11641

only

11841

Diag. Cht. No. 5101-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAMMETRIC)

Field No. Ph-5908 Office No. T-11641

LOCALITY

State CALIFORNIA

General locality Los ANGELES

Locality Long BEACH (TERMINAL ISLAND)

1900 59 - 1960

CHIEF OF PARTY

FRED NATELLA

LIBRARY & ARCHIVES

DATE ______Sept. 1963

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T - 11641

Project No. (II): PH-5908

Quadrangle Name (IV):

Field Office (II): SANTA ANA, CALIFORNIA.

Chief of Party:

FRED NATELLA

Photogrammetric Office (III):

PORTLAND, OREGON

Unit Chief: Officer-in-Charge: R. B. MÉLBY FRED NATELLA

Instructions dated (II) (III):

6 JANUARY 1960

Copy filed in Division of

AMENDMENT 1:

13 APRIL 1960

Photogrammetry (IV)

Method of Compilation (III):

KELSH INSTRUMENT

Manuscript Scale (III):

1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6000

PANTOGRAPH SCALE:

1:10,000

Scale Factor (III):

NONE

Date received in Washington Office (IV): FEB 1 8

Date reported to Nautical Chart Branch (IV):

Applied, to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

N.A. 1927

Vertical Datum (III):

Mean sea level except as follows: 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):

MID, 1949

Lat.:

Long.:

Adjusted (Unadjusted

Plane Coordinates (IV):

State:

CALIFORNIA

Zone: VII

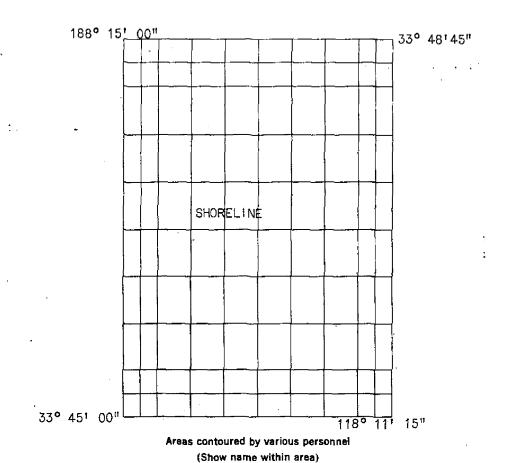
4,123,672.06

4,226,388.52



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.



(11) (111)

COMM- DC- 57842

DESCRIPTIVE REPORT - DATA RECORD

C. H. BISHOP Field Inspection by (II): Ост. 1960 Date: Planetable contouring by (II): Date: Completion Surveys by (II): Date: Mean High Water Location (III) (State date and method of location): OCT. 1960 BY FIELD INSPECTION. COMPILATION BY KELSH INSTRUMENT R.A.Ç. 9-27-60 Projection and Grids ruled by (IV): Date: J.D.C. Projection and Grids checked by (IV): 10-12-60 Date: Control plotted by (III): C. H. BISHOP 11-8-61 Date: D. N. WILLIAMS Control checked by (III): 3-2-62 Date: R. E. FUESCHEL Ост. 1960 Radial Plot or Stereoscopic Date: Control extension by (III): D. N. WILLIAMS 4-24-62 Planimetry Date: Stereoscopic Instrument compilation (III): Contours Date: L. L. GRAVES & C. H. BISHOP, SCRIBINGDate: 8-17-62 Manuscript delineated by (III): C. C. HARRIS, STICK-UP 12-6-62 Photogrammetric Office Review by (III): J. L. HARRIS, ROUGH DRAFT 5-31-62 Date: J. L. HARRIS, ADVANCE 12-10-62

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

Date:

Range

5.4

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III):

C&GS SINGLE LENS "S"

		PHOTOGRAPHS (III) .			
Number	Date	Time	Scale		Stage of	Tide
59 S 8191						
тнки 8193	10-3-59	11:18	1:30,000	0.5	ABOVE	M.H.W.
59 S 8152	•					
тнки 8155	Ħ	10:45	11	11	11	11
59 S 8178						
and 8179		11:04	п	īŧ	11	IT
59 S 7 975						
THRU 7980	10-2-59	14:30	1:10,000	AT M.	L.L.W.	
59 S 7966		•				
THRU 7970	ıı .	14:30	11		12	•
59 S 7989						
THRU 7994	11	14:30	tt		l1	
(COLOR TRANSP	ARENCIES)	Tide (III)		Ratio of M		RNAL ing-

Reference Station:

Los Angeles (Outer Harbor)

Subordinate Station:

LONG BEACH (INNER HARBOR)

Subordinate Station:

COMPUTED FROM PREDICTED TIDE TABLES.

Washington Office Review by (IV):

Date:

Ranges Range

3.8

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date: Date:

Proof Edit by. (IV):

Land Area (Sq. Statute Miles) (III): 10

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

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

117 Recovered:

Identified:

11 5 Identified:

23 Recovered: Number of BMs searched for (II): Number of Recoverable Photo Stations established (III): Number of Temporary Photo Hydro Stations established (III):

Remarks:

COMM- DC- 57842

Ratio of Mean | Spring

Camera (kind or source) (III):

PHOTOGRAPHS (III)

Number Date Time Scale Stage of Tide

Tide (III)

Reference Station:
Subordinate Station:
Subordinate Station:

Washington Office Review by (IV): Date:

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): . Date:

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

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

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

Control Leveling - Miles (II):

** Number of Triangulation Stations searched for (II): 150 Recovered: 19 Identified: 14

** Number of BMs searched for (II): 23 Recovered: 17 Identified: 5

*** Number of Recoverable Photo Stations established (III): 26

Number of Temporary Photo Hydro Stations established (III):

	Remarks:	Searched for:	Recov.	Ident.
	(11641 (11642 (11647	117	45	11
×	(11642	13	b	0
	(11647	20	13	3

** All bench marks in 11641

(11641 21 *** (11642 1 (11647 4

FIELD INSPECTION REPORT

Sheets 11641, 11642, 11647

Project Ph-5908

Vicinity of Long Beach, California

October 1960

2. Areal Field Inspection:

Field inspection was done in accordance with Instructions - Project PH-5908, Shoreline Mapping, Long Beach to Laguna Beach, dated 6 January 1960 and Amendment I dated 13 April 1960.

The area around Long Beach Harbor is a highly developed industrial area. The major portion of Terminal Island is occupied by the Long Beach Naval Shipyard and the U. S. Naval Base. The shipyard has extensive ship repair facilities as well as three large drydocks. Considerable change and relocation of buildings, railways, roads and other cultural features is under way in the area to allow land filling to help offset the general land subsidence in this area.

The land subsidence is both vertical and horizontal in nature, the center of the area being near the northeast corner of Terminal Island. The land on the inshore side of the dikes in this area is below sea level at the present time.

Life guard stations along the beach eastward from Rainbow Pier were not indicated for mapping, as they are movable structures.

Field data has been inked on the following color transparencies:

Field data has been inked on the following field photographs:

59 S 8152 thru 8154; 8172; 8178; 8179; 8188 thru 8190; and 8192.

3. Horizontal control:

- (a) No supplemental control was established.
- (b) No datum adjustment's were made by the field party.
- (c) Only control established by the Coast & Geodetic Survey was searched for.

- (d) Stations required by project instructions for control of compilation were recovered and positively identified.
- (e) The following stations were previously reported as lost and no further search was made:

Long Beach, Wilson High School, tower 1933 (The previous recovery note for this station was confirmed)

NEW RIVER 1872 STATION II 1872 STATION III 1872

LOS CERRITOS 1853 Los Cerritos, tank 1920

Long Beach, Catholic Church Steeple, 1920

The station mark at Station LONG BEACH 1920 has been destroyed by a landslide. Both reference marks for this station were recovered in good condition.

4. Vertical Control:

Only the recovery of tidal bench marks was required by project instructions. All tidal bench marks within the sheet limits were searched for and one mark in each group recovered was identified on the field photographs. Fifteen tidal bench marks were recovered and six were not recovered.

Two bench marks not required by project instructions were recovered in connection with the determination of heights of land-marks. They were not identified.

Form 685A, Recovery Note, Bench Mark is submitted for all bench marks searched for.

5. Contours and Drainage:

Contours not applicable.

There are no streams in the area except the Los Angeles River (Los Angeles Flod Control Channel). When the tide is out, the bottom of this channel is bare.

6. Woodland Cover:

There is no woodland cover except shade trees in yards, along streets and in city parks. These are obvious and have not been classified on the photographs

7. Shoreline and Alongshore Features:

(a) The mean high water line has been indicated on the field photographs.

Most of the shoreline in Long Beach Harbor has been stabalized by bulkheads, piers and rip-rap.

The mean high water line eastward from Navy Landing was located by measurements from identifiable points on the photographs. It should be mapped by joining the points so located and not by trying to follow any line on the photographs near these points that might appear to be the mean high water line. Since the date of photography, the beach has been built up by pumping sand from a dredging operation onto the beach. This section of shoreline is unstable and the delineation on the field photographs is correct as of the date of field inspection.

- (b) The low water line was not located.
- (c) The character of the foreshore has been indicated on the photographs.
- (d) There are no bluffs or cliffs adjacent to the shoreline. A bluff extending eastward from the Villa Riviera Hotel to the vicinity of Belmont Pier has been indicated on Photograph 59 S 8190. It is from 110 to 130 meters inshore from the mean high water line.
- (e) Long Beach Harbor is highly developed with numerous piers and wharves which have been indicated on Photograph 59 S 8153. There are numerous small craft moorages in Cerritos Channel. Two of these just east of the Heim Lift Bridge, one on the north side and one on the south side of the channel, were located by Planetable. These are floating piers secured to piling. Finger piers have been symbolized, rather than mapped to scale.

Eastward from Long Beach Harbor is Rainbow Pier, a recreation pier located south of the Long Beach Municipal Auditorium. Farther east along the beach is Belmont Pier, which is also a recreation pier.

- (f) The shore ends of submarine cables have been indicated on the field photographs.
- (g) Two structures designated as Pier F and Pier G were located by planetable on Photograph 59 S 8152. These were under construction at the time of photography and are made of earth fill between boulder rip-rap.

There is a small craft lauching ramp between the Los Angeles River channel and Navy Landing. Navy Landing is approximately 0.4 mile west of Rainbow Pier and is where navy personnel are put ashore for liberty. It is enclosed by concrete piers on the southwest and east sides. The entrance is on the south side. At Navy Landing a new waiting room and lounge, which is a landmark building along the water front, is nearing completion. This was located on Photograph 59 S 8152 by reference measurements to the shoreline.

8. Offshore Features:

Middle Breakwater, a boulder jetty which projects from 8 to 10 feet above mean high water, extends in a general east-west direction across Sheet 11647. The elevation of this structure was determined by hand level.

A navy degaussing range approximately 0.3 mile southwest of Naval Mole Light 5 has been indicated on Photograph 59 S 8153.

Two piling at the navy degaussing range were located by sextant fixes which are recorded on the back of photograph 59 S 8153.

Two offshore obstructions in the form of irregular concrete blocks were indicated on Color Transparency 59 W 7968. They are near Long Beach Channel Daybeacon 13.

Landmarks and Aids:

(a) All charted landmarks were investigated. Those still in existence were identified on the photographs and listed on Form 567 as Landmarks to Be Charted. Charted landmark features that have been removed have been listed on form 567 as Landmarks to Be Deleted.

No new landmarks were selected.

- (b) Large buildings of landmark value and public buildings within the area of interior field inspection were indicated on the field photographs.
- (c) There are no aeronautical aids within the area covered by this report.
- (d) The following fixed aids to navigation were located as triangulation in 1953:

Long Beach Breakwater East End Light (L.L. No. 118).

(Long Beach Breakwater East End Light, 1953)

Long Beach Channel Entrance East Light (L.L. No. 120)

(Long Beach Channel Entrance East Light, 1953)

Long Beach Light (L.L. No. 121)

(Long Beach Light 1953)

These lights were visited and it was ascertained that there have been no changes in location since they were located by triangulation. They are off the limits of photography and are not within the project limits, but are mentioned in Amendment I to the project instructions. They are listed on Form 567 as Nonfloating Aids To Be Charted. No Form 152 is submitted for these objects.

All other fixed aids to navigation have been identified on the photographs and listed on Form 567 as Nonfloating Aids To Be Charted.

(e) At the request of the U. S. Navy, two small buoys marking a degaussing range for smaller ships, located on the west side of the naval base mole, were located by sextant fixes which are recorded on the back of Photograph 59 S 8153. These buoys are charted as piling on C&GS Chart 5148.

10. Boundaries, Monuments and Lines:

Boundaries and monuments not applicable.

The limit lines of Bixby park and Bluff Park in Long Beach have been delineated on Photograph 59 S 8190.

11. Other Control:

No other control was established.

12. Other Interior Features:

Roads and buildings were classified on field photographs.

Bridge and overhead cables and pipeline crossings and overhead cables over navigable waters that already appear on the charts were not re-determined.

The general area of the extensive oil fields have been indicated on the field photographs. There are no offshore wells or drilling derricks in the area.

13. Geographic Names:

Geographic names will be the subject of a special report.

14. Special Reports and Supplemental Data:

(a) Map of Port of Long Beach, dated January 1, 1960.

Approved:

Respectfully submitted:

Charles H. Bishop

red Natella

CAPT, C&GS

Portland District Officer

Charles H. Bishop, Cartographer

Robert B. Melby, Surveying Technician

PHOTOGRAMMETRIC PLOT REPORT

MAP MANUSCRIPT T-11641

PROJECT PH-5908

REFER TO THE PHOTOGRAMMETRIC PLOT REPORT FOR THE ENTIRE

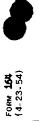
PROJECT BY R. E. FUESCHEL, OCTOBER, 1960. See Desc Report T11640

FORM **164** (4-23-54)

U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY ROL RECORD

IV EWOZ	70NE VI		The state of the s				
STATION		DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS	DATUM	N.A. 1927 - DATUM DISTANCE FROM GALD OR PROJECTION LINE IN METERS FORMARD GRACKS	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
LONG BEACH,		N. A.	587.572.04	(24		72)	
BREAKERS HOTEL, Tower, 1932	ဖ	1927	1,410,537.63			163.9 (1360.1)	
	E			4138.87 (861.13)		1261.5 (262.5)	
FEDERAL BUILDING FLAGPOLE, 1933	P-15	=	1,411,014.95	1014.95 (3985.05)		309.4 (1214.6)	
WATSON JUNCTION,	=		602,529.63	2529.63 (2470.37)		771.0 (753.0)	
	P-14	t t	1,398,129.53	3129.53 (1870.47)		953.9 (570.1)	
WILMINGTON,	11		595,965,59	965.59 (4034.41)		294.3 (1229.7)	_
STACK, 1933	P-14	:	1,396,757.42	1757.42 (3242.58)		535.7 (988.3)	
l 55	11/		4,022,691,73	2691,73 (2308,27)		820.4 (703.6)	
TOWER, 1949	P-16	g Ref	4,215,227.72	.72 (69.4 (1454.6)	
BASE D-1 (ED	Ξ		4,026,827.57	1827.57 (3172.43)		557.0 (967.0)	
CO. LTD) 1949	P-18	<u>.</u>	4,219,073.26	4073.26 (926.74)		1241.5 (282.5)	
BASE D AUX (ED	н	=	4,027,226.48	2226.48 (2773.52)		678.6 (845.4)	
CO. LTD) 1949	Σ	:	4,219,988.67	(4988.67 (11.33)		1520.5 (3.5)	
B.M. S I (USN)	=	1	4,022,536,13	2536.13 (2463.87)		773.0 (751.0)	
1949	P-20	:	4,216,005.52	1005.52 (3994.48)		306.5 (1217.5)	
B.M. 9-2 (USN)	E		4,023,979.83	3979.83 (1020.17)		1213.1 (310.9)	
1949	P_19		4,217,987.04	2987.04 (2012.96)		910.4 (613.6)	Ş
200	=	=	4,024,343,98	4343.98 (656.02)		1324.0 (200.0)	,
B.M. 102, 1949	#	:	4,218,843.67	(3843.67 (1156.33)		1171.6 (352.4)	
B.M. C.9 (USN)	11	=	4,023,783.66	3783,66 (1216.34)		1153.3 (370.7)	
1949	п		4,217,224.38	2224.38 (2775.62)		678.0 (846.0)	
0 M C 274 1040	Ξ	E	4,033,141.77	3141.77 (1858.23)		957.6 (566.4)	
6+61 • 110 O • INIO	P-18		4,219,555,95	4555.95 (444.05)		1388.7 (135.3)	
LFT.=.3048006 METER	C.L.H.	a	3-10-60 10-26-61	CHECKED BY:	0.N.W.	DATE	3-10-60 comm- pc- 57843 11-3-61
COMPUIED DI:							



DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

MAP T-11641: PROJECT NO. PH-5908 SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM	N.A. 1927 - D DISTANCE FROM GA,D OR PROJE	ATUM	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
	(INDEX)			FORWARD	(BACK)		FORWARD	(BACK)	FORWARD (BACK)
M G 615 1010	١١٨	N.A.	4,023,700.14	3700.14	(1299,86)		1127.8	(396.2)	
	P-19	.1927	4,215,609,09) 60.609	(4390.91)		185.7	(1338/3)	
\(\frac{1}{2}\)	=	=	4,025,066.32	66+32	(4933.68)		20.2	(1503.8)	
B.M. 110AL'9, 1948	P-18		4,225,373,21	373,21	(4626.78)		113.8	(1410.2)	
. ~ +	. "	=	4,022,031:52	2031,52	(2968.48)		619.2	(904.8)	
B.M. 1 11, 1949	P-20		4,214,102.92	4102.92	(897.08)		1250.6	(273.4)	
- - - -	=	<u>:</u>	4,021,969,92	1969,92	(3030.08)		600.4	(923.6)	
H. 1 10, 1848	11		4,214,383,32	4383.32	(616.68)		1336.0	(188.0)	
	ξ <u>μ</u> '		4,025,175.58	175,58	(4824.42)		53.5	(1470.5)	
B.M. W 18, 1949	P-19	=	4,219,119,13	4119:13	(880.87)		1255.5	(268.5)	
1	ш	:	4,027,625.08	2625.08	(2374.92)		800.1	(723.9)	4
BR DGE, 1949	P-18		4,215,286,69	.286,69	(4713.31)		1.87.4	(1436.6)	
	и	ш	4,024,526,72	4526.72	(473.28)		1379.7	(144.3)	
UKY, 1849	P_19		4,219,101,79	4101.79	(898.21)		1250.2	(273.8)	
FD 100N 4027	ΙΛ	=	. 586,819,06	1819.06	(3180,94)		554.4	(9.696.)	
EDISON, 1855	P-13		1,399,816,28	4816:28	(183.72)		1468:0	(56.0)	
FORD, 1949	0FF1CE	=	4,029,947.97	4947.97)	(52.03)		1508.1	(15.9)	,
R.M. 3	COMP.		4,218,109.21	109:21	(4890.79)		33,3	(1490.7)	
	. V		4,035,904,72	.904.72	(4095.28)		275.8	(1248.2)	10.
HAST, 1949	P_18	! -	4,221,811.83	1811.73	(3188.27)		552,2	(.971.8)	
	=	=	4,035,906,37	906,37	(4093.63)		276,3	(1247.7)	
ובאט, ופּלָפ	P-16		4,219,789,44	4789:44	(210.56)		1459.8	(64.2)	
		=	. 588,216,64	3216,64	(1783.36)		980:4	(543.6)	
CLUCK TOWER, 1920	P=11		1,409,934,66	4934.66	(65,34)	,	1504:1	(6,61)	
1 FT. = .3048006 METER						• 1			. COMM-DC-57843

11-3-61

DATE

CHECKED BY

DATE 10-26-61

C.H.

1 FT. = .3048006 METER COMPUTED BY:

FORM 164 (4.23.54)

MAP T- 11641

DESCRIPTIVE REPORT U.S. DEPARTMENT OF CONMERCE

ROL RECORD

COAST AND GEODETIC SURVEY

None

SCALE FACTOR

1:19,000

SCALE OF MAP

PH-5908

PROJECT NO....

COMM- DC- 57843 FROM GRID OR PROJECTION LINE IN METERS FORWARD DISTANCE
FROM GALD OR PROJECTION LINE
IN METERS 305,6) 507.9 581.0) (404,8) (159,2)(884.2) 966.0) (126.3) 600.0) (1329.8)(1402.5)518.2) (1431.4) (1100,8) (1329.0) (1342.5)515,5) (1325.9)692.0) (1264.1)393.9) 498,2) 376,7) 480,8) (BACK) N.A. 1927 - DATUM FORWARD 121.5 1043.2) 943.0 92.6 924.0 195.0 1119.2 423.2 181.5 832.0 259.9 194,2 1005.8 1025.8 1147.3 1218.4 364.8 539.8 558.0 1008.5 397.7 198,1 1016.1 1130.1 DATUM CORRECTION OR PROJECTION LINE IN METERS (4601,49) (1666.35)(1634,61) (1327.94)(1700.27)(1235,76) (1002,54) (1906,12) (4696.23)(3611,48) (522,36) (3229.13)(3169.23)(414.49) (1968,58) (4360.08)(1577.46)(4404.58)(1691.38)(4350.10)(2270,22) (4147.26)(4362,72) (1292.46) DISTANCE FROM GRID IN FEET. (BACK) FORWARD 852,74 3299.73 3672,06 1388,52 3333,65 3365,39 3997,46 3093,88 4477,64 3031,42 639.92 3308,62 398.51 3764.24 303,77 1770,87 1830.77 4585.51 3422.54 595,42 649,90 2729,78 637.28 3707,54 LONGITUDE OR x-COORDINATE LATITUDE OR # - COORDINATE 4,218,997.46 588,299.73 583,093.88 4,023,672,06 ,403,333,65 1,403,365.39 4,023,764,24 1,395,303.77 4,226,388.52 4,023,031,42 225,639,92 583,422,54 1,395,595,42 4,023,308,62 4,215,649,90 4,022,729.78 584,477,64 4,215,852.74 4,025,637.28 4,218,707.54 590,398,51 1,396,770,87 4,031,830,77 4,219,585,51 N.A.. 1927 DATUM = = = = = = = = = = = SOURCE OF OFFICE P-106 P-106 (INDEX) P-106 P < 15 COMP. P-18 <u>.</u> - P. 19 = <u>-</u> = P. 19 P-19 P-11 = 5 5 5 = = LONG BEACH, PROCTOR PL 174 (U.P.R.R.) 1933 1949 RED BAND, 1920 MAST ON SIGNAL STATION MACHINE, 1949 GAMBLE 00., 2, 1949 STACK, 1942 MATER JANK. TANK, 1942 TOWER, 1942 STĘEL TANK, LONG BEACH, STOP, 1949 WELL, 1949 TRIPOD 1, MAVY BASE MID, 1949 1949 <u>ა</u> >

1 FT = 3048006 METER C.+H.B.

10-26-61

DATE.

CHECKED BY: J.E.D.

DATE

11-3-61

FORM 164 (4.23.54)

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY

COMM- DC- 57843 FROM GALD OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS 12 (BACK) FORWARD None SCALE FACTOR 32.1) 546.2) (1021.4) (1404.6)498.5) 977.4) (1471.6) (371.0) (1274.9.) (1167.0)(BACK) N.A. 1927 - DATUM FORWARD 119.4 502.6 52,4 1025.5 546.6 1153.0 357.0 977.8 1491:9 249.1 DATUM SCALE OF MAP 1:10,000 (3828,60) (4608.40) (1635.47)(3206.73)(3350.89) (4827.96) (1217.33)(4182.79)OR PROJECTION LINE IN METERS (1791.84)105.27) DISTANCE FROM GRID IN FEET. (BACK) FORWARD 3208,16 1171,40 391.60 4894.73 3364.53 1649.11 172.04 3782,67 1793,27 817.21 PROJECT NO. PH-5908 LONGITUDE OR x COORDINATE LATITUDE OR y-COORDINATE 4,033.208,16 4,026,171.40 4,219,894,73 4,220,172.04 4,215,391,60 4,033,364,53 588,782,67 4,221,793.27 4,026,649,11 1,395,817.21 DATUM N. A. 1927 Ξ = -= Ξ MAP T- 11641 SOURCE OF INFORMATION (INDEX) P. 18 P-18 P_15 = <u>.</u> P17 WIL-H-5 (L,A.00.) W1L_J_3 (L.A.CO.) WIL-J-3A(L.A.CO.) VIL.A. CO.) 1949 WILMINGTON, FORD MOTOR CO., TANK WIL-J-5-AUXX STATION 1949 1949 1949 1933

11=3=61

DATE

J.E.D.

CHECKED BY

10-26-61

DATE

C.H.B

1 FT.=.3048006 METER COMPUTED BY:

COMPILATION REPORT

MAP MANUSCRIPT T-11641

PROJECT PH-5908

31. DELINEATION:

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

32. CONTROL:

DENTIFIED HORTZONTAL CONTROL STATIONS, SUPPLEMENTED BY THE PASS POINTS ESTABLISHED BY THE STEREOPLANIGRAPH BRIDGE PROVIDED ADEQUATE CONTROL:

33. SUPPLEMENTAL . DATA:

Maps of Los Angeles County Nos. 28 and 30, scale 1 inch = 600 feet, compiled by the County Engineer, Nov. 1954, and May 1958.

Map of Los Angeles Harbor, Scale 1 inch = 1600 feet, compiled by Board of Harbor Commissioners, City of Los Angeles, September, 1959.

Map of Port of Long Beach, scale 1 inch = 1100 feet, compiled by City of Long Beach, Harbor Department

34. CONTOURS AND DRAINAGE:

CONTOURS ARE-NOT APPLICABLE.

Drainage was compiled as field inspected and was in agreement with office inspection of the photography and with the U.S.G.S. quadrangle.

35. Shoreline and Alongshore Details:

THE MEAN HIGH-WATER LINE WAS LOCATED AND THE NUMEROUS PIERS AND CULTURAL FEATURES IDENTIFIED BY THE FIELD PARTY AND INDICATED ON THE FIELD PHOTOGRAPHY. THESE DATA WERE ADEQUATE FOR COMPILATION BY THE KELSH OPERATOR.

No LOW-WATER LINE WAS IDENTIFIED AND NONE WAS DELINEATED.

36. Offshore Details:

None.

37. LANDMARKS AND AIDS:

SIXTEEN LANDMARKS ARE INCLUDED IN THE AREA OF THIS MAP MANU-SCRIPT. SEVEN ARE TRIANGULATION INTERSECTION STATIONS. THE REMAINING NINE LANDMARKS WERE LOCATED BY THE KELSH INSTRUMENT OPERATOR.DURING COMPILATION.

ELEVEN AIDS WERE IDENTIFIED BY THE FIELD UNIT AND LOCATED BY KELSH INSTRUMENT. THE 1962 LIGHT LIST INDICATES THREE ADDITIONAL AIDS INCLUDED IN THE LIMITS OF THIS MAP WHICH DO NOT APPEAR ON THE PHOTOGRAPHS AND WERE NOT IN POSITION AT THE TIME OF FIELD INSPECTIONS.

FORMS 567 ARE SUBMITTED.

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38. CONTROL FOR FUTURE SURVEYS:

None.

39. Junctions:

. . .

Satisfactory functions were made with T-11642 to the east, with T-11647 to the south and with T-11640 to west. There is no contemporary survey to the north.

40. Horizontal and Vertical Accuracy:

46. COMPARISON WITH EXISTING MAPS:

Comparison was made with the U.S.G.S. $7\frac{1}{2}$ minute Long Beach, California quadrangle, scale 1:24,000, edition 1949.

47. Comparison with Nautical Charts:

COMPARISON WAS MADE WITH THE FOLLOWING NAUTICAL CHARTS:

Nautical Chart 5101, scale 1:234,270 at Lat. 33° 20' 5th Eo. Jan. 1947, REVISED May 1959.

Nautical Chart 5142, scale 1:80,000 at Lat. 33° $31^{\circ} = 1$ 1st Ed. March 1957, revised Nov. 1959.

Nautical Chart 5147, scale 1:12,000 at Lat. 33° 44° ED. Oct. 1943, Revised Aug. 1962.

Nautical Chart 5148, scale 1:18,000 at Lat. 33° 43' 3rd Ed. May 1957, revised Feb. 1962.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

NONE.

APPROVED:

RESPECTFULLY SUBMITTED:

FRED NATELLA, CAPT, C&GS PORTLAND DISTRICT OFFICER

James L. Harris Cartographer

49. Notes for the Hydrographer:

None.

C&GS FORM 1002			U	S. DEPARTMENT OF COMMERC
111-10-217	PHO	TOGRAMMET	TRIC OFFICE REVIEW	
			11641	
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
X		×		× ×
^ .	:	^	×	^
CONTROL STATIONS				·
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF	6. RECOVERA	BLE HORIZONTAL STATIONS IAN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
×		(Topographi	IAN THIRD-ORDER ACCURACY stations)	None
8. BENCH MARKS	9. PLOTTING		10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
×	FIXES	•	1	A
~	;	×	× ×	None
ALONGSHORE AREAS (Nautice	l Chart Data)			
12. SHORELINE	13. LOW-WATER	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
×	×		None	×
To AIDS TO NAVIGATION	17. LANDMARK	<u></u>	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
×	×			CULTURAL FEATURES
. ^	_		×	<u> </u>
PHYSICAL FEATURES				
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOUR
×			×	None
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
None	None	2	None	×
CULTURAL FEATURES			<u></u>	
27. ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL FEATURES
×	×		×	×
BOUNDARIES	<u> </u>	·		L
31. BOUNDARY LINES None			32. PUBLIC LAND LINES	
TVONE	<u> </u>		Mone	
MISCELLANEOUS 33. GEOGRAPHIC NAMES		34. JUNCTION		35. LEGIBILITY OF THE
×			*	MANUSCRIPT
-		j		×
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION	39. FORMS
None	>	<	×	×
40. REVIEWER	<u> </u>	•	SUPERVISOR, REVIEW SECTION	•
J. L. Harri	S		Leberar	d Deal
			· Feeting	o reserve
41. REMARKS (See attached she FIELD COMPLETION ADDITIO		FIONS TO THE	AANUECDIRT	
42. Additions and correction	s furnished by th	e field complet	ion survey have been applied	to the manuscript. The manu-
script is now complete ex	echt se notee unt		SUPERVISOR	
			1	
43. REMARKS	· · · · · · · · · · · · · · · · · · ·	<u>.</u>	<u> </u>	
4J. KEMARKJ	,		•	
	•		•	
•	4			

COMPILATION RECORD	COMPLETION DATE	RÉMARKS
Alongshore orea for hydro	12/6/62	
-		
Interior details added— Compilation complete	12/6/62	

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IC SURVEY COAST AND GEO

OF COMMERCE U.S. DEPARTMENT

NONFLOATING AIDS CHAMINGGINGENERING FOR CHARTS

STRIKE OUT TWO TO YOUR DEER TRUX TO BE CHARTED

Form 567 (4-51)

24 MAY

PORTLAND, OREGON

1962

I recommend that the following objects which have dangananale inspected from seaward to determine their value as landmarks be charted on (statement shows) the charts indicated.

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

								FRED	FRED NATELLA	Ü	htef o	Chief of Party.
STATE	CALISTONIA			1	POSITION			METHOD			ТИАНО	-
	The state of the s		3	LATITUDE *	LONG	LONGITUDE *		LOCATION	DATE			CHARTS
CHARTING	DESCRIPTION	BIGNAL	•	" D,M. METERS		D. P. METERS	DATUM	BURVEY No.	LOCATION	O N S N I		
Light	Pier A Light	ц 11.5	33 45	14.930	118 12	42.9	N.A. 1927	KELSH INST.	10-21-60	×	×	5183
-										×		5148
LIGHT	NAVY LANDING ENTRANCE SLIGHT	LL 118.7	33 45	40.782 1256.5	118 11	54.886	*	12	ta	××	 	5147 5148
רופת	NAVY LANDING WEST SLIGHT	u 118.8	33 45	1283.8	118 11	57.035	. 10		E .	××		8
LIGHT	NAVAL BASE RANGE FRONT LIBHT	17 tzz	33 45	20.772 640.0	118 13	50.442	В	-8	10-18-60	× ××		52.45
LIGHT	MAYAL BASE RANGE REAR LIGHT	LL 123	33 45	27.556 849.0	118 14	00.330 8.5		•	8	×		8
LIGHT	LONG BEACH CHANNEL LIGHT 10	L 139	33 45	26.634 820.3	118 12	55.306	8	8	10-19-60	××	 	5147
HORN	LONG BEACH, PIER E FOG SIGNAL	L 130	33 45	26.939 830.0	118 13	130	5	B	10-26-60	××	-	8
DAYBEACON	LONG BEACH CHANNEL DAYBEACON 13		33 45	52.840 1628.0	118 13	15.336 390.0	9	8	10-24-60	××		8
LIGHT	LONG BEACH CHANNEL LIGHT 14	LL 134	33 45	53.947	118 13	10.665 274.5	5	e	10-19-60	×		5148
LIGHT	LONG BEACH TURNING BASIN LIGHT 15	LL 135	33 48	07.160	118 13	77.632		8	8	××	-	5147 5148
LIGHT	Pign B Liany	L 155	33 45	28.939 891.6	118 12	31.618 813.7	=	#	10-21-60	××		8
LIGHT	SOUTHWIND MARINA WEST LIGHT	L 151.2		Note:	HESE LI	LI CHTS DO	1 ON	APPEAR ON	3ML	××	-	8
LIGHT	SOUTHWIND MARINA EAST LIGHT	LL 151.3	~		HOTOGRAPHY	AMD	WERE	NOT IN POSI	TION	××		8
					11							

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 6-36, Fig. 79. Positions of charted landmarks and non-floating 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 25412-P61

C&GS FORM 567

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

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NONFLOATING AIDS OROTANDMIKERSFOR CHARTS STRIKE OUT TWO FOR BEDONESE REB TO BE CHARTED TX AESERTABED

PORTLAND. CREGOR

. 1962 21 MAY

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

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

CHARTS Chief of Party. 5147 5148 OFFSHORE CHART TRAHD RECHART ×× LOCATION PHOTOGRAPHY AND WAS MOT IN POSTTION FRED NATELLA NOT APPEAR ON THE AT THE TIME OF PIELD (NSPECTION. METHOD OF LOCATION AND AURVEY No. DATUM HIS LIGHT DOES D. P. METERS LONGTTUBE # POSITION ø D.M. MÉTERS Notes LATTTUDE # 11 151.4 SIGNAL SOUTHWIND MARINA NORTH LIGHT DESCRIPTION CALIFORNIA CHARTING STATE

The data should be Positions of charted 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. landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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

MONTHUM MANDENGER LANDIMARKS FOR CHARTS

STRIKE OUT TWO NO. S. EXCENSION PROP. THE RESIDENCE BY

PORTLAND, OREGON

23 PAY

1962

I recommend that the following objects which have (Assumentabeen inspected from seaward to determine their value as landmarks be charted on (Mattacata from the charts indicated.

The positions given have been checked after listing by

			•					028			Case) of Farry.
STATE	CALIEDRAIA				POSITION		•	METHOD		TRAI	·
			1	LATITUDE*	LON	LONGITUDE #		LOCATION	DATE	HO IN	
CHARTING	DESCRIPTION	BIGNAL	•	" D.M.METERS		D. P. METERS	DATUM	BURVEY No.	LOCATION	MARNO	AFT
MAST	Signal		33 45	12.189	71 81	21.943	N.A.	Tarren	Taller 10 18 85	×:	5147
	7		- 1	5/5.5	ŀ	266.7	1927	0000	-	~	27.0
STACK	STACK, 1942 (BLACK) HT= 98' (103')		33 45		118 14	477.8	•	8	•	××	eni eni
ZAX	BE TANK, 1942			26.153		04.883	t		1	×	5147
(ELEV)	- 1		33 63	_	110 14	125.7	3	•)	×	5148
(ELEV)	Wilhermotop, Ford Notor Co. Tame, 1933 Herisz! (145)		33 46		118 14	17.148			10-10-62	y XOX	1000
TANK (ELEV)	Co., Naves Tank, Heat 52, (1551)		33 46	709.5	118 12	1247.7		to.	•	××	5147
(ELEV)	Red Band, 1920 Heatte! (1101)		33 463	160.0	118112	47.646	6	Ð	9	××	8
TOWER	žω	i	33 45.		118 11	580.1	Đ	6	10-4-62	>	900
-	(THIS IS NOW WILTON HOTEL)	,		-							
S.W. STACK	CONCASTE STACK, SOUTHWEST ONE OF FOUR HY=2471(2371)		33 45	T	118 13	30.61		ь	10-10-60	XX	5147
TOWER	1164 1		SS 45		118 14	19.94	8		6	××	8
TORER	HEER'S COUTH ONE		33 45	55.65	118 14	19.55	6	8	5	x x	8
TAK	CHALLER OF THE MATURAL GAS TANKS Hyer13: (114')		33 46		118 13	07.577		6	8	K X	8
TANK	LARGER OF THE RATURAL GAS TANKS HT=173'(175')	.]	33 46	49.72 1532.0	118 13	133.5	•	0	•	××	8
Note:	BARES OF THESE OBJECTS ARE BELOW	H.H.W.									

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 The data should be landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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 567

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY



STATE STATES TO BE CHARTED ADDRESS REPORTED

STRIKE OUT IWO

PORTLAND, OREGON

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

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

STATE					POSITION			METHOD			TMANS	
	CALIFORNIA		7	LATITUDE	LONG	LONGITUDE #		LOCATION	DATE OF			CHARTS
CHARTING	DESCRIPTION	BIGNAL		" D. M. METERS	•	D. P. METICAS	DATOM	BURVEY No.	LOCATION	HERR		
R. TR.	R. IR. SKELSTON STEEL RADIO MAST (1771)		33 46		118 11	23.13	N.A. 1927	Ken. Ber Imbr.	10-14-60	×	5101	5
TOWER	PRIVATE GENERALION TOWER OF HUGHES ALBERT PLANT HT-50'(64')	~	33 45	78.3	118 13	254.5			10-10-60	××	20 20	<u>.</u>
STACK	g 19		33 45	8.8 8.0	118 12	13.13	•		6	X	000	20-00
TANK	ELEVATED MATER TABE ON PIER A Hyml30'(139')		33 45	_1	119 12	17.26	•	3	•	××	5147	F 22
STACKS	GROUP OF FOUR CONCRETE STACKS H+=267'(237')		See pos or T.		SE STACK		9	•	•	×	25.	Q)
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												•
											<u> </u>	
						1				:		-

USCOMM-DC 16234-P61 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 The data should be landmarks and nonflocting aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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 567

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY



MONTREGRANDS AND LANDINARKS FOR CHARTS

I recommend that the following objects which that the not been inspected from seaward to determine their value as landmarks be the transfer (deleted from) the charts indicated. STRIKE OUT TWO Menericanical Manager TO BE DELETED

The positions given have been checked after listing by _

PORTLAND, OMERON

J. L. HARRIS

								9	MATERIA		Alef	Chief of Party.
STATE	CALICOCALA				POSITION			METHOD			TRANS	
	Vine Court		3	LATITUDE #	PONG	CONGITUDE +		LOCATION	DATE OF	98 CH		CHARTS
CHARTING	DESCRIPTION	BIGNAL	•	D.M.METERS	•	D. P. METERS	DATUM	SURVEY No.	LOCATION			
STAND.	THIS OBJECT HAS BEEN DESTROYED	ł	33 45.9	:	118 13.3					××	<u> </u>	5147
TANK (ELEV)	THIS OBJECT HAS SEEN DESTROYED		53 45.0	-	118 12.					××	<u></u>	51 47 51 45
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USCOMM-DC 16234-P61 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 The data should be landmarks and nonfloating sids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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

48. Geographic Names List

Cerritos Channel

Channel No. 2

Channel No. 3

Consolidated Slip

Dominguez Channel

East Basin

Inner Harbor

Long Beach

Los Angeles River

Middle Harbor

Palm Beach Park

Rainbow Pier

San Pedro Bay

Terminal Island

Turning Basin

West Basin

Leographic Names Section
April 1963

Review Report Shoreline Maps T-11641 thru T-11643, T-11647 and T-11648 June 1963

61. General Statement

These are five (5) shoreline maps of project PH-5908, Long Beach to Laguna Beach, California. These maps were prepared primarily for location of all non-floating aids and landmarks for use in the revision of our Nautical Charts.

62. Comparison with Registered Topographic Surveys

T-5032	1:10,000	1933
T-5033A	1:10,000	1934
T-5034A	1:10,000	1934

The shoreline ingsome areas has built out as much as 200 meters. In the vicinity of Lat. 33°45', Long. 118°13.5' (San Pedro Bay Area) the water front has been almost completely rebuilt. These maps are to supersede the above surveys for common area for Nautical Charting.

63. Comparison with Maps of Other Agencies

Seal Beach, Calif.	1:24,000	U.S.G.S.	1949
Los Alamitos, Calif.	1:24,000	U.S.G.S.	1949
Long Beach, Calif.	1:24,000	U.S.G.S.	1949

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

64. Comparison with Contemporary Hydrographic Surveys

None.

65. Comparison with Nautical Charts

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

There are no differences of importance between the charts and the subject manuscripts.

66. Adequacy of Results and Future Surveys

These surveys were prepared according to project instructions and are within the required accuracy for Nautical Charting.

Reviewed by:

Approved by:

Chief, Operations Division

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS And British After Verification Review Inspection Signed Via
5/42	10.2.65	600 14/20000 is	and a Refore After Verification Review Inspection Signed Via
		1707	Drawing No. Ean No Con
,			T. H.D., D.G., AGA, W., G., and D., i. Januari, Circul Wi-
			Full Part Before After Verification Review Inspection Signed Via
-			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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