZONE
California	6

5. SCALE: 1:5,000

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	PLANIMETRY BY	L. O. Neterer, Jr.	Aug 1974
	CHECKED BY	R. R. WHITE	Aug 1974
INSTRUMENT: Wild B-8	CONTOURS BY	NA	
SCALE: 1:7,500	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	L. O. Neterer, Jr.	Sep 1974
	CHECKED BY	F. Margiotta	Sep 1974
METHOD: Smooth Drafted	CONTOURS BY	NA	
	CHECKED BY	NA	
SCALE: 1:5,000	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

NOAA FORM 76-36A SUPERSEDES FORM C&GS 181 SERIES

* U.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B
(3-72)

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

TP-00393

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild RC-8 "L"

TIDE STAGE REFERENCE
XX PREDICTED TIDES
☐ REFERENCE STATION RECORDS
☐ TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
(C) COLOR
(P) PANCHROMATIC
(I) INFRARED

TIME REFERENCE
ZONE: Pacific — ☒ STANDARD
MERIDIAN: 120th — ☐ 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

NOAA FORM 76-36C
(3-72)

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

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 ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION — BY		
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 ☒ NONE

6. 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, Abstact of Fix Geographic Positions 3-Forms 76-40, photo 72L(C) 2891,-2893, 2902

1-Field Film ozalid

NOAA FORM 76-36C
(3-72)

*U.S. GOVERNMENT PRINTING OFFICE: 1974 - 768-078

NOAA FORM 76-36D
(3-72)

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

TP-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, 1976
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

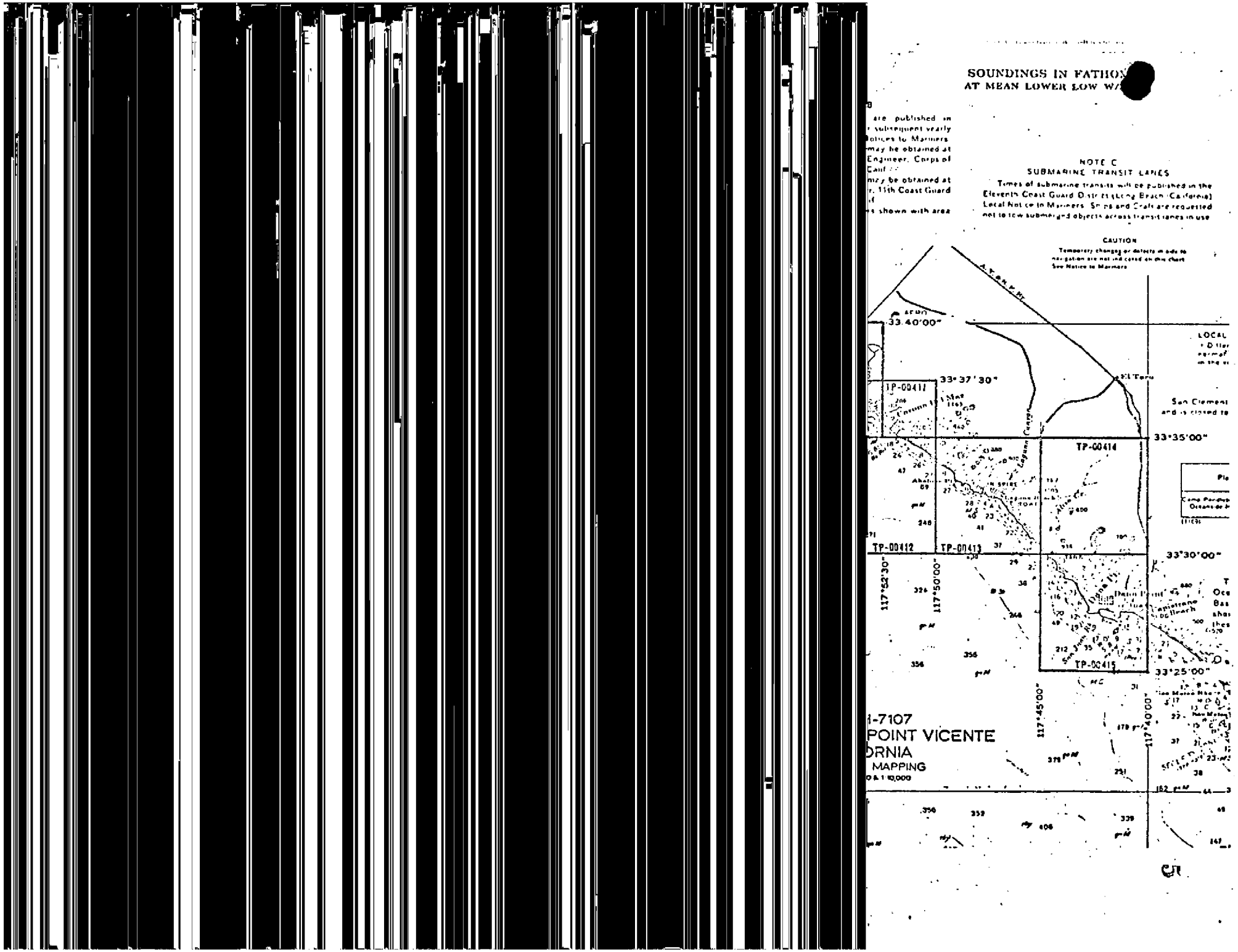
1. [X] BRIDGING PHOTOGRAPHS; [X] DUPLICATE BRIDGING REPORT; [X] COMPUTER READOUTS.
2. [X] CONTROL STATION IDENTIFICATION CARDS; [X] FORM NOS 76-40 SUBMITTED BY FIELD PARTIES.
3. [X] SOURCE DATA *(except for Geographic Names Report)* AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:

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

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

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY / MAP CLASS
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH- _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

☆U.S. Government Printing Office: 1978 — 665-861/1108, Region No. 6


SOUNDINGS IN FATHO
AT MEAN LOWER LOW W
NOTE C
SUBMARINE TRANSIT LANES
CAUTION
33°40'00"
33°37'30"
33°35'00"
33°30'00"
33°25'00"
117°52'30"
117°50'00"
117°45'00"
117°40'00"
TP-00412
TP-00413
TP-00414
TP-00415
POINT VICENTE
MAPPING

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 ~~field~~ 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

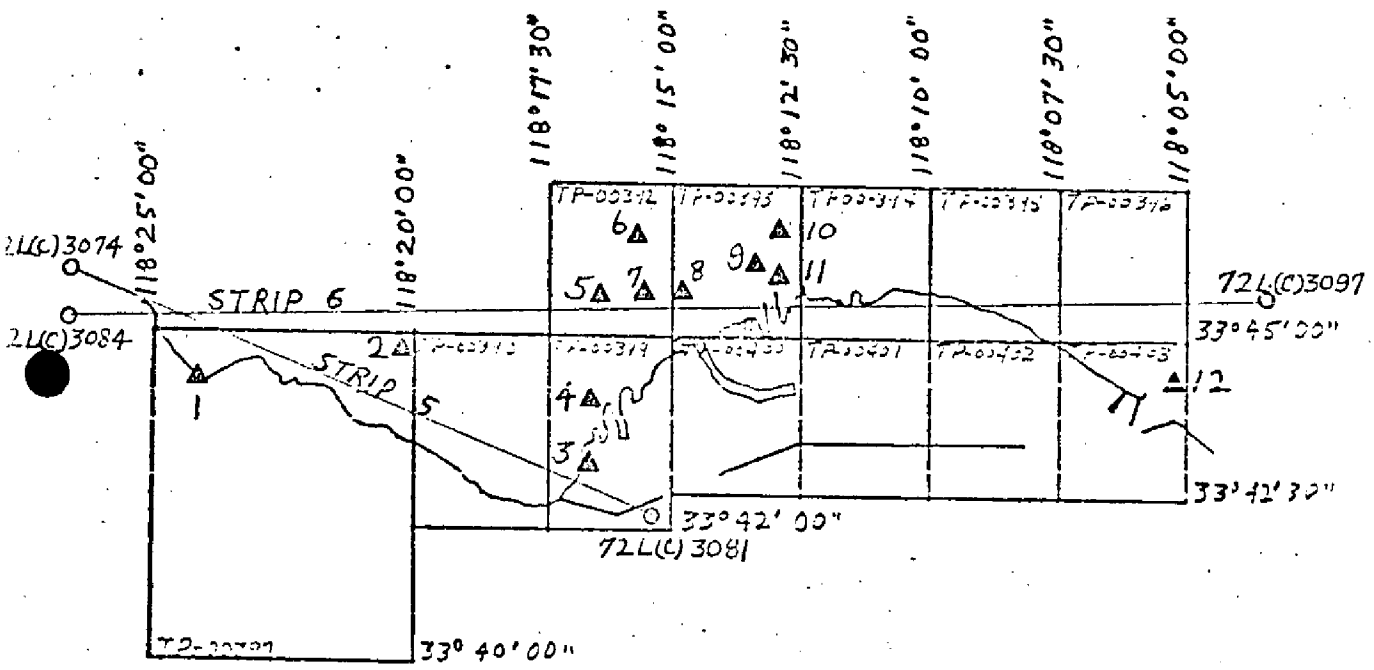
Approved and forwarded:

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.

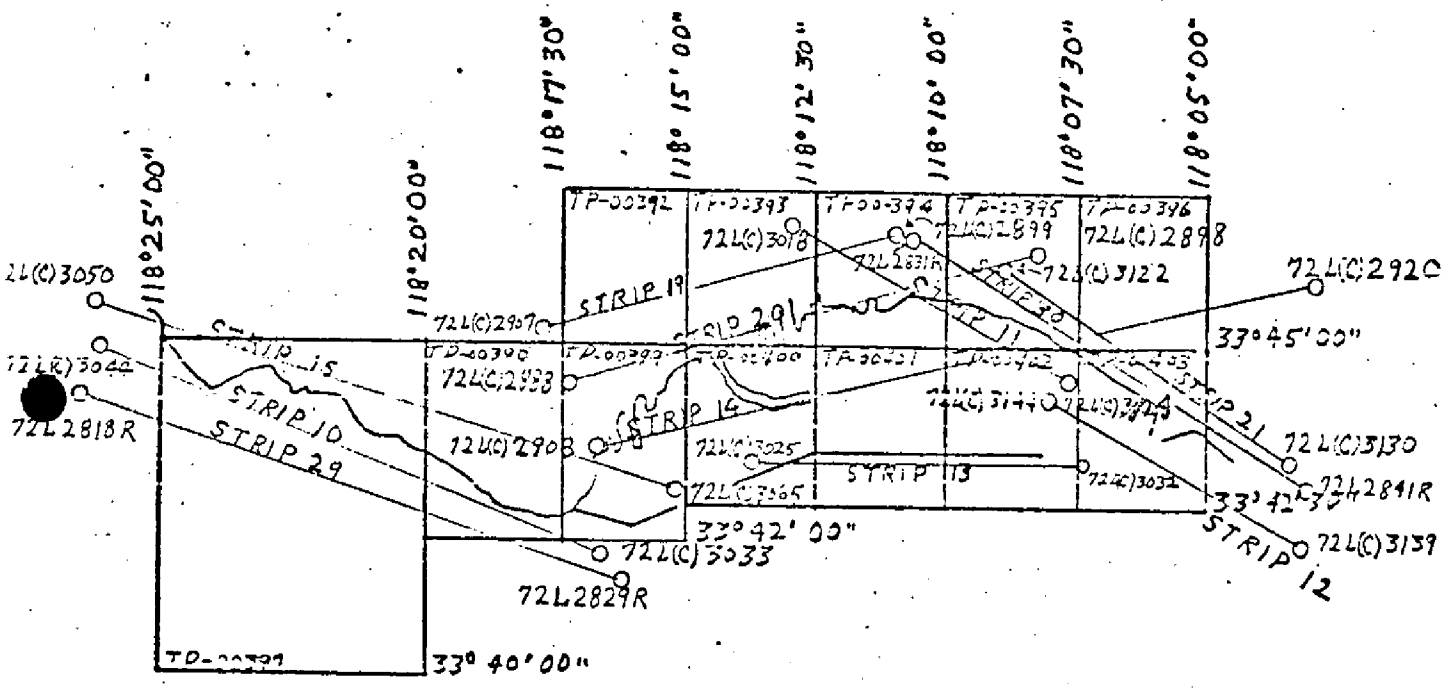
PHOTOGRAMMETRIC PLOT REPORT
Part 2
Dana Point to Point Vicente
California
Job PH-7107
August 1973



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

PHOTOGRAMMETRIC PLOT REPORT
Part 2
Dana Point to Point Vicente
California
Job PH-7107
August 1973



Sketch #2

NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-00393	PH-7107	NA 1927	Coastal Mapping Division, Norfolk, VA.

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE California ZONE 6	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS FORWARD	REMARKS 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 new position) 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 tie conducted by NOAA ship DAVIDSON in the spring 1975 many of the positions reported have changed.			x=	φ		
			y=	λ		

COMPUTED BY	DATE	COMPUTATION CHECKED BY	DATE
A. C. Rauck, Jr.	10/12/73	F. R. Gustafson	10/17/73
LISTED BY	DATE	LISTING CHECKED BY	DATE
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

COMPILATION REPORT

TP-00393

31. DELINEATION:

Delineation was ~~by~~ on 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

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, 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	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
FPM	FPM	FPM	FM

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY *(Topographic stations)*	7. PHOTO HYDRO STATIONS
FM	NA	NA

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
NA	ALS	FM	FM

ALONGSHORE AREAS *(Nautical Chart Data)*

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
FM	FM	FM	FM

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
FM	FM	FM	FM

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER	22. PLANETABLE CONTOURS
FM	NA	NA

23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
NA	NA	NA	

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
FM	FM	FM	FM

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
NA	NA

MISCELLANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT
FM	FM	

36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
FM	FM	NA	FM

40. REVIEWER	SUPERVISOR, REVIEW SECTION OR UNIT
F. Margiotta 9/74 F Margiotta	Albert C. RAuck, Jr. 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	SUPERVISOR
David P. Butler 7/14/75 David P. Butler Reviewer: A. L. Shands 10/9/75 A. L. Shands	Albert C. RAuck, Jr. Albert C. RAuck, Jr.

43. REMARKS

See form 76-36C, item 8, Field Inspection Operations an
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

NOAA FORM 76-40 (8-74)
Replaces C&GS Form 567.

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

NONFLOATING AIDS [redacted] FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

- [X] TO BE CHARTED
- [ ] TO BE REVISED
- [ ] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office): Coastal Mapping Div. A.M.C. Norfolk, Va.
STATE: California
LOCALITY: Dana Point to Point Vicente
DATE: July 1975

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.: 411
JOB NUMBER: Ph-7107
SURVEY NUMBER: TP-00393
DATUM: N.A.1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
LIGHT	Naval Air Base Jetty Light 2	33 45	00.41 13	118 14	47.03 1210		F-4-8-L April, 1975	18302 18323
LIGHT	Long Beach Channel Light 8	33 45	26.42 814	118 12	55.26 1422	72L(C) 2893 Mar. 24, 1972	"	"
LIGHT	Long Beach Berth 118 Light	33 45	42.58 1312	118 13	10.28 265	"	"	"
DAYBEACON	Long Beach Outfall Daybeacon 13 (priv.)	33 45	52.81 1627	118 13	15.42 397	"	"	"

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NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

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

LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

- [ ] TO BE CHARTED
- [ ] TO BE REVISED
- [X] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office): Coastal Mapping Div, A.M.C. Norfolk, Va.

STATE: California

LOCALITY: Dana Point to Point Vicente

DATE: Oct. 1975

The following objects HAVE [XX] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
411	Ph-7107	TP-00393	N.A.1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
TOWER		33 45	25 / 779	118 13	10 / 246	72L(C) 2893 Mar. 24, 1972	Not of landmark value	18302 18323

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NOAA FORM 76-40 (8-74)
Replaces C&GS Form 567.

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

[redacted] LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- ☐ HYDROGRAPHIC PARTY
- ☐ GEODETIC PARTY
- ☐ PHOTO FIELD PARTY
- ☒ COMPILATION ACTIVITY
- ☐ FINAL REVIEWER
- ☐ QUALITY CONTROL & REVIEW GRP.
- ☐ COAST PILOT BRANCH

(See reverse for responsible personnel)

- ☐ TO BE CHARTED
- ☒ TO BE REVISED
- ☐ TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Coastal Mapping Div, A.M.C. Norfolk, Va.	California	Dana Point to Point Vicente	July 1975

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
411	Ph-7107	TP-00393	N.A.1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
TANK	Formerly (Naval Base Tank,1942) Triangulation Station	33 45	26.23 808	118 14	04.82 124	72L(C) 2892 Mar.24,1972	F-3-6-L April.1975	18302 18323
STACK	S.W. Stack of four	33 45	48.35 1490	118 13	50.58 787	72L(C) 2893 Mar.24,1972	"	" " 18337
TANK	Formerly (Long Beach, Proctor and Gamble Co.,Water Tank,1933) Tri. Stat.	33 46	25.89 798	118 12	48.53 1249	72L(C) 2894 Mar.24,1972	"	" " "
STACK	S.E.Stack of four	33 45	48.71 1501	118 13	29.43 757	72L(C) 2893 Mar.24,1972	"	" " "
TANK	Formerly (Long Beach,Red Band,Steel Tank,1920) Triangulation Station	33 46	05.16 159	118 12	47.60 1225	72L(C) 2894 Mar.24,1972	Field verifier suspects tank has been moved	" " "

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

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

[redacted] LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

- [X] TO BE CHARTED
- [ ] TO BE REVISED
- [ ] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Coastal Mapping Div. A.M.C. Norfolk,Va.	California	Dana Point to Point Vicente	July 1975

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
411	Ph-7107	TP-00393	N.A.1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
MAST ON TOWER	(Mast on Signal Tower,1942)	33 45	12.189 375.5	118 14	21.943 564.7	72L(C) 2892 Mar.24,1972	F-V-Vis. April,1975	18302 18323
STACK	(Stack,1942)	33 45	15.495 477.4	118 14	18.564 477.8	"	"	"
TANK	(Wilmington,Ford Motor Co., Tank,1933)	33 46	08.556 263.6	118 14	17.148 441.3	"	"	"
TOWER	East gable-North tower	33 45	59.27 1826	118 14	19.43 500	"	P-Vis. April,1975 72L(C) 2903	"
TOWER	West gable- South tower	33 45	56.54 1742	118 14	19.82 510	"	"	"

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REVIEW REPORT
TP-00393

SHORELINE

September 29, 1978

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report.

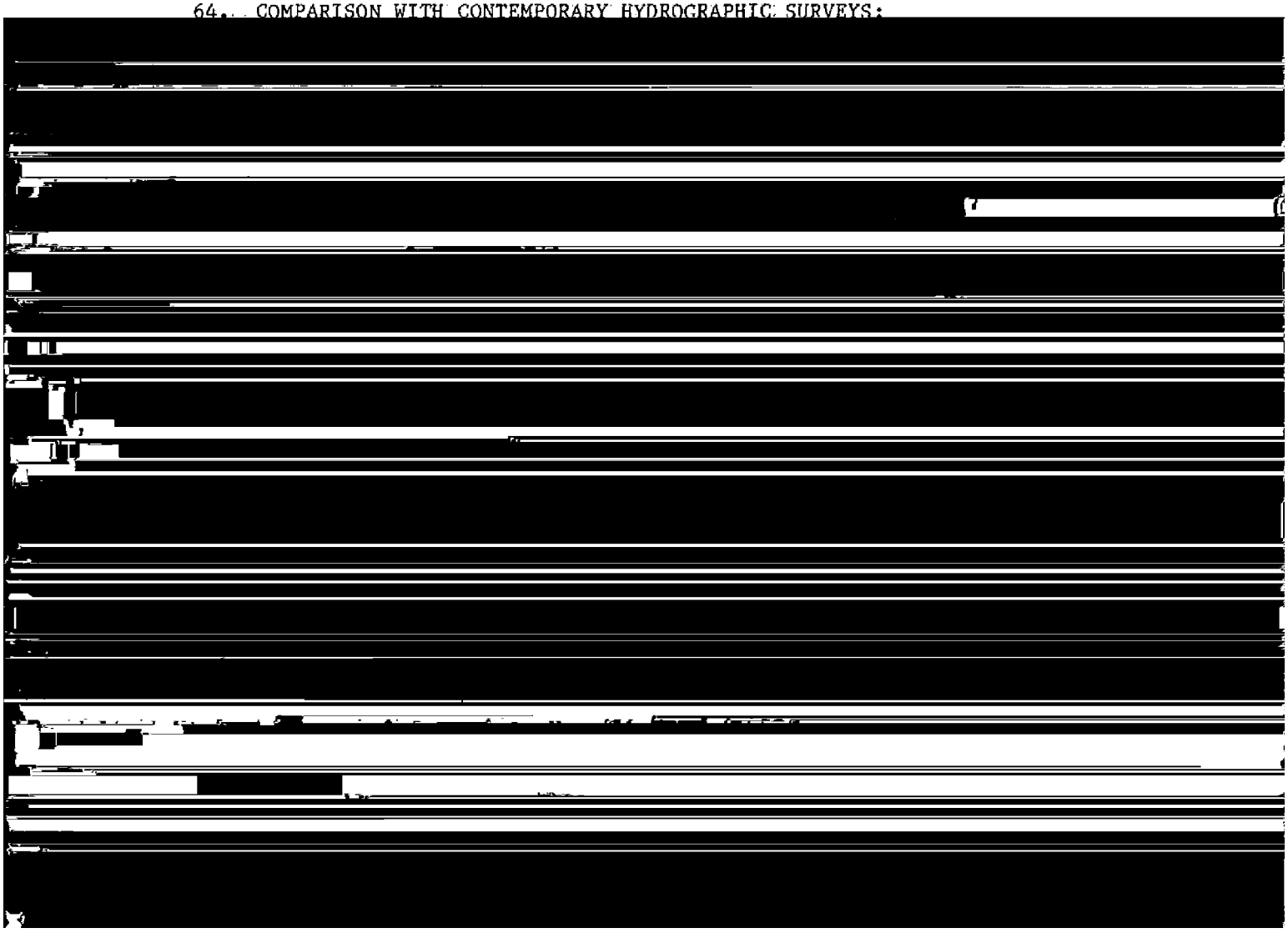
62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:



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:

Billy H. Barnes
for Chief, Photogrammetric Branch, AMC

Approved:

John D Perreault Jr
Chief, Photogrammetric Branch

Chief, ~~Coastal Mapping~~ Photogrammetry Division

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART 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.

CHART	DATE	CARTOGRAPHER	REMARKS
18751	6-25-80	C Jones 6-26-80 RCS	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. # appd thru TP00393
18749	6-25-80	C Jones 6-26-80 RCS	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. # appd thru chart 18751
18746	6-25-80	C Jones 6-30-80 RCS	Full Part ~~Before~~ After Verification Review Inspection Signed Via
			Drawing No. no corr Exam thru cht 18749
18740	6-25-80	C Jones 6-26-80 RCS	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. no corr Exam thru cht 18746
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

USCOMM-DC 8558-P63