

600.714 (San Fran) 102114

SECRET

SP-1

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS

HARBOR DEFENSES OF SAN FRANCISCO  
FORT FRANK VALLEY  
STRUCTURE 41

PART II

Corrected to April 1944

STRUCTURE: x...  $122^{\circ} 35' 03.304''$   
 Location (by coordinates) y...  $37^{\circ} 51' 44.617''$   
 Location (by site description) On Pt. at Frank Valley  
 Date of transfer... 14 November 1941\*  
 Cost to that date... \$2,845.09\*  
 Type (for observing stat. -- tower, dug-in, cottages, etc.)... Dug-in  
 Type of construction...  
 (a) Roof... Reinforced concrete and steel dome  
 (b) Remainder of bldg... Reinforced concrete  
 How concealed... Earth cover and camouflage  
 How protected... Earth cover and steel dome 1" thick  
 Height above concealment... Not above concealment  
 Height above protection... Not above protection  
 Conspicuous at... 400 yards... Not conspicuous from sea.

INSTRUMENTS & EQUIPMENT:  
 Type of observing inst. D.P.F. Lewis H 1902 DIME242  
 Type of plotting board None

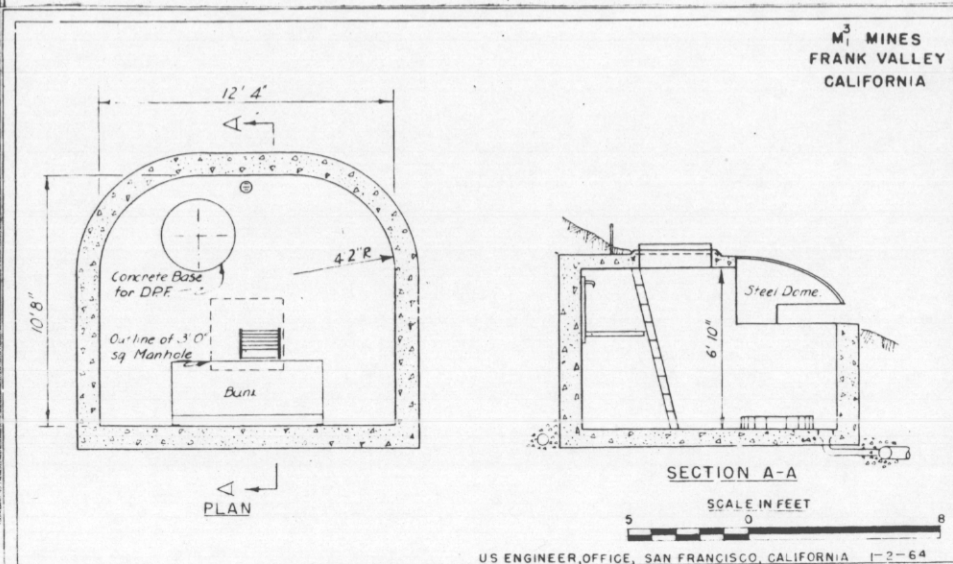
DATA TRANSMISSION:  
 Type... (Telephone installed by Signal Corps)  
 Date of transfer

TIDE STATION:  
 Give description of tide gauge

\*See reverse side for statement of work done in 1943 and 1944.

UTILITIES:  
 Electric Power... None  
 Source of... None  
 Characteristics: Voltage... Ac or DC..Phase...  
 Kilowatts required...  
 Type of lighting fixtures... None  
 Heat  
 How heated... Not heated  
 Water Sewer  
 Connected to water mains... No  
 Connected to sewer... No  
 Type latrine... None

REFERENCE:  
 Reference of site...  
 Reference of instrument axis... 489.70 MLLW  
 Elev. inst. pedestal 485.25 (Corrected Sept. '43.)



ED Form A-162B  
16 Sept. 1943

FS1051

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Work Accomplished in 1943

This station uncovered, raised and relocated in new excavation, reoriented and at a higher elevation in July 1943. Backfill replaced and structure reconcealed in new location.

Coordinates and elevations as shown on this sheet are for new location.

Cost reorientation. . . . . \$2,096.48

Date of transfer of this work - 8 January 1944

Job No. Frank Valley FS-1, Dir. Cons. FS-1051.

Dir. Ref. - ltr. dated O.C.R., 26 May 1943 subject: Constr. Pert. to Sub. Mine Project, H.P.S.F., file C. of E. 663 (San Francisco) Ref. C.M. 99872 SPEN.

Work Accomplished in 1944

Station wired with #14 R/L in 3/4" E.M.T. and connected to Power House by direct burial cable (See Report of Completed Work, Part II, modified, for Power House, showing size of U.C. cable switching instructions, cost and other information).

Power furnished by 2 - 9 KVA 125 V generators installed in new Power House, built under this Job No.

120 V 1 phase circuit.

Type CSU-1 light fixture installed.

1 Gross Wires panel WWS 46-1-33-20 W installed.

Date of transfer of this work 22 May 1944

Approximate cost of wiring to date of transfer - \$171.72

This is a portion of Job No. S.F. FS-21 Dir. Cons. FS 1254

NOTE: Above cost includes wiring and fixtures only. Cost of cables and trenching are included with Power House.

OFFICE DIVISION  
PACIFIC DIVISION  
JUN 14 1944  
SAN FRANCISCO CALIF



600,914 (San Fran) CM 77816

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SPEKM-1

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS  
Mines-Fire Control Station

HARBOR DEFENSES OF SAN FRANCISCO.....  
FORT Frank Valley.....  
STRUCTURE M1 Mine Sta.....

PART II Corrected to September 1943

77816

STRUCTURE: x. 122° 35' 03.304".....  
Location (by coordinates) y. 37° 51' 44.617".....  
Location (by site description) On Pt. at Frank Valley.....  
Date of transfer Nov. 14, 1941 \*See note.....  
Cost to that date \$2,845.09 \*See note.....  
Type (for observing stat.--tower, dug-in, cottages, etc.) Dug-in.....  
Type of construction.....  
(a) Roof Reinforced concrete & steel.....  
(b) Remainder of bldg. Reinforced concrete.....  
How concealed Earth cover & Camouflage.....  
How protected Earth cover & steel dome 1" thick.....  
Height above concealment Not above concealment.....  
Height above protection Not above protection.....  
Conspicuous at 400 yards Not conspicuous from sea.....

INSTRUMENTS & EQUIPMENT:  
Type of observing inst. DPF Lewis M1902 - DMM 242.....  
Type of plotting board None.....

DATA TRANSMISSION:  
Type (Telephone installed by Signal Corps.).....  
Date of transfer.....

TIDE STATION:  
Give description of tide gauge.....

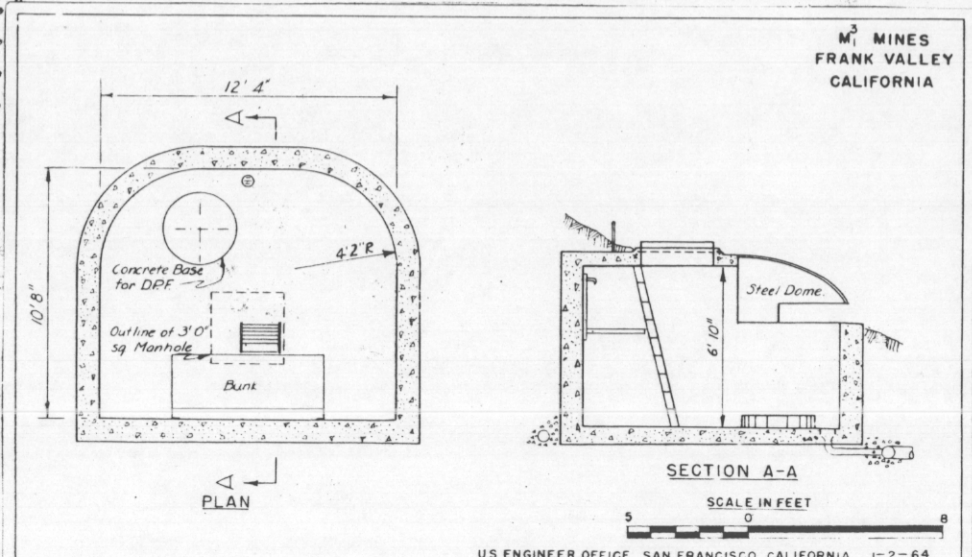
\*See reverse side for statement of work done in 1943.

UTILITIES:  
Electric Power None.....  
Source of None.....  
Characteristics: Voltage --- Ac or DC Phase ---.....  
Kilowatts required ---.....  
Type of lighting fixtures None.....  
Heat.....  
How heated Not heated.....  
Water Sewer.....  
Connected to water mains No.....  
Connected to sewer No.....  
Type latrine None.....

REFERENCE:  
Reference of site ---.....  
Reference of instrument axis 489.70 MLLW = 0.0.....  
Elev. Inst. Pedestal 485.25 (Corrected September '43.)

FD Form A-162B  
16 Sept. 1943

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This station uncovered, raised and relocated in new excavation, reoriented and at a higher elevation in July 1943. Backfill replaced and structure recamouflaged in new location. Coordinates and elevations as shown on this sheet are for new location.

Cost reorientation was . . . . \$2,096.48

Date transfer of this work is 8 January 1944.

Job No. Frank Valley FS-1, Dir. Cons. #FS1051  
Dir. Ref. - Ltr. dated OCE 26 May '43. Sub: Const.  
Part. to Sub. Mine Proj., H.D.S.F., file C of E  
663(San Francisco)Ref. CM39872 SPEKM.

including repair  
of building  
of each  
of the  
of the

65-4083  
OFFICE DIVISION ENGINEER  
PACIFIC DIVISION  
JAN 21 44 - 10 50 AM  
SAN FRANCISCO CALIF

SECRET

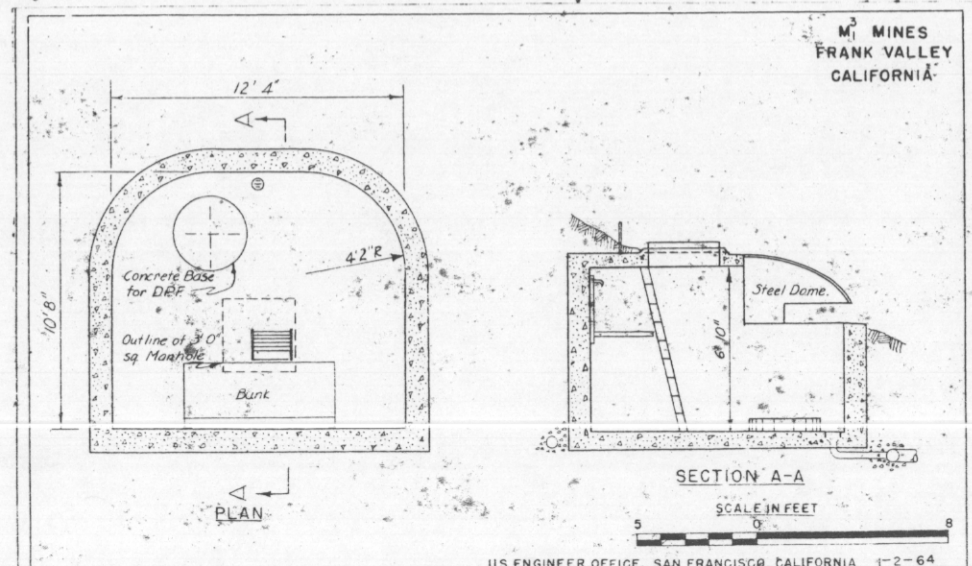


REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS  
(Fire Control Structure)

COAST DEFENSES OF San Francisco  
Frank Valley, California  
STRUCTURE M<sub>1</sub><sup>3</sup> Mines

Form 2 Corrected to November 14, 1941

STRUCTURE	:	:	:TYPE OF DATA TRANSMISSION	:
Location	:Frank Valley, California	:	:Type of transmission equipment	:Telephone (installed by
Date of transfer	:November 14, 1941	:	:Date of transfer	:Signal Corps)
Cost to that date	:\$2,845.09	:	:Cost of data transmission	:
Type of construction	:	:	: equipment	:
(a) Roof	:Reinf. conc. & steel dome	:	:For tide stations give descrip-	:
(b) Remainder of bldg.	:Reinforced concrete	:	: tion of tide gauge	:
How concealed	:Earth cover, vegetation, & camou-	:	:For datum points give Forts	:
	: flage dome	:	: from which visible	:
How protected	:Earth backfill and one-inch thick	:	:For dormitories give stations	:
	: steel dome	:	: served	:
Height above concealment	: Not above concealment	:	:For cable hut give S.C. type	:
Height above protection	:Not above protection	:	:	:
Conspicuous at <u>400</u> yds.	:Not conspicuous from sea	:	:	:
ELECTRIC ENERGY	:	:	:	:
Source of electric current	:None	:	:	:
Kilowatts required	:None	:	:	:
Type of lighting fixtures	:None	:	:	:
HEAT	:Not heated	:	:	:
How heated	:	:	:	:
WATER AND SEWER	:	:	:	:
Connected to water mains	:No	:	:	:
Connected to sewer	:No	:	:	:
Type of latrine	:None	:	:	:
Perm. or temp. installation	:Perm.	:	:	:
Present condition	:New	:	:	:
REFERENCE	:	:	:	:
Reference of site	:Lat. 37°51' 44.612" Long. 122°35'	:	:	:
	: 02.886"	:	:	:
Reference of Inst. Axis	:Elev. 480.68' M.L.L.W.	:	:	:
Elev. of Inst. Pedestal	:476.17' M.L.L.W.	:	:	:
Type of observing inst.	:D.P.F. Lewis M1902 No. DIM 242	:	:	:
Type of plotting board	:No plotting board	:	:	:
Type & capacity of crane	:No crane	:	:	:
Max. dim. of reel handled	:No reel	:	:	:



*Superseded - see Form # corrected to Sept 43*

600.914 (San Fran) 102114

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SPERM-1

102114

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS  
(Power Station for Fire Control Stations)

HARBOR DEFENSES OF SAN FRANCISCO  
~~FRANK VALLEY~~ FRANK VALLEY, CALIFORNIA  
STRUCTURE POWER HOUSE (2 - UNIT)

PART II (Modified) Corrected to April 1944

STRUCTURE:

Location (by site description). Frank Valley  
Date of transfer. 22 May 1944  
Cost to that date. \$2,327.71 (incl. cables & trenching)\*  
Type (for observing stat. -- tower, dug-in, cottages, etc.). Dug-in  
Type of construction.  
(a) Roof. Reinforced concrete  
(b) Remainder of bldg. Reinforced concrete  
How concealed. Earth backfill & vegetation  
How protected. Earth backfill  
Height above concealment. Not above concealment  
Height above protection. Not above protection  
Conspicuous at. 200 yards. Not conspicuous from sea or air.  
Entrance not concealed /

UTILITIES: (Electrical and Power Distribution)

Commercial Power. None  
Generated Power. Yes  
Source of Power. from two generators installed  
Characteristics: Voltage. 120 AC ~~or DC~~ Phase 1  
Hilowatt output. 0.1 for Power House = 2.05 for other 4 stations.  
Number of generator sets installed. Two  
Type and rating of generators. 3 KVA 125 V 3/ 60 cy.  
Generator serial No. 6523 & 6527  
Furnished by. Signal Corps installed by. USMC  
Type of lighting fixtures. CSE-1  
Generator sets provide power for the following Stations: B32 Smith, B34 Wallace B55 213 & 214

Type of switch installed. One 30 A. - 2 pole double throw Trumbull Co., Cat. #702216.  
Type and kind of power cable of each location. 2 - #8 direct burial 1/c 600 V cable from Power House to each of above listed stations.  
Number and Type of Transformers. None  
Switching instructions. Load can be transferred from one generator to the other by throwing 2 - pole switch installed on wall.

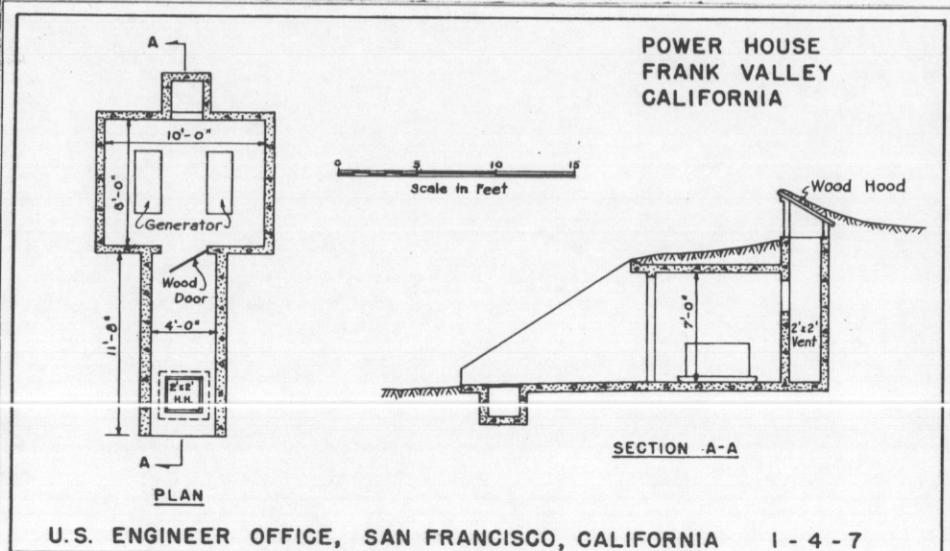
REFERENCES:

Reference of site. 478.0 (0.00 at MLLW)  
Floor elevation. 472.0 MLLW

REMARKS

\*Cost is portion of total amount of \$40,670.00, set up for Job No. S.F. FS-21, Dir. Cons. FS 1254. See Part II, for B.C. Stations mentioned above for cost of wiring.  
Scar areas replanted with barley and rye.

ED Form A-162B



FS-1254

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600.914 (San Fran) 102114

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SPERM-1

102114

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS  
Fire Control Station

HARBOR DEFENSES OF SAN FRANCISCO  
FORT FRANK VALLEY  
STRUCTURE B<sup>2</sup>S<sup>2</sup> SMITH at Battery

PART II Corrected to April 1944

STRUCTURE: x... 122° 35' 04.676"  
 Location (by coordinates) y... 37° 51' 45.183"  
 Location (by site description) Frank Valley, Calif.  
 Date of transfer 14 November 1941  
 Cost to that date \$3,182.80  
 Type (for observing station, tower, dug-in, cottages, etc.) Dug-in  
 Type of construction  
 (a) Roof Reinforced concrete and steel dome  
 (b) Remainder of bldg. Reinforced concrete  
 How concealed Earth cover, vegetation and camouflaged  
 How protected Earth backfill and 1" thick steel dome  
 Height above concealment Not above concealment dome  
 Height above protection Not above protection  
 Conspicuous at 400 yards Not conspicuous from sea.

INSTRUMENTS & EQUIPMENT: D. P. Lewis M 1907 No. DMM  
 Type of observing inst. 210  
 Type of plotting board Pler mount installed for model 1910 Azimuth instrument.  
 (None)

DATA TRANSMISSION: Telephone installed by Signal Corps.  
 Type  
 Date of transfer

TIDE STATION:  
 Give description of tide gauge

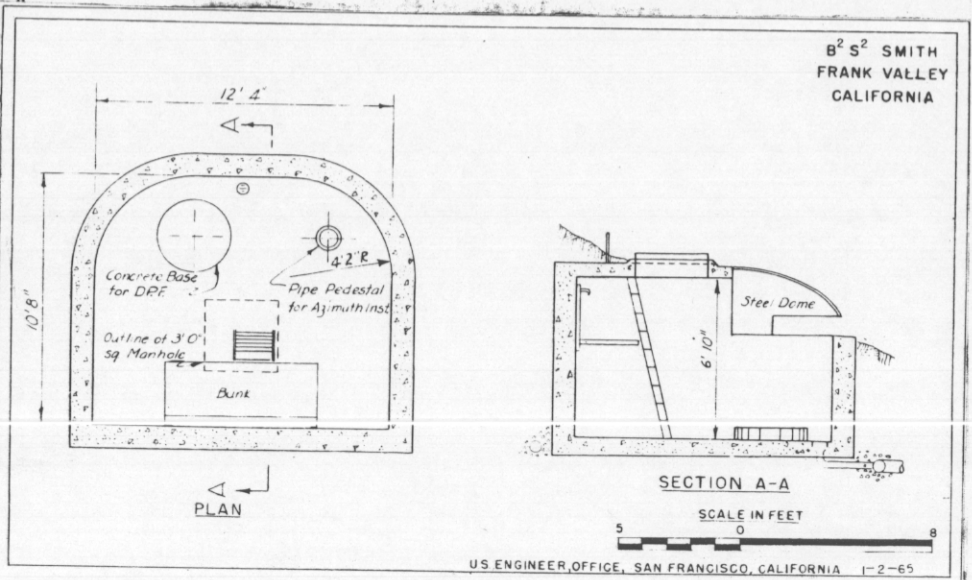
Permanent or temporary installation. Permanent  
 Present condition. New  
 \*See reverse side for statement of work done in 1944.

UTILITIES:  
 Electric Power  
 Source of None  
 Characteristics: Voltage Ac or DC..Phase  
 Kilowatts required None  
 Type of lighting fixtures None  
 Heat  
 How heated Not heated  
 Water Sewer  
 Connected to water mains No  
 Connected to sewer No  
 Type latrine None

REFERENCE:  
 Reference of site  
 Reference of instrument axis Elev. 480.30 (MLLW)  
 Elev. of Inst. Pedestal = 475.30 (MLLW)

ED Form A-162B  
16 Sept. 1943

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SPEK-1

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS  
**Fire Control Structure**

HARBOR DEFENSES OF SAN FRANCISCO.....  
~~FORT~~ **FRANK VALLEY**  
STRUCTURE. **B4S4 WALLACE** at *Berry*

PART II Corrected to **April 1944**

STRUCTURE: x... **122° 35' 04.529"**  
 Location (by coordinates) y... **37° 51' 45.326"**  
 Location (by site description) **Frank Valley, Calif.**  
 Date of transfer. **November 14, 1941 \*See note**  
 Cost to that date. **\$3,044.55 \*See note**  
 Type (for observing stat. -- tower, dug-in, cottages, etc.) **Dug-in**  
 Type of construction.  
 (a) Roof **Reinforced concrete & steel dome**  
 (b) Remainder of bldg. **Reinforced concrete**  
 How concealed **Earth cover, vegetation camouflaged**  
 How protected **Earth cover and one inch steel dome**  
 Height above concealment **Not above concealment**  
 Height above protection **Not above protection**  
 Conspicuous at **400** yards **Not conspicuous from sea.**

INSTRUMENTS & EQUIPMENT:  
 Type of observing inst. **(D. P. F. MI Class 5 #129**  
 Type of plotting board **also pier mount for model**  
**(None) 1910 Azimuth Inst.**

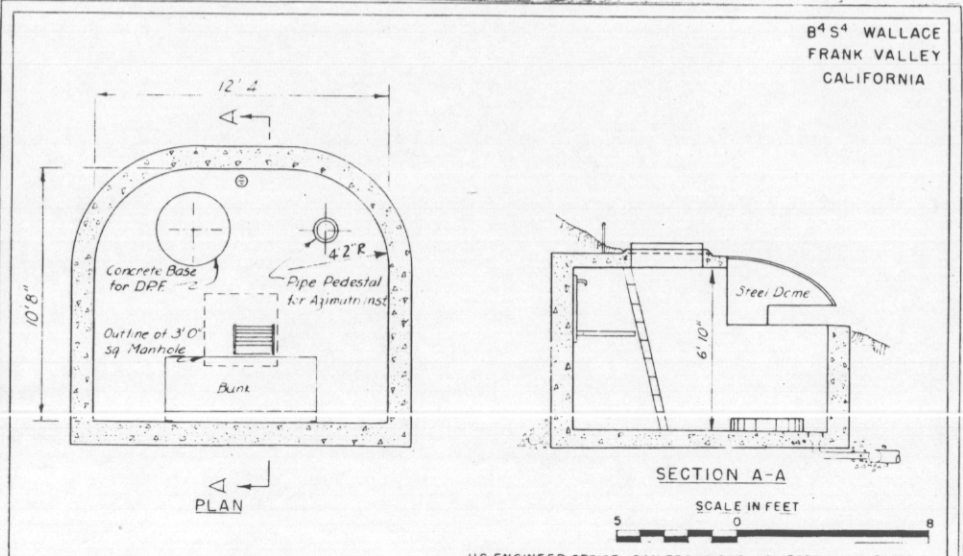
DATA TRANSMISSION:  
 Type .....  
 Date of transfer .....

TIDE STATION:  
 Give description of tide gauge .....

Permanent or temporary installation. -- **permanent.**  
 Present condition **New**  
 \*See reverse side for statement of work done in 1944.

UTILITIES:  
 Electric Power .....  
 Source of **None**  
 Characteristics: Voltage... **Ac** or DC.. Phase.....  
 Kilowatts required... **None**  
 Type of lighting fixtures... **None**  
 Heat  
 How heated **Not heated**  
 Water Sewer  
 Connected to water mains... **No**  
 Connected to sewer... **No**  
 Type latrine **None**

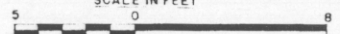
REFERENCE:  
 Reference of site.....  
 Reference of instrument axis. **Elev. 485.77 (MLLW)**  
 Elevation of Inst. pedestal **481.23 (MLLW)**



B4S4 WALLACE  
FRANK VALLEY  
CALIFORNIA

SECTION A-A

SCALE IN FEET



SECRET

ED Form A-162B  
16 Sept. 1943

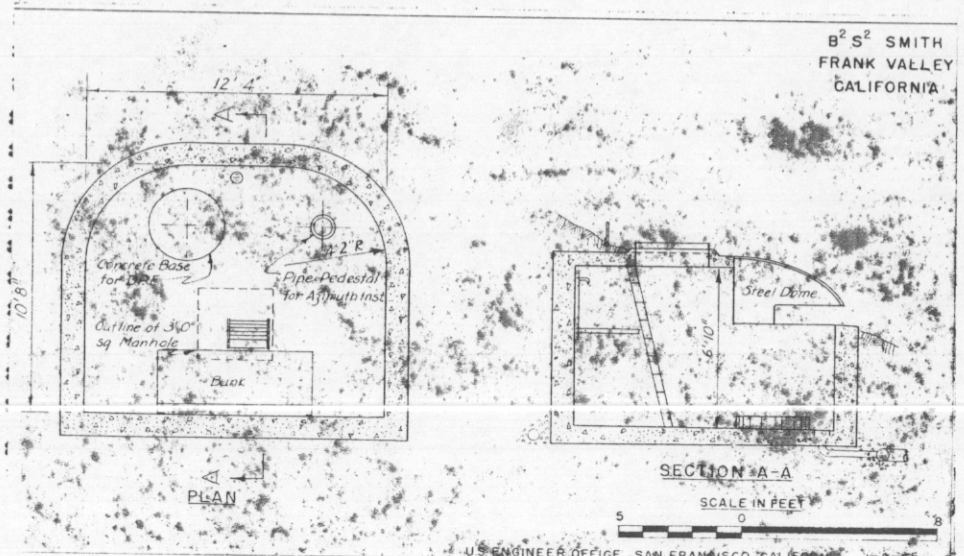


REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS  
(Fire Control or Torpedo Structures)

COAST DEFENSES OF San Francisco  
Frank Valley, California  
STRUCTURE B<sup>2</sup>S<sup>2</sup> Smith *at Barry*

Form 2. Corrected to November 14, 1941

STRUCTURE	:	: TYPE OF DATA TRANSMISSION	:
Location	: Frank Valley, California	: Type of transmission equipment	: Telephone (Installed by
Date of Transfer	: November 14, 1941	: Date of transfer	: Signal Corps)
Cost to that date	: \$3,182.80	: Cost of data transmission	:
Type of construction	:	: equipment	:
(a) Roof	: Reinf. conc. & steel dome	: For tide stations give descrip-	:
(b) Remainder of bldg.	: Reinforced concrete	: tion of tide gauge	:
How concealed	: Earth cover, vegetation and camou-	: For datum points give Forts	:
	: flaged dome	: from which visible	:
How protected	: Earth backfill and one-inch thick	: For dormitories give stations	:
	: steel dome	: served	:
Height above concealment	: Not above concealment	: For cable hut give S.C. type	:
Height above protection	: Not above protection	:	:
Conspicuous at <u>400</u> yds.	: Not conspicuous from sea	:	:
ELECTRIC ENERGY	:	:	:
Source of electric current	: None	:	:
Kilowatts required	: None	:	:
Type of lighting fixtures	: None	:	:
HEAT	:	:	:
How heated	: Not heated	:	:
WATER AND SEWER	:	:	:
Connected to water mains	: No	:	:
Connected to sewer	: No	:	:
Type of latrine	: None	:	:
Perm. or temp. installation	: Perm.	:	:
Present condition	: New	:	:
REFERENCE	:	:	:
Reference of site	: Lat. 37°51' 45.183" Long. 122° 35'	:	:
	: 04.676"	:	:
Reference of inst. axis	: Elev. 480.30 M.L.L.W.	:	:
Elev. of Inst. Pedestal	: 475.30' M.L.L.W. DMM	:	:
Type of observing inst.	: D.P.F. Lewis M1907 No./240. Also	:	:
	: pier mount installed for model	:	:
	: 1910 Azimuth Instrument	:	:
Type of plotting board	: None	:	:
Type and capacity of crane	: None	:	:
Max. dim. of reel handled	: No reel	:	:



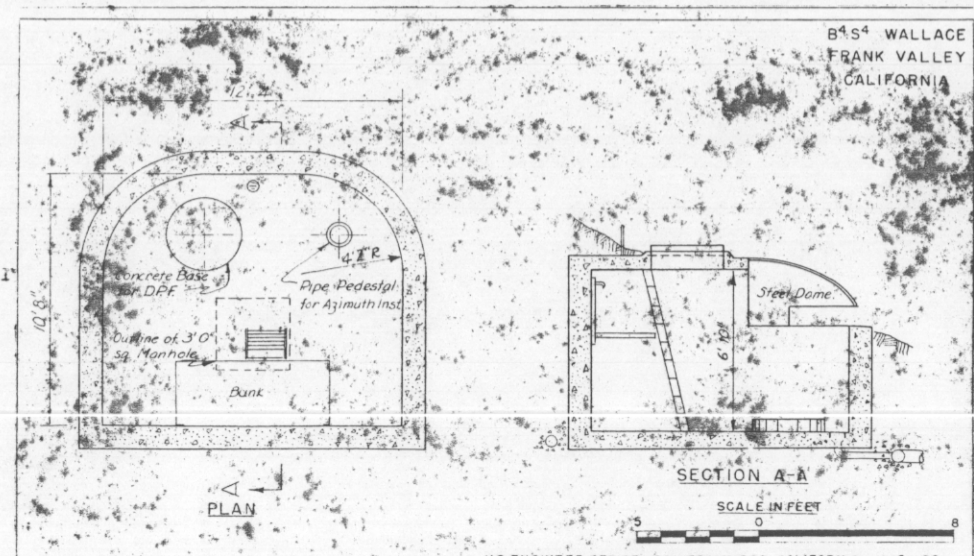
REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS  
(Fire Control Structure)

SECRET

COAST DEFENSES OF San Francisco  
FRANK VALLEY, CALIFORNIA  
STRUCTURE B<sup>4</sup> S<sup>4</sup> WALLACE

Form 2. Corrected to November 14, 1941

STRUCTURE	:	:	TYPE OF DATA TRANSMISSION	:	<i>av Barry</i>
Location	:	Frank Valley, California	Type of transmission equipment	:	Telephone (installed
Date of transfer	:	November 14, 1941	Date of transfer	:	by Signal Corps)
Cost to that date	:	\$3,044.55	Cost of data transmission	:	
Type of construction	:		equipment	:	
(a) Roof	:	Reinforced conc. & steel dome	For tide stations give descrip-	:	
(b) Remainder of bldg.	:	Reinforced concrete	tion of tide gauge	:	
How concealed	:	Earth cover, vegetation and camou-	For datum points give Forts	:	
	:	flaged dome	from which visible	:	
How protected	:	Earth cover and one-inch steel	For dormitories give stations	:	
	:	dome	served	:	
Height above concealment	:	Not above concealment	For cable hut give S.C. type	:	
Height above protection	:	Not above protection		:	
Conspicuous at <u>400</u> yds.	:	Not conspicuous from sea		:	
ELECTRIC ENERGY	:			:	
Source of electric current	:	None		:	
Kilowatts required	:	None		:	
Type of lighting fixtures	:	None		:	
HEAT	:			:	
How heated	:	Not heated		:	
WATER AND SEWER	:			:	
Connected to water mains	:	No		:	
Connected to sewer	:	No		:	
Type of latrine	:	None		:	
Perm. or temp. installation:	Perm.			:	
Present condition	:	New		:	
REFERENCE	:			:	
Reference of site	:	Lat. 37° 51' 45".326 Long. 122°		:	
	:	35' 04".529		:	
Reference of inst. axis	:	Elev. 485.77 M.L.L.W.		:	
Elev. of Inst. Pedestal	:	481.23' M.L.L.W.		:	
Type of observing inst.	:	D.P.F. M1 Class 5 #129. Also pier		:	
	:	mount for Model 1910 Azimuth		:	
	:	instrument		:	
Type of plotting board	:	None		:	
Type and capacity of crane	:	None		:	
Max. dim. of reel handled	:	No reel		:	





600.914 (San Fran) 102114

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SPERM-1

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS  
Fire Control Station

HARBOR DEFENSES OF SAN FRANCISCO  
FORT **FRANK VALLEY**  
STRUCTURE **B<sup>5</sup>S<sup>5</sup> 243 (Formerly B<sup>3</sup>S<sup>3</sup> Alexander)**  
*at Miley*

PART II Corrected to April 1944

STRUCTURE: x... **122° 35' 04.788"**  
 y... **37° 51' 46.225"**  
 Location (by coordinates) y... **Frank Valley**  
 Location (by site description) **29 November 1943 \*See note**  
 Date of transfer... **43,224.79 \*See note**  
 Cost to that date...  
 Type (for observing stat. digger, dug-in, cottages, etc.) **Dug-in**  
 Type of construction **Reinforced concrete & steel dome**  
 (a) Roof **Reinforced concrete**  
 (b) Remainder of bldg **Earth cover & camouflage**  
 How concealed **Earth cover & steel dome**  
 How protected **Not above concealment**  
 Height above concealment **Not above protection**  
 Height above protection **100**  
 Conspicuous at **Not conspicuous from sea.**  
 yards

INSTRUMENTS & EQUIPMENT: **Installed by others**  
 Type of observing inst. ....  
 Type of plotting board .....

DATA TRANSMISSION: **Installed by Signal Corps**  
 Type .....  
 Date of transfer .....

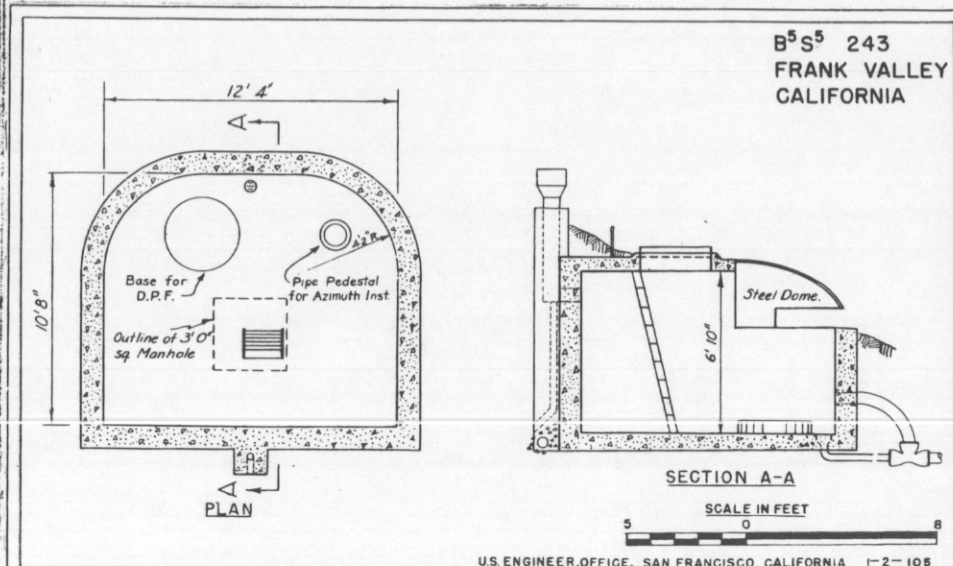
TIDE STATION:  
 Give description of tide gauge .....

\*See reverse side for statement of work done in 1944.

UTILITIES: **None**  
 Electric Power **None**  
 Source of .....  
 Characteristics: Voltage...Ac or DC..Phase.....  
 Kilowatts required.....  
 Type of lighting fixtures.....  
 Heat **Not heated**  
 How heated .....  
 Water Sewer **No**  
 Connected to water mains.....  
 Connected to sewer.....  
 Type latrine **None**

REFERENCE:  
 Reference of site **Elev. = 491.00 (MLW = 0.00)**  
 Reference of instrument axis **Elev. 491.21**  
 Elev. Inst. Ped. = **486.80**

SECRET



ED Form A-162B  
16 Sept. 1943

SECRET

SPEKM-1

600,919 (San Fran) CW 72312

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS  
FIRE CONTROL STATION

HARBOR DEFENSES OF SAN FRANCISCO  
PORT Frank Valley  
STRUCTURE B'S Alexander (BSS 243)

PART II Corrected to September 1943

STRUCTURE: x. 122° 35' 04.788"  
Location (by coordinates) y. 37° 51' 46.225"  
Location (by site description) Frank Valley  
Date of transfer 29 November 1943  
Cost to that date \$ 3224.79  
Type (for observing stat.--tower, dug-in, cottages, etc.) Dug-in  
Type of construction  
(a) Roof Reinforced Concrete & Steel Dome  
(b) Remainder of bldg Reinforced Concrete  
How concealed Earth Cover & Camouflage  
How protected Earth Cover & Steel Dome  
Height above concealment Not above concealment  
Height above protection Not above protection  
Conspicuous at 100 yards Not conspicuous from sea

INSTRUMENTS & EQUIPMENT:  
Type of observing inst. Installed by others  
Type of plotting board

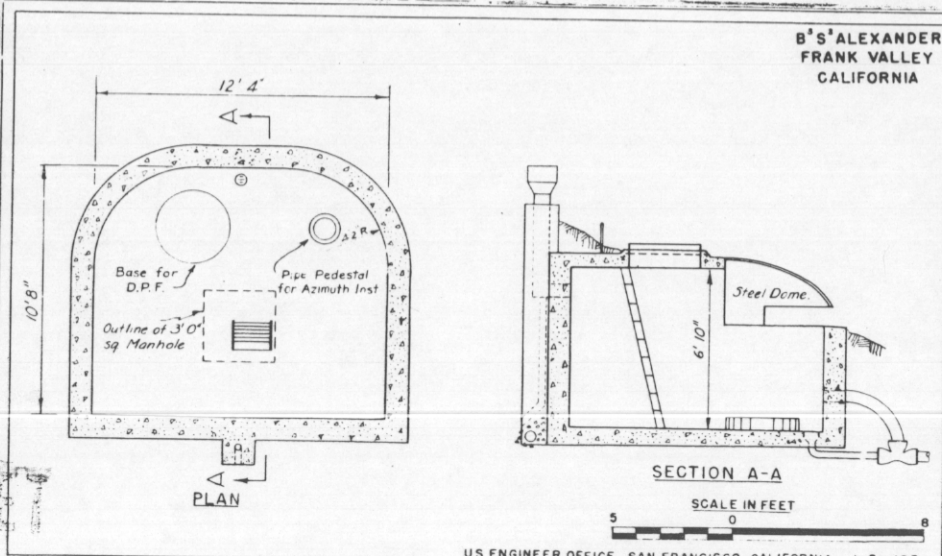
DATA TRANSMISSION:  
Type Installed by others  
Date of transfer

TIDE STATION:  
Give description of tide gauge

UTILITIES:  
Electric Power None  
Source of None  
Characteristics: Voltage Ac or DC Phase  
Kilowatts required  
Type of lighting fixtures  
Heat  
How heated Not heated  
Water Sewer  
Connected to water mains No  
Connected to sewer No  
Type latrine None

REFERENCE:  
Reference of site Elev. 491.00 (MLW = 0.00)  
Reference of instrument axis Elev. 491.21  
Elev. Inst. Ped. 486.80

FD Form A-162B  
16 Sept. 1943



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