11864

T-11659
T-5417
T-5416

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 6011 *Office No.* T-11864

LOCALITY

State CALIFORNIA

General locality DANA POINT TO MISSION BAY

Locality CAPISTRANO BEACH

1960 – 1962

CHIEF OF PARTY

FRED NATELLA, PHOTOGRAMMETRIC OFFICE

LIBRARY & ARCHIVES

DATE SEP 22 1965

USCOMM-DC 5087

11864

FORM C&GS-181a
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD
T- 11864

PROJECT NO. (II):
21033

FIELD OFFICE (II): OCEANSIDE, CALIFORNIA	CHIEF OF PARTY: FRED NATELLA UNIT CHIEF: R. B. MELBY
PHOTOGRAMMETRIC OFFICE (III): PORTLAND, OREGON	OFFICER-IN-CHARGE: FRED NATELLA

INSTRUCTIONS DATED (II) (III): 20 DECEMBER 1960
AMENDMENT I: AUG. 31, 1961 II, III
AMENDMENT I: APR. 25, 1963 III
AMENDMENT II: OCT. 1, 1963 III

METHOD OF COMPILATION (III):
KELSH INSTRUMENT

MANUSCRIPT SCALE (III): 1:10,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:6000 PANTOGRAPH SCALE 1:10,000
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
APPLIED TO CHART NO.	DATE: / DATE REGISTERED (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):
DOHENEY, 1933

LAT.: 33° 27' 35.716"	LONG.: 117° 40' 20.874"	[X] ADJUSTED [ ] UNADJUSTED

PLANE COORDINATES (IV): y = 473,500.67	x = 1,566,165.45	STATE: CALIFORNIA	ZONE: VI

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.

USCOMM-DC 16276A-P61

FORM C&GS-181b
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): ROBERT B. MELBY	DATE: SEPT. 1961 - MAR. 1962
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): OCTOBER, 1961 BY FIELD INSPECTION. COMPILATION BY KELSH INSTRUMENT.	
PROJECTION AND GRIDS RULED BY (IV): A.R.	DATE 4-10-63
PROJECTION AND GRIDS CHECKED BY (IV): L.F.B.	DATE 4-10-63
CONTROL PLOTTED BY (III): R. H. MEYER	DATE 4-18-63
CONTROL CHECKED BY (III): D.N. WILLIAMS	DATE 4-18-63
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): HENRY P. EICHERT	DATE APR. 1963
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY: D. N. WILLIAMS	DATE 5-9-63
CONTOURS: NONE	DATE
MANUSCRIPT DELINEATED BY (III): SMOOTH DRAFT: J. L. HARRIS	DATE 6-11-63
SCRIBING BY (III): STICK-UP: C. C. HARRIS	DATE 11-5-63
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): ROUGH DRAFT: J. L. HARRIS; ADVANCE: J. L. HARRIS	DATE 6-11-63; 12-30-63
REMARKS:	

FORM C&GS-181c
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

C&GS SINGLE LENS "S"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 S 536A THRU 539A	9-2-60	11:05	1:30,000	1.9' ABOVE M.L.L.W.
60 S 405A THRU 408A	"	08:55	1:20,000	3.7' " "
	RATIO PRINTS OF ABOVE		AT 1:10,000	
				COMPUTED FROM PREDICTED TIDE TABLES.

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: SAN DIEGO, CALIFORNIA		4.2	5.8
SUBORDINATE STATION: SAN CLEMENTE, CALIFORNIA		3.7	5.3
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): DATE:

PROOF EDIT BY (IV): DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 17 RECOVERED: 12 IDENTIFIED: 3

NUMBER OF BM(S) SEARCHED FOR (II): NONE RECOVERED: IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 1

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): NONE

REMARKS:

USCOMM-DC 16276C-P61

FIELD INSPECTION REPORT

Project PH-6011

Map Manuscripts T-11864 thru T-11877

September 1961 - March 1962

2. Areal Field Inspection:

The shoreline in this area extends in a general northwest-southeast direction. The terrain is mostly hilly, with the coastal bluffs backed by a sloping bench, then giving way to the higher hills inland.

The area is served by the Atchison, Topeka and Santa Fe Railway.

U. S. Highway 101 (Coast Highway) parallels the coast throughout the area.

Towns or cities in the area are Capistrano Beach, San Clemente, Oceanside, Carlsbad, Encinitas, Cardiff-By-The-Sea, Solana Beach, Del Mar, San Diego and various smaller communities.

The quality of the photography furnished the field unit was adequate for field inspection and the identification of horizontal control.

3. Horizontal Control:

(a) One supplemental control station, "TOP, 1961, n.m., n.d.", was established for photo control, northwest of sheet T-11864. Other supplemental control consists of the location of aids to navigation and landmarks of permanent type structures.

(b) No datum adjustments were made by the field party.

(c) Only control established by the Coast and Geodetic Survey was searched for or recovered.

(d) All horizontal control required by the project Instructions for stereoplanigraph bridging was positively identified.

(e) All stations established by the Coast and Geodetic Survey were searched for.

The following stations were searched for and have been reported as lost or destroyed:

Sheet 11864

Beacon No. 6, 1933 PRIMA, 1933
Doheney Palisades, North of Sta. DOHENEY, Flagpole, 1933
Doheney Palisades, Plunge Bldg., Windvane, 1933
Oil Derrick, Center Board, N.W. of Sta. WIDOWS HILL, 1933

Sheet 11865

SEGUNDA, 1933

Sheet 11866

COTTON, 1933
White Cross on Hill, Back of San Clemente, 1933

Sheet 11867

ONOFRE BLUFF, 1886

Sheet 11868

Red, Water Tank, West of Flores R.R. Siding, 1933

Sheet 11869

Stuart, Railroad Siding, Red Water Tank, 1933

Sheet 11870

FLAGPOLE, 1933 Oceanside Beacon, 1932
KEYS, 1933 VOR Oceanside OCN, 1956
Oceanside, Municipal Pier, Flagpole, 1933
Oceanside, Oil Derrick, 1933 SIDE, 1933

Sheet 11871

Carlsbad, Twin Inns, Rooster on Pedestal, 1933
SALTO 2, 1939 Water Tank, 1½ Mi. East of Carlsbad, 1933

Sheet 11872

Airway Beacon No. 2, 1933 HART, 1933
Flagstaff, ½ Mile, North of Station POST, 1933

Sheet 11873

Cardiff Tank, 1932 WATER, 1932
CARDIFF, 1933 Cardiff Beacon, 1932
LEUCADIA, 1887 SANTA FE, 1933
Encinitas, Public School, Bldg., Belfry, 1933

Sheet 11874

SLOUGH, 1933
Del Mar, Pier, Pole at End, 1933
Solano Beach, House Ventilator, 1933

Sheet 11875

None

Sheet 11876

JOLLA, 1933
LADRILLO, 1933
MOSS, 1887
WASH, 1887
KNOLL, 1887
KNOLL 2, 1951
NIRA, 1933
SOLEDAD AZIMUTH MARK RESET, 1954-1955

Sheet 11877

BACK BAY, 1887
VOR, San Diego Radio, SDA, 1956
FOUR SQUARE DOME, 1933
North San Diego, Morena Air Beacon, 1933
San Diego, Army and Navy Academy, Flagpole, 1933
San Diego, Mission Beach, Casino Dome, Flagpole, 1933
San Diego, Mission Beach, Crystal Pier, North Dome, 1933
San Diego, Silvergate Speedway, Flagpole, 1933
Mission Bay, Oil Derrick, 1933
TECOLATE, 1933

(f) The quality of identification for each station is stated on the control station identification cards. None of the identification was considered substandard.

4. Vertical Control:

Requirements for the control was the recovery and identification of tidal bench marks only. All tidal bench marks in the project area were searched for and the disposition of each mark is indicated on its respective form 685A, "Recovery Note, Bench Mark". A tidal bench mark, representative of each group of bench marks, was identified.

When attempting to use the trigonometric elevation of triangulation station SOLEDAD, 1887, to determine the elevations of two nearby landmarks for charts, a descrepancy of 30 feet in elevation was noted, as published on page 11, Volume I, California, Geographic Positions, revised 7/58 and the printed elevations that appear on a U.S.G.S. topographic map and Coast and Geodetic Survey Chart 5101. In the course of triangulation observations to locate supplemental stations, reciprocal vertical angles were measured between station SOLEDAD and stations BALL, 1887; VIEW, 1933 and COASTER, 1933. The last three stations are also bench

marks. Field computations indicate the published elevation that appears on the list of geographic positions is in error by about 30 feet.

In sheet T-11870, station TULEY, 1961, was established to afford more favorable angles for the location of supplemental intersection stations (aids to navigation). A new azimuth mark was occupied and the geographic position of the mark was determined. Several other stations were located by short traverse from nearby triangulation stations.

5. Contours and Drainage:

Contours are not applicable.

There are no perennial drains. Several intermittent drains have been indicated on the photographs. Attention is called to the mouths of these intermittent drains where the streams empty into the ocean. During the dry season, apparently due to wave action, a sand berm is formed at the stream mouths sealing off the stream bed and making the shoreline continuous along the general configuration of the beach, as if no stream existed. During the wet season the streams cut through the berm forming a natural outlet to the ocean. When the flow of the stream ceases the sand berm returns again.

6. Woodland Cover:

Native vegetation is sparse. Low brush is found on the hill slopes and in the courses of the intermittent drainage. Some eucalyptus trees may be found along the edges of cultivated fields which form wind breaks. A unique specie of pine is found at The Torrey Pines State Park.

7. Shoreline and Alongshore Features:

The entire shoreline was inspected by field personnel who walked or drove along the beach.

(a) The mean high water line was determined at the time of field inspection by measurements to identifiable picture points and by its relative position to natural objects like bluffs, rocks etc. In certain areas along the sandy beaches, the mean high water line as located by the field party will not coincide with the apparent mean high water line that appears on the photographs due to the displacement of this feature by the natural erosion and accretion of the unstable sand beaches.

(b) The low water line was not delineated.

(c) The character of the foreshore has been indicated on the field photography. The rocky irregular ledges have been indicated.

(d) Bluffs and cliffs are characteristic of most of the shoreline. These have been indicated on the photographs.

(e) Pleasure piers are found at Capistrano Beach, San Clemente, Oceanside and Pacific Beach. A small boat basin is found north of Oceanside at U. S. Marine Corps, Camp Del Mar. At Mission Bay, in the city of San Diego, various small craft facilities are found for pleasure and sport fishing craft.

(f) Two submarine cables were indicated on the field photographs in the Mission Bay area. One of the cables extends from Crown Point eastward to the VORTAC on a small island in upper Mission Bay. This cable is a new feature which has not been previously charted. Both submarine cables have been indicated on field photograph 60 S 501A.

(g) Other shoreline features consist of a small boulder groin and a boulder jetty recently completed at the Oceanside Harbor. A small craft basin is under construction at the north limits of the city of Oceanside and it is known as the Oceanside Harbor. There is a boulder breakwater protecting the entrance to the Camp Del Mar Boat Basin. Small boat launching ramps are at Mission Bay and at La Jolla is found the University of California, Scripps Institution of Oceanography. Dredging operations are in progress at Mission Bay and at the Oceanside Harbor. A plan of the Oceanside Harbor is submitted with this report.

8. Offshore Features:

Offshore rocks were indicated on the field photographs. Their respective heights were determined by hand leveling and referenced to the water level at the time of observation. Positions by planetable intersection were determined for several offshore rocks whose images were not visible on the photography.

Kelp was observed offshore but was not identifiable on the photographs. And offshore tower maintained by U. S. Navy was indicated on photographs 60 S 473A.

9. Landmarks and Aids:

(a) All charted landmarks were investigated. Twenty landmarks were recommended to be adopted or retained for charting. Seven charted landmarks were recommended for deletion. The landmarks selected were either located by triangulation or photogrammetric methods. All landmarks were listed on Form 567, "Landmarks for Charts".

(b) No interior landmarks were selected.

(c) Five aeronautical aids were located. VORTAC Oceanside, Oceanside Airway Beacon, and Mission Bay VORTAC were located by triangulation and have been listed on Form 567. A fan marker was identified on photograph 60 S 490A and a radio beacon on photograph 60 S 526A as Oceanside Airway Beacon, 1961. See reverse side of control station identification card, as one end of the radio antenna is anchored to the tower supporting the beacon.

(d) All fixed aids to navigation were located by triangulation observations and were identified on the field photographs where their images were visible. The following is a list of the aids so located:

Camp Del Mar, Outer Breakwater, Light 1
Camp Del Mar, Inner Breakwater, Light 6
Camp Del Mar, North Groin Light 9
Camp Del Mar, South Groin Light 10
Oceanside Harbor Entrance, South Jetty Light 2
Oceanside Harbor, Turning Basin Light
San Diego, Mission Bay, North Jetty Light
San Diego, Mission Bay, South Jetty Light
San Diego, U.S.N. Electronic Laboratory, Tower, N.W. Light
San Diego, U.S.N. Electronic Laboratory, Tower, S.E. Light

Oceanside Harbor, South Jetty Light 2 and Oceanside Harbor, Turning Basin Light were constructed during the spring of 1962. The lights are not expected to be operating until about 1 July 1962. They are on sheet T-11870. All fixed aids to navigation have been listed on Form 567.

(e) Floating aids are not applicable.

10. Boundaries, Monuments and Lines:

The only county boundary involved is the Orange - San Diego County line. This is also the west boundary of the U. S. Marine Corps, Camp Pendleton, Naval Reservation and the east limits of the city of San Clemente. The line is found on sheet T-11866. Points on the boundary are listed below. The positions of the points are California, Lambert Zone VI coordinates. Commencing with the southernmost point and progressing northward:

Witness Corner Monument	X = 1,589,471.28	T-11866
	Y = 447,157.60	
Intersection of U. S. Hwy. 101 Right-of-Way, East Side	1,590,219.78	T-11866
	450,342.09	

Station 170 / 08.71	1,591,156.88	
	454,328.71	
Corner	1,595,048.80	
	470,887.25	

These positions were furnished by the Public Works Office, U. S. Marine Corps, Camp Pendleton Base. Connecting these positions with straight lines will delineate the boundary. See the U.S.G.S. topographic map "San Clemente" quadrangle for the general configuration of the boundary.

The corporate limits of the cities of San Clemente, Oceanside, Carlsbad and San Diego are indicated on maps furnished by these cities and are listed under Item 14.

11. Other Control:

No other control was established by the field party. The establishment of topographic or photo-hydro stations was not required by the project instructions.

12. Other Interior Features:

Roads were classified in accordance with Photogrammetric Instruction 56, dated 1 July 1958. Occasional street names were indicated on the field photographs. County road maps and city street maps were obtained and are included to provide any additional street or road names desired for compilation. Public buildings and buildings of landmark value have been indicated on the field photography. A race track is found at Del Mar. There are no active airports or landing fields in the area. An abandoned airport is found north of the city of Del Mar.

There are no navigable rivers in the project. The only other navigable waters in the area other than the Pacific Ocean is Mission Bay in which numerous pleasure craft operate.

13. Geographic Names:

Geographic Names is the subject of a separate report.

14. Special Reports and Supplemental Data:

(a) Plan of Oceanside Harbor (2 sheets)

(b) Plan of Camp Del Mar (East boundary of Camp Pendleton and new streets in Camp Del Mar by the Public Works Office, Camp Pendleton (4 sheets)). Note: Camp Del Mar is a portion of Camp Pendleton Base.

(c) Maps of state parks (10 sheets)

(d) Maps of parks in the city of San Diego (7 sheets)

(e) Maps of the north city limits of the city of San Diego (3 sheets).

(f) Maps of the cities of Oceanside and Carlsbad (3 sheets).

(g) Map of the (new) Buena Vista Elementary School (1 sheet).

(h) Map of San Diego County (book) by Thomas Bros. (1 copy).

(i) Map of city of San Clemente (3 sheets)

15. Additional Data:

Location of OMNI Range, Mission Bay, California

As per instructions dated 29 December 1961, the location of the San Diego, Mission Bay VORTAC was located by triangulation methods. Since the field work was combined with the location of other aids to navigation, the field data is being forwarded with this project's field data to the Portland Photogrammetric Unit.

Approved:

Fred Natella, CAPT, C&GS
Portland District Officer

Respectfully submitted:

Robert B. Melby
Surveying Technician, C&GS

PHOTOGRAMMETRIC PLOT REPORT NO. I
PH-6011
Dana Point, Calif. to Mexican Border

April 1963

21. Area Covered

This report covers that portion of the project from Dana Point to Point Loma for 1:10,000 shoreline surveys T-11864 thru T-11878.

22. Method

Four strips were bridged, Nos. 1 thru 4. Strip No. 1 was run with the Zeiss Stereoplanigraph (C-8). The remaining three were bridged and adjusted by the method of analytic aerotriangulation. Closures to control are indicated on the aerotriangulation sketch, attached. Ties between strips weressatisfactory. These were averaged and corrections were made to the IBM readouts.

23. Adequacy of Control

Horizontal control complied with project instructions and was adequate. The following control stations appearing in the bridge deserve special comment:

SAN DIEGO YACHT CLUB FLAGPOLE, 1933

Two substitute stations were established for this station (Strip No. 4). The bridging results indicated an error of approximately minus 95 feet in X and plus 65 feet in Y. Since the strip was well-controlled and the error so large, we concluded that there must be an error in position. The positions of the sub-points were rejected.

SAN DIEGO, U. S. NAVAL TRAINING STATION FLAGPOLE, 1933

The direct pricking for this station was used as a control in the adjustment. The comparison point, sub-point "A", checked poorly in the bridge (Strip No. 4). An evaluation of the point, at the time of drilling considered this point as indefinite. It should not be favored when the Kelsh models are set for compilation.

In addition to field-identified control, the following stations were office-identified and held well:

CARLSBAD, TWIN INNS, ROOSTER ON PEDESTAL, 1933
OCEANSIDE, ROSICURCIAN BUILDING DOME, FINAL, 1933
POINT LOMA, FT. ROSECRANS, WATER TANK, 1956

Bridging results comply with National Standards of Map Accuracy for a scale of 1:10,000.

24. Supplemental Data

None

25. Photography

Photography was adequate with regard to coverage, overlap, and definition.

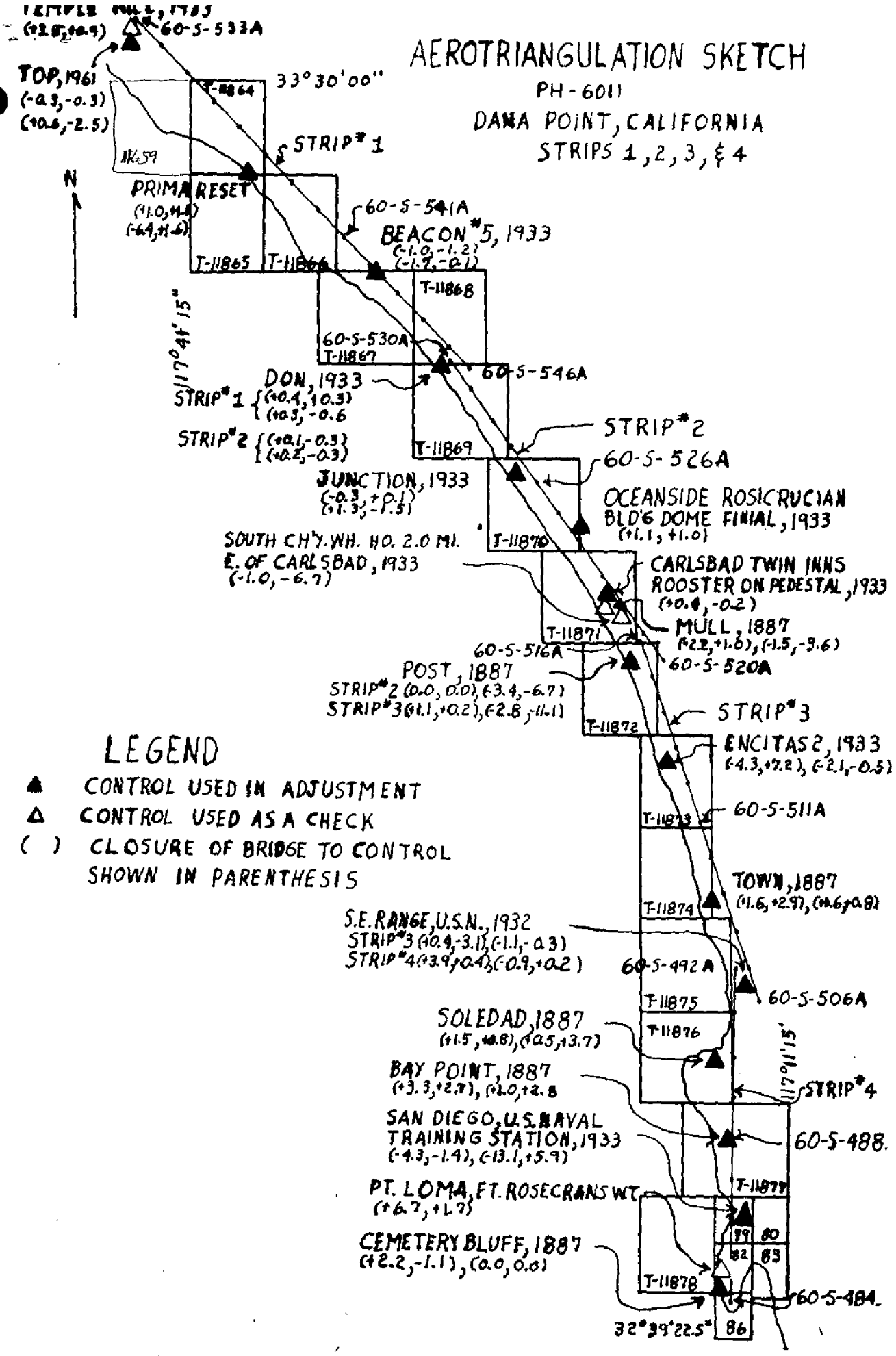
Respectfully submitted:

Henry P. Eichert

Approved by:

Everett H. Ramey

Everett H. Ramey, Chief
Aerotriangulation Section


AEROTRIANGULATION SKETCH
PH-6011
DANA POINT, CALIFORNIA
STRIPS 1, 2, 3, & 4
TEMPLE MILL, 1933
(+2.8, +0.9)
60-5-533A
TOP, 1961
(-0.3, -0.3)
(+0.6, -2.5)
33°30'00"
T-11864
STRIP* 1
11659
N
PRIMA RESET
(+1.0, +1.6)
(-6.4, +1.6)
60-5-541A
BEACON* 5, 1933
(-1.0, -1.2)
(-1.9, -0.1)
T-11865
T-11866
T-11868
60-5-530A
T-11867
117°44'15"
DON, 1933
STRIP* 1 {(+0.4, +0.3)
(+0.3, -0.6
STRIP* 2 {(+0.1, -0.3)
(+0.2, -0.3)
60-5-546A
STRIP* 2
T-11869
60-5-526A
JUNCTION, 1933
(-0.3, +0.1)
(+1.3, -1.5)
OCEANSIDE ROSICRUCIAN
BLD'G DOME FINIAL, 1933
(+1.1, +1.0)
SOUTH CH'Y. WH. NO. 2.0 MI.
E. OF CARLSBAD, 1933
(-1.0, -6.7)
T-11870
CARLSBAD TWIN INNS
ROOSTER ON PEDESTAL, 1933
(+0.4, -0.2)
MULL, 1887
(+2.2, +1.6), (-1.5, -3.6)
T-11871
60-5-516A
60-5-520A
POST, 1887
STRIP* 2 (0.0, 0.0), (-3.4, -6.7)
STRIP* 3 (+1.1, +0.2), (-2.8, -11.1)
STRIP* 3
T-11872
ENCINITAS 2, 1933
(-4.3, +7.2), (-2.1, -0.5)
60-5-511A
T-11873
TOWN, 1887
(+1.6, +2.9), (+4.6, +0.8)
T-11874
S.E. RANGE, U.S.N., 1932
STRIP* 3 (+0.4, -3.1), (-1.1, -0.3)
STRIP* 4 (+3.9, +0.4), (-0.9, +0.2)
60-5-492A
60-5-506A
T-11875
SOLEDAD, 1887
(+1.5, +0.8), (+0.5, +3.7)
T-11876
117°41'15"
BAY POINT, 1887
(+3.3, +2.7), (+1.0, +2.8
STRIP* 4
SAN DIEGO, U.S. NAVAL
TRAINING STATION, 1933
(-4.3, -1.4), (-13.1, +5.9)
60-5-488.
T-11877
PT. LOMA, FT. ROSECRANS WT
(+6.7, +1.7)
79
80
82
83
CEMETERY BLUFF, 1887
(+2.2, -1.1), (0.0, 0.0)
T-11878
60-5-484.
32°39'22.5"
86
LEGEND
▲ CONTROL USED IN ADJUSTMENT
△ CONTROL USED AS A CHECK
( ) CLOSURE OF BRIDGE TO CONTROL SHOWN IN PARENTHESIS

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
TROL RECORD

MAP T- 11864 PROJECT NO. 21033 SCALE OF MAP 1:10,000 SCALE FACTOR VI

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
DANA PT, DANA VILLA AUTO CAMP, TOWER 1933	P-94		475,334. 1,561,878.				
DANA PT, RICHFIELD TOWER, 1932	P-94		475,209.56 1,562,660.48				
DOHENEY, 1933	P-91		473,500.67 1,566,165.45				
DOHENEY PALISADES, JUST BELOW FORESTER, RESERVOIR FINIAN, 1933	P-94		474,770.59 1,571,755.78				
DOHENEY PIER, CENTER LIGHT POLE 1933	P-94		471,065.73 1,566,624.79				
FORSTER, 1884	P-90		475,821.17 1,573,527.10				
HIGHER OF TWO BLACK WATER TANKS EAST OF DANA POINT, 1933	P-94		476,157.47 1,564,156.59				
PRIMA RESET, 1961	OFFICE COMP.		467,684.93 1,573,575.14				
WATER TANK ON HILL SO. OF SAN JUAN CAPISTRANO, 1933	P-94		483,841.32 1,570,670.03				
WIDOWS HILL, 1884	P-90		477,964.21 1,568,231.01				

18.

1 FT. = .3048006 METER

COMPUTED BY: R.H.M. DATE 4-17-63 CHECKED BY: D.N.W. DATE 4-17-63

COMM-DC-57843

COMPILATION REPORT

MAP MANUSCRIPT T-11864

PROJECT 21033

31. DELINEATION:

PLANIMETRY WAS COMPILED BY THE KELSH INSTRUMENT AND DRAFTED ON THE MANUSCRIPTS IN ACCORDANCE WITH METHOD 3.

AS THE RULED MANUSCRIPTS DID NOT PROVIDE SUFFICIENT SPACE FOR THE PLACEMENT OF MARGINAL DATA, CRONARFLEX PRINTS OF THE INKED COMPILATIONS WERE MADE. AN OVERLAY WAS PREPARED IN PENCIL SHOWING EXTENT AND LIMITS OF STICK-UP AND TYPE PLACEMENT. THIS OVERLAY, PLACED UNDER THE CRONARFLEX COPY OF THE INKED DETAIL AND WITH GRID TICKS MATCHED, WAS USED AS A GUIDE IN APPLYING THE STICK-UP.

32. CONTROL: S

ADEQUATE SUPPLEMENTARY CONTROL WAS ESTABLISHED BY BRIDGING WITH THE ZEISS STEREOPLANIGRAPH BASED ON IDENTIFIED HORIZONTAL CONTROL.

33. SUPPLEMENTAL DATA:

MAP OF DOHENY BEACH STATE PARK
MAP OF CITY OF SAN CLEMENTE

34. CONTOURS AND DRAINAGE:

CONTOURS ARE NOT APPLICABLE.

THE INTERMITTENT DRAINAGE SHOWN WAS COMPILED FROM FIELD INSPECTION AND FROM STEREOSCOPIC EXAMINATION OF THE PHOTOGRAPHY. THIS IS IN GOOD AGREEMENT WITH THE U.S.G.S. QUADRANGLE OF THE AREA.

35. SHORELINE AND ALONGSHORE DETAILS:

DATA FURNISHED BY THE FIELD PARTY WAS ADEQUATE FOR THE COMPILATION OF THE MEAN HIGH WATER LINE AND ALONGSHORE FEATURES. NO LOW WATER LINE WAS FIELD INSPECTED OR COMPILED.

36. OFFSHORE DETAILS:

THE SINGLE OFFSHORE ROCK, SHOWN ON THIS MAP, WAS LOCATED BY THE FIELD UNIT AND ITS HEIGHT DETERMINED FOR THE TIME OF OBSERVATION. THIS ELEVATION WAS ADJUSTED TO THE MANUSCRIPT DATUM.

37. LANDMARKS AND AIDS:

TWO LANDMARKS ARE SHOWN ON THIS MAP. FORM 567 IS SUBMITTED.

38. CONTROLS FOR FUTURE SURVEYS:

NONE.

39. JUNCTIONS:

SATISFACTORY JUNCTIONS WERE MADE WITH T-11659 TO THE WEST AND WITH T-11865 TO THE SOUTH. THERE ARE NO CONTEMPORARY SURVEYS TO THE NORTH OR EAST.

40. HORIZONTAL AND VERTICAL ACCURACY:

46. COMPARISON WITH EXISTING MAPS:

COMPARISON WAS MADE WITH THE U.S.G.S. 7½ MINUTE, DANA POINT, CALIFORNIA QUADRANGLE, SCALE 1:24,000, EDITION 1948.

47. COMPARISON WITH NAUTICAL CHARTS:

COMPARISON WAS MADE WITH NAUTICAL CHART 5101, SCALE 1:234,270 AT LAT. 33°20', 5TH EDITION, JAN. 6, 1947, REVISED 5-18-59.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

NONE.

ITEMS TO BE CARRIED FORWARD:

NONE.

APPROVED:

Leo F. Bengnet

for FRED NATELLA, CAPT, C&GS
PORTLAND DISTRICT OFFICER

RESPECTFULLY SUBMITTED:

James L. Harris

JAMES L. HARRIS
CARTOGRAPHER

48. GEOGRAPHIC NAME LIST:

THE GEOGRAPHIC NAMES ON THIS MANUSCRIPT ARE LISTED BELOW AND WERE FURNISHED BY THE WASHINGTON OFFICE ON A FINAL NAME SHEET, A COPY OF THE U.S.G.S. DANA POINT, CALIFORNIA 7½ MINUTE QUADRANGLE, SCALE 1:24,000, EDITION 1948.

CAPISTRANO BEACH
DOHENY BEACH STATE PARK
FORSTER LAKE
GULF OF SANTA CATALINA
PACIFIC OCEAN
POCHE
PRIMA DESHECHA CANADA
SAN CLEMENTE
SAN JUAN CREEK
SERRA

Names checked + approved
8-5-65
A. J. Wright

49. NOTES FOR THE HYDROGRAPHER:

NONE.

C&GS FORM 1002
(11-13-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T-~~10263~~ 11864

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
✓	✓	✓	✓

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
✓	✓	None

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
None	None	✓	None

ALONGSHORE AREAS *(Nautical Chart Data)*

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
✓	None	✓	✓

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
None	✓	✓	✓

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER	22. PLANETABLE CONTOURS
✓	✓	Not Applicable

23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
Not Applicable	Not Applicable	None	✓

CULTURAL FEATURES

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

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
None	None

MISCELLANEOUS

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

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

40. REVIEWER	SUPERVISOR, REVIEW SECTION OR UNIT
James L Harris	

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

USCOMM-DC 16252-P61

Review Report
Shoreline Maps
T-11864 through T-11869
July 1965

61. General Statement

Area - The project encompasses the California Coast from Dana Point to Mexico.

Purpose - The purpose of this project is to provide shoreline and harbor maps for our nautical and aeronautical charting programs.

62. Comparison with Registered Topographic Surveys

T-5413	1:10,000	1934
T-5414	1:10,000	1934
T-5415	1:10,000	1934
T-5416	1:10,000	1934
T-5417	1:10,000	1934

There are cultural and shoreline differences due to the time interval.

63. Comparison with Maps of Other Agencies

Las Pulgas Canyon	1:24,000	1948
San Onofre Bluff	1:24,000	1949
San Clemente	1:24,000	1948
Dana Point	1:24,000	1948

Considering the time interval, the maps are in comparitively close agreement.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

5101	1:234,270	April 1965

Because of the scale differences no true comparison can be made.

66. Adequacy of Results and Future Surveys

These surveys were prepared according to project instructions and comply with the National Standards of Map Accuracy.

Reviewed by:

L. C. Lande
L. C. Lande

Approved by:

Charles Lemmon
Chief, Photogrammetric Branch

J E Vaughn 9/15/65
Chief, Photogrammetry Division

Chief, Nautical Chart Division

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

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. ~~H~~ T-11864

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
5101	8/2/67	John P. Weir	~~Full~~ Part ~~Before~~ After Verification Review Inspection Signed Via Drawing No. Examined, no critical correction
			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.
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