

11646

orig

Diag. Cht. No. 5101-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAMMETRIC)

Field No. Ph-5908 Office No. T-11646

LOCALITY

State CALIFORNIA

General locality LOS ANGELES

Locality POINT FERMIN

19 ~~59~~ - 1960

CHIEF OF PARTY

FRED NATELLA

LIBRARY & ARCHIVES

DATE Sept. 1963

USCOMM-DC 5087

11646

DESCRIPTIVE REPORT - DATA RECORD

T- 11646

Project No. (II): PH-5908 Quadrangle Name (IV):

Field Office (II): SANTA ANA, CALIFORNIA

Chief of Party: LORNE G. TAYLOR & FRED NATELLA

UNIT CHIEF: R. B. MELBY

Photogrammetric Office (III): PORTLAND, OREGON

Officer-in-Charge: LORNE G. TAYLOR
& FRED NATELLA

Instructions dated (II) (III): 6 JANUARY 1960

Copy filed in Division of

AMENDMENT 1: 13 APRIL 1960

Photogrammetry (IV)

Method of Compilation (III): KELSH INSTRUMENT

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6000

PANTOGRAPH SCALE: 1:10,000

Scale Factor (III): NONE

Date received in Washington Office (IV): JAN 29 1963 Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows: X
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): NAVY, 1921

Lat.: 33° 42' 17.354"

Long.: 118° 17' 35.087"

Adjusted
Unadjusted

Plane Coordinates (IV):

State: CALIFORNIA Zone: VI

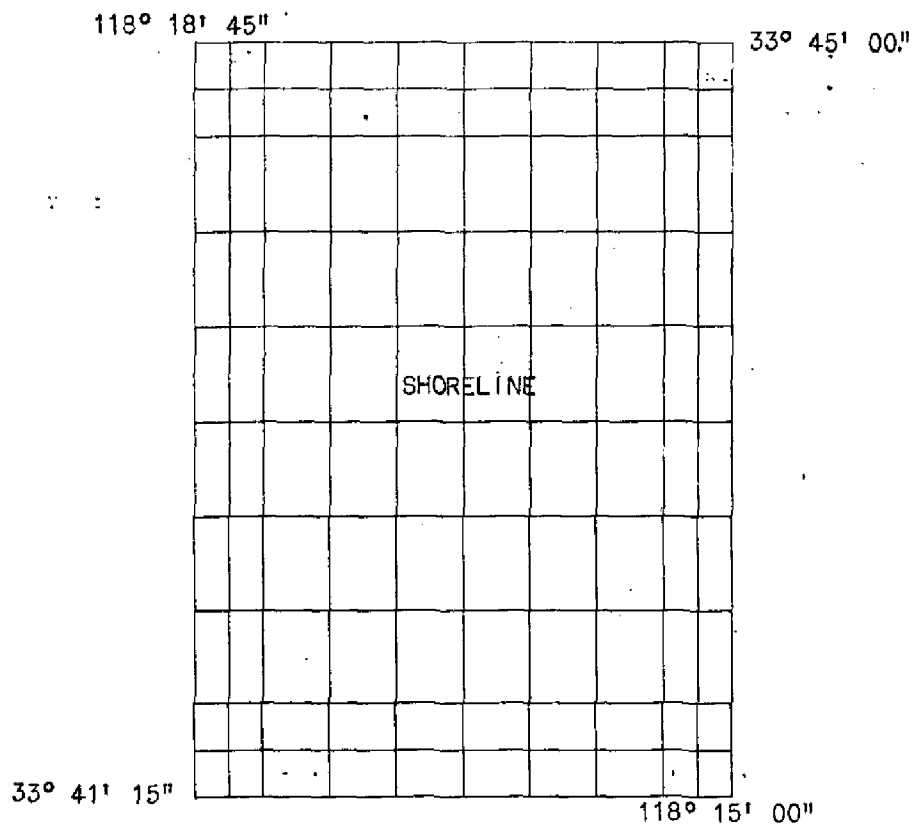
Y= 565,740.54

X= 1,378,652.08

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.

DESCRIPTIVE REPORT - DATA RECORD



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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): R. B. MELBY Date: APRIL - MAY 1960

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): APRIL 14, 1960 BY FIELD INSPECTION AND KELSH INSTRUMENT COMPILATION.

Projection and Grids ruled by (IV): R.A.C. Date: 9-28-60

Projection and Grids checked by (IV): J.D.C. Date: 10-12-60

Control plotted by (III): C. H. BISHOP Date: 1-10-62

Control checked by (III): L. L. GRAVES Date: 3-8-62

Radial Plot or Stereoscopic Control extension by (III): R. E. FUESCHEL Date: OCT. 1960

Stereoscopic Instrument compilation (III): Planimetry D. N. WILLIAMS Date: 5-12-62
Contours Date:

Manuscript delineated by (III): C. H. BISHOP, SCRIBING Date: 7-25-62
C. C. HARRIS, STICK-UP 12-19-62

Photogrammetric Office Review by (III): J. L. HARRIS, ROUGH DRAFT Date: 6-15-62
J. L. HARRIS, ADVANCE 12-26-62

Elevations on Manuscript checked by (II) (III): Date:

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C&GS SINGLE LENS "S"

		PHOTOGRAPHS (III)			
Number	Date	Time	Scale	Stage of Tide	
59 S 8169					
THRU 8171	10-3-59	10:56	1:30,000	0.4' ABOVE M.H.W. . .	
59 S 8155	"	10:46	"	" "	
THRU 8157	"	11:03	"	" "	
59 S 8174	"				
THRU 8177	"				
59 S 7980					
THRU 7984	10-2-59	14:30	1:10,000	AT M.L.L.W.	
59 S 7999	"	14:50	"	"	
THRU 8021	"				

Tide (III)

Reference Station: LOS ANGELES (OUTER HARBOR)

Subordinate Station:

Subordinate Station:

COMPUTED FROM PREDICTED TIDE TABLES

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Ratio of Ranges	DIURNAL	
	Mean Range	Spring Range
	3.8	5.4

Date:

Date:

Date:

Date:

Land Area (Sq. Statute Miles) (III): 5

Shoreline (More than 200 meters to opposite shore) (III): 11

Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 74 Recovered: 17 Identified: 11

Number of BMs searched for (II): 50 Recovered: 47 Identified: 37

Number of Recoverable Photo Stations established (III): 16

Number of Temporary Photo Hydro Stations established (III):

Remarks:

FIELD INSPECTION REPORT

MAP MANUSCRIPT T-11646

PROJECT PH-5908

REFER TO THE FIELD INSPECTION REPORT FOR T-11640 AND T-11646
SUBMITTED TO THE WASHINGTON OFFICE 1-27-61. *Filed with Desc Report T11640*

PHOTOGRAMMETRIC PLOT REPORT

MAP MANUSCRIPT T-11646

PROJECT PH-5908

REFER TO THE PHOTOGRAMMETRIC PLOT REPORT FOR THE ENTIRE
PROJECT BY R. E. FUESCHEL, OCTOBER, 1960.

Filed with Desc. Report T-11640

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORTCOAST AND GEODETIC SURVEY
CONTROL RECORD

MAP T-11646

PROJECT NO. PH-5908

SCALE OF MAP 1:10,000

SCALE FACTOR

None

STATION	VI SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y -COORDINATE LONGITUDE OR x -COORDINATE		DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
NAVY, 1921	P-10	N.A. 1927	565,740.54		740.54	(4259.46)		225.7	(1298.3)		
			1,378,652.08		3652.08	(1347.92)		1113.2	(410.8)		
SUB. STA. "B"	OFFICE	"	565,802.41		802.41	(4197.59)		244.6	(1279.4)		
	COMP.		1,378,713.44		3713.44	(1286.56)		1131.9	(392.1)		
BATTERY, 1921	P-10	"	568,500.91		3500.91	(1499.09)		1067.1	(456.9)		
			1,378,713.19		3713.19	(1286.81)		1131.8	(392.2)		
MUSTARD, 1870	P-76	"	572,405.13		2405.13	(2594.87)		733.1	(790.9)		
			1,374,517.31		4517.31	(482.69)		1376.9	(147.1)		
OLD, 1899	P-10	"	571,325.92		1325.92	(3674.08)		404.1	(1119.9)		
			1,382,005.84		2005.84	(2994.16)		611.4	(912.6)		
POINT FERMIN LIGHT, 1960	OFFICE	"	33 42 17.494					529.0	(1309.6)		
	COMP.		118 17 34.928					899.4	(645.6)		
SAN PEDRO, CABRILLO BEACH, BATH HOUSE SPIRE, 1933	P-16	"	567,408.97		2408.97	(2591.03)		734.3	(789.7)		
			1,381,764.38		1764.38	(3235.62)		537.8	(986.2)		
SAN PEDRO, COTTON COMPRESS CO., TANK, 1933	P-15	"	574,593.15		4593.15	(406.85)		1400.0	(124.0)		
			1,383,805.28		3805.28	(1194.72)		1159.8	(364.2)		
SAN PEDRO, COURTHOUSE CHIMNEY 1933	P-16	"	577,739.90		2739.90	(2260.10)		835.1	(588.9)		
			1,383,068.31		3068.31	(1931.69)		935.2	(588.8)		
SAN PEDRO, MUNICIPAL WAREHOUSE, PIER 1 TANK, 1920	P-16	"	571,611.21		1611.21	(3388.79)		491.1	(1032.9)		
			1,385,360.18		360.18	(4639.82)		109.8	(1414.2)		90
SAN PEDRO, PIER 232, WATER TANK 1933	P-16	"	578,454.69		3454.69	(1545.31)		1053.0	(471.0)		
			1,385,424.12		424.12	(4575.88)		129.3	(1394.7)		
SAN PEDRO, S.W. SHIP BUILDING CO., TANK, 1920	P-16	"	575,685.62		685.62	(4314.38)		209.0	(1315.0)		
			1,386,540.80		1540.80	(3459.20)		469.6	(1054.4)		

1 FT. = 3048006 METER
COMPUTED BY: J.L.H.
C.H.B.DATE 3-10-60
10-27-61CHECKED BY: D.N.W.
J.E.D.DATE 3-10-60
11-7-61

COM-DC-57843

MAP T-11646

PROJECT NO. PH-5908

SCALE OF MAP 1:10,000

SCALE FACTOR	NONE
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STATION	V.I. SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y-COORDINATE LONGITUDE OR X-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD (BACK)		FORWARD (BACK) (BACK)	
SAN PEDRO, WEATHER BUREAU, TOWER, 1933	P-16	N.A. 1927	571,305.08	1305.08 (3694.92)		397.8 (1126.2)	
			1,385,454.12	454.12 (4545.88)		138.4 (1385.6)	
SAN PEDRO, WIRELESS, 1926	P-13	"	566,743.24	1743.24 (3256.76)		531.3 (992.7)	
			1,391,315.51	1315.51 (3684.49)		401.0 (1123.0)	
SAN PEDRO, Y.M.C.A.	P-16	"	576,837.65	1837.65 (3162.35)		560.1 (963.9)	
NEON SIGN, 1933			1,382,930.46	2930.46 (2069.54)		893.2 (630.8)	
			571,720.82	1720.82 (3279.18)		524.5 (999.5)	
SOLITARY '2, 1932	P-13	"	1,378,906.89	3906.89 (1093.11)		1190.8 (333.2)	
AIR, 1949	VII P-16	"	4,201,431.22	1431.22 (3568.78)		436.2 (1087.8)	
			4,209,512.60	4512.60 (487.40)		1375.4 (148.6)	
R.R. FLAGSTAFF 1899	VI P-76	"	568,706.67	3706.67 (1293.33)		1129.8 (394.2)	
			1,378,923.55	3923.55 (1076.45)		1195.9 (328.1)	
POINT FERMIN	G.P. III	"	33 42 19.429			598.6 (1250.0)	
LIGHTHOUSE, 1878	P-2		118 17 33.967			874.7 (670.4)	
SAN PEDRO, LIGHTHOUSE, SPIRE, 1949	G.P. III P-89	"	33 42 30.638			943.9 (904.6)	
			118 15 02.478			63.7 (1481.3)	
							10

1 FT. = .3048006 METER

COMPUTED BY:
C.H.B.

DATE 10-27-61

CHECKED BY: J.E.D..

DATE 11-7-61

COMM-DC-57843

COMPILATION REPORT

MAP MANUSCRIPT T-11646

PROJECT PH-5908

31. DELINEATION:

THE PLANIMETRY WAS COMPILED BY THE KELSH INSTRUMENT. IN SOME INSTANCES, THE SIZE OF BUILDINGS ON PIERS WAS REDUCED TO PERMIT DETAILING OF RAILROAD TRACKS BETWEEN THE BUILDINGS AND THE EDGE OF THE PIER.

32. CONTROL:

SUPPLEMENTARY CONTROL ESTABLISHED BY STEREOPLANIGRAPH BRIDGING AND BASED UPON IDENTIFIED HORIZONTAL CONTROL STATIONS WAS ADEQUATE.

33. SUPPLEMENTAL DATA:

MAP OF LOS ANGELES COUNTY No. 29, SCALE 1 INCH = 600 FEET, COMPILED BY THE COUNTY ENGINEER, MAY, 1958.

MAP OF LOS ANGELES HARBOR, SCALE 1 INCH = 1600 FEET, COMPILED BY BOARD OF HARBOR COMMISSIONERS, CITY OF LOS ANGELES, SEPTEMBER, 1959.

34. CONTOURS AND DRAINAGE:

CONTOURS ARE NOT APPLICABLE.

THERE IS NO DRAINAGE IN THE AREA OF THIS MANUSCRIPT.

35. SHORELINE AND ALONGSHORE DETAILS:

FIELD INSPECTION OF THE MEAN HIGH-WATER LINE WAS ADEQUATE. THE APPROXIMATE LOW-WATER LINE WAS DETERMINED FROM OFFICE INSPECTION OF THE LOW-WATER COLOR TRANSPARENCIES. SEVERAL ROCKS OFF POINT FERMIN PARK WERE IDENTIFIED BY THE FIELD UNIT AND LOCATED DURING COMPILATION BY THE KELSH INSTRUMENT. NO DATA ON BARING OF THESE ROCKS WERE FURNISHED BY THE FIELD INSPECTION.

36. OFFSHORE DETAILS:

NONE.

37. LANDMARKS AND AIDS:

FIFTEEN LANDMARKS WERE IDENTIFIED AND ARE SHOWN ON ;THIS MANUSCRIPT. NINE ARE TRIANGULATION STATIONS; ONE WAS LOCATED BY SEXTANT FIX AND THE POSITION OF THE REMAINING FIVE WAS DETERMINED BY STEREOPLANIGRAPH BRIDGING.

OF THE ELEVEN FIXED AIDS SHOWN ON THIS MAP, ONE IS A TRIANGULATION STATION, ONE WAS LOCATED BY TRAVERSE, THE POSITION OF ONE WAS DETERMINED FROM A THEODOLITE FIX, AND EIGHT WERE LOCATED DURING THE CONTROL EXTENSION BY THE STEREOPLANIGRAPH.

FORMS 567 ARE SUBMITTED.

38. CONTROL FOR FUTURE SURVEYS:

NONE.

39. JUNCTIONS:

SATISFACTORY JUNCTIONS WERE MADE WITH T-11645 TO THE WEST, WITH T-11640 TO THE NORTH AND WITH T-11647 TO THE EAST. SAN PEDRO CHANNEL IS TO THE SOUTH.

40. HORIZONTAL AND VERTICAL ACCURACY:46. COMPARISON WITH EXISTING MAPS:

COMPARISON WAS MADE WITH THE U.S.G.S. $7\frac{1}{2}$ MINUTE SAN PEDRO, CALIFORNIA QUADRANGLE, SCALE 1:24,000, EDITION 1951.

47. COMPARISON WITH NAUTICAL CHARTS:

COMPARISON WAS MADE WITH THE FOLLOWING NAUTICAL CHARTS:

NAUTICAL CHART 5147, SCALE 1:12,000 AT LAT. 33° 44',
6TH ED. OCT. 1943, REVISED AUG. 1962.NAUTICAL CHART 5148, SCALE 1:18,000 AT LAT. 33° 43',
3RD ED. MAY 1957, REVISED FEB. 1962.NAUTICAL CHART 5142, SCALE 1:80,000 AT LAT. 33° 31',
1ST ED. MARCH 1957, REVISED NOV. 1959.NAUTICAL CHART 5101, SCALE 1:234,270 AT LAT. 33° 20',
5TH ED. JAN. 1947, REVISED MAY 1959.

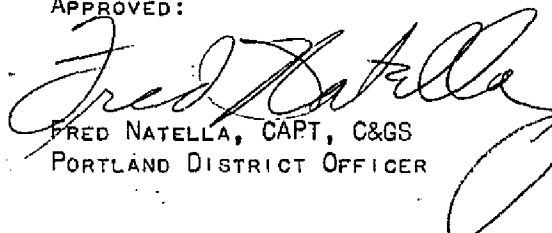
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

NONE.

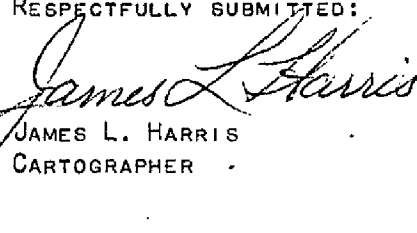
ITEMS TO BE CARRIED FORWARD:

NONE.

APPROVED:


FRED NATELLA, CAPT, C&GS
PORTLAND DISTRICT OFFICER

RESPECTFULLY SUBMITTED:


JAMES L. HARRIS
CARTOGRAPHER

49. NOTES FOR THE HYDROGRAPHER:

NONE.

PHOTOGRAMMETRIC OFFICE REVIEW

T-3895-11646

1. PROJECTION AND GRIDS X	2. TITLE X	3. MANUSCRIPT NUMBERS X	4. MANUSCRIPT SIZE X
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY X	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) X		7. PHOTO HYDRO STATIONS None
8. BENCH MARKS X	9. PLOTTING OF SEXTANT FIXES X	10. PHOTOGRAMMETRIC PLOT REPORT X	11. DETAIL POINTS None
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE X	13. LOW-WATER LINE X	14. ROCKS, SHOALS, ETC. X	15. BRIDGES None
16. AIDS TO NAVIGATION X	17. LANDMARKS X	18. OTHER ALONGSHORE PHYSICAL FEATURES X	19. OTHER ALONGSHORE CULTURAL FEATURES X
PHYSICAL FEATURES			
20. WATER FEATURES X	21. NATURAL GROUND COVER X		22. PLANETABLE CONTOURS None
23. STEREOSCOPIC INSTRUMENT CONTOURS None	24. CONTOURS IN GENERAL None	25. SPOT ELEVATIONS None	26. OTHER PHYSICAL FEATURES X
CULTURAL FEATURES			
27. ROADS X	28. BUILDINGS X	29. RAILROADS X	30. OTHER CULTURAL FEATURES X
BOUNDARIES			
31. BOUNDARY LINES X		32. PUBLIC LAND LINES None	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES X	34. JUNCTIONS X		35. LEGIBILITY OF THE MANUSCRIPT X
36. DISCREPANCY OVERLAY None	37. DESCRIPTIVE REPORT X	38. FIELD INSPECTION PHOTOGRAPHS X	39. FORMS X
40. REVIEWER James L. Harris		SUPERVISOR, REVIEW SECTION OR UNIT Edward Deal	
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	
43. REMARKS			

COMPILATION RECORD

COMPLETION DATE

REMARKS

Alongshore area for hydro	12/26/62	
Interior details added - Compilation complete	12/26/62	

NOTICE TO CHARTED POSSESSORS

TO BE CHARTED FOR POSSESSORS STRIKE OUT TWO PORTLAND, OREGON 13 JUNE 19 62

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on (additions) the charts indicated. The positions given have been checked after listing by J. L. HARRIS

CALIFORNIA										FRED NATELLA					Chief of Party.	
STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED	
				LATITUDE *		LONGITUDE *										
				D. M.	S.	D. P.	M.	S.	E.	DATUM						
LOOKOUT TOWER	LOOKOUT TOWER	Ht.=58' (169')		33	42	19.429	168	17	33.967	N.A.	TRIANG.	3-29-60	X		5147	
	(POINT FERMIN LIGHTHOUSE 1878)					598.6			874.7	1927			X		5148	
CUPOLA	CUPOLA	Ht.=41' (60')		33	42	34.459	118	16	58.640	"	"	"	X		5147	
	(SAN PEDRO, CABRILLO BEACH, BATHHOUSE SPIRE, 1933)					1061.6			1510.0	"			X		5148	
RADIO MAST	MARY, SKELETON TOWER, SKELETON ON BLDG.	Ht.=79' (87') HT.=165' (172')		33	42	29.702	118	15	05.451	"	"	4-7-60	X		5147	
FLAG TOWER	(SAN PEDRO, WEATHER BUREAU, TOWER, 1933)					915.1			140.4	"	"		X		5148	
	(SAN PEDRO, MUNICIPAL WAREHOUSE PIER 1, TANK, 1920)			33	43	13.707	118	16	15.866	"	"	4-4-60	X		5147	
TANK	TANK, ELEV. ON BLDG.	Ht.=143' (150')				422.3			408.5	"	"		X		5148	
	(SAN PEDRO, COTTON COMPRESS CO., TANK, 1933)			33	43	16.717	118	16	17.048	"	"	4-4-60	X		5147	
						515.0			438.9	"	"		X		5148	
TANK	TANK, ELEV.	Ht.=149' (158')		33	43	45.914	118	16	36.139	"	"	"	X		5147	
	(SAN PEDRO, S.W. SHIP BLDG. CO., TANK, 1920)					1414.6			930.4	"	"		X		5148	
TANK	TANK ELEV.	Ht.=108' (113')		33	43	57.245	118	16	04.007	"	"	4-6-60	X		5147	
	(SAN PEDRO, S.W. SHIP BLDG. CO., TANK, 1920)					1763.7			103.2	"	"		X		5148	
NEON SIGN	NEON SIGN YMCA, ELEV.	Ht.=95' (161')		33	44	07.947	118	16	47.012	"	"	4-4-60	X		5147	
YMCA	(SAN PEDRO, YMCA NEON SIGN, 1933)					244.8			1210.2	"	"		X		5148	
TANK	TANK, ELEV.	Ht.=142' (150')		33	44	24.421	118	16	17.862	"	"	4-6-60	X		5147	
	(SAN PEDRO, PIER 232, WATER TANK, 1933)					752.4			459.8	"	"		X		5148	
POLE	POLE	Ht.=23' (30')		33	42	19.82	118	15	35.69	"	SEXTANT FIX	4-28-60	X		5147	
						610.5			919.1	"	"		X		5148	

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.

* TABULATE SECONDS AND METERS

KNOWLEDGE OF CHARTS OR LANDMARKS FOR CHARTS

The positions given have been checked after listing by J. L. HARRIS

FRED NATELLA *Chief of Party.*

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-35, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not be individual field survey sheets. Information under each column heading should be given.

TABULATE SECONDS AND METERS

TO BE CHARTED
BOOK EXAMINER
BOOK NUMBER

STRIKE OUT TWO

NONFLOATING AIDS ~~FOR CHARTS~~

PORTLAND, OREGON

13 JUNE 1962

I recommend that the following objects which have ~~(been)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(selected sheets)~~ the charts indicated.

The positions given have been checked after listing by

J. L. HARRIS

FRED NAYELLA Chief of Party

STATE CALIFORNIA				POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE #		LONGITUDE #		DATUM						
			° ' "	° ' "	° ' "	° ' "							
LIGHT-HOUSE	LOS ANGELES LIGHT (SAN PEDRO BREAKWATER LIGHTHOUSE 1913)	LL 137	33 42	118 15	02.486 64.0	N.A. 1927	TRIANG.	4-7-60	X	X	X	5103 5147 5148	
LIGHT	POINT FERMIN LIGHT (POINT FERMIN LIGHT, 1960)	LL 13	33 42	118 17	34.928 899.5	"	TRAVERSE	3-28-60	X	X	X	5103 5147 5148	
LIGHT	LOS ANGELES CHANNEL, LIGHT 5	LL 141	33 43	118 16	07.84 201.9	"	STEREO BRIDGE	4-14-60	X	X	X	5147 5148 5148	
LIGHT	LOS ANGELES CHANNEL, LIGHT 6	LL 142	33 43	118 15	57.649 1484.3	"	TWED-DOLITE	"	X	X	X	5147 5148 5148	
LIGHT	LOS ANGELES CHANNEL, LIGHT 7	LL 143	33 43	118 16	13.33 343.1	"	STEREO BRIDGE	4-11-60	X	X	X	5147 5148 5147	
LIGHT	LOS ANGELES CHANNEL, LIGHT 10	LL 144	33 43	118 16	16.48 424.2	"	"	4-14-60	X	X	X	5147 5148 5148	
LIGHT	FISH HARBOR CHANNEL, LIGHT 1	LL 160	33 43	118 15	52.81 1359.5	"	"	4-28-60	X	X	X	5147 5148 5147	
LIGHT	FISH HARBOR CHANNEL, LIGHT 2	LL 161	33 43	118 15	50.22 1292.9	"	"	"	X	X	X	5147 5148 5147	
LIGHT	FISH HARBOR CHANNEL, LIGHT 4	LL 162	33 44	118 15	57.48 1479.6	"	"	4-14-60	X	X	X	5147 5148 5147	
LIGHT	FISH HARBOR CHANNEL, LIGHT 3	LL 163	33 44	118 16	00.30 7.6	"	"	"	X	X	X	5147 5148 5148	
LIGHT	SAN PEDRO WEST CHANNEL, LIGHT 2	LL 166	33 42	118 16	21.67 558.0	"	"	4-28-60	X	X	X	5147 5148 5148	
NOTE: PORTS-Q-CALL LIGHTS A, B & L.L. No. 143.7, SHOWN ON NAUTICAL CHARTS 5147 & 5148, WERE NOT IN POSITION AT THE TIME OF FIELD INSPECTION..													

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.

* TABULATE SECONDS AND METERS

TO BE DELETED
TO BE DELETED
TO BE DELETED

PORTLAND, OREGON

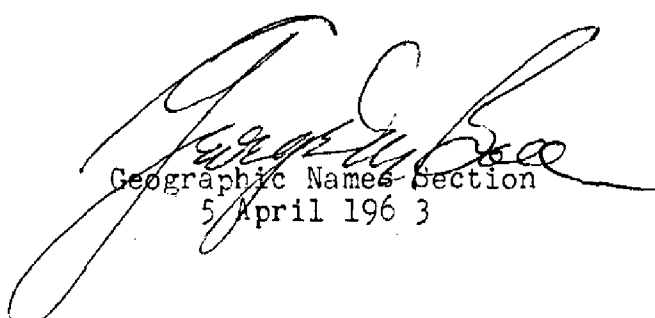
13 JUNE 1962

The positions given have been checked after listing by J. L. Harris

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-35, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.

48. Geographic Names List

Cabrillo Beach
East Channel
East San Pedro
Fish Harbor
Los Angeles Channel
Outer Harbor
Point Fermin
Point Fermin Park
Reservation Point
San Pedro
San Pedro Bay
San Pedro Breakwater
San Pedro Channel
Terminal Island
Watchorn Basin
West Channel


Geographic Names Section
5 April 1963

Review Report
Shoreline Maps
T-11640 and T-11644 thru T-11646
August 1963

61. General Statement

There are four (4) shoreline maps of project PH-5908, Long Beach to Laguna Beach, California. These maps were prepared primarily for the location of all nonfloating aids and landmarks for use in the revision of our Nautical Charts.

62. Comparison with Registered Topographic Surveys

T-4825	1:10,000	1933
T-4826	1:10,000	1933
T-5034A	1:10,000	1934

There are numerous major shoreline and cultural changes due to the time interval. These maps are to supersede the above surveys for common area for nautical charting.

63. Comparison with Maps of Other Agencies

San Pedro, Calif.	1:24,000	U.S.G.S.	1951
Redondo Beach, Calif.	1:24,000	U.S.G.S.	1951
Torrance, Calif.	1:24,000	U.S.G.S.	1951

There are cultural and shoreline changes due to the difference in survey dates.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

5142	1:80,000	Nov. 1960	Revised Dec. 1962
5147	1:18,000	Feb. 1963	
5148	1:12,000	Feb. 1963	

Differences exist. However, there are no items to be applied immediately.

66. Adequacy of Results and Future Surveys

These maps comply with the National Map Accuracy Standards and meet Bureau requirements.

Reviewed by:

L. C. Lande
L. C. Lande

Approved by:

Charles L. Lerner
Chief, Cartographic Branch

John G. Taylor
Chief, Nautical Charts Division

J. E. Waugh 9/10/63
Chief, Photogrammetry Division

Harold S. Connelley
Chief, Operations Division

