11879

Diag.

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-11879

LOCALITY

State CALIFORNIA

General locality SAN DIEGO

Locality SHELTER ISLAND

1960 - 1963

CHIEF OF PARTY

FRED NATELLA, CHIEF OF PARTY

P. A. STARK, PHOTOGRAMMETRIC OFFICE

LIBRARY & ARCHIVES

DATE

USCOMM-DC 5087

11879

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

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T - 11879

PROJECT NO. (II):

21033

FIELD OFFICE (II):

OCEANSIDE, CALIFORNIA

CHIEF OF PARTY

FRED NATELLA

PHOTOGRAMMETRIC OFFICE (III):

PORTLAND, OREGON

OFFICER-IN-CHARGE

P. A. STARK

INSTRUCTIONS DATED (II) (III):

DECEMBER 20, 1960	II, III
AMENDMENT 1, AUGUST 31, 1961	II, III
AMENDMENT 1, APRIL 25, 1963	III
AMENDMENT 2, OCTOBER 1, 1963	III

METHOD OF COMPILATION (III):

KELSH INSTRUMENT

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:6000 & 1:7000

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:

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):

ROCKWELL, 1933

LAT.:

32° 42' 48.629

LONG.:

117° 11' 47.359"

[X] ADJUSTED
[ ] UNADJUSTED

PLANE COORDINATES (IV):

Y = 194,978.70 x = 1,701,133.60

STATE

CALIFORNIA

ZONE

6

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): R. B. MELBY	DATE: MARCH TO MAY 1962 OCT. 1962 - APR. 1963
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): FIELD INSPECTION APRIL, MAY 1962 AND JAN, FEB. 1963 COMPILATION BY KELSH INSTRUMENT	
PROJECTION AND GRIDS RULED BY (IV): A. ROUNDTREE	DATE 10-15-63
PROJECTION AND GRIDS CHECKED BY (IV): R. KORNSPAN	DATE 10-16-63
CONTROL PLOTTED BY (III): J. L. HARRIS	DATE 6-23-64
CONTROL CHECKED BY (III): R. H. MEYER	DATE 6-23-64
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): H. P. EICHERT	DATE JUNE. 1964
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY D. N. WILLIAMS	DATE 8-21-64
CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III):	DATE
SCRIBING BY (III): SCRIBING: L. L. GRAVES STICK-UP: L. L. GRAVES	DATE 9-23-64 10-30-64
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): ROUGH DRAFT: C. H. BISHOP ADVANCE: C. C. HARRIS	DATE 9-1-64 11-20-64
REMARKS:	

USCOMM-DC 16276B-P61

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 TYPE S

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 S 485A THRU 487A	9-2-60	10:00	1:30,000	2.9' ABOVE M.L.L.W.
RATIO PRINTS OF ABOVE		AT 1:10,000		
60 S 594A THRU 601A	9-2-60	11:41	1:10,000	1.8' " "
626A THRU 629A	"	11:58	"	1.7' " "
661A AND 662A	"	12:11	"	1.6' " "
674A THRU 676A	"	12:15	"	1.6' " "
681A THRU 684A	"	12:25	"	1.5' " "
RATIO PRINTS OF ABOVE		AT 1:5000		
60 S 738A AND 739A	9-3-60	10:00	1:38,000	4.0' " "

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	DIURNAL ~~SPRING~~ RANGE
REFERENCE STATION: SAN DIEGO, CALIFORNIA		4.2	5.8
SUBORDINATE STATION:			
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):	DATE:
PROOF EDIT BY (IV):	DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 69	RECOVERED: 29	IDENTIFIED: 13
NUMBER OF BM(S) SEARCHED FOR (II): SEE FIELD INSPECTION REPORT	RECOVERED:	IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 35

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

REMARKS:

FIELD INSPECTION REPORT

Project PH ~~6011~~ 2103

Map Manuscripts T-11878, T-11879

T-11879 881

T-~~11880, T-11882~~ and T-~~11886~~

March 1962 - May 1962

2. Areal Field Inspection:

The area contained in this report is found in the northwest section of the City of San Diego, common to the Point Loma area. The area is mostly urban and military reservations.

A continuous bluff is adjacent to the shoreline along the west slope of Point Loma. It continues around the south tip of the point and northward along the east shore of Point Loma to Ballast Point.

The area of this report does not cover the small portion of the west shore of North Island that is within the limits of sheets T-11882 and T-11886.

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

U.S. Highway 101 and various secondary highways and streets are found in the area.

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

3. Horizontal Control:

(a) No supplemental control was established by the field unit.

(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 for which positions and descriptions are available were searched for.

Station San Diego, U.S. Naval Training Station Flagpole, 1933, was reported lost. The base of the flagpole still remains and the center of the stub of the flagpole was occupied and identified for horizontal control.

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

Sheet 11878

Newport Ave East, 1934

Sheet 11879

Potash Works, Stack, 1916

Roseville Portola Sardine Factory, Stack, 1933

Theosophical Dome, 1908

Sheet 11880

San Diego Bay, Beacon #5, 1933
San Diego Bay, Beacon #7, 1933
San Diego, U.S. Naval Training Station, Flagpole, 1933

Sheet 11882

Point Loma, East Radio Mast, 1913
Point Loma, Ferry Pavilion, Flagpole, 1916
Point Loma, U.S.N. East Radio Mast, 1933
Point Loma, U.S.N. Radio Station, Water Tank, 1922
Point Loma, U.S.N. West Radio Mast, 1933
Point Loma, West Radio Mast, 1913
POLE, 1899
QUARANTINE, 1899
Quarantine Light, 1933
San Diego Bay, Beacon #1, 1933
San Diego Bay, Beacon #2, 1933
San Diego Bay, Beacon #3, 1933
San Diego Bay, Beacon #4, 1933
San Diego Bay, Front Range, 1917
San Diego Bay, Front Range, 1934
San Diego Bay, Rear Range, 1934
San Diego, U.S. Quarantine Station, Flagpole, 1933
U.S.N. Traverse Monument, 1933

Sheet 11886

Ballast Point Lighthouse, 1899
Pt. Loma, Old Lighthouse, East Radio Tower, 1913
Pt. Loma, Old Lighthouse, West Radio Tower, 1913

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

(g) Some of the plans of other agencies, submitted with this report are based on a local coordinate grid system known an the "OLD TOWN" Coordinate System. It is based on C&GS station OLDTOWN, 1852. Caution should be exercised during conversion to the California Lambert Zone 6 coordinates as OLD TOWN has two positions, one by the Coast and Geodetic Survey and one by the Corps of Engineers. A sheet furnished by the City of San Diego Harbor Department shows the relationship of the two positions, and the conversion factors. Computations can be made as follows: Using the OLD TOWN coordinate values (C&GS) of North 1.11 feet and East 0.51 feet compute inverse to the desired station on OLD TOWN Coordinates. Then to convert to California Lambert Zone 6 Coordinates multiply the OLD TOWN Coordinates computed lengths by 1.000009675 and add 0° 30' 51" to the Old Town plain azimuths. With these new values compute desired station from station OLD TOWN, on the Lambert Zone 6 Coordinates. The result of the conversion is not exact, but should be accurate enough for plotting boundaries, shoreline etc. It will be plus or minus 1 foot in horizontal position.

4. Vertical Control:

All tidal bench marks were searched for and the disposition of each mark has been indicated on its respective form 685A, Recovery Note, Bench Mark.

A tidal bench mark, representative of each group of bench marks, was identified.

(a) The following list of bench marks were recovered and were used as the basic control for the establishment of vertical photo points, necessary for Kelsh plotter model points.

Bench Mark	Order of Accuracy	Establishing Agency
ASTRO RESET	First Order	C.& G.S.
ASTRO R.M. 1	First Order	C.& G.S.
ASTRO R.M. 2	First Order	C.& G.S.
J 722	First Order	C.& G.S.
L 57	First Order	C.& G.S.
M 722	First Order	C.& G.S.

P 722	First Order	C.& G.S.
TIDAL 17 RESET	First Order	C.& G.S.
V 734	First Order	C.& G.S.
V 734 RESET	Third Order	C.& G.S.
VV 735	First Order	C.& G.S.
WW 735	First Order	C.& G.S.
XX 735	First Order	C.& G.S.
YY 735	First Order	C.& G.S.

Bench Mark V 734 RESET was established by the field unit at the request of an employee of the U.S. Coast Guard. Construction at the U.S. Coast Guard, Ballast Point Light Station would have destroyed bench mark V 734. Bench mark V 734 RESET replaces this mark.

Bench mark H 60 U.S.G.S. was recovered and used solely to determine the elevation of a landmark.

No datum adjustments were made by the field party. All bench marks indicated on the special project diagram for vertical control were searched for.

(b) All vertical photo points, necessary for Kelsh plotter model points as indicated on the field photographs by the Portland Photogrammetric Office, were determined by spirit leveling using the Zeiss Opton level and the Philadelphia level rod. As all level lines closed within the tolerances required for the location of the vertical photo points, no adjustments were made.

(c) The following are the first and last level points established in each of the quadrangles:

Quadrangle	First Level Point	Last Level Point
T-11877	VP 77-01	VP 77-01
T-11878	VP 78-01	VP 78-01
T-11879	VP 79-01	VP 79-05
T-11880	VP 80-01	VP 80-13
T-11882	VP 82-01	VP 82-11
T-11886	VP 86-01	VP 86-07

(d) All vertical control points as required were established.

5. Contours and Drainage:

No contouring was performed in the field except for showing the 5 foot contour on a recent shoreline fill area. This is located in Manuscript T-11882 and delineated on field photograph 60 S 630A. Planetable methods were employed. Several shoreline land fill features have been constructed or are under construction since the date of photography. Plans executed by the

respective agencies who are responsible for the construction work, are submitted with this report. Horizontal and vertical data is shown on the plans and can be transferred to the manuscripts. These features will be considered individually under Item 7 "Shoreline and Alongshore Features".

There are no perennial drains. The only intermittent drainage is the normal runoff of surface rain water. It is suggested that the compiler refer to the U.S.G.S. quads and any intermittent drainage that is deemed important can be delineated during the Kelsh compilation.

6. Woodland Cover:

There are few trees in the area. In the less developed area of Point Loma low brush (scrub) can be found on the slopes. The scrub has been indicated on the field photographs.

7. Shoreline and Alongshore Features:

The entire shoreline was inspected by field personnel who walked or utilized a small skiff.

(a) The mean high water line was determined on the field photographs by its relative position to identifiable photo point images.

(b) The low water line was not delineated.

(c) The character of the foreshore has been indicated. The approximate offshore limits of the numerous submerged rocky ledges along the west shore of Point Loma have also been indicated. Imagew of portions of the inshore areas of these ledges appear on the photography.

(d) Bluffs and cliffs are characteristic of the shoreline along the west, south and southwest shore of Point Loma.

(e) Docks, Wharves and piers have been indicated on the field photographs. Boat slips and floats have also been indicated.

(f) Submarine cable ends have been indicated on the field photography. An area around a 'dog leg' pier showing the extent of submarine cables for the degaussing of small ships has been indicated on field photograph 60 S 629A.

A new submarine pipeline exteads seaward from the new Saline Water Conversion Plant. See photograph 60 S 632A and Plans of Saline Water Conversion Plant for details and alignment of submarine pipeline.

(g) A new nuclear submarine pier is under construction near Ballast Point. See Plans of Nuclear Submarine Pier and photograph 60 S 630A for details. A land fill is underway at the northeast end of Shelter Island to form a parking area, and changing the shoreline. See plans of Shelter Island Proposed Improvements for location of new shoreline and a new pier at the northern tip of Shelter Island. See also photograph 60 S 598A.

A new pier and submarine pipeline is to be constructed seaward from the new sewage treatment plant on Point Loma. (See photo 60 S 630A). The pier is tentatively a temporary structure but may become a permanent feature if the California State Fish and Game Department acquires the pier. It is suggested the field inspector investigate these features later in this year if possible and determine their permanency, and submit necessary data to the Portland Photogrammetric Office.

8. Offshore Features:

Offshore rocks were indicated on the field photographs. Their respective heights were determined and referenced to the water surface level at the time of observation.

Kelp was observed offshore, but was not identifiable on the photographs. Where kelp was prominent alongshore, its general location was noted on the field photographs.

Offshore piles and dolphins were indicated.

9. Landmarks and Aids:

(a) All charted landmarks were investigated. Eight landmarks were recommended to be adopted or retained for charting.

All landmarks were listed on Form 567 (Landmarks for Charts).

(b) No interior landmarks were selected.

(c) One aeronautical aid was located. San Diego - Lindberg Field TVOR was located by photogrammetric methods on photograph 60 S 675A.

(d) All fixed aids to navigation were located and have been listed on Form 567.

An employee of the U.S. Coast Guard states, "Ballast Point Light is expected to be moved in the fall of 1962 to a permanent structure." It is recommended the field inspector investigate this aid after it has been moved and determine its new position.

The images of the daybeacons located in the Commercial Basin were not visible on the photography. Photo-points were identified on photograph 60 S 598A, then the daybeacons were located by sextant fixes using the photo-points for sextant fix objects.

(e) Floating aids are not applicable.

10. Boundaries, Monuments and Lines:

The area of this report is within San Diego County. Maps by various other agencies are submitted with this report to permit the delineation of the boundaries of the following areas:

U. S. Marine Recruit Depot
U. S. Naval Training Center
U. S. Naval Reservation (On Point Loma)
U. S. Coast Guard, Ballast Point Light Station
U. S. Coast Guard, Point Loma Light Station
Cabrillo National Monument
Saline Water Conversion Plant (Dept. of the Interior)

The corporate limits of the city of San Diego on Point Loma share a common boundary with the U. S. Naval Reservation.

The limits of the Fort Rosecrans National Cemetary have been indicated on photograph 60 S 629A.

11. Other Control:

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

12. Other Interior Features:

Public buildings have been indicated on the field photographs. Street maps, previously furnished to the Portland Photogrammetric Office, can supply names of streets if desired.

California Western University appears on photograph 60 S 485A. See plans of university for additional buildings erected since the date of photography.

A portion of the City of San Diego Municipal Airport (Lindberg Field) is located on sheet T-11880. Government reservations are listed under Item 10, Boundaries, Monuments and Lines.

The only navigable waters in the project area is the Pacific Ocean and its bays and harbors.

13. Geographic Names:

Geographic Names is the subject of a separate report.

14. Special Report and Supplemental Data:

(a) Plans of Sewage Treatment Plant (2 sheets)
(b) Plans of Harbor Island (1 sheet)
(c) Plans of Shelter Island Improvements (3 sheets)
(d) Plans of California Western University (1 sheet)
(e) Map of U.S. Naval Training Center (1 sheet)
(f) Map of U.S. Marine Corps Recruit Depot (1 sheet)
(g) Plans of Saline Water Conversion Plant (2 sheets)
(h) Plans of New Nuclear Submarine Pier (2 sheets)
(i) Plans of Rehabilitation of N.R.T.C. Pier (2 sheets)
(j) Plans of Cabrillo National Monument (1 sheet)
(k) U.S. Naval Reservation (Pt. Loma area) (6 sheets)
(l) Plane corrdinate values of station OLD TOWN, 1852 to permit conversion from OLD TOWN Coordinates to California, Lambert Zone 6 Coordinates (1 sheet)

Approved:

Fred Natella, CAPT, C&GS
Portland District Officer

Respectfully submitted:

Robert B. Melby
Surveying Technician, C&GS

FIELD INSPECTION REPORT

Project PH-6011 21033

Map Manuscripts T-~~11881~~ 11880, T-~~11882~~ T-11879 (Portion),
T-~~11883~~ 11879, T-~~11884~~ 11880, T-~~11885~~ 11880, T-~~11886~~ 11881 (Portion),
T-~~11887~~ 11882, T-~~11888~~ 11882, T-~~11889~~ 11883, T-~~11890~~ 11882, T-~~11891~~ 11883,

T-11892, and T-11893

October 1962- April 1963

2. Areal Field Inspection

The area contained in this report is common to San Diego Bay and southward to the United States-Mexico international border. The area is mostly urban and military reservations except for agriculture lands along the Tia Juana River.

This report also covers the portion of the northwest shore of North Island that had been omitted in field inspection report, Project Eh-6011 dated March 1962 - May 1963. This area is found in sheets T-11879 and T-11881.

The area is served by the Atchison, Topeka and Santa Fe Railway and the San Diego and Arizona Eastern Railway.

U.S. Highway 101 and various secondary highways and streets are found in the area.

The quality of the photography furnished the field unit was considered adequate for field inspection, shoreline inspection, and for the indentification of horizontal and vertical control.

3. Horizontal Control

(a) Supplemental control established by the field party consists of location of fixed aids to navigation and landmarks.

(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 for which positions and descriptions were avalable were searched for.

The following station were searched for and have been reported as lost or destroyed.

11880
Sheet ~~11881~~

EL CORTEZ, 1933 ~~1933~~ SAN DIEGO LATITUDE STATION, 1908

San Diego, St. Joseph's Catholic Church, Brick Tower, Cross, 1908

San Diego, Washington School, Flag Pole, 1933

Tile Company, Iron Stack, 1916

11879
Sheet ~~11882~~

BM 149 M (NAS), 1956 BM 204 M (NAS) , 1956

NAUTICAL SOUTH, 1956 NORTH ISLAND, FRONT RANGE LIGHT, 1933

WHALER, North Island, South Range Front Marker, 1956

11879
Sheet ~~11883~~

BEACON 10, 1916 MAGAZINE, 1934 MAGAZINE 213, 1934

North Island, Beach at Spanish Bight, Wooden Tower, 1933

North Island, Rockwell Field, Flagpole, 1933

North Island, Rockwell Field, North Radio Tower, 1933

North Island, Rockwell Field, South Radio Tower, 1933

North Island, U.S.N. Hangar, North End, Light Pole, 1933

San Diego Bay, Beacon # 6, 1933 San Diego Bay, Beacon # 8, 1933

San Diego, Aviation School, Open Steel Tower, 1916

SAN DIEGO, , WORLD LONGITUDE STATION, 1934

U.S.N. Torpedo Range No. 2 Beacon, 1934

11880
Sheet ~~11884~~

A STATION, 1939 BEACON 12, 1916 Coronado Tank, 1899

San Diego, Courthouse Statue, 1933 San Diego Private Aid, 1916

San Diego, 11th. Naval Dist. Bldg. West Tank, 1933

11880
Steet ~~11885~~

San Diego, Benson Lumber Co., Chimney, 1916

San Diego, Harbor Box and Lumber Co., Black Incinerator, 1933

San Diego Logan School, Spire, 1908

11880
Sheet ~~11885~~ continued

San Diego, Standard Oil Co., House on Stilts, 1933

San Diego, Standard Oil, Pier, Fixed Green Light, 1933

San Diego, Standard Oil Pier, Fixed Red Light, 1933

11882
Sheet ~~11887~~

Coronado Island, Tent City, Castellated Bldg. South Tower, 1933

Coronado, U.S.N. AAmphibious Base Lookout Tower, ecc., 1954

Entrance Range, Front, 1934 Entrance Range, Rear, 1934

Inner Range, Ecc., 1934 Inner Range Front, 1934

Inner Range Rear, ~~1~~934 Large Bush, Center, 1934

Middle Range, Front, 1934 Middle Range, Front Ecc., 1934

Middle Range, Rear, 1934 Middle Range, Rear Ecc., 1934

North Entrance Beacon No. 2, 1934 South Entrance Beacon No. 1, 1934

11882
Sheet ~~11888~~

Beacon 14, 1916 San Diego U.S. Destroyer Base Flagpole, 1933

11883
Sheet ~~11889~~

Beacon 16, 1917 30 B, 1934

National City, Dolphin at End of Pier, South of Destroyer Base, 1933

National City, Eighteenth and Highland, 1934

National City, Kelco Co., Iodine Plant, Silver Stack, 1933

National City Marine Gasoline Co., North Tank, 1933

National City, W.J. Bush Citrus Products Co., Stack, 1954

San Diego, Old Brewery Tower, Flagpole, 1916 32 A, 1934

11892
Sheet ~~11890~~

BEACH, 1954 , Black Spot, 1934 △ BRUSH DUNE, 1933 MARSH, 1916

Center 1 of 3 Poles, Near South Pylon 2, 1954

11682

Sheet ~~11890~~ continued

Coronado Heights, Shanty, 1921 Coronado Hotel, Incinerator Chimney, 1916

North Pylon 3 K.M., USN, 1933 77 B, 1934

74 B, 1934 SOUTH PYLON 2, 1954

11683

Sheet ~~11891~~

BEACON 18, 1917 Chula Vista, Cottonseed, Warehouse, Cupola, 1933

Chula Vista, Union Oil Co., Plant, Wind Indicator, 1933

Chula Vista, White Tipped Black Stack, 1933

House With Galvanized Iron Roof, North End Flagpole, 1916

San Diego, International Magnesite Co., Galvanized Iron Tower, Gable, 1916

San Diego Bay, North Range Marker, 1933 STRAWBERRY, 1934

Sheet 11892

Chula Vista, Salt Works, Motor Room, 1933 Concrete Floor, 1934

DUNE 2, Ecc., 1934 Coronado, Old Bottling Works, Gable, 1916

DUNE 3, 1954 Imperial Beach, North Radio Tower, U.S.N., 1933

Picture Point, 1934 Imperial Beach, South Radio Tower, U.S.N., 1933

RADIO, 1921 RADIO 2, 1933 CROSS, 1916 RANCH (U.S.E.), 1954

Salt Works, Flood Gates, Pole, 1916

San Diego Bay, Southwest Shore Silo, 1933

U.S.N. Torpedo Range, 1,000 Yard Mark, 1934

U.S.N. Torpedo Range, 3,000 Yard Mark, 1934

U.S.N. Torpedo Range, 4,000 Yard Mark, 1934

U.S.N. Torpedo Range, 6,000 Yard Mark, 1934

U.S.N. Torpedo Range, 8,000 Yard Mark, 1934

Sheet 11893

Cross Roads, 1934 New Derrick, 1934

Mouth of Canyon, North of Boundary Mon. # 257, Barn West Gable, Flagpole, 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

All tidal bench marks were searched for and the disposition of each mark has been indicated on its respective form 685 A, (Recovery Note, Bench Mark).

A tidal bench mark , representative of each group of bench marks was identified.

(a) The following list of bench marks were recovered and were used as the basic control for the establishment of vertical photo points, necessary for Kelsh plotter model points.

Bench Mark	Order of Accuracy	Establishing Agency
BM CORONADO	First Order	C.& G.S.
BM EAST RM ALAMEDA	"	"
BM 1 (A.T.& S.F.RY.)	"	"
C 890	"	"
C899	"	"
D 890	"	"
E 750	750	"
E 890	"	"
G 890	"	"
H 13 (USGS)	"	"
L 750	"	"
LINDBERG	"	"
M 750	"	"
N 57	"	"
PARK RM 1	"	"

Bench Mark	Order of Accuracy	Establishing Agency
R 57	First Order	C.& G.S.
S 734	"	"
SILVERGATE	"	"
SOUTH PYLON (USN)	"	"
T 734	"	"
Tidal 3 RESET	"	"
Tidal 5	"	"
Tidal 11	"	"
Tidal 13M	"	"
U 734	"	"
V 741	"	"
VV 735	"	"
W 280	"	"
W 895	"	"
X 734	"	"
X 741	"	"
X 895	"	"
Y 734	"	"
Y 741	"	"
Z 734	"	"
Z 741	"	"
10.828 (USGS)	"	"
68 USN	Third"Order	U.S"N.
97 USN	"	"
105 USN	"	"
207 USN	"	"
289 USN	"	"

Bench Mark	Order of Accuracy	Establishing Agency
302 USN	Third Order	U.S.N.
318 USN	"	"
336 USN	"	"
348 USN	"	"
352 USN	"	"
368 USN	"	"

Vertical control station established by the Public Works Office, North Island Naval Air Station were used for base control for some of the photo-~~elevatepm-points-pm-tje-aer-statepm~~ elevations points on the air station. The navy bench marks were established, using Coast and Geodetic Survey bench marks for basic control, and can be considered to meet the bureaus requirements for third order vertical control. These navy bench marks are referenced to the U.S.N. North Island datum. U.S.N. datum minus 2.75 feet equals C.& G,S. mean sea level. Elevations and description of these marks as compiled by the Public Works Office, North Island Naval Air Station will be submitted with the field data.

No datum adjustments were made by the field party except for the conversion of the U.S.N. bench marks data to mean sea level.

All bench marks indicated on the special project diagram for vertical control were searched for.

Bench Mark "Alameda" level line 123, sheet T-11883, previously reported as not recovered or releveled in 1955, was recovered and releveled at this time.

(b) All vertical photo-points necessary for Kelsh plotter model points ~~are~~ as indicated on the field photographs by the Portland Photogrammetric Office, were determined by spirit leveling using the Zeiss Opton level and the Philadelphia level rod. As all level lines were closed within the tolerances required for the location of the vertical photo points, no adjustments were made.

(c) The following are the first and last photo-level points established in each of the quadrangles

Quadrangle	First Level Point	Last Level Point
T-~~11881~~ 11880	VP 81-01	VP 81-09
T~~11882~~ 11879	VP 82-12	VP 82-13
T-~~11883~~ 11879	VP 83-01	VP 83-16
T-~~11884~~ 11880	VP 84-01	VP 84-12
T-~~11885~~ 11880	VP 85-01	VP 85-10
T-~~11886~~ 11881	VP 86-08	VP 86-08
T-~~11887~~ 11882	VP 87-01	VP 87-09
T-~~11888~~ 11882	VP 88-01	VP 88-04
T-~~11889~~ 11883	VP 89-01	VP 89-10
T-~~11890~~ 11882	VP 90-01	VP 90-09
T-~~11891~~ 11883	VP 91-01	VP 91-11

(d) All vertical Photo control points as required were established for the Kelsh Plotter models

5. Contours and Drainage

No contouring was performed in the field except in areas of recent fill, since the date of photographs. See photographs 60S 558 A, 60S 580 A and 60S 583 A for planetable delineation of shoreline and contour features.

All drainage is intermittent and so indicated on the field photographs.

6. Woodland Cover

There are few trees in the area. None was considered extensive enough to map.

7. Shoreline and Alongshore Features

The entire shoreline was inspected by field personnel utilizing a small skiff or walking the beach.

(a) The mean high water line was determined on the field photographs

by its relative position to identifiable photo-images.

(b) The low water line was not delineated.

(c) The character of the foreshore has been indicated on the field photographs.

(d) Bluff and cliffs are not evident in this portion of the project except in the extreme southern portion adjacent to the U.S.-Mexico border.

(e) Docks, wharves and piers have been indicated on the field photographs. Boat slips, ramps and floats have also been indicated. A newly constructed float on the northwest shore of North Island can be located from the plan of the float as furnished by the Public Works Office, North Island Naval Air Station. See photograph 60S 684 A.

An auto-passenger ferry operates between San Diego and Coronado.

(f) Submarine cable ends have been indicated on the field photography. A degaussing range exists between Ballast Point and Zuniga Point, at the entrance to San Diego Bay.

(g) An extension of an earth dike has been located by theodolite fixes. See photograph 60S 712 A.

The south end of San Diego Bay is occupied by diked ponds forming salt evaporators.

8. Offshore features

Offshore features in the form of piles or dolphins were indicated on the field photographs. In San Diego Bay, sheet T-11882 are found seaplane lane markers. These consist of lone piles topped by a wooden, pyramidal, lattice work structure, marking the perimeter of the seaplane lanes.

A sunken, wooden barge was located by theodolite fix in the south San Diego Bay area. See the reverse side of photo 60S 712 A.

A sunken wreck was located by sub pt. method in sheet T-11880.

In sheet T-11886 a submerged sewage outfall pipe line extends westward from Point Loma for about 2½ miles. A copy of the plans of this feature

will be submitted with this report.

9. Landmarks and Aids

(a) All charted landmarks were investigated. Twenty-two landmarks features were recommended to be adopted or retained for charting purposes. All landmarks were listed on form 567 (Landmarks for Charts).

(b) No interior landmarks were selected.

(c) Six aeronautical aids were located or confirmed. These have been listed on form 567 (Nonfloating Aids for Charts).

(d) All fixed aids to navigation were located and have been listed on form 567.

Two of the lighted aids have been moved since their photo-location in 1962. In sheet T-~~11886~~ 11881, Ballast Point Light was moved to a new nearby location. In sheet T-~~11882~~ 11879, san Diego Bay Shelter Island Light was moved to a new nearby location. The new positions of the lights were determined by triangulation intersection methods in January of 1963.

The images of the lighted aids in Glorietta Bay were not visible on the field photographs. Their locations were determined by sextant fixes. See reverse side of photo 60S 664 A.

(e) Floating aids are not applicable.

10. Boundaries, Monuments and Lines

The international boundary (U.S. - Mexico) is defined by boundary Monuments 257 and 258 in the project area.

The area of this report is within San Diego County. Maps by various agencies are submitted with this report to permit the delineation of the boundaries of the following areas; U.S. Naval Amphibious Training Base, North Island Naval Air Station, Silver Strand State Park, U.S. Naval Communications Training Center, Ream Field Naval Auxiliary Air Station, Border Field Naval Reservation, U.S. Naval Station (Repair Facility), The corporate Limits of the cities of San Diego, National City, Chula Vista, Imperial Beach and Coronado.

11. Other Control

No other control was established by the field unit. The establishment of topographic or hydrographic stations were not required by the progress instructions.

12. Other Interior Features

Public building have been indicated on the field photographs. Street maps previously furnished to the Portland Photogrammetric Office can supply names of streets if desired.

A portion of the City of San Diego Municipal Airport (Lindberg Field) is located in Sheet ~~T-11881~~ 11880. North Island Naval Air Station is located in Sheet ~~T-11883~~ 11879. National City Airport is located in Sheet ~~T-11891~~ 11883. Ream Field Naval Auxiliary Air Station is found in sheet T-11892.

The only navigable waters in the project are the Pacific Ocean and San Diego Bay.

13. Geographic Names

Geographic Names are the subject of a separate report.

14. Special Report and Supplemental Data

(1) Letter by ~~P.W.~~ Public Works, North Island, Naval Air Station Office for conversion of U.S.N. Bench Mark data to Mean Sea level. (3 pages)

(2) Plan of Small Boat Lnading (float) by U.S.N. Public Works P.W. Office.

(3) Coast Pilot Report, Pacific Coast, Dana Point to San Diego Diego, Calif

(4) Plans of submerged sewer outfall line by City of San Diego. (5 sheets)

(5) Maps of San Diego City Limits b-y City Engrs. office, San Diego California. (9)sheets)

(6) Plan of Mar Vista Junior High School, Imperial Beach, Calif.

(7) Map of City of Coronado Calif., city limits

(8) Map of Imperial Beach, Calif.m city limits

(9) Map of Silver Strand Beach, State Park

(10) Map of North Island Naval Air Station

(11) Map of National City, city limits

(12) Map of U.S.N. Communications Training Center,,Imperial Beach Calif.

(13) Plan of 10th Avenue Marine Terminal Utilities

(14) Map of City of Chula Vista Cal., city limits

(15) Map of U.S. Naval Station, Complex

(16) Map of U.S.N. Amphibious Training Base, Coronado Cal. (2 sheets)

(17) Map of N.A.A.S. Ream Field, Imperial Beach Calif.

(18) Map of U.S.N. Border Field Calif.

(19) Sketch of Triangulation

Approved:

Fred Natella, Capt. C.& G.S.

Portland District Officer

Respectfully Submitted

Robert B. Melby

Robt. B. Melby

Surveying Technician C.& G.S.

Photogrammetric Plot Report No. 2
Project 21033
Dana Point, California to Mexican Border
June 1964

21. Area Covered

This report covers the remainder of the project: San Diego Bay surveys T-11879, through T-11883, T-11892 and T-11893.

22. Method

Four strips were bridged by analytic aerotriangulation, namely: Strip No. 5 at a scale of 1:30,000; Strip No. 6 at 1:10,000; and Strips 15 and 16 at 1:36,000. Closures to control are shown on attached sketch.

23. Adequacy of Control

Horizontal control complied with project instructions and was adequate. Ties between strips were good. The IBM readouts have been corrected to the mean values between strips. Bridging results insure that compilation will comply with National Standards of Map Accuracy.

24. Supplemental Data

None

25. Photography

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

Respectfully submitted:

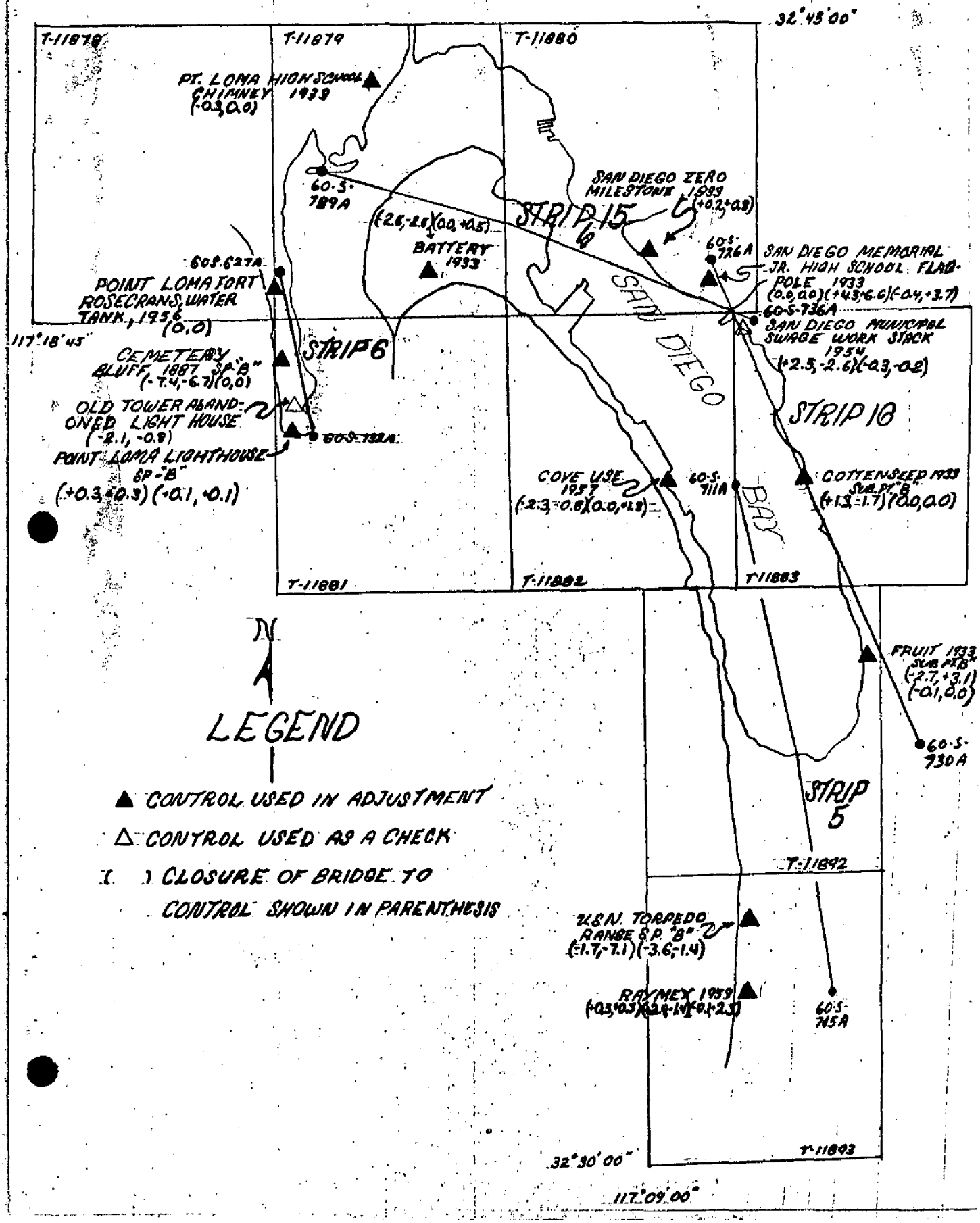
Henry P. Eichert

Approved by:

Everett H. Ramey, Chief
Aerotriangulation Section

DANA POINT

Project No. 21033 STRIPS: 5, 6, 15-16



COMPILATION REPORT

MAP MANUSCRIPT T-11879

PROJECT 21033

31. DELINEATION:

THE KELSH INSTRUMENT WAS USED TO COMPILE THE PLANIMETRY EXCEPT FOR THE AREA AT THE NORTHEAST END OF SHELTER ISLAND AND THE NEW MAN-MADE HARBOR ISLAND CONSTRUCTED SINCE THE DATE OF PHOTOGRAPHY. GRAPHIC METHODS WERE USED TO LOCATE AND DELINEATE THESE ADDITIONS USING COORDINATE DATA AND MAPS OF THE NEW CONSTRUCTION FURNISHED BY THE FIELD INSPECTION UNIT.

32. CONTROL:

SUPPLEMENTARY CONTROL WAS ESTABLISHED BY ANALYTIC AERO TRIANGULATION BASED ON FIELD-IDENTIFIED HORIZONTAL CONTROL STATIONS.

33. SUPPLEMENTAL DATA:

THE FOLLOWING MAPS AND PLANS WERE CONSULTED DURING THE COMPILATION OF THIS MANUSCRIPT:

MARINE CORPS RECRUIT DEPOT
SAN DIEGO NAVAL TRAINING CENTER
HARBOR ISLAND, SAN DIEGO BAY MHWL
SHELTER ISLAND, PIER AND MHWL
USN POINT LOMA MASTER SHORE STATION DEVELOPMENT PLAN
USN, REHABILITATION OF N.R.T.C. PIER

34. CONTOURS AND DRAINAGE:

CONTOURS ARE NOT APPLICABLE.

NO DRAINAGE IS SHOWN ON THIS MANUSCRIPT.

35. SHORELINE AND ALONGSHORE DETAILS:

THE MEAN HIGH WATER LINE WAS COMPILED AS FIELD INSPECTED ON THE 1:5000 RATIO PRINTS EXCEPT FOR THE NORTHEAST SHORE OF SHELTER ISLAND AND THE NEW FEATURE SHOWN AS HARBOR ISLAND. (SEE PARAGRAPH 31). NUMEROUS PIERS, GROINS, STORM DRAINS, MARINE RAILWAYS, FLOATS, RAMPS AND PILING HAVE BEEN DELINEATED AS INDICATED BY THE FIELD UNIT. TWO PARTIALLY SUBMERGED WRECKS ARE SHOWN. DATA FOR THE LOCATION BY SEXTANT FIX OF SEVERAL PILES ALONG SHORE WAS PROVIDED. THE CHARACTER OF THE ALONGSHORE AREA WAS INDICATED BY LABEL OR SYMBOL. NO LOW WATER LINE WAS SHOWN.

36. Offshore Details:

The eight daybeacons in Commercial Basin along with the light near the entrance to the Municipal Yacht Harbor, an adjacent dolphin and a nearby lone pile were located by sextant fixes.

37. Landmarks and Aids:

Twenty-five non-floating aids, seven landmarks and three aeronautical aids are shown on this manuscript. Forms 567 are submitted.

38. Control for Future Surveys:

None.

39. Junctions:

Satisfactory junctions were made with T-11881 to the south, with T-11878 to the west, with T-11877 to the north and with T-11880 to the east.

40. Horizontal and Vertical Accuracy:

46. Comparison with existing Maps:

Comparison was made with the U.S.G.S. $7\frac{1}{2}$ minute Point Loma, California quadrangle, scale 1:24,000, edition 1953.

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart 5101, scale 1:234,270 at Lat. 33° 20', 6th edition Oct. 2, 1961, revised 9-24-64; with Nautical Chart 5105, scale 1:12,000 at Lat. 32° 42', 10th edition Feb. 12, 1962, revised 2-11-63; and with Nautical Chart 5107, scale 1:20,000 at Lat. 32° 40', 23rd edition Nov. 12, 1962.

SUBMITTED:

James L Harris

JAMES L. HARRIS
CARTOGRAPHER

APPROVED:

Leo F. Bruguet

for P. A. STARK, CDR, C&GS
PORTLAND FIELD OFFICER

FORM C&GS-1
(3-64)
USCOMM-DC
6659-P64

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 11879 PROJECT NO: 21033 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD (BACK)
ADMINISTRATION, 1933	Pg. 23	N.A. 1927	199,421.70 1,710,088.90	
BATTERY, 1933	Pg. 23	"	191,690.31 1,707,037.77	
BENNINGTON MONUMENT, 1933	Pg. 27	"	191,819.65 1,694,303.10	
CEMETERY BLUFF, 1887	Pg. 23	"	191,827.93' 1,693,710.16	
CORONADO, 1939	Pg. 59	"	191,703.32 1,711,479.14	
MID, 1921	Pg. 23	"	196,395.06 1,692,751.68	
MILLER, 1933	Pg. 23	"	212,853.14 1,711,130.06	
NAUTICAL NORTH, 1956	Pg. 181	"	197,900.58 1,701,659.88	
NORTH, 1916	Pg. 23	"	200,286.15 1,708,862.24	
NORTH ISLAND NAS OFFICERS BEACH LIFEGUARD STAND, 1960		"	190,974.81 1,707,051.59	33.
NORTH ISLAND NAS SHORAN TOWER, 1960		"	191,143.18 1,704,258.54	
NORTH ISLAND, NORTH RANGE FRONT MARKER, 1956	Pg.181	"	197,969.25 1,701,710.00	

COMPUTED BY	DATE	CHECKED BY	DATE
D.N.W.	6-18-64	L.L.G.	6-19-64

FORM C&GS-1
(3-64)
USCOMM-DC
6659-P64

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 11879 PROJECT NO: 21033 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD (BACK)
NORTH ISLAND, NORTH RANGE REAR MARKER, 1956	P.C. Zone 6 Pg. 181	N.A. 1927	197,932.71 1,701,813.99	
NORTH ISLAND, SOUTH RANGE REAR MARKER, 1956	Pg. 181	"	192,173.02 1,699,876.60	
POINT LOMA, FORT ROSECRANS, WATER TANK, 1956	Pg. 181	"	197,737.79 1,693,530.87	
POINT LOMA, HIGH SCHOOL, CHIMNEY, 1933	Pg. 27	"	209,955.17 1,700,338.95	
ROCKWELL, 1953	Pg. 23	"	194,978.70 1,701,133.60	
SAN DIEGO BAY ENTRANCE RANGE FRONT LIGHT, 1954	Pg. 171	"	197,259 1,697,692	
SAN DIEGO BAY ENTRANCE RANGE REAR LIGHT, 1954	Pg. 171	"	198,743.63 1,697,523.94	
SAN DIEGO LATITUDE STATION 1851 (ASTRO)	Pg. 106	"	195,839.36 1,694,944.66	
SAN DIEGO, U.S. NAVAL TRAINING STA., CUPOLA, 1933	Pg. 25	"	210,109.77 1,704,535.58	
SAN DIEGO, U.S. MARINE BASE STACK, 1933	Pg. 26	"	211,551.95 1,708,997.57	
SAN DIEGO, U.S. NAVAL TRAINING STA., FLAGPOLE, 1933	Pg. 25	"	210,630.72 1,705,002.51	
SAN DIEGO, U.S. MARINE BARRACKS FALGPOLE 1933	Pg. 25	"	210,715.58 1,708,887.80	

COMPUTED BY	DATE	CHECKED BY	DATE
D.N.W.	6-18-64	L.L.G.	6-19-64

FORM C&GS-1
(3-64)
USCOMM-DC
6659-P64

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 11879 PROJECT NO: 21033 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS *(1 Ft. = 3048006 meter)* FORWARD (BACK)
SAN DIEGO, YACHT CLUB, FLAGPOLE, 1933	Pg. 27	N.A. 1927	202,064.06 1,698,998.32	
SENTRY, 1956	Pg. 181	"	195,523.68 1,700,060.65	
VENICE, 1933	Pg. 23	"	209,871.88 1,696,161.73	
BM 302 (USN), 1962	FIELD COMP.	"	200,331.77 1,708,886.71	
NORTH ISLAND, NAVAL AIR STATION, TACAN, 1963	FIELD COMP.	"	193,467.79 1,701,608.11	
SAN DIEGO BAY, SHELTER ISLAND LIGHT, 1963	FIELD COMP.	"	201,016.54 1,701,031.24	
SAN DIEGO, NORTH ISLAND LIGHT 4, 1963	FIELD COMP.	"	198,431.02 1,701,922.47	

COMPUTED BY	DATE	CHECKED BY	DATE
D.N.W.	6-18-64	L.L.G.	6-19-64

48. GEOGRAPHIC NAME LIST:

THE GEOGRAPHIC NAMES SHOWN 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. POINT LOMA, CALIFORNIA 7½ MINUTE QUADRANGLE, SCALE 1:24,000, EDITION 1953.

COMMERCIAL BASIN
FISHERMAN POINT
HARBOR ISLAND
LA PLAYA
LOMA PORTAL
MUNICIPAL YACHT HARBOR
NORTH ISLAND
OCEAN BEACH
POINT LOMA
ROSEVILLE
SAN DIEGO BAY
SHELTER ISLAND

Names approved
8-2-65
A. J. Wright

49. NOTES FOR THE HYDROGRAPHER:

NONE.

C&GS FORM (11-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

T-11879

NONFLOATING AIDS [redacted] FOR CHARTS

TO BE CHARTED
[redacted]
} STRIKE OUT TWO

Portland, Oregon — 12 Oct., 1964

I recommend that the following objects which have [redacted] been inspected from seaward to determine their value as landmarks be charted on [redacted] the charts indicated.

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

P. A. Stark, *Chief of Party.*

STATE: California

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE* ° ′	LATITUDE* ″ D.M. METERS	POSITION LONGITUDE* ° ′	LONGITUDE* ″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION OR Verification	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
North Island Light 2			32 42	10.06 309.6	117 13	26.14 680.8	N.A. 1927	PhotoComp T-11879	2-14-63	X			5105,5107
North Island Light 4 (SAN DIEGO, NORTH ISLAND LIGHT 4, 1963)			32 42	29.643 913.1	117 13	08.373 218.1	"	Tri.1963 T-11879	2-7-63	X			" "
Shelter Island Light (SAN DIEGO BAY, SHELTER ISLAND LIGHT, 1963)			32 42	55.143 1698.6	117 13	19.084 497.0	"	DO	2-25-64	X			" "
North Island Light 6			32 42	41.25 1270.8	117 12	53.86 1402.6	"	PhotoComp T-11879	2-12-63	X			" "
North Island Light 8			32 42	47.42 1460.8	117 12	39.55 1030.0	"	DO	"	X			" "
North Island Light 10			32 42	52.08 1604.3	117 12	22.41 583.5	"	DO	"	X			" "
North Island Light 12			32 42	54.94 1692.3	117 12	08.44 219.7	"	DO	"	X			" "
San Diego Bay, Entrance Range Front Light (SAN DIEGO BAY, ENTRANCE RANGE FRONT LIGHT, 1954)			32 42	17.66 544.0	117 13	57.75 1504.2	"	Tri.1954 T-11879	5-2-62	X			" "
San Diego Bay, Entrance Range Rear Light (SAN DIEGO BAY, ENTRANCE RANGE REAR LIGHT 1954)			32 42	32.329 995.9	117 13	59.880 1559.5	"	DO	"	X			" "
Municipal Yacht Harbor Entrance Light			32 42	17.62 542.8	117 13	57.72 1503.2	"	Trav.1962 T-11879		X			" "
Municipal Yacht Harbor Range Front Light			32 43	05.88 181.2	117 13	28.82 750.4	"	PhotoComp T-11879	5-3-62	X			" "
Municipal Yacht Harbor Range Rear Light			32 43	07.34 226.0	117 13	26.84 699.0	"	DO	"	X			" "
Commercial Basin Daybeacon A			32 43	16.56 510.0	117 13	13.29 346.2	"	Sextant T-11879	5-2-62	X			" "

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

USCOMM-DC 16234-P61

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
[redacted]
} STRIKE OUT TWO

Portland, Oregon, 13 Oct., 19 64

I recommend that the following objects which have (~~not~~) been inspected from seaward to determine their value as landmarks be charted on (~~for charting~~) the charts indicated.

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

P. A. Stark, *Chief of Party*

STATE: CALIFORNIA

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE* ° ′	LATITUDE* ″ D.M. METERS	LONGITUDE* ° ′	LONGITUDE* ″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION OR Verification	CHART	CHART	CHART	CHARTS AFFECTED
Commercial Basin Daybeacon 1			32 43	19.50 600.8	117 13	18.01 469.0	N.A. 1927	Sextant T-11879	5-2-62	X			5105,5107
Commercial Basin Daybeacon 2			32 43	14.08 433.8	117 13	19.21 500.2	"	"	"	X			" "
Commercial Basin Daybeacon 3			32 43	22.34 688.3	117 13	22.58 588.0	"	"	"	X			" "
Commercial Basin Daybeacon 4			32 43	14.35 442.1	117 13	21.84 568.6	"	"	"	X			" "
Commercial Basin Daybeacon 5			32 43	22.28 686.2	117 13	26.71 695.6	"	"	"	X			" "
Commercial Basin Daybeacon 6			32 43	16.58 510.8	117 13	25.83 672.5	"	"	"	X			" "
Commercial Basin Daybeacon B			32 43	19.01 585.5	117 13	29.42 766.0	"	"	"	X			" "
AERO	North Island Aero Light (ADMINISTRATION, 1933)		32 42	40.186 1237.9	117 11	32.912 857.2		Tri.1933 T-11879	2-12-63	X		X	5101,5105 5107
MARKER	(NORTH ISLAND, NORTH RANGE REAR MARKER,1956)		32 42	24.703 761.0	117 13	09.588 249.7	N.A. 1927	Tri.1956 T-11879	2-14-63	X			5105,5107
MARKER	(NORTH ISLAND,NORTH RANGE FRONT MARKER,1956)		32 42	25.055 771.8	117 13	10.809 281.5	"	"	"	X			" "
MARKER	(NORTH ISLAND,SOUTH RANGE REAR MARKER,1956)		32 41	27.537 848.2	117 13	31.629 823.9	"	"	"	X			" "
MARKER	North Island,South Range Front Marker		32 41	28.10 865.6	117 13	33.83 881.2	"	PhotoComp T-11879	"	X			" "

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

C&GS FORM (11-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

T-11879

RECOMMENDATION FOR LANDMARKS FOR CHARTS

TO BE CHARTED / ~~TO BE DISCONTINUED~~ } STRIKE OUT TWO

Portland, Oregon 13 Oct. 1964

I recommend that the following objects which have (~~not~~) been inspected from seaward to determine their value as landmarks be charted on (~~discontinued~~) the charts indicated.

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

P. A. Stark *Chief of Party*

STATE CALIFORNIA

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE* ° ′	″ D.M. METERS	POSITION LONGITUDE* ° ′	″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION OR Verification	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
DOME	Dome on Church ht - 60'(89')		32 44	47.11 1451.2	117 14	42.04 1094.5	N.A. 1927	PhotoComp T-11879	4-18-62	X			5105,5107
CHIMNEY ON SCHOOL BLDG	Brick ht - 59'(240') (POINT LOMA HIGH SCHOOL CHIMNEY 1933)		32 44	23.519 724.5	117 13	28.164 733.3	"	Tri.1933 T-11879	"	X			" "
STACK	Stack ht -125'(133') (SAN DIEGO,U.S.MARINE BASE STACK,1933)		32 44	40.107 1235.5	117 11	46.972 1222.9	"	DO	"	X			" "
STACK	Brick, stack ht - 63'(69')		32 43	47.53 1464.1	117 12	52.84 1375.8	"	PhotoComp T-11879	"	X			" "
STANDPIPE	Steel, standpipe ht - 93'(478')		32 42	28.76 886.0	117 14	53.08 1382.4	"	DO	"	X			" "
FLAGPOLE	Steel, flagpole ht - 77'(472')		32 41	19.29 594.3	117 14	41.10 1070.7	"	DO	4-27-62	X			" "
TANK (ELEV)	Steel ht - 110'(500') (PT LOMA,FORT ROSECRANS WATER TANK, 1956)		32 42	22.002 677.7	117 14	46.499 1211.1	"	Tri.1956 T-11879	"	X			" "

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

USCOMM-DC 16234-P61

C&GS FORM (11-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

T-11879

AERONAUTICAL
~~HYDROGRAPHIC~~ AIDS ~~ORIGINATED~~ FOR CHARTS

TO BE CHARTED
~~TO BE REVISED~~
~~TO BE DISCONTINUED~~
STRIKE OUT TWO

Portland, Oregon

13 Oct. 1964 64

I recommend that the following objects which have (~~not~~) been inspected from seaward to determine their value as landmarks be charted on (~~determine~~) the charts indicated.

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

P. A. Stark *Chief of Party*

STATE CALIFORNIA

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE* ° ′	″ D.M. METERS	POSITION LONGITUDE* ° ′	″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION OF Verification	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED S.D.= San Diego
TVOR	San Diego, Lindbergh Field TVOR		33 44	04.16 128.1	117 11	58.00 1510.3	N.A. 1927	Photo T-11879	4-18-62				S.D. Sectional S.D. Local F.A. No. 1044
AERO	NAS North Island Aero Light		32 42	40.186 1237.9	117 11	32.912 857.2	"	Tri-1933 T-11879	2-26-63				DO
	(ADMINISTRATION, 1933)												
TACAN	Skeleton, steel ht.= 36 ft. (NORTH ISLAND NAVAL AIR STATION		32 41	40.507 1247.8	117 13	11.511 300.0	"	Tri.1963 T-11879	2-12-63				DO
	TACAN, 1963)												

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

USCOMM-DC 16234-P61

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

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T-~~10262~~ 11879

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
✓	✓	✓	Not Applicable

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
✓	✓	✓	✓

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	Not Applicable	✓

CULTURAL FEATURES

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

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
✓	Not Applicable

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
C.H.T. Bishop	

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-11878 through T-11883, 11892 and 11893
September 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 maps for our nautical and aeronautical charting program.

62. Comparison with Registered Topographic Maps

T-5371	1:10,000	1934
T-5372	1:10,000	1934
T-5373	1:10,000	1934
T-5374	1:10,000	1934

Cultural and shoreline changes have been continuous with extensive changes in the urban areas.

63. Comparison with Maps of Other Agencies

San Ysidro	1:24,000	1953
National City	1:24,000	1953
Point Loma	1:24,000	1953

Considering the time interval the maps are in comparatively close agreement.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

5101	1:234,270	April 1965
5105	1:12,000	1962
5107	1:20,000	1964

There are differences in the San Diego harbor area, otherwise they are in comparatively good agreement.

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 Lenn
Chief, Photogrammetric Branch

L. T. Woodcock
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. T-11879

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
			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
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