REPORT

COMPLETE WORKS - SEACOAST FORTIFICATIONS

(Gun and Mortar Batteries)

Form 1.

Battery commenced: Oct. 15, 1925
Battery completed: Feb. 20, 1926
Date of transfer: 
Material of construction: Concrete (reinforced)
Portland or Rosendale cement: Portland
Cost to date of transfer: $914.00
Connected to water supply: No
Connected to sewer: No
Type of latrine: None
Type of data transmission: Telephone
Trunnion elevation in battery: 75.65
Datum plane: M.L.L.W.

Sources of electric current: Gasoline engine - generator set
Max. kw. required for lights: 0.57 kw
Max. kw. required for motors: 50 kw
Present condition of battery: New
Rooms wet or dry: No rooms
How ventilated: 

ARMAMENT

<table>
<thead>
<tr>
<th>Emplacement or mortar No.</th>
<th>Cal.</th>
<th>length</th>
<th>Model</th>
<th>Serial No.</th>
<th>Manufacturer</th>
<th>Mounted Type Model Serial No.</th>
<th>Manufacturer</th>
<th>Motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>50</td>
<td>715.2&quot;</td>
<td>1920 MII</td>
<td>7</td>
<td>Watervliet</td>
<td>Feb. 20; Ry: 1920</td>
<td>1</td>
<td>Watertown</td>
</tr>
</tbody>
</table>

HOISTS

<table>
<thead>
<tr>
<th>Emplacement Number</th>
<th>Type</th>
<th>Delivery</th>
<th>Serial No.</th>
<th>Maker</th>
<th>H.P.</th>
<th>Volts</th>
<th>RPM</th>
<th>Type of control</th>
<th>Date of transfer</th>
<th>Remodeled</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Crane Back</td>
<td>922815</td>
<td>GE</td>
<td>15</td>
<td>110</td>
<td>500</td>
<td>Controller and hand</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* This gun now mounted in Emplacement No. 2. See Form 1 on Platforms No. 2 & 3 dated July 23, 1942.
** Emplacement to be abandoned. No further use of basc ring and pipe other than conversion.
See 400, 95 (L4) C01129927

COAST DEFENSES OF Los Angeles, Calif.

FORT MacArthur

** BATTERY 14 In Gun, Ry. Mount.

No. of guns: 1 Caliber 50 Carriages NY.
FORT MACARTHUR, Calif.  
May 8, 1936.

NOTE FOR REPORT COMPLETED WORKS.


Gun No. 1 - Mount No. 4


Train consisted of Gun & Mount, 1-40' flat car, 1-40' side opening automobile car and 1 tourist car.

Total weight 730,000 lbs. including parts for permanent emplacement.

Cost of Shipment $3,519 (about).

Average speed of travel, 6.3 m/hr.

Time of travel 3 d. 1 hr. 30 m. Distance 471 mi.

J.C. Letts,  
Principal Engineer.
APPROACH TRACK

Material: 90-lb. A.S.C.E. rail, wooden ties, stone ballast
Length: 2,760' (approximately)

URGENT
1 - steel, single-span, I-beam bridge, reinforced concrete foundation on wood piling
1 - 54-inch reinforced concrete pipe storm drain (under bridge)
3 - 24-inch reinforced concrete pipe culverts
5 - 18-inch reinforced concrete pipe culverts
3 - 12-inch reinforced concrete pipe culverts

Total cost to date: $35,354.30

UNDERPASS AT 22D STREET

Material: Reinforced concrete
Dimensions: Length (over-all): 60' 7"
Clearance (above track): 22' 0"
Width (inside): 18' 0"

Total cost to date: $34,661.42

(Not transferred. Proposed to be ultimately deeded to City of Los Angeles, California, in return for maintenance and repair.)

GRAND TOTAL COST TO DATE: $70,015.72

APPENDIX - CROSS SECTION

APPROACH TRACK and UNDERPASS
FORT MACARTHUR - LOWER RESERVATION
U.S. Engineer Office, Los Angeles.
HARBOR DEFENSES OF LOS ANGELES, CALIFORNIA.
FORT MAC ARTHUR
FIRING PLATFORM
No. of guns-TWO. Caliber-14 INCH. Carriage-RY.

Note:
Each firing platform enclosed by No. 6 ga.
woven wire mesh fence 84" high. 14-150
watt lights mounted on top.

ELEVATION C-C.

SECTION B-B.

VICINITY SKETCH

LOCATIONS OF TWO FIRRING PLATFORMS

SCALE ~ FEET

Corrected to July, 20 1942

FORM 7.

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS.
BATTERY PLAN.
REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Gun and Mortar Batteries)

Form 1 Corrected to July 23, 1942

GENERAL:
Battery commenced: March 1937
Battery completed: June 1937
Date of transfer: April 21, 1942
Cost to date of transfer: $27,684.14
Materials of construction: Reinforced concrete on piling
Type of cement: American Modified Portland

WATER & SEWER:
Connected to water supply: No
Connected to sewer: No
Type of latrine: None
Trunnion elevation in btry.: (Block #1 = 29.253)
Datum plane: M.L.L.W.

M. of guns: 2
Caliber: 50
Carriage: Railway

ELECTRIC CURRENT:
Sources of: Commercial
Max. kw. required for lights: 15 kw.
Max. kw. required for motors: None

NOTE:
Co-ordinates:
Gun No. 2 S 1588.84 W 3751.14
Gun No. 3 S 792.91 W 3752.26

Origin of U.S.E.D.
co-ordinates is U.S.C & G.S. Station "R" (Deadman's Island)

Elevation top of base plate:
Gun No. 2 - 14.003
Gun No. 3 - 13.978

No. 2 Gun originally on emplacement No. 1, completed February 1926
*Cost to date includes fence and lighting

ARMAMENT

<table>
<thead>
<tr>
<th>Guns or Mortars</th>
<th>Carriages</th>
</tr>
</thead>
<tbody>
<tr>
<td>or mortar No.:</td>
<td>Type: Model</td>
</tr>
<tr>
<td>Cal.: length: model: Serial No.: Manufacturer: Mounted:</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>50:715.2;1920 M II: 7</td>
</tr>
<tr>
<td>3</td>
<td>50:715.2;1920 M II: 10</td>
</tr>
</tbody>
</table>

HOISTS

Emplacement: Motor: Remodeled for
Number: Type: Delivery: Serial No.: Maker: H.P.: Volts: RPM: Type of control: Date of transfer: long points

Sec. 1275 12/3/45
REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS

Form 6  Corrected to July 17, 1942

HARBOR DEFENSES OF LOS ANGELES, CALIFORNIA
FORT MAC ARTHUR - LOWER RESERVATION (14-INCH RAILWAY BATTERY)
ENGINEER DEPARTMENT STRUCTURES - APPROACH TRACK AND UNDERPASS

APPROACH TRACK

Material: 90-lb. A.S.C.E. rail, wooden ties, stone ballast
Length: 2,760' (approximately)

1 - steel, single-span, I-beam bridge, reinforced concrete foundation on wood piling
1 - 54-inch reinforced concrete pipe storm drain (under bridge)
3 - 24-inch reinforced concrete pipe culverts
5 - 18-inch reinforced concrete pipe culverts
3 - 12-inch reinforced concrete pipe culverts

Total cost to date: $35,354.30

UNDERPASS AT 22D STREET

Material: Reinforced concrete
Dimensions: Length (over-all): 60' 7"
Clearance (above track): 22' 0"
Width (inside): 18' 0"
Total cost to date: $34,661.42

(Not transferred. Proposed to be ultimately deeded to City of Los Angeles, California, in return for maintenance and repair.)

Grand total cost to date: $70,015.72
14-INCH GUN RAILWAY MOUNT MODEL OF 1920
TRAVELING WEIGHT 730,000 LBS.

LOAD AT RAILS IN POUNDS

ALL DIMENSIONS IN INCHES.

14-INCH GUN, MODEL OF 1920 MII
(CLASS 61 - DIV. 19 - DRG. 1)
LENGTH: 50
WEIGHT (WITH B.B. & BAND) LBS: 233,782
MUZZLE VELOCITY FT. SEC: 26.50
RANGE 15° ELEV.: YDS: 23,300
RANGE 45° ELEV.: YDS: 45,000
WEIGHT OF PROJECTILE LBS: 1560
WEIGHT OF POWER CHARGE LBS: 46.3
CHAMBER PRESSURE LBS. SQ. IN: 38,000
MUZZLE ENERGY F.T. (LONG) TEN: 76,035

14-INCH GUN RY. MT. MODEL OF 1920
(CLASS 11 - DIV. 24 - DRG. 5)
TYPE: RAILWAY CARRIAGE
LOADING ANGLE: -7°
MAX. FIRING ANGLE (EMPLACED) +50°
MAX. FIRING ANGLE (ON TRACK) +50°
MT. TRAVERSE (EMPLACED) 360°
TOP CARR. TRAVERSE (ON TRACK) 7°
WT. OF TIPPING PARTS LBS: 296,968
WT. OF RECOILING PARTS LBS: 243,866
NO. OF RECOIL CYLINDERS: 2 LONG & 2 SHORT
RECUPERATOR: 2 PNEUMATIC CYLINDERS
TOTAL ROD PULL O. ELEV. LBS: 918,828
50° ELEV. 1,056,640 LBS.
WT. OF TRAVERSING PRT. (TOP CARRIAGE) 354,600 LBS.
MT. MINUS TRUCKS: 594,000 LBS.
SPAN BOLSTERS & POWER PLANT

8 WHEEL TRUCK "A"
(CLASS 15 - DIV. 22514 - DRG. 2)
WEIGHT OF TRUCK LBS: 30,040
DIA. OF WHEELS (ALL TRUCKS) INCHES: 30
SIZE OF JOURNALS (ALL TRUCKS) INCHES: 6 X 11
WEIGHT OF SPAN BOLSTER LBS. FRONT 19840
REAR 10755

8 WHEEL TRUCK "B"
(CLASS 15 - DIV. 22515 - DRG. 2)
WEIGHT OF TRUCK LBS: 25,320

6 WHEEL TRUCK "C"
(CLASS 15 - DIV. 22517 - DRG. 2)
WEIGHT OF TRUCK LBS: 19,300

6 WHEEL TRUCK "D"
(CLASS 15 - DIV. 22516 - DRG. 2)
WEIGHT OF TRUCK LBS: 23,540
TRUCKS "A" & "D" EQUIPPED WITH AIR AND HAND BRAKES AND DRAFT GEAR.
TRUCKS "B" & "C" EQUIPPED WITH TRANSLATING MECHANISM.