

U.S. Naval Base, Pearl Harbor, Lualualei Radio HABS No. HI-152
Transmitting Facility
(U.S. Naval Base, Pearl Harbor, Naval Computer and
Telecommunications Area Master Station Eastern Pacific)
(Antenna Towers S-109, S-110, S-111)
Edison and Tower Drives
Pearl Harbor
Honolulu County
Hawaii

HABS
HI
2-PEHA,
25-

PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

Historic American Buildings Survey
National Park Service
Western Region
Department of the Interior
San Francisco, California 94107

HABS
HI
2-PEHA,
25-

HISTORIC AMERICAN BUILDING SURVEY

U.S. Naval Base, Pearl Harbor, Lualualei Radio Transmitting Facility
Antenna Towers

(U.S. Naval Computer and Telecommunications Area Master Station
Eastern Pacific)

(Antenna Towers S-109, S-110, S-111)

HABS No. H1-152

Location: Edison and Tower Drive near Transmitter Building No.1
Waianae
Honolulu County
Hawaii

USGS Pearl Harbor Quadrangle, Hawaii
7.5 minutes series (orthophotoquad)
Universal Transverse Mercator coordinates
Antenna Tower S-109 - 4.586618.2370516 (scale 1:25,000)
Antenna Tower S-110 - 4.586799.2370360 (scale 1:25,000)
Antenna Tower S-111 - 4.586560.2370260 (scale 1:25,000)

Date of Construction: 1935

Engineer: Fourteenth Naval District, Navy Yard, Pearl Harbor

Present Owner: U.S. Naval Computer and Telecommunications Area Master Station

Present Use: The antenna towers were constructed of structural steel angles and riveted connections. They are self supporting structure and stand 300 feet in height. These antenna towers have no current use and are in excess to the mission of NCTAMS EASTPAC.

Significance: Antenna Towers S-109, S-110, S-111 are uncategorized facilities located outside the Pearl Harbor National Historic Landmark. The historical significance of the towers is due to their role both during and after World War II. Initially, these antenna towers were used to maintain communication for naval shore installations and fleet units in the Eastern Pacific area. Following the war, during the mid 1940's through the late 1960's, the towers were designated as the "Voice of America" towers used to broadcast American news internationally. Original construction drawings available on microfiche at the Navy Public Works Center, Pearl Harbor, Hawaii.

Report Prepared by: Lisa A. Chan, Civil Engineer
Naval Public Works Center
Project Development Branch
Pearl Harbor, Hawaii 96860-5470

Date: January 1994

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Source: Microfiche - Public Works Center, Pearl Harbor, Hawaii

Antenna Tower S-109

REPAIR SCHEDULE-S109			
ITEM NO.	ITEM OF WORK	TO BE DONE	REMARKS
1	Painting of tower structure	Painting of tower structure	
2	Painting of tower structure	Painting of tower structure	
3	Painting of tower structure	Painting of tower structure	
4	Painting of tower structure	Painting of tower structure	
5	Painting of tower structure	Painting of tower structure	
6	Painting of tower structure	Painting of tower structure	
7	Painting of tower structure	Painting of tower structure	
8	Painting of tower structure	Painting of tower structure	
9	Painting of tower structure	Painting of tower structure	
10	Painting of tower structure	Painting of tower structure	
11	Painting of tower structure	Painting of tower structure	
12	Painting of tower structure	Painting of tower structure	
13	Painting of tower structure	Painting of tower structure	
14	Painting of tower structure	Painting of tower structure	
15	Painting of tower structure	Painting of tower structure	
16	Painting of tower structure	Painting of tower structure	
17	Painting of tower structure	Painting of tower structure	
18	Painting of tower structure	Painting of tower structure	
19	Painting of tower structure	Painting of tower structure	
20	Painting of tower structure	Painting of tower structure	

PLAN

TOWER BASE ASSEMBLY

SECTION

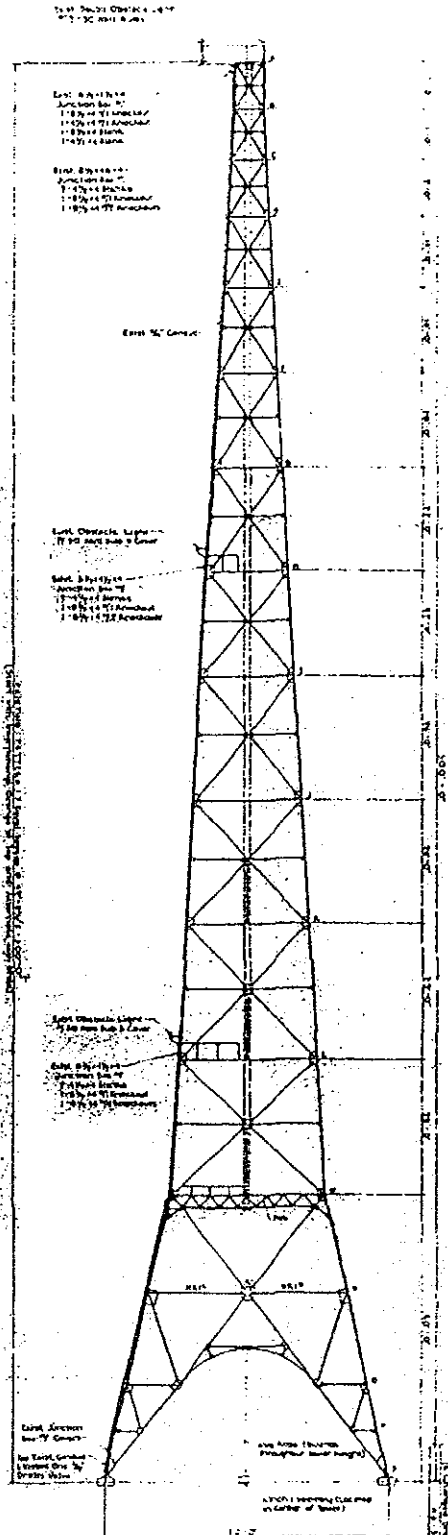
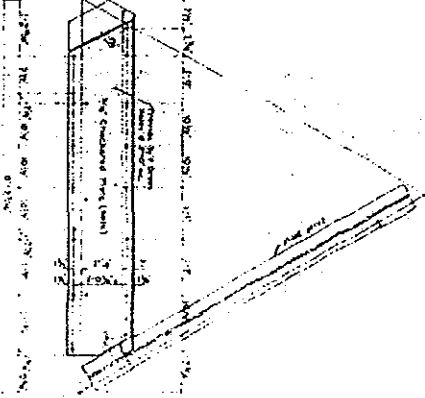
GRAPHIC SCALES

DESIGNED BY	DATE	APPROVED BY	DATE
DRIVEN BY	DATE	APPROVED BY	DATE
CHECKED BY	DATE	APPROVED BY	DATE
PROJECT NO.	TOWER S109		
PROJECT NAME	TOWER S109		
PROJECT LOCATION	TOWER S109		
PROJECT DESCRIPTION	TOWER S109		
PROJECT STATUS	TOWER S109		
PROJECT COMMENTS	TOWER S109		

STEEL PLATE PATTERN & LEVEL W/D

PLAN

RECORD DRAWING

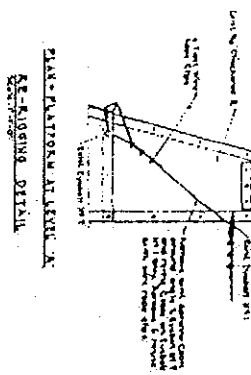


TYPICAL ELEVATION
EXISTING TOWER S109
SCALE 1/2\"/>

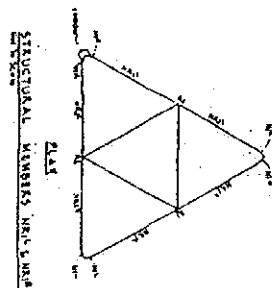
ORIENTATION PLAN

Antenna Tower S-110

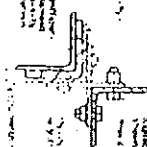
RPA SCHEDULE - 3 MO			
7-10-2021			
Sl	Topic	Topic Level	Remarks
1	1. The Sun is a hot, glowing ball of gas.	Eng 1	10 Dec 2021, Sat 3
2	2. Inside the Sun, there are very	Eng 1	10 Dec 2021, Sat 3
3	3. Heat is created by the burning of	Eng 1	10 Dec 2021, Sat 3
4	4. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
5	5. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
6	6. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
7	7. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
8	8. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
9	9. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
10	10. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
11	11. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
12	12. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
13	13. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
14	14. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
15	15. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
16	16. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
17	17. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
18	18. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
19	19. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
20	20. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
21	21. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
22	22. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
23	23. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
24	24. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
25	25. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
26	26. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
27	27. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
28	28. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
29	29. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
30	30. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
31	31. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
32	32. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
33	33. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
34	34. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
35	35. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
36	36. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
37	37. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
38	38. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
39	39. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
40	40. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
41	41. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
42	42. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
43	43. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
44	44. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
45	45. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
46	46. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
47	47. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
48	48. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
49	49. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3
50	50. Heat is carried by the burning of	Eng 1	10 Dec 2021, Sat 3



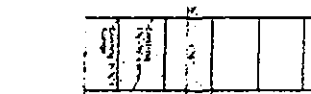
PLAK + PLATPOK M AT JEFFREY A



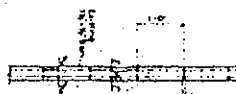
STRUCTURAL MEMBERS NR1 & NR2



SECTION 2
RECORDS MANAGEMENT



idea



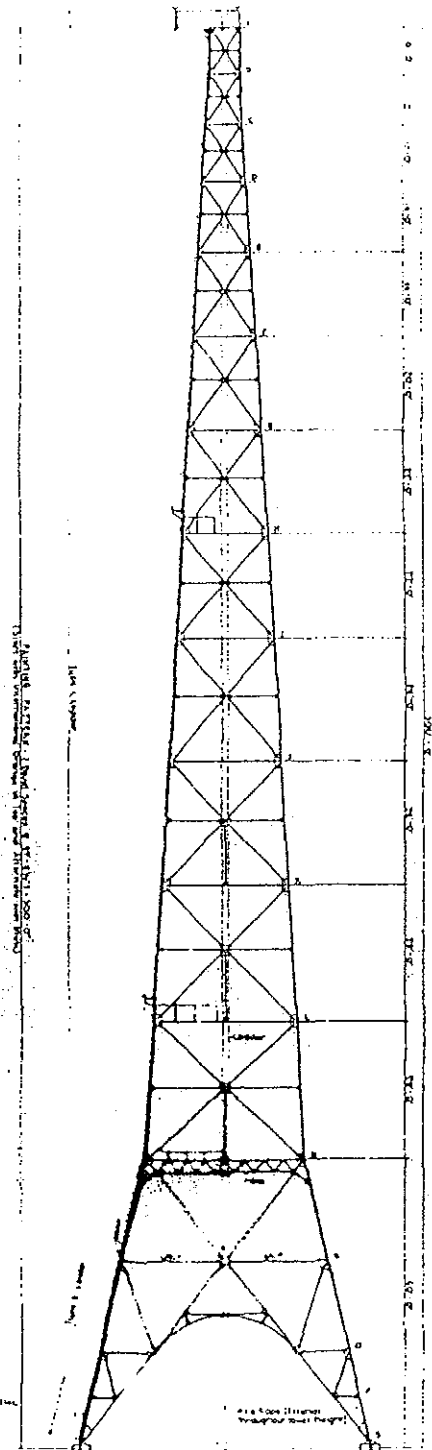
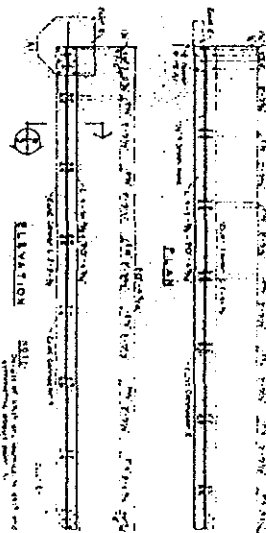
XME.F.5-C. 1077 5



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1847



TYPICAL ELEVATION
EXISTING TOWER SHO

PALESTINE

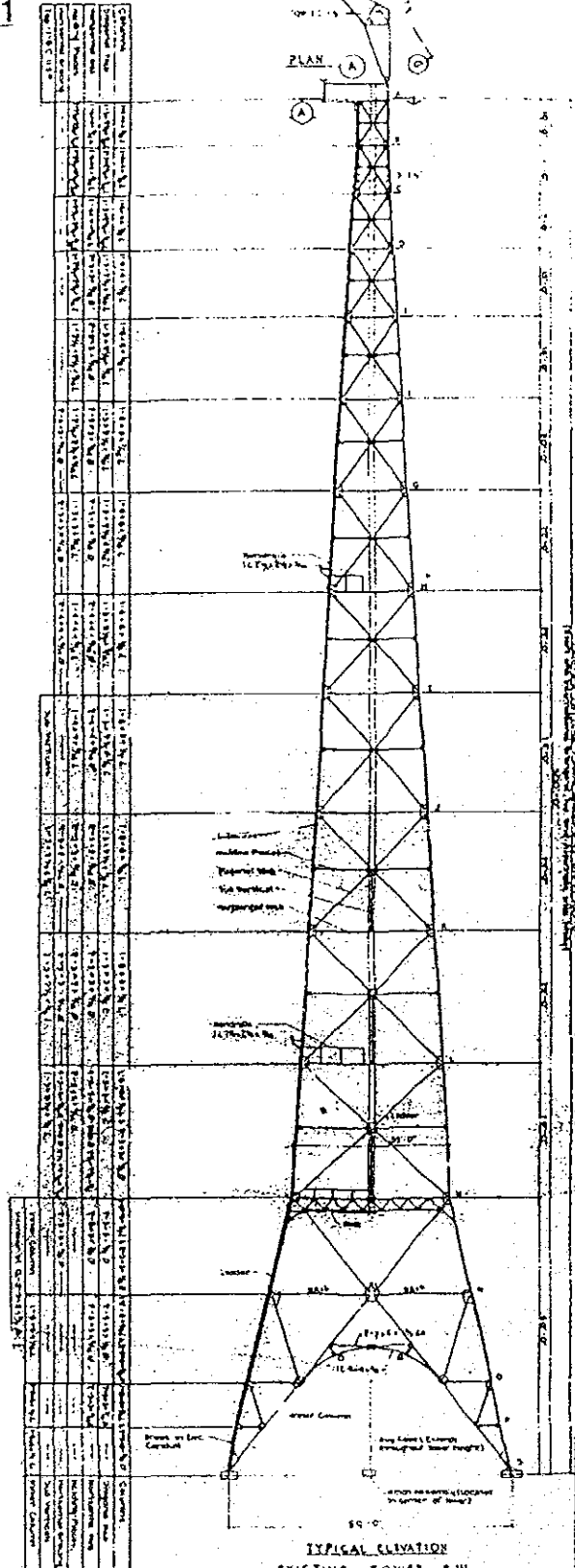
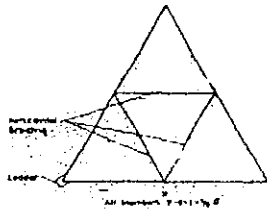
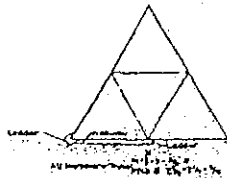
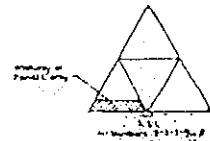
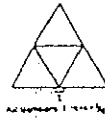
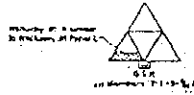
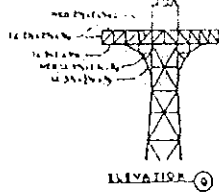
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Source: Microfiche - Public Works Center, Pearl Harbor, Hawaii

Antenna Tower S-111

REPAIR SCHEDULE - S-111			
NO.	ITEM OR WORK	TIME	REMARKS
1	Paint tower with Rust Inhibiting Primer	1 day	
2	Paint tower with Rust Inhibiting Primer	1 day	
3	Paint tower with Rust Inhibiting Primer	1 day	
4	Paint tower with Rust Inhibiting Primer	1 day	
5	Paint tower with Rust Inhibiting Primer	1 day	
6	Paint tower with Rust Inhibiting Primer	1 day	
7	Paint tower with Rust Inhibiting Primer	1 day	
8	Paint tower with Rust Inhibiting Primer	1 day	
9	Paint tower with Rust Inhibiting Primer	1 day	
10	Paint tower with Rust Inhibiting Primer	1 day	
11	Paint tower with Rust Inhibiting Primer	1 day	
12	Paint tower with Rust Inhibiting Primer	1 day	
13	Paint tower with Rust Inhibiting Primer	1 day	
14	Paint tower with Rust Inhibiting Primer	1 day	
15	Paint tower with Rust Inhibiting Primer	1 day	
16	Paint tower with Rust Inhibiting Primer	1 day	
17	Paint tower with Rust Inhibiting Primer	1 day	
18	Paint tower with Rust Inhibiting Primer	1 day	
19	Paint tower with Rust Inhibiting Primer	1 day	
20	Paint tower with Rust Inhibiting Primer	1 day	



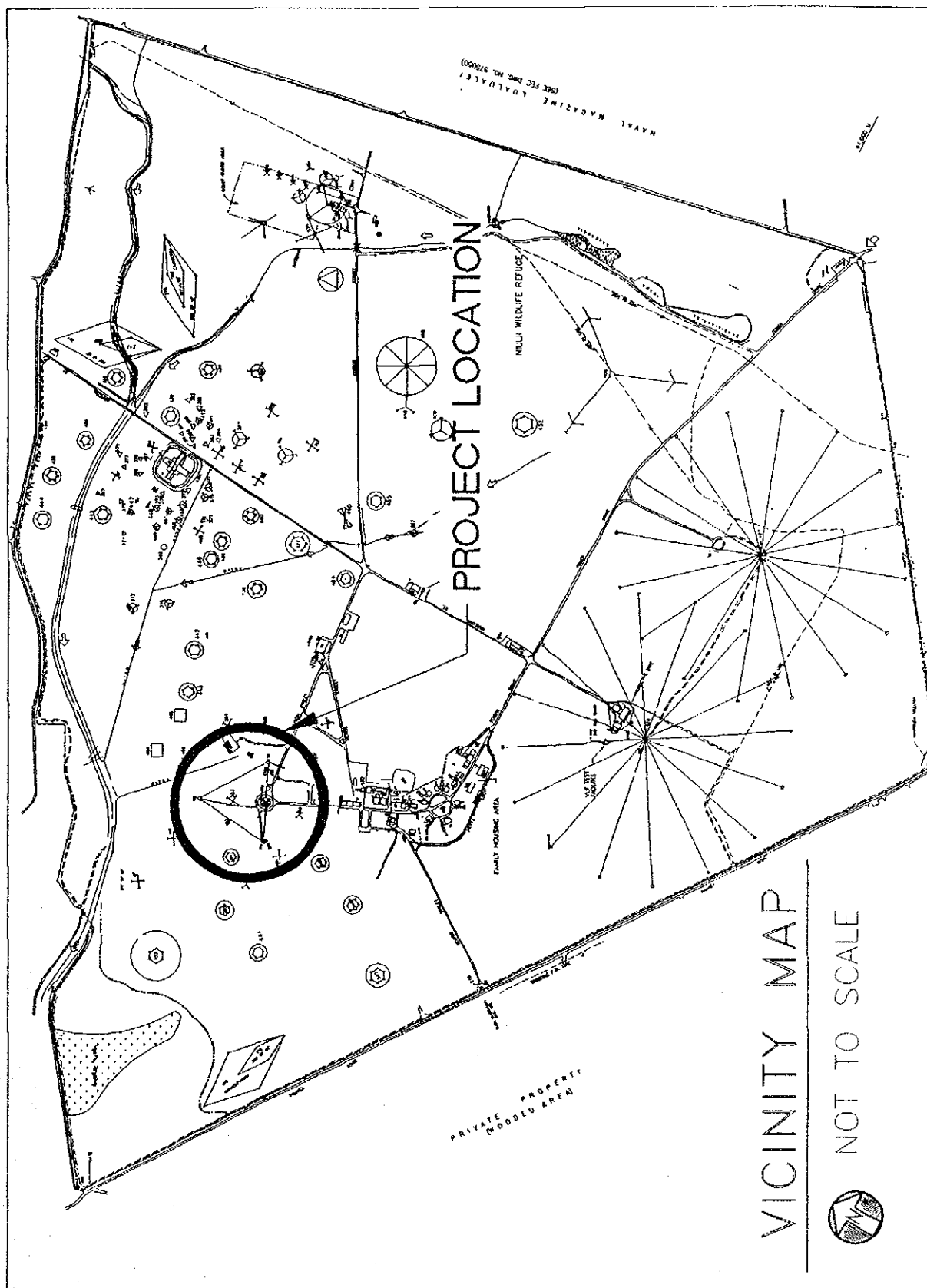
Typical Elevation
EXISTING TOWER S-111
Scale: 1" = 10'-0"

ORIENTATION PLAN

STADING SCALE

1	1000	1000	1000
2	1000	1000	1000
3	1000	1000	1000
4	1000	1000	1000
5	1000	1000	1000
6	1000	1000	1000
7	1000	1000	1000
8	1000	1000	1000
9	1000	1000	1000
10	1000	1000	1000
11	1000	1000	1000
12	1000	1000	1000
13	1000	1000	1000
14	1000	1000	1000
15	1000	1000	1000
16	1000	1000	1000
17	1000	1000	1000
18	1000	1000	1000
19	1000	1000	1000
20	1000	1000	1000

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