

Form 504 Ed. June, 1928 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY R.S. Patton., Director
State: CALIFORNIA
DESCRIPTIVE REPORT
Topographic Sheet No. D 4/90
LOCALITY
Monterey Bay
Vicinity of Lonterey Harbor
19 33.
CHIEF OF PARTY
G.C.Jones.

Applied to Chart 5403 (Insert) 11/17/52 ME

DESCRIPTIVE REPORT to accompany TOPOGRAPHIC SHEET "D"

SEVINOR DE CENTRALE :
356 26 J. S
Acc. Ro.

LOCALITY

This sheet covers the area from Mussel Point in the west to two miles north of Monterey Harbor in the east. It joins with sheet "E" on the western end and with sheet "C" on the eastern end.

AUTHORITY

Survey was made under the Director's instructions dated April 4, 1932, and supplemental instructions March 27, 1933 (Project HT-130).

GENERAL DESCRIPTION

From Mussel Point to the Custom House, the shore line is rocky with occasional small sections of sand beach. Fish canneries and docks are prevalent, and a number of offlying rocks, all of which are small and lie relatively close to the shore, are to be found. At Spence Street, the Monterey Breakwater projects 425 meters from the shore. The city sections of New Monterey, and Monterey are separated by the U.S. Military Presidio and Reservation, an open section of country used for Army drill purposes, etc. The cities named above are built upon the side of the hills that rise to heights of 400 feet inshore from Mussel Point to a maximum of 815 feet inland from the Custom House.

* See Appended note in reference to this Breakwater.

Back of the cities these hills are very thickly wooded, and present a blackish appearance.

From the Custom House to the eastern end of the sheet a sand beach prevails, with no offlying rocks or reefs. At the end of Figueroa Street is located the Monterey Municipal Wharf, 515 meters in length. This wharf was constructed in 1926, is of the later design, and quite substantial. To the east of triangulation station BEATH, 150 meters, sand dunes commence, that gradually rise to a maximum height of 157 feet at the eastern end of the sheet. These sand dunes are 200 to 600 meters in width, present a yellowish-brown appearance, and contain no distinctive peaks that may serve as landmarks. The height of the dunes prevents seeing immediately beyond them, only the dark colored, low hills of the background being visible from the bay.

Between topographic station STAK and triangulation station SEASIDE the Associated Oil Co., has constructed seven large oil tanks on the top and seaward side of the sand dunes. The aluminum color of these tanks makes them most noticeable from the bay.

SHORE LINE CHANGES

It was necessary to reduce the shore line of this sheet to a 1:10,000 scale in order to compare it with the shore line of 1910. Very little discrepancy is

found between the two shore line; in fact the only place at which any can be detected is near topographic station ZIP; in this region the shore line appears to be about 30 meters inside of the 1910 line. Since the bottom of dune line shows no change, the discrepancy may be considered as of very little consequence.

LANDMARKS

The concrete stack located by triangulation and marked n.d., called MONTEREY AMERICAN CAN CO., STACK, 1932, is 70 feet in height and is the most prominent and distinctive stack in this locality.

Topographic station GAB, the north gable of the warehouse located at the end of Monterey Municipal Wharf, would be very useful to incoming ships, as it is the most prominent object in the harbor.

Topographic station BLACK is a very prominent stack, the highest stack of three, the two lower ones lying on each side of it. Aluminum colored with a black tip and rising 65 feet in height, it is distinctive enough to warrant charting.

The granite monument located by triangulation and marked n.d., called MONTEREY, PRESIDIO MONUMENT, 1932, is 30 feet in height, is very prominently situated on the brow of a barren hill and should be charted.

The aluminum colored stack located by triangulation and marked n.d., called MONTEREY, P. G. & E. STACK, 1932, is 75 feet in height and of sufficient importance to be charted.

The gas tank located by triangulation and marked n.d., called MONTEREY, P.G.& E. GAS TANK, 1932, is the most prominent object in this portion of the city. It is 31 meters in diameter, rises to a height of 131 feet, and is aluminum colored.

The chimney on the black house situated on the top of the sand dunes and designated on this sheet as topographic station CHIM should be charted, as its position against the skyline makes it quite prominent.

Among the Associated Oil Co., seven large oil tanks just sough of triangulation station SEASIDE it is thought that the two mentioned below should be particularly noted on the chart. All of these tanks are visible from the bay and quite prominent. The most southerly and most westerly of these tanks should be mentioned, as it locates the limit of the group of tanks. The most easterly tank is mentioned for the same reason and also because it is the most prominent tank. All of these tanks are aluminum colored, 40 meters in diameter, and 48 feet in height.



Topographic station BUNK is a permanent sandbunker 30 feet tall, is prominently situated very close to the high water line, and should be charted.

The 14 foot watertank designated as topographic station BAC is prominently located on the top of a sand dune 118 feet in height and is a very distinctive landmark.

Topographic station APE is a windmill 30 feet in height lying at the base of the sand dunes and is of sufficient importance to be charted.

PREVIOUSLY CHARTED LANDMARK

The aviation beacon situated on the top of San Carlos Hotel, located by triangulation and marked n.d., called MONTEREY, SAN CARLOS HOTEL AVIATION BEACON, 1932, latitude 36°36' 44 meters, longitude 121°53' 965 meters, should be removed from the charts. Requisites for air beacons prescribed by the Department of Commerce is such that the beacon did not satisfy such requirements, with the result that the beacon was discontinued in May, 1933, and it is not intended that it shall reoperate.

AUXILIARY MAPS

This topographic sheet is to be accompanied by city maps of Monterey and Seaside. Both of these maps have been checked in the field as to scale and have been corrected for accuracy of representation.



The city map of Monterey has been tied in to this sheet by means of the Southern Pacific Railroad, Figueroa St., Decatur St., Reeside St., Irving Ave., Eardley St., and Ocean View Ave. Common points to both are: Custom House, Monterey R. R. station, and Del Monte R. R. station. Two changes in the street arrangement have been indicated by blue ink on the city map and the sheet.

The city map of Seaside has been tied in by means of the Southern Pacific Railroad, Lake St., and the Monterey-Castroville County Highway. The fence around the Associated Oil Co., property shown on the sheet is identical with the boundary line of the same property shown on the city map. Noted in red ink on the city map are two areas that investigation discloses are not laid out on the ground and that, from appearance of the land and trend of development of the city, will not be laid out. These areas should be taken off the city map for charting purposes. Laguna Del Rey on this sheet is the same lake as Laguna Grande shown on the city map.

NEW NAMES

Point Alones is the name of the point lying just south of Mussel Point. This name appears on U.S.G.S. maps and is the local name for this point; it is to be found on local maps dated back to 1856.

CONTROL

A plane table was used throughout. Triangulation stations used in the 1932 network served as a basis of control.

CLOSING ERRORS

All traverses had closing errors well within the allowable of two meters per mile of traverse. The maximum closing error in any traverse was only two meters.

REVISION DISCREPANCIES

All artificial objects showing discrepancies between this sheet and Register #3069a are shown correctly on this sheet, as they are located from closed traverses or have been checked by several cuts from strong control traverses.

The bath house near triangulation station BEATH shown on the above has been torn down. The two large buildings on Mussel Point are grossly exagerated on sheet #3069a and are shown correctly on this topographic sheet.

It was not deemed advisable to spend the time to cover as large an area as shown on the above sheet; and the detail in that area is not useful for charts, and therefore has not been checked.



DECLINATOIRE

There was no nearby station at which the declination was known; therefore the declinatoire error has not been determined. The correction to be applied may be obtained from topographic sheets A, B, or C.

STATISTICS

Statute miles of shoreline - - - - - 5.3

Area, square statute miles - - - - - 1.6

Respectfully submitted,

Wm. J. Bardin, Engineer Hand.

Approved and forwarded:

H. & G. Engr. C. & G. S.

APPENDIX

MONTEREY

BHEAK /ATER

Since June 1933 (the date of this survey) the Monterey Breakwater has been in the process of being extended approximately 400 feet (122 meters) farther out into Monterey Bay. At the prosent date (December 15, 1933) the breakwater has not been completed, but the trestle has been extended to its ultimate length and has been located and inked on the Topographic sheet.

The rock fill has not been completed, but the U. S. Engwere
ineers in chargerconsulted and they advised that when the rock
fill is completed it will be just 80 feet (24.4 meters) short of
the end of the present trestle, at H.L.L.W. It has been shown
on the Topographic Sheet in this manner.

The U. S. Engineers report that at the completion of the breakwater (sometime during 1934) the trestle is to be torn down. They also report that the toe of the rock fill extends out to the end of the trestle, according to their designs of the breakwater.

Respectfully submitted.

Ira R. Rubottome

Jr. H.& G.Engr., C.& G.S.

Approved:

H.& G.Engro, C.& G.S.

Des Report
7-4790

PLANE-TABLE POSITIONS

Height Remarks	Feet	*				တ	κ	တ			Top of	M1d	22 S. E. corner		Tob	Tol	<u>დ</u>		S. Gable	End Gable	End	Top.		M1dd1
D. P. H	Meters	220	888	196	1,474		034	1,169	1,238	1,235	1,800	1,008	1,122	926	1,016	568	923	482	449	- 002	629	861	916	732
Long1- tude		5						121 55																
D. M.	Weters	503	364	246	051	100	253	1,557	1,409	•		•	•	•	. •	977	851	646	564	612	554	497	386	222
Latitude	()						36 36																
Object and description		Hopkins Marine Station	Large barn	Barn	North stack of 2	End of dock	End of dock	End of dock	Corner house	Garage	"Dutch" windmill	Halborn dock	Halborn home	End of dock	High stack of 2	End of breakwater	Long warehouse	Wharf warehouse ofak	Wharf werehouse	Union 011 shack	shack	High stack of 3 % Oldank	Custom house	Culvert

Datum - Morth American 1927.

T=4790

PLANE-TABLE POSITIONS

	000	Continued				
Obtact and description	Lettinde	7 (Long1-	ē.	Heloht	00 10 10 10 10 10 10 10 10 10 10 10 10 1
מאַריים משנים משנים מיים מיים מיים מיים מיים מיים מיים מ	0550+050		2222	ı I	2444×	
		Meters		Meters	Feet	
Monterey R. R. Station	0	116	1210	613		E. Gable
Old dance hall		110	121	1,381	25	
Del Monte R. R. Station		920	121	614	15	N. E. corner
7 House chimney		270	121	046	35	
		249	121	1,447	88	E. Gable
Most S. W. Assoc. 011 tank		528		1,836	48	Top.
		649	121	992	48	Do.
N stack of 2		680	121	1,344	45	•
		1,022	121	486	83 83	S. Gable
Watertank		1,154	121	418	12	Top.
Large building		1,884	121	299	30	N. W. corner
S. watertank		1,229	121	222	15	Top.
W. watertank		1,255	121	5525	15	Do.
Sand bunker		1.476	121	564	77	- Do.
Sand bunker of		1,565	121	498	20	N. End
Black pole		1,571	121	210	S2	Top.
Windmill.		1,683	121	1,301	255	Do.
Sand loader		494	121	1,314	18	Do.
/Watertank 64.		765	121	975	14	Do.
/ Windmill	56 37	841	121	1,076	30	Do.
			 			
						
						مرات د الإن
**						

Datum - North American 1927.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field LetterD

REGISTER NO# # 80

State Central California
General locality Honterey Bay
LocalityVicinity_Monterey_Harbor
Scale 1:5,000 Date of survey June , 1933
Vessel Shore party; project HT-130
Chief of Party G. C. Jones
Surveyed by W. J. Bardin
Inked by W. J. Bardin
Heights in feet above. H.H.W. to ground Krituses Approximate
fortone Approximate contour Romedinering 150 feet
Instructions dated April 4 , 1932 Supplemental, Harch 27, 1933
Remarks: Additional information is to be found on
city maps of Scalide and Honterey.

The George State of the Control of t

REVIEW OF TOPOGRAPHIC SURVEY No. 4790 (1933)

Chief of Party S. G. Jones Surveyed by W. J. Bardin Inked by W. J. Bardin Ship Alone party Instructions dated of the 14,1932 Surveyed in June 1933

- 1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.)
- 2. The character and scope of the survey satisfy the instructions.
- 3. The control and closures of traverses were adequate. (Par. 12, 29.)
- 4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)

 Only eastern portion of sheet contoured.
- 5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.)
- 6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) The points common to the map being of Monterey and the topo sheet are not marked on the map but are listed in Desc. Rep. (Over) The map " Seaside" has not been received in the office.

 7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
- 8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.)
- 9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)
- 10. The span, draw and clearance of bridges are shown. (Par. 16c.)
- .ll. Locations and elevations of summits are given. (Par. 19, 51.)
 - 12. The tree line was shown on mountains. (Par. 16g.)

grand and the second

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

The map" bity I wontered " does not conform to the requiremented of pairs of the manual, in that I the requirements for Topographic Work, Forgraphic Must mented on that the points common to it and the topographic thest are not merbed on the map, quitte is the map signed by the topographic or stillment mad, on the face of the may by the Chief of Saty as directed in and prespect,

REVIEW OF TOPOGRAPHIC SURVEY No. 4790 (1933) Page 2

- 13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.)
- The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.
 - The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) They are listed in the Descriptive Report.
 - A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) Listed and described in the Description Report
 - The magnetic meridian was shown, and declination was sheeked. 17, 52.)
 - The geographic datum of the sheet is North American 1927 and the reference station is correctly noted. (Par. 34.) Datum note added in Africa
 - Junctions with contemporary surveys are adequate. ~
 - Geographic names are shown on the sheet and are covered by the Des-20. criptive report. (Par. 64, 66k.)
 - The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 79, 40, 41, 42, 45, 46, 47, 48, 49, 50.)
 - 22. No additional surveying is recommended.
 - The Chief of Party inspected and approved the sheet and the descriptive report after review by
 - 24. Remarks:

Reviewed in office by R.J. Christman, July 1934

Examined and approved:

Rield Records

Division of Hyd. and Top.

Section of Field Work