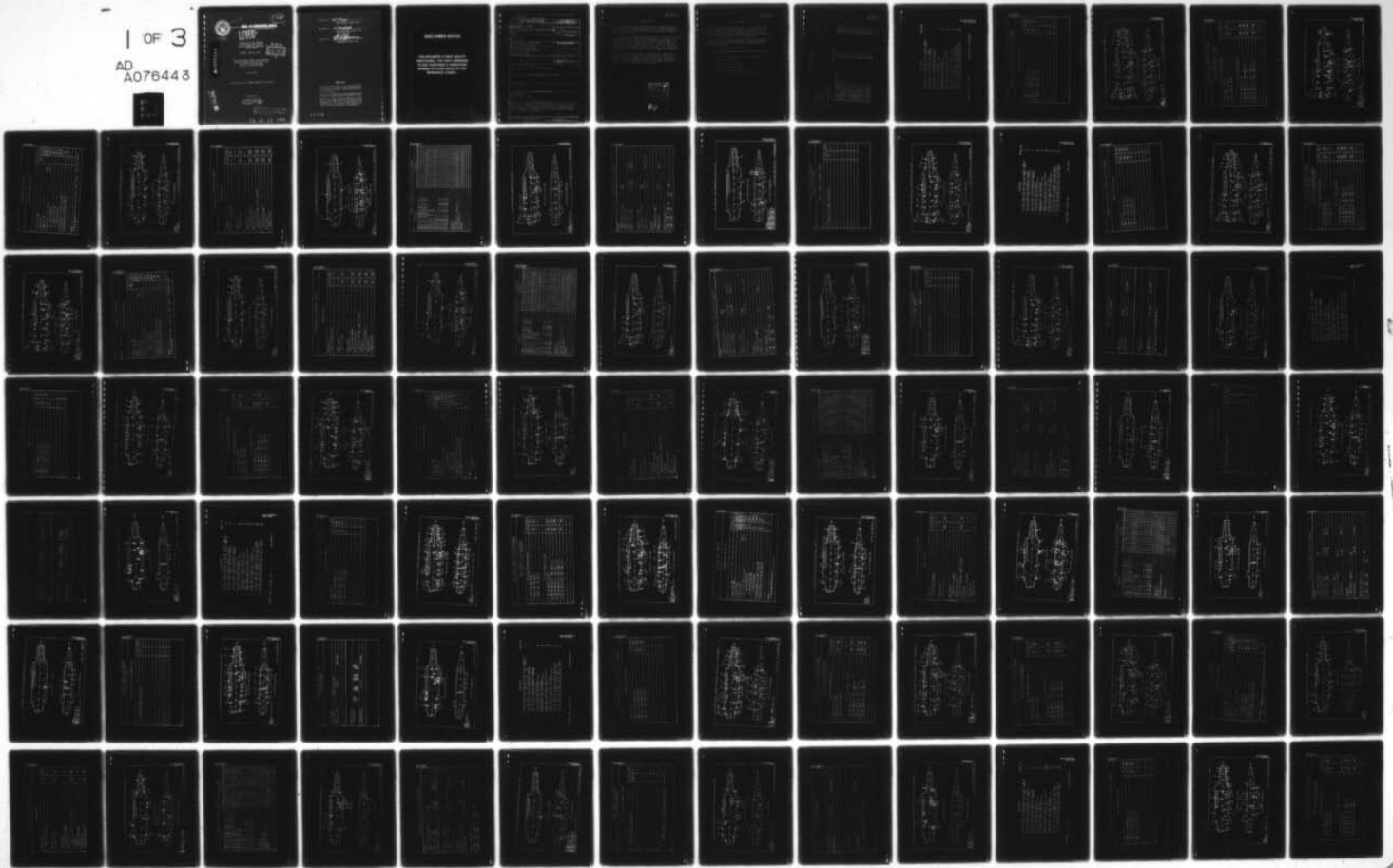


AD-A076 443 NAVAL AIR ENGINEERING CENTER LAKEHURST NJ ENGINEERING--ETC F/G 1/3  
COMPILATION OF DATA COVERING AIRCRAFT SERVICING FACILITIES ABOA--ETC(U)  
OCT 79 M A STRANO  
UNCLASSIFIED NAEC-ENG-6703-REV-15 NL

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LAKEHURST, N.J.  
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# NAVAL AIR ENGINEERING CENTER

REPORT NAEC-ENG-6703

# LEVEL

COMPILATION OF DATA COVERING  
AIRCRAFT SERVICING FACILITIES  
ABOARD AVIATION AND AMPHIBIOUS  
AVIATION SHIPS

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✓ Ship Installations Engineering Department  
Aircraft, Weapons, Ship, and VLA Division  
Naval Air Engineering Center  
Lakehurst, New Jersey 08733

29 July 1960

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Prepared for

Commander (AIR-551)  
Naval Air Systems Command  
Washington, DC 20361

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Prepared by: M.A. Strano  
M. A. STRANO  
Ship Aviation Systems Section

Reviewed by: A.P. Kowalczyk  
A. P. KOWALCZYK  
Head, Aircraft, Weapons, Ship,  
and VLA Division

Approved by: F.B. Boice  
F. B. BOICE  
Engineering Officer, SIED

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report is a compilation of data covering aircraft servicing facilities aboard aviation and amphibious aviation ships. Data is furnished on aircraft servicing facilities relating to fueling and defueling, electrical starting and servicing, oxygen and nitrogen, aircraft inertial alignment, compressed air, and cooling and starting air.		

I. INTRODUCTION

A. Military research and development create changes and innovations in military weapon systems concepts. The application of these changes and innovations tends to create many problems that must be resolved as quickly as possible to maintain optimum military effectiveness.

The aviation and amphibious aviation ships ability to perform its mission is dependent, to a high degree, on its capacity to effectively maintain and service its aircraft complement. To keep the aircraft in combat-ready condition and to enable the ship to efficiently perform its mission, it must be equipped with effective aircraft servicing facilities. These facilities are fueling and defueling, electrical starting and servicing, oxygen and nitrogen, aircraft inertial alignment and compressed air service.

B. To permit the user to better understand the complexity of the aircraft servicing systems found aboard aviation and amphibious aviation ships and to determine their effectiveness, a compilation of informative data was made and is presented herein. This compilation is based upon on-board surveys of these ships by NAVAIRENGCEN (SI) personnel.

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## II. SUMMARY

A. All data presented in this report is a result of the implementation of a computer graphics system. Utilizing this system allows for a more efficient means of storing and generating this data. Changes to the report can be made with less difficulty and be forwarded expediently while maintaining a high level of cost effectiveness.

B. This report has been organized to devote an individual chapter for each ship. Each chapter contains applicable tabular data with flight and hangar deck layouts in the following categories:

1. 400 Hz aircraft electrical service
2. 28.5 VDC aircraft start/service and 440 VAC support equipment service
3. Aviation fuel/defuel service (AV/GAS and JP-5)
4. Compressed air service
5. Combat readiness stations
6. Oxygen and Nitrogen service
7. Aircraft inertial alignment service
8. Aircraft starting and cooling air service

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II. SUMMARY	ii
III. TABLE OF CONTENTS	iii

IV. FACILITIES DATA

<u>TITLE</u>	<u>LAST INSPECTION</u>	
USS DWIGHT D. EISENHOWER (CV(N) 69)	Jul 79	CV(N) 69-0
USS NIMITZ (CV(N) 68)	Aug 79	CV(N) 68-0
USS JOHN F. KENNEDY (CV 67)	Sep 76	CV 67-0
USS AMERICA (CV 66)	Oct 75	CV 66-0
USS ENTERPRISE (CV(N) 65)	Aug 74	CV(N) 65-0
USS CONSTELLATION (CV 64)	Aug 78	CV 64-0
USS KITTY HAWK (CV 63)	Oct 77	CV 63-0
USS INDEPENDENCE (CV 62)	Jun 73	CV 62-0
USS RANGER (CV 61)	Aug 78	CV 61-0
USS SARATOGA (CV 60)	Sep 76	CV 60-0
USS FORRESTAL (CV 59)	Aug 77	CV 59-0
USS CORAL SEA (CV 43)	Mar 74	CV 43-0
USS MIDWAY (CV 41)	Aug 73	CV 41-0
USS TARAWA (LHA 1)	Aug 78	LHA 1-0
USS INCHON (LPH 12)	Aug 79	LPH 12-0
USS NEW ORLEANS (LPH 11)	Feb 69	LPH 11-0
USS TRIPOLI (LPH 10)	Aug 78	LPH 10-0
USS GUAM (LPH 9)	Mar 72	LPH 9-0
USS GUADALCANAL (LPH 7)	Aug 75	LPH 7-0
USS OKINAWA (LPH 3)	Aug 78	LPH 3-0
USS IWO JIMA (LPH 2)	May 72	LPH 2-0

	<u>CATEGORY</u>	<u>PAGE NO.</u>
1	Aircraft Electrical Service Outlet Summary (400 Hz) Aircraft Electrical Service Outlet Layout (400 Hz)	1 2
2	Aircraft Electrical and Support Equipment Service Outlet Summary (28.5 VDC, 440 VAC)	3
4	Aircraft Electrical and Support Equipment Service Outlet Layout (28.5 VDC, 440 VAC)	4
3	Aviation Fuel Service Summary Aviation Fuel Service Outlet Layout	5 6
4	Compressed Air Service Summary Compressed Air Service Outlet Layout	7 8
5	Combat Readiness Station Service Summary Combat Readiness Station Layout	9 10
6	Oxygen and Nitrogen Service Summary Oxygen and Nitrogen Service Outlet Layout	11 12
7	Aircraft Inertial Alignment Outlet Box Summary Aircraft Inertial Alignment Outlet Box Layout	13 14
8	Aircraft Cooling and Starting Air Outlet Summary Aircraft Cooling and Starting Air Outlet Layout	N/A N/A

LATEST CHECK - JULY 1979

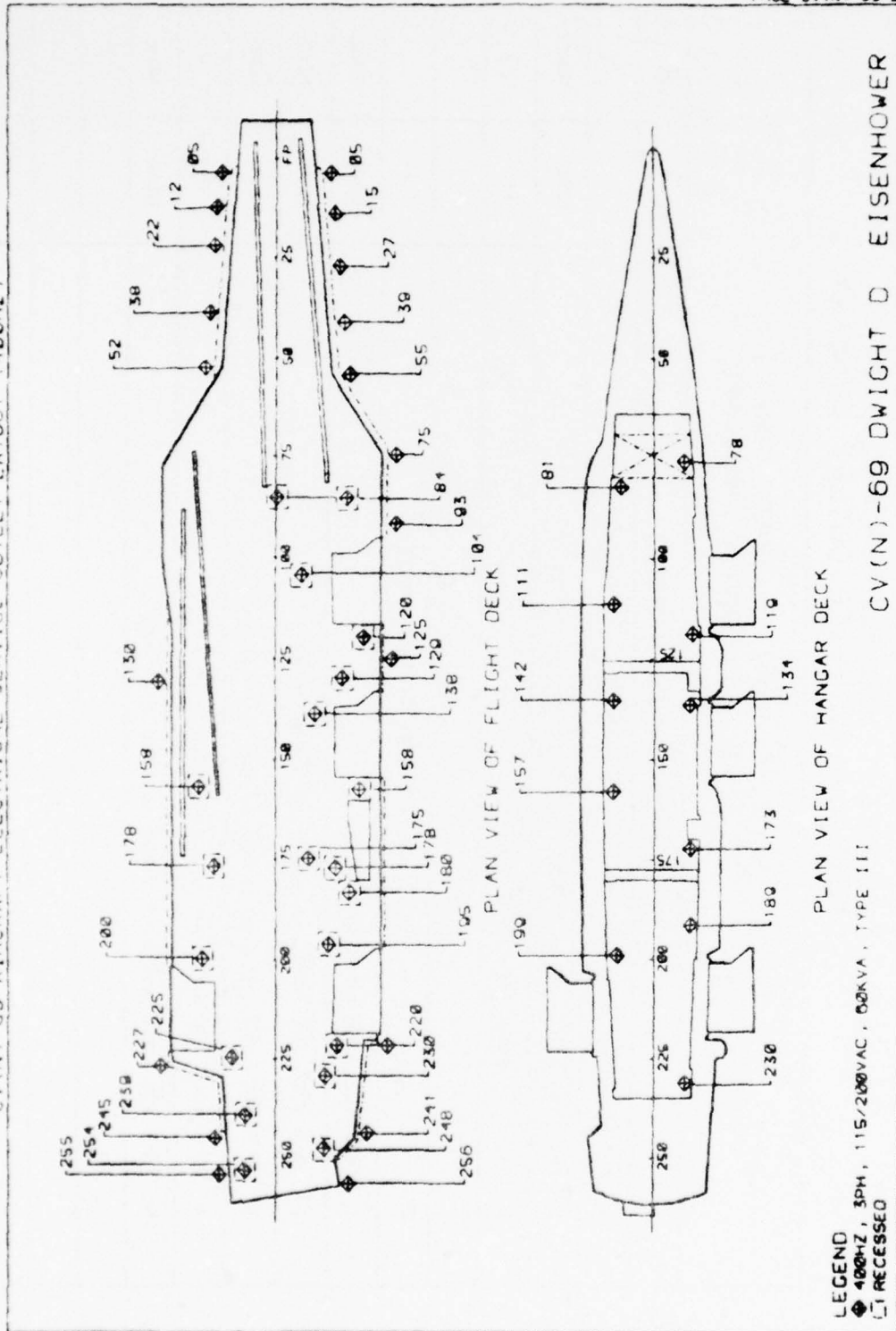
USS DWIGHT D EISENHOWER

AIRCRAFT ELECTRICAL SERVICE OUTLET SUMMARY

400HZ AIRCRAFT SERVICE

SERVICE OUTLETS	FLT DK	HCR DK
1 400Hz, 3PH, 115/200 VAC, 50KVA, Type I	NONE	NONE
2 400Hz, 3PH, 115/200 VAC, 50KVA, Type III	NONE	NONE
3 400Hz, 3PH, 115/200 VAC, 60KVA, Type I	NONE	NONE
4 400Hz, 3PH, 115/200 VAC, 60KVA, Type III	40	11

CV(N)-69 AIRCRAFT ELECTRICAL SERVICE OUTLET LAYOUT (400HZ)

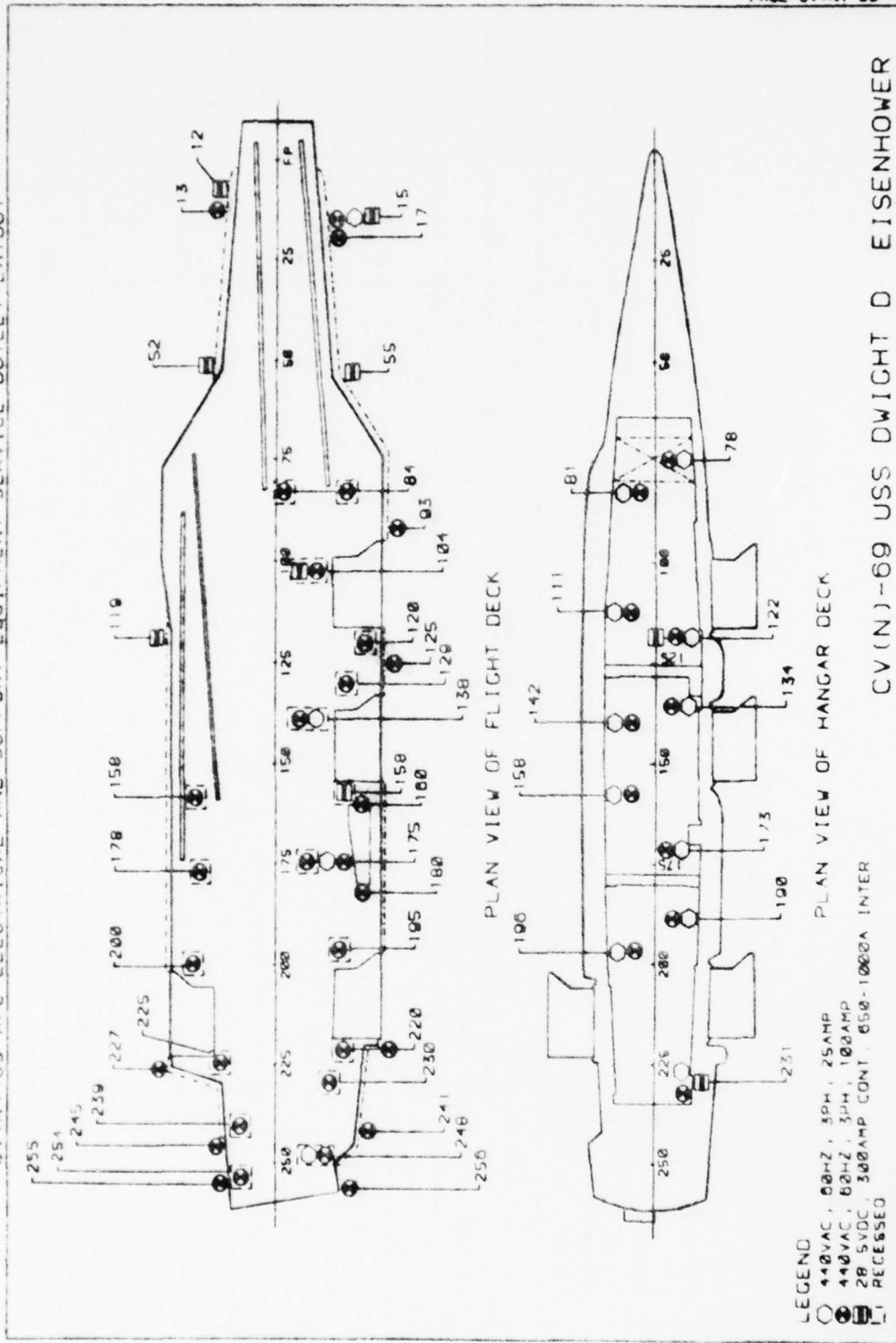


LEGEND  
◆ 400HZ, 3PH, 115/200VAC, 500VA, TYPE III  
◻ RECESSED

CV(N)-69 DWIGHT D EISENHOWER

A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET SUMMARY		FLT DK	HCR DK
440 VAC SUPPORT EQUIPMENT SERVICE			
1	440 VAC 60HZ, 3PH, 25 AMP	4	11
2	440 VAC, 60HZ, 3PH, 60 AMP	NONE	NONE
3	440 VAC, 60HZ, 3PH, 100 AMP	31	11
28 5 VDC A/C SERVICE AND START			
1	28 5 VDC, 200 AMP CONTINUOUS	NONE	NONE
2	28 5 VDC, 300 AMP CONT, 600 TO 900 A INTER	NONE	NONE
3	28 5 VDC, 600 AMP CONT, 620 TO 900 A INTER	NONE	NONE
4	28 5 VDC, 300 AMP CONT, 650 TO 1000 A INTER	7	2
5	28 5 VDC, 650 AMP CONT, 650 TO 1000 A INTER	NONE	NONE

CV(N)-69 A/C ELECTRICAL AND SUPPORT EQUIPMENT SERVICE OUTLET LAYOUT



LEGEND  
 ○ 440VAC, 60HZ, 3PH, 25AMP  
 ⊙ 440VAC, 60HZ, 3PH, 100AMP  
 ⊚ 28 5VDC, 300AMP CONT, 650-1000A INTER  
 □ RECESSED

CV(N)-69 USS DWIGHT D EISENHOWER

PLAN VIEW OF FLIGHT DECK

PLAN VIEW OF HANGAR DECK

AVIATION FUEL SERVICE

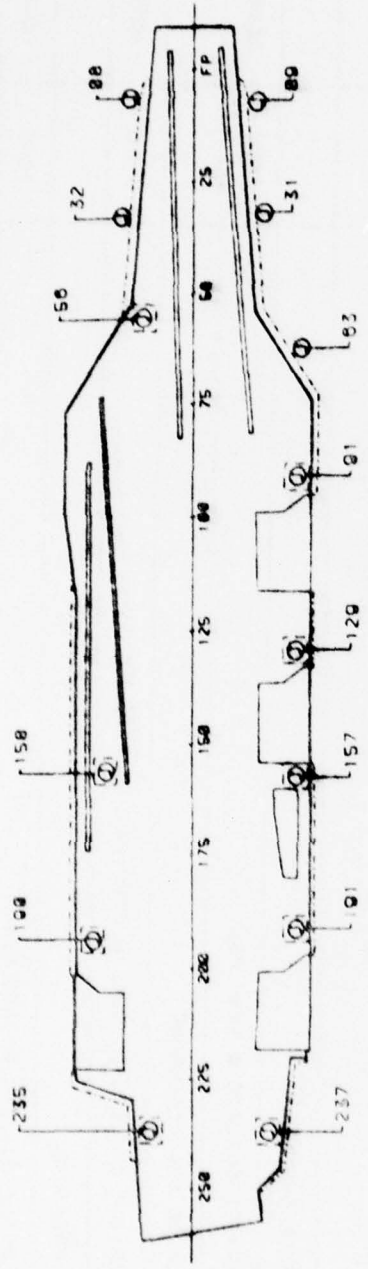
AVIATION GASOLINE AND JP-5

	AV/GAS	JP-5
1 CAPACITY GAL 95%	NONE	3,445,804
2 SERVICE OUTLETS		FLT DK 14 HCR DK 6
3 HOSES PER OUTLET	NOTE 1	FLT DK 2 HCR DK 2
4 SERVICE OUTLET CAPACITY, GPM/PSI	NOTE 2	200/40
o TWO OUTLETS OPERATING		200/40
b FOUR OUTLETS OPERATING		200/40
c SIX OUTLETS OPERATING		200/40
5 DEFUELING CAPACITY PER SERVICE OUTLET GPM		100
6 DEFUELING CAPACITY PER PORTABLE PUMP GPM		50

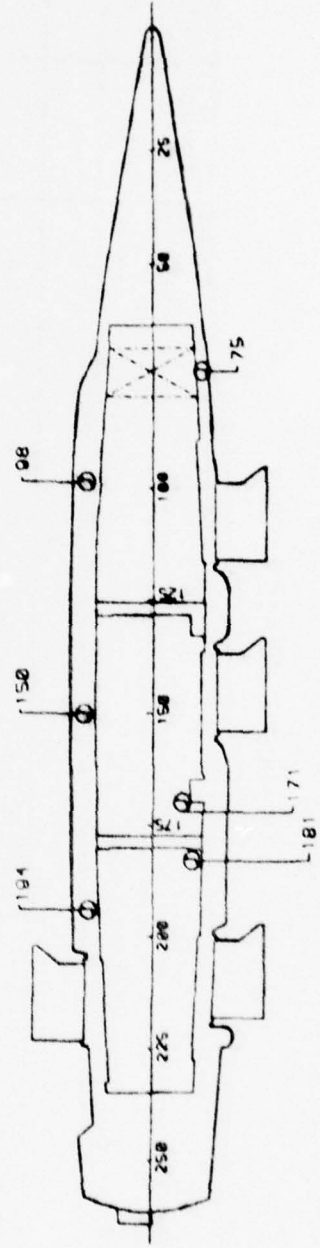
NOTES

- 1 FLT DK STATIONS 3 HOSE, 03-8-2, 03-32-2, 03-0-1, 03-31-1, 03-03-1, 4 HOSE 03-230-2, 03-237-1
- 2 2-1/2" HOSE JP-5

CV(N)-69 AVIATION FUEL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
○ JP-5  
□ RECESSED

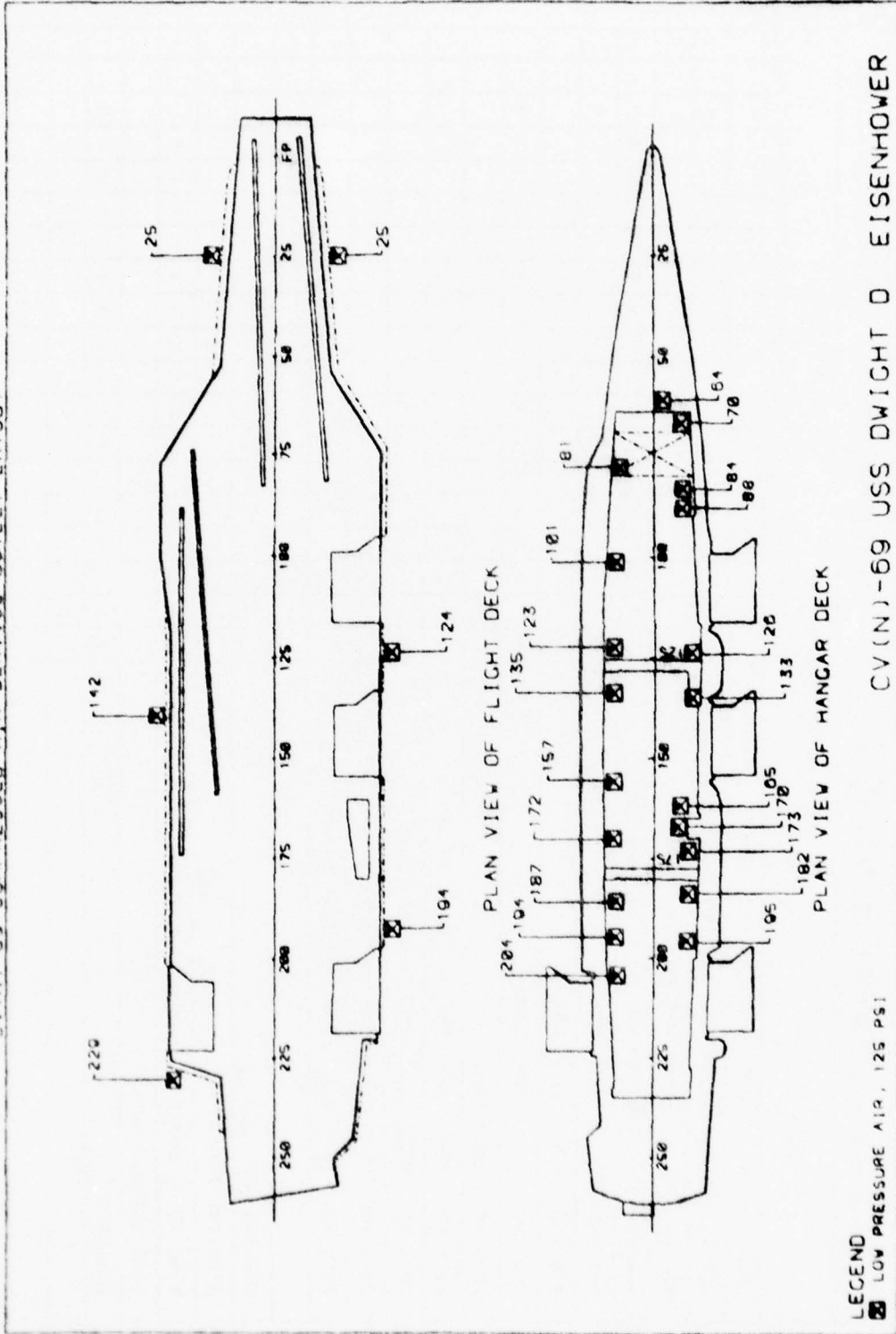
CV(N)-69 USS DWIGHT D EISENHOWER

COMPRESSED AIR SERVICE SUMMARY

COMPRESSED AIR

LOW PRESSURE	FLT DK	HGR DK
1 SERVICE OUTLETS @ 125 PSI	6	20
REDUCED PRESSURE		
1 SERVICE OUTLETS @	NONE	NONE
MEDIUM PRESSURE		
1 SERVICE OUTLETS @ 1800 PSI	NONE	NONE
MEDIUM TO HIGH PRESSURE		
1 SERVICE OUTLETS @ 1800 to 3000 PSI (VARIABLE)	NONE	NONE
HIGH PRESSURE		
1 SERVICE OUTLETS @ 3000 PSI	NONE	NONE
TIRE CHANGING AIR		
1 SERVICE OUTLETS @	NONE	NONE

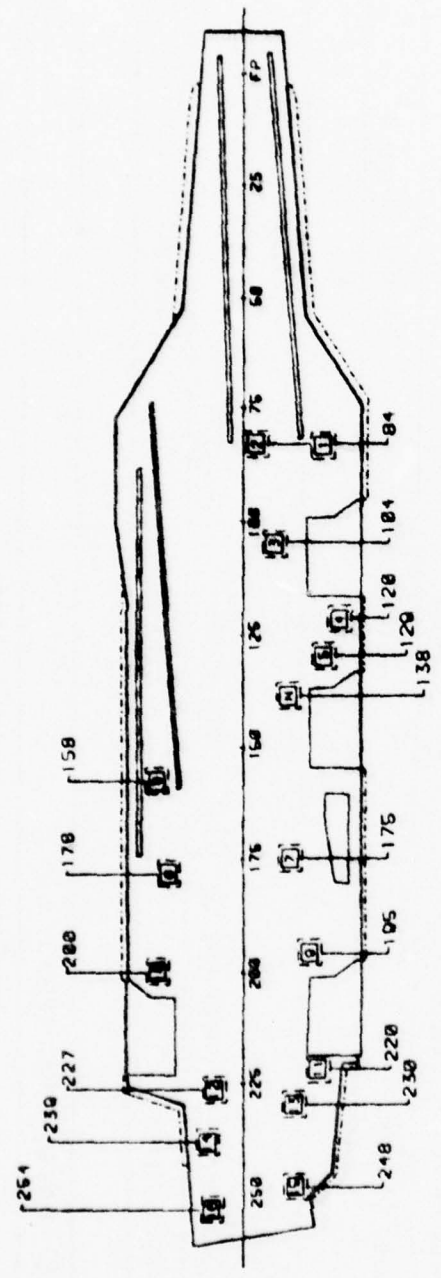
CV(N)-69 COMPRESSED AIR SERVICE OUTLET LAYOUT



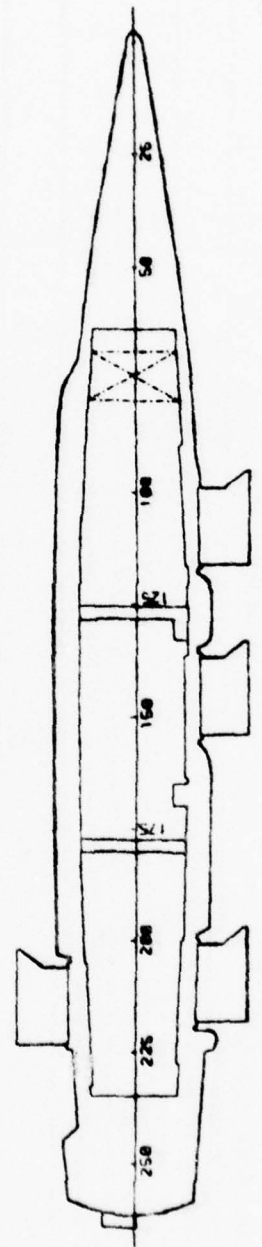
CV(N)-69 USS DWIGHT D EISENHOWER



CV(N)-69 COMBAT READINESS STATION LAYOUT



PLAN VIEW OF FLIGHT DECK



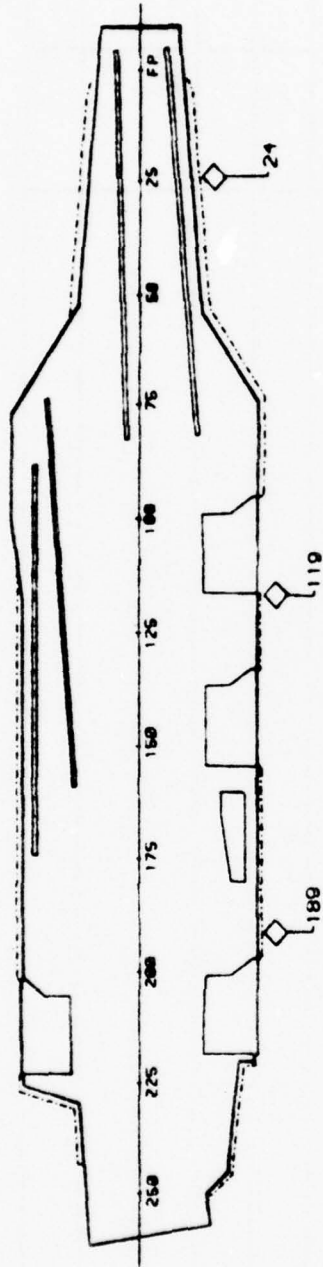
PLAN VIEW OF HANGAR DECK

LEGEND  
□ COMBAT READINESS STATION  
□ RECESSED

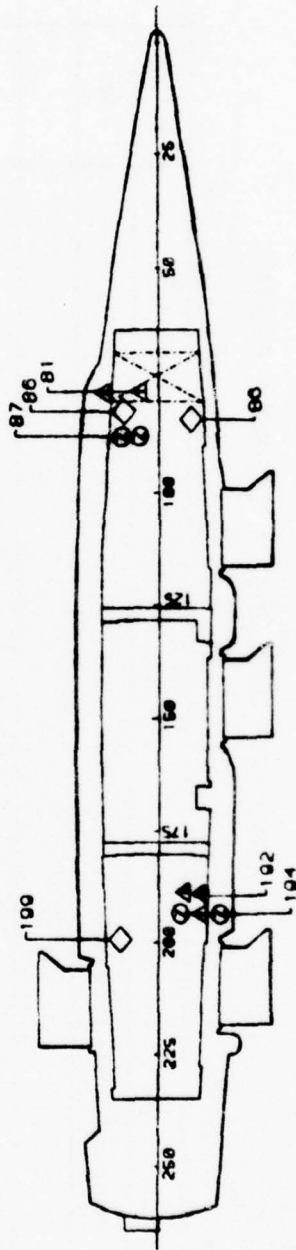
CV(N)-69 DWIGHT D EISENHOWER

OXYGEN AND NITROGEN SERVICE SUMMARY	
OXYGEN	
1 STORAGE CAPACITY, LIQUID GALS	2,000
2 GENERATING CAPACITY GPH	10
3 SERVICE OUTLETS, LIQUID	FLT DK NONE HGR DK 2
4 SERVICE OUTLETS, GASEOUS	FLT DK NONE HGR DK 1 <sup>a</sup>
NITROGEN (OIL FREE)	
1 STORAGE CAPACITY, LIQUID GALS	2,000
2 SERVICE OUTLETS	FLT DK 3 <sup>b</sup> HGR DK 4 <sup>c</sup> , 1 <sup>f</sup> , 3 <sup>g</sup>
NITROGEN	
1 STORAGE CAPACITY @ 3000 PSI	
2 SERVICE OUTLETS	FLT DK HGR DK
NOTES PRESSURES (PSI)	
a 1800	c 2000 • 2000 - 3000 d 3500 e 5000
b 1000	d 2000 f 3200 h 500

CV(N)-69 OXYGEN AND NITROGEN SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



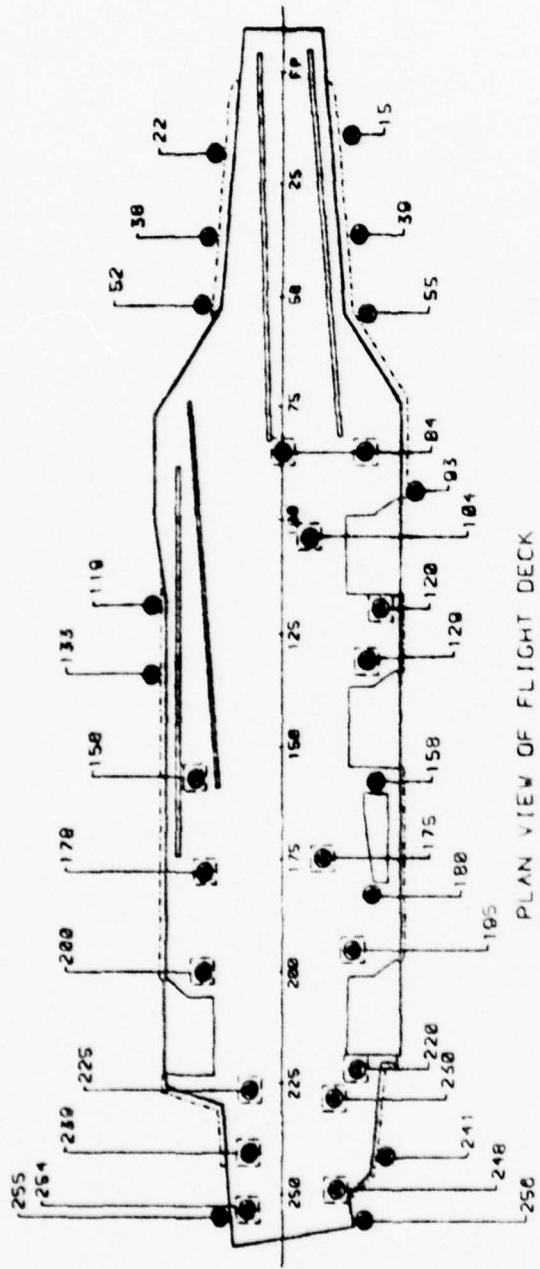
PLAN VIEW OF HANGAR DECK

- LEGEND
- ▲ CASEOUS OXYGEN 2600 PSI
  - ▲ LIQUID OXYGEN
  - CASEOUS NITROGEN 3000 PSI
  - CASEOUS NITROGEN 2000 PSI
  - ◇ CASEOUS NITROGEN 3500 PSI
  - ▲ CASEOUS OXYGEN 1800 PSI

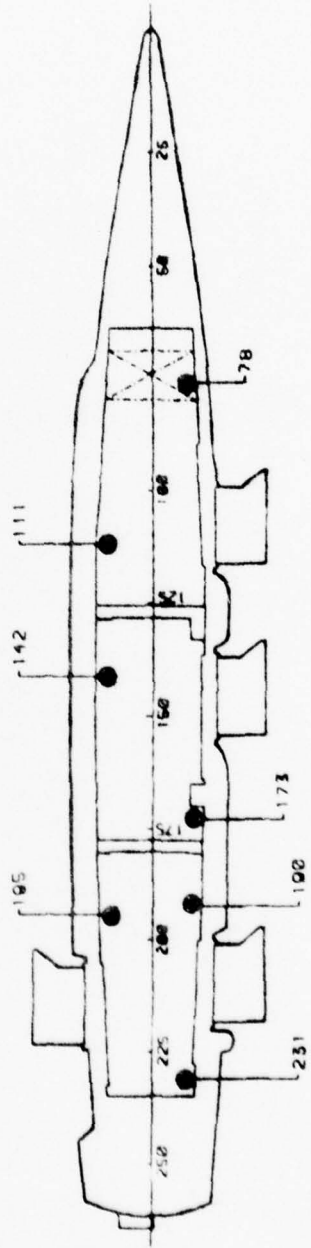
CV(N)-69 USS DWIGHT D EISENHOWER



CV(IN)-69 AIRCRAFT INERTIAL ALIGNMENT OUTLET BOX LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
● ALIGNMENT OUTLET BOX (ANALOG/DIGITAL)  
□ RECESSED

CV(IN)-69 DWIGHT D EISENHOWER

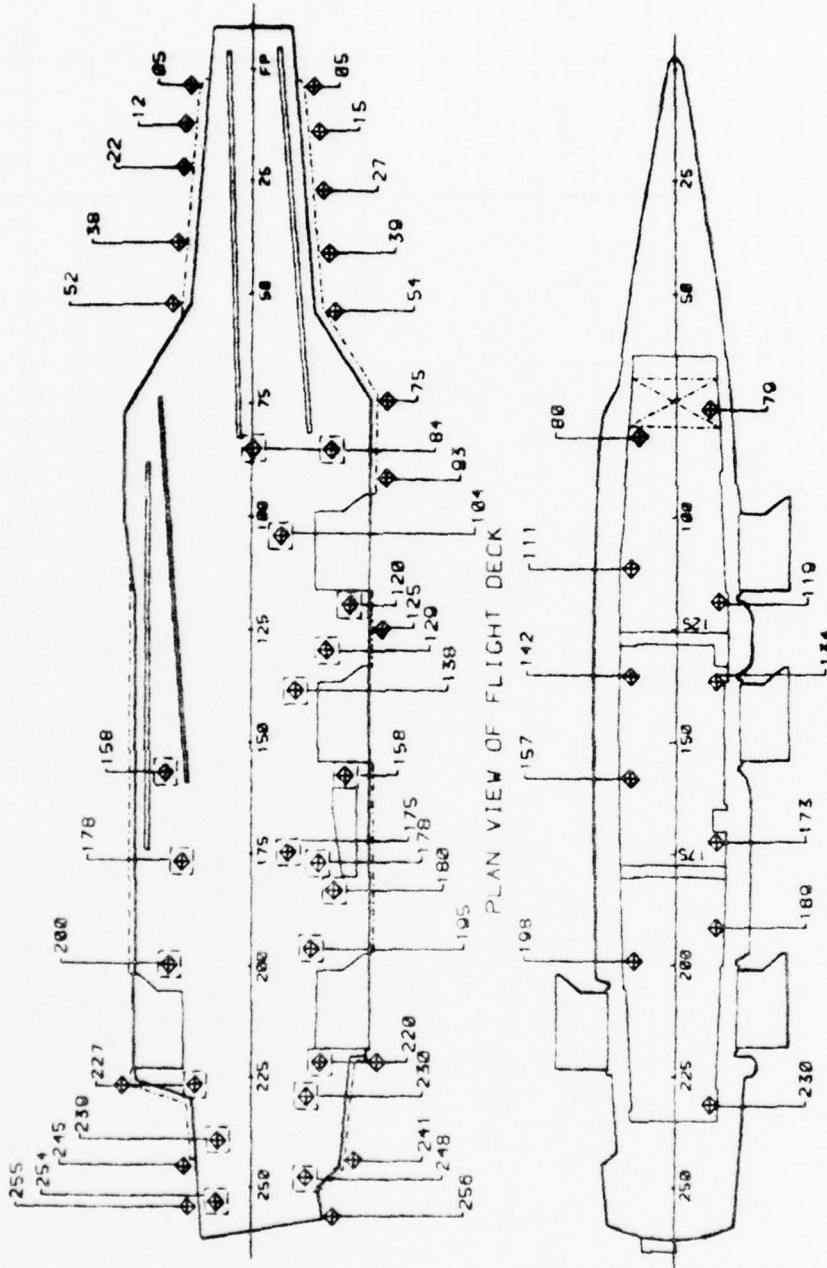
	<u>CATEGORY</u>	<u>PAGE NO.</u>
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7	Aircraft Inertial Alignment Outlet Box Summary Aircraft Inertial Alignment Outlet Box Layout	13 14
8	Aircraft Cooling and Starting Air Outlet Summary Aircraft Cooling and Starting Air Outlet Layout	15 16

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USS NIMITZ



CV(N)-68 NIMITZ AIRCRAFT ELECTRICAL SERVICE OUTLET LAYOUT (400HZ)



PLAN VIEW OF FLIGHT DECK

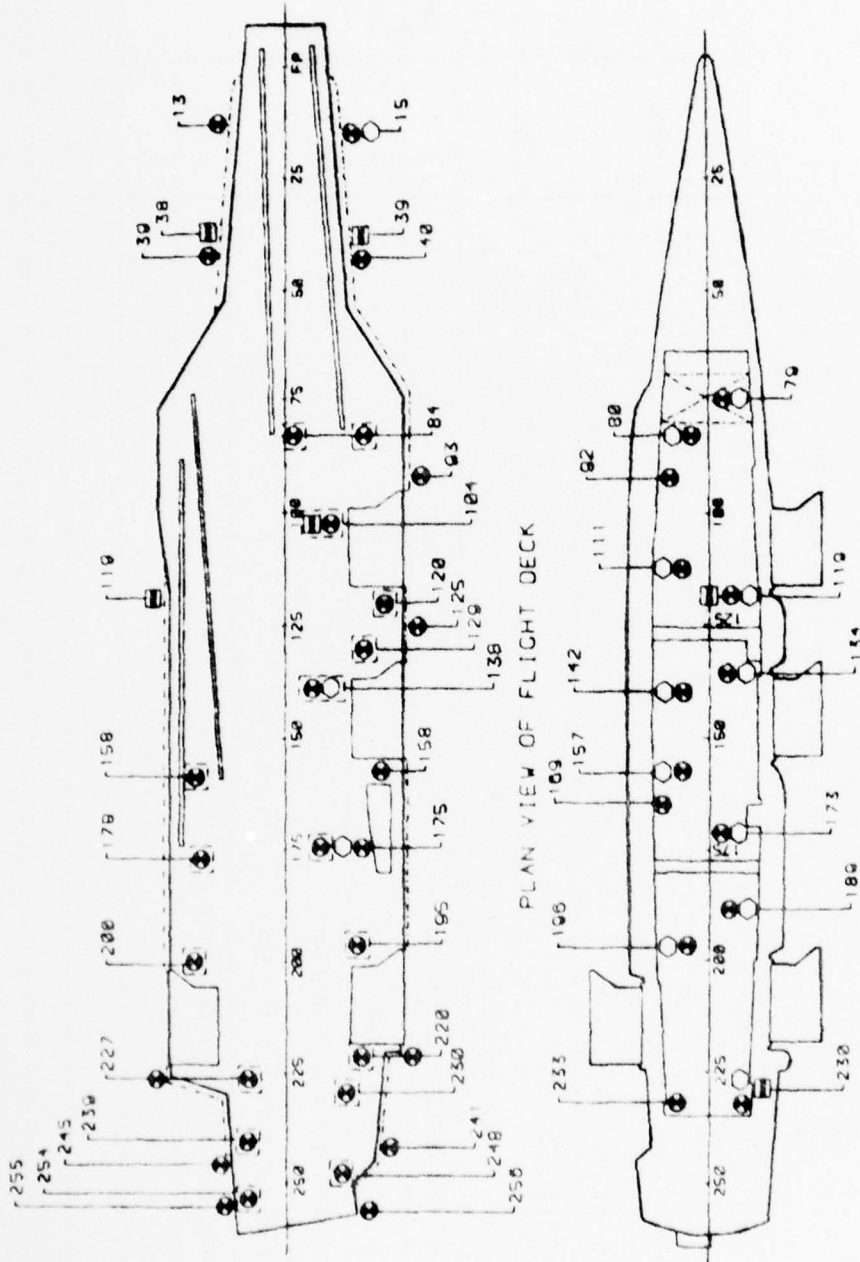
PLAN VIEW OF HANGAR DECK

CV(N)-68 USS NIMITZ

LEGEND  
◆ 400HZ, 3PH, 115/200VAC, 000KVA, TYPE 111  
┌ RECESSED

A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET SUMMARY		FLT DK	HCR DK
440 VAC SUPPORT EQUIPMENT SERVICE			
1	440 VAC 60HZ, 3PH, 25 AMP	3	11
2	440 VAC, 60HZ, 3PH, 60 AMP	NONE	NONE
3	440 VAC, 60HZ, 3PH, 100 AMP	31	14
28 5 VDC A/C SERVICE AND START			
1	28 5 VDC, 200 AMP Continuous	NONE	NONE
2	28 5 VDC, 300 AMP Cont, 600 to 900 A Inter	NONE	NONE
3	28 5 VDC, 600 AMP Cont, 600 to 900 A Inter	NONE	NONE
4	28 5 VDC, 300 AMP cont, 650 to 1000 A Inter	4	2
5	28 5 VDC, 650 AMP Cont, 650 to 1000 A Inter	NONE	NONE

CVINI-68 NIMITZ A/C ELECTRICAL AND SUPPORT EQUIPMENT SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK

PLAN VIEW OF HANGAR DECK

LEGEND  
 ○ 440VAC, 60HZ, 3PH, 25AMP  
 ○ 440VAC, 60HZ, 3PH, 100AMP  
 ⊕ 28 VDC, 302AMP CONT, 050-1000A INTER  
 □ RECESSED

CV(N)-68 USS NIMITZ

AVIATION FUEL SERVICE

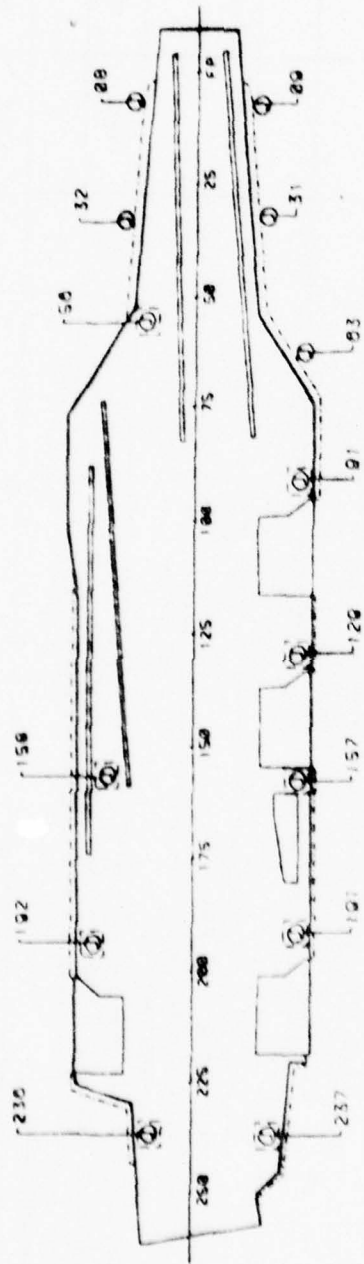
AVIATION GASOLINE AND JP-5

	AV/GAS	JP-5
1 CAPACITY GAL 95X	NONE	3,180,012
2 SERVICE OUTLETS		FLT DK 14 HGR DK 6
3 HOSES PER OUTLET	NOTE 1	FLT DK 2 HGR DK 2
4 SERVICE OUTLET CAPACITY, GPM/PSI	NOTE 2	200/40
0 TWO OUTLETS OPERATING		200/40
0 FOUR OUTLETS OPERATING		200/40
0 SIX OUTLETS OPERATING		200/40
5 DEFUELING CAPACITY PER SERVICE OUTLET GPM		100
6 DEFUELING CAPACITY PER PORTABLE PUMP GPM		50

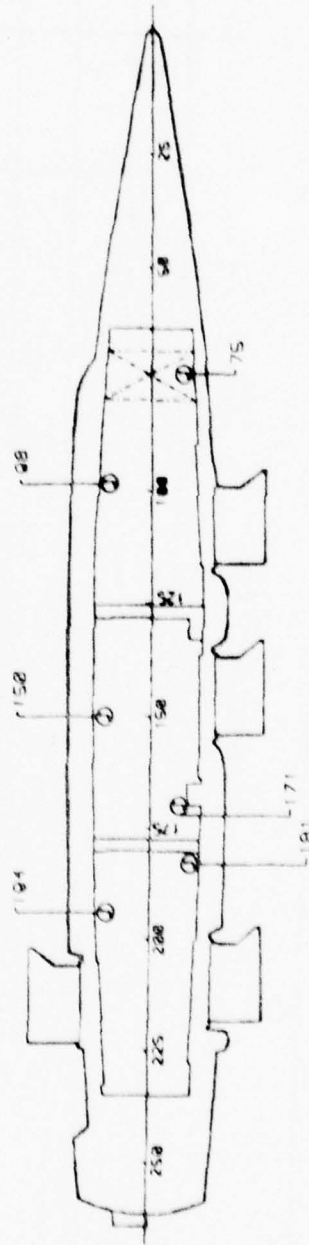
NOTES

- 1 FLT DK STATIONS 3 HOSE, 03-0-2, 03-32-2, 03-0-1, 03-31-1, 03-03-1, 4 HOSE 03-230-2, 03-237-1
- 2 2-1/2" HOSE JP-5

CV(N)-68 NIMITZ AVIATION FUEL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
○ JP-5  
◌ RECESSED

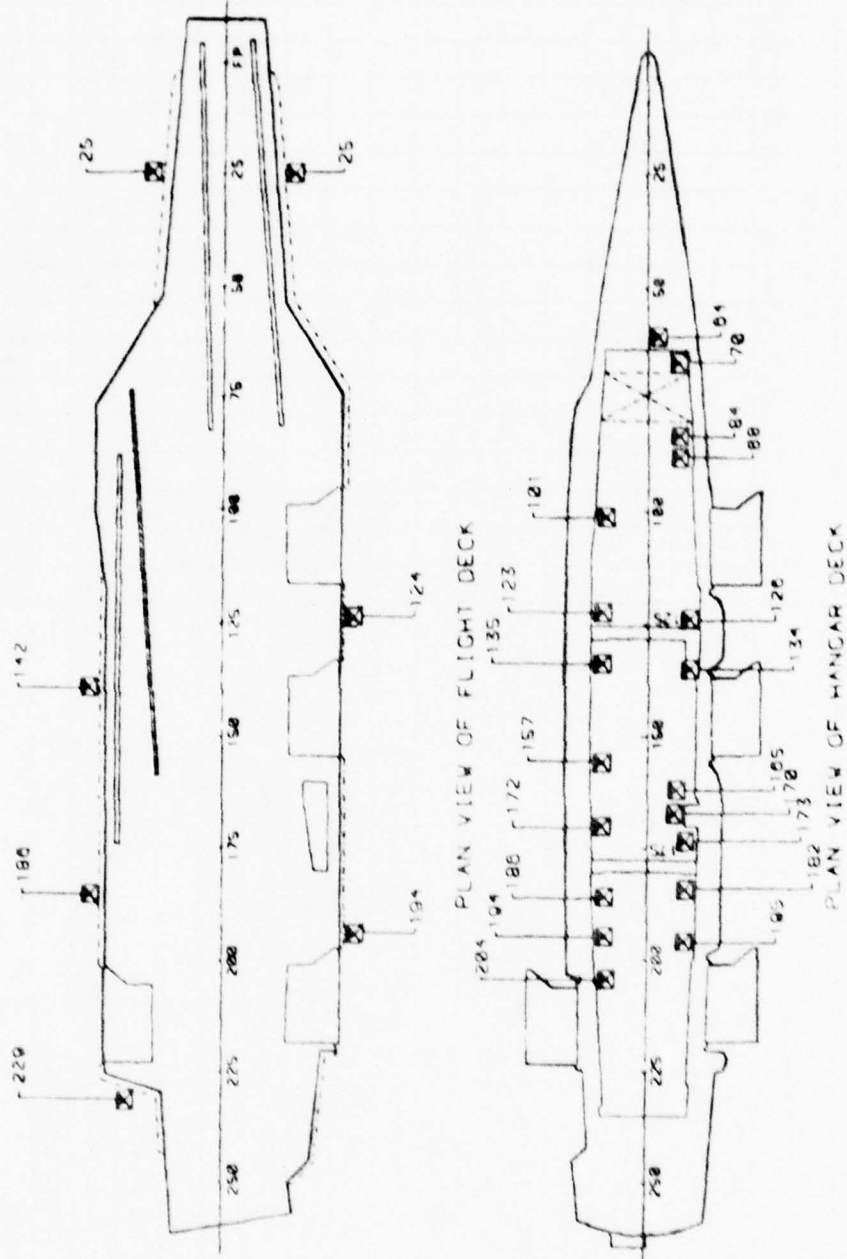
CV(N)-68 USS NIMITZ

COMPRESSED AIR SERVICE SUMMARY

COMPRESSED AIR

	FLT DK	HGR DK
LOW PRESSURE		
1 SERVICE OUTLETS @ 125 PSI	7	10
REDUCED PRESSURE		
1 SERVICE OUTLETS @	NONE	NONE
MEDIUM PRESSURE		
1 SERVICE OUTLETS @ 1800 PSI	NONE	NONE
MEDIUM TO HIGH PRESSURE		
1 SERVICE OUTLETS @ 1800 to 3000 PSI (VARIABLE)	NONE	NONE
HIGH PRESSURE		
1 SERVICE OUTLETS @ 3200 PSI	NONE	NONE
TIRE CHANGING AIR		
1 SERVICE OUTLETS @	NONE	NONE

CV(NI)-68 NIMITZ COMPRESSED AIR SERVICE OUTLET LAYOUT

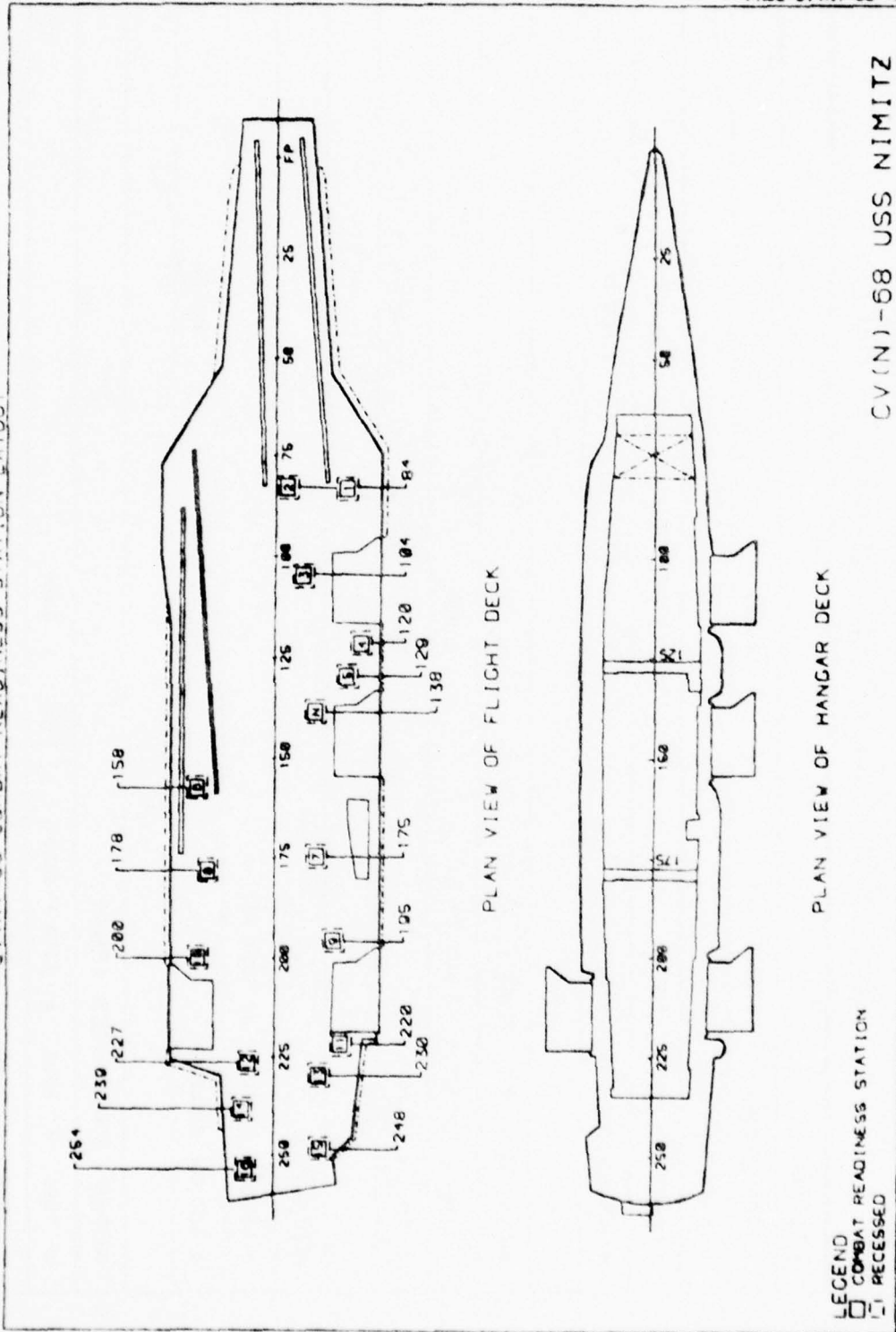


LEGEND  
☒ 125 PSI

CV(NI)-68 USS NIMITZ



CV(N)-68 COMBAT READINESS STATION LAYOUT



CV(N)-68 USS NIMITZ

OXYGEN AND NITROGEN SERVICE SUMMARY

OXYGEN

1 STORAGE CAPACITY, LIQUID GALS 2,000

2 GENERATING CAPACITY GPH 10

3 SERVICE OUTLETS, LIQUID FLT DK NONE HGR DK 2

4 SERVICE OUTLETS, CASEOUS FLT DK NONE HGR DK 1<sup>d</sup>

NITROGEN (OIL FREE)

1 STORAGE CAPACITY, LIQUID GALS 2,000

2 SERVICE OUTLETS FLT DK 3<sup>g</sup> HGR DK 4<sup>c</sup>, 1<sup>f</sup>, 3<sup>g</sup>

NITROGEN

1 STORAGE CAPACITY @ 3000 PSI

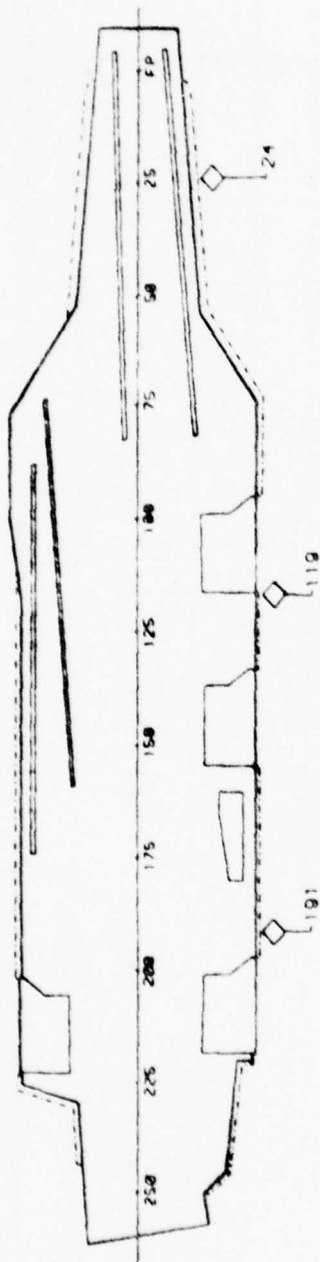
2 SERVICE OUTLETS FLT DK HGR DK

NOTES PRESSURES (PSI)

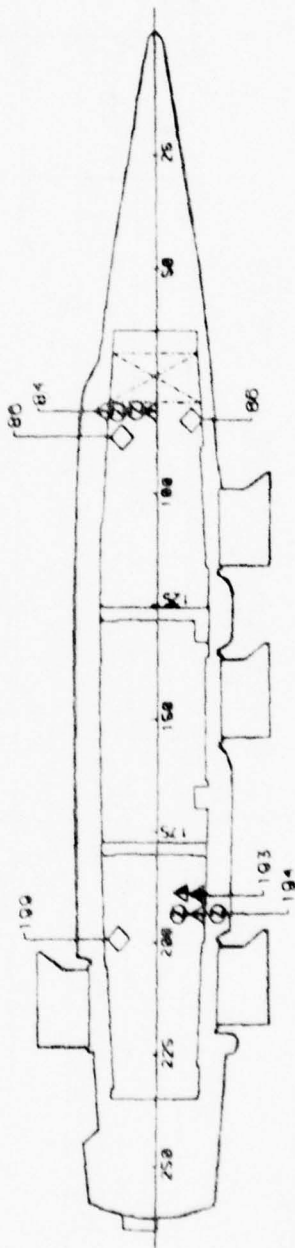
a 1000 c 2000 e 2000 - 3000 g 3500 i 5000

b 1000 d 2000 f 3000 h 500

CV(N)-68 NIMITZ OXYGEN AND NITROGEN SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



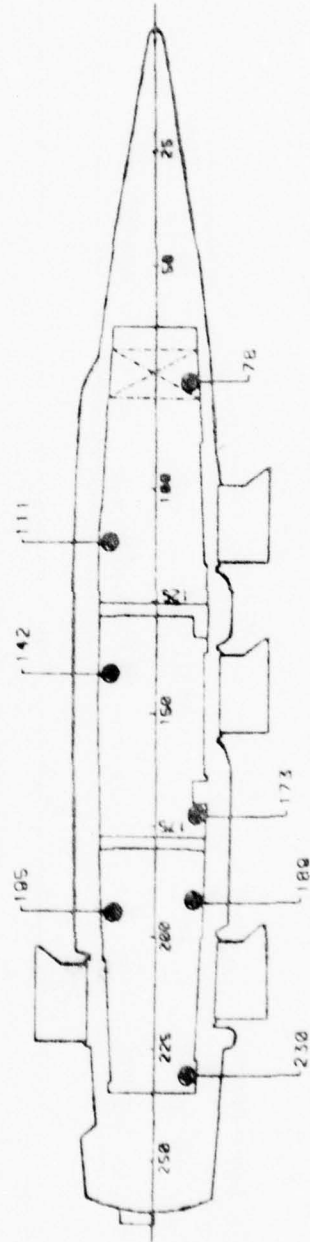
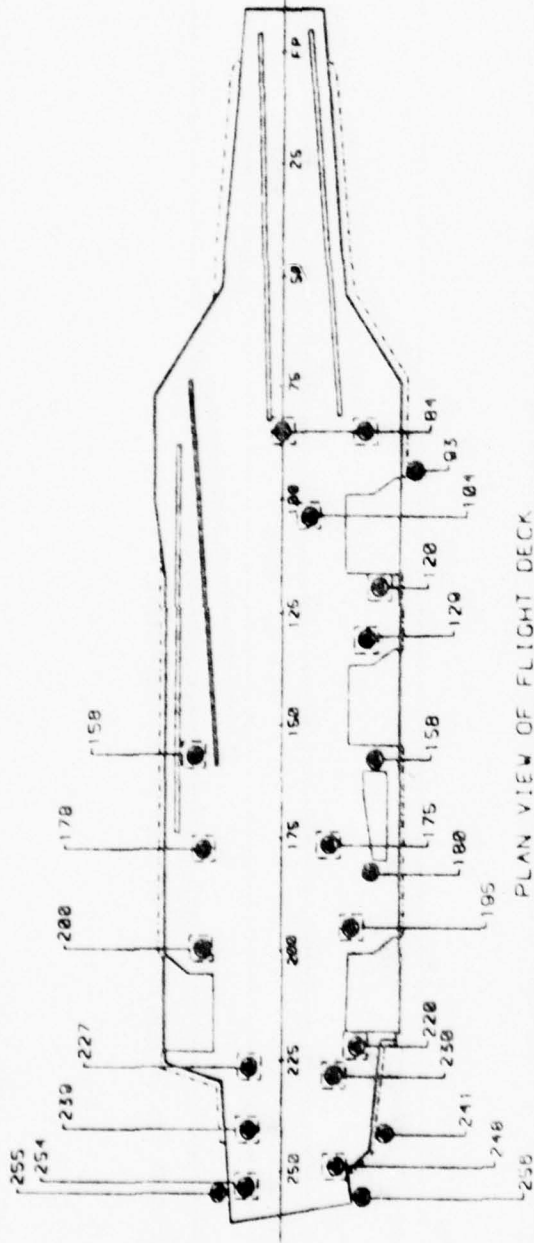
PLAN VIEW OF HANGAR DECK

- LEGEND
- ▲ CASEOUS OXYGEN 2600 PSI
  - LIQUID OXYGEN
  - CASEOUS NITROGEN 3000 PSI
  - CASEOUS NITROGEN 2000 PSI
  - CASEOUS NITROGEN 3500 PSI
  - ▲ CASEOUS OXYGEN 1800 PSI

CV(N)-68 USS NIMITZ



CV(N)-68 NIMITZ AIRCRAFT INERTIAL ALIGNMENT OUTLET BOX LAYOUT



LEGEND  
● ALIGNMENT OUTLET BOX (ANALOG/DIGITAL)  
□ RECESSED

CV(N)-68 USS NIMITZ

COOLING AND STARTING AIR  
OUTLET SUMMARY

COOLING AIR

1 OUTLET CAPACITY

SEE NOTE

2 SERVICE OUTLETS

FLT DK 0

HCR DK NONE

STARTING AIR

1 OUTLET CAPACITY

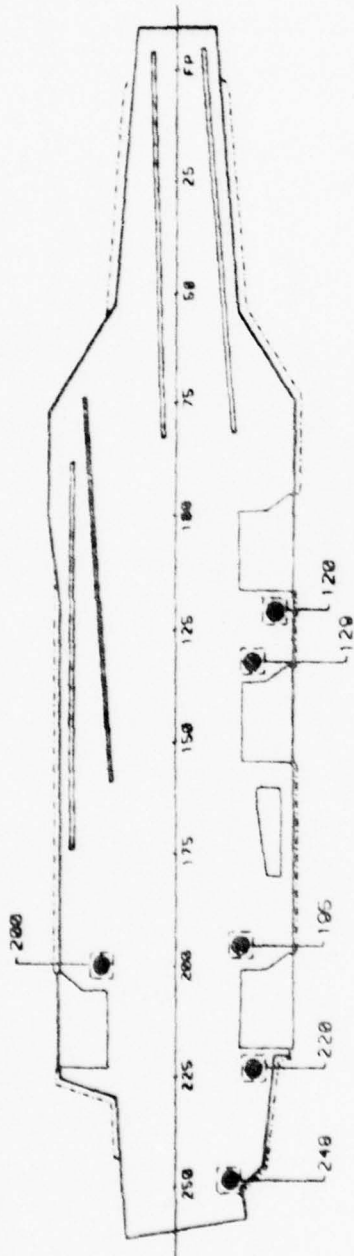
2 SERVICE OUTLETS

FLT DK NONE

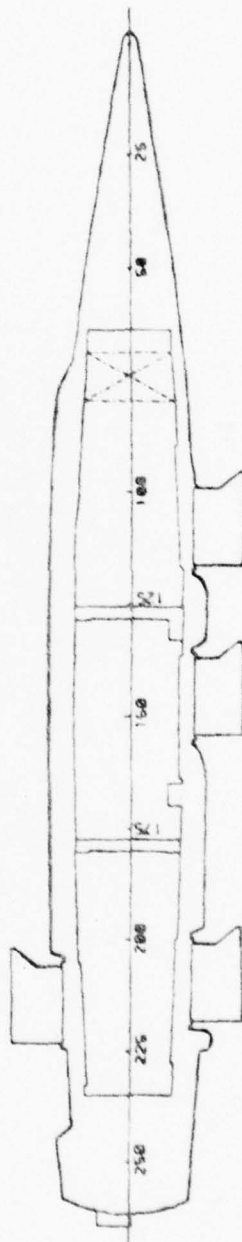
HCR DK NONE

NOTE COOLING SYSTEM IS OUT OF COMMISSION INDEFINITELY

CV(N)-68 AIRCRAFT COOLING AIR SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

● COOLING AIR SERVICE  
□ RECESSED

CV(N)-68 USS NIMITZ

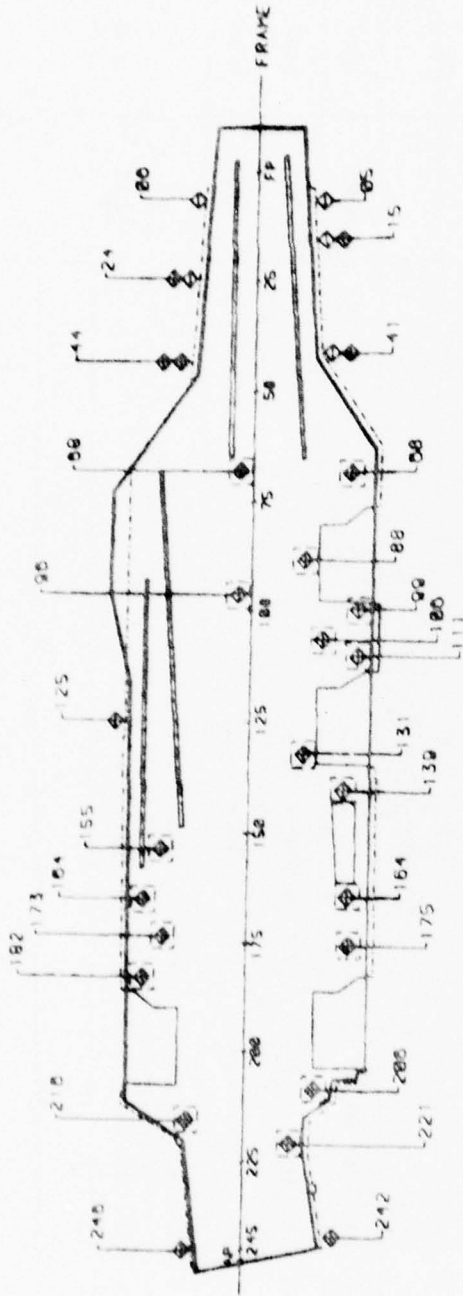
PAGE NO.

CATEGORY

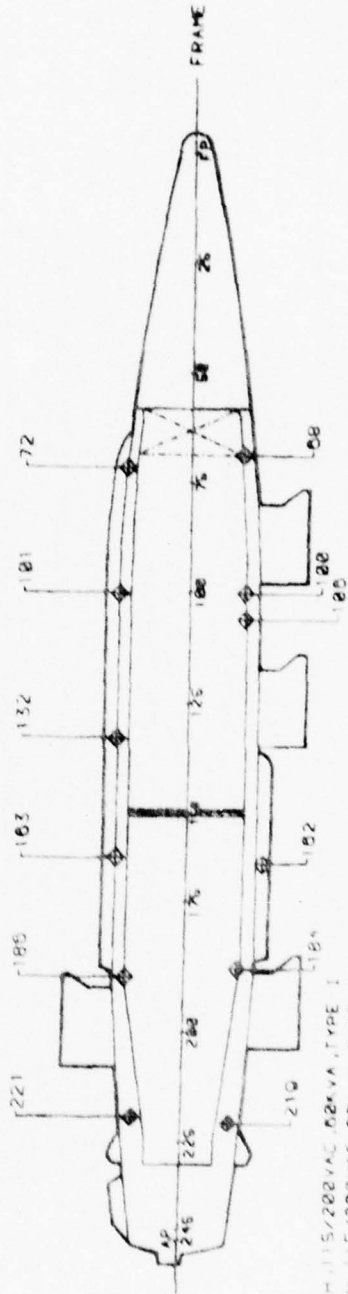
1	Aircraft Electrical Service Outlet Summary (1400 Hz)	1
	Aircraft Electrical Service Outlet Layout (1400 Hz)	2
2	Aircraft Electrical and Support Equipment Service Outlet Summary (28.5 VDC, 440 VAC)	3
	Aircraft Electrical and Support Equipment Service Outlet Layout (28.5 VDC, 440 VAC)	4
3	Aviation Fuel Service Summary	5
	Aviation Fuel Service Outlet Layout	6
4	Compressed Air Service Summary	7
	Compressed Air Service Outlet Layout	8
5	Combat Readiness Station Service Summary	9
	Combat Readiness Station Layout	10
6	Oxygen and Nitrogen Service Summary	11
	Oxygen and Nitrogen Service Outlet Layout	12
7	Aircraft Inertial Alignment Outlet Box Summary	13
	Aircraft Inertial Alignment Outlet Box Layout	14
8	Aircraft Cooling and Starting Air Outlet Summary	15
	Aircraft Cooling and Starting Air Outlet Layout	16



CV-67 J F KENNEDY AIRCRAFT ELECTRICAL SERVICE OUTLET LAYOUT 1428 HZ



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND:  
 ○ 420HZ 3PH, 115/200VAC 60KVA, TYPE I  
 ⊕ 400HZ 3PH, 115/200VAC 60KVA, TYPE III  
 □ RECESSED

CV-67 USS JOHN F KENNEDY

A/C START AND SUPPORT EQUIPMENT  
 ELECTRICAL SERVICE OUTLET SUMMARY

440 VAC SUPPORT EQUIPMENT SERVICE  
 28 5 VDC A/C SERVICE AND START

440 VAC SUPPORT EQUIPMENT SERVICE

1 440 VAC 60HZ, 3PH, 25 AMP

2 440 VAC, 60HZ, 3PH, 60 AMP

3 440 VAC, 60HZ, 3PH, 100 AMP

28 5 VDC A/C SERVICE AND START

1 28 5 VDC, 200 AMP Continuous

2 28 5 VDC, 300 AMP Cont, 600 to 900 A Inter

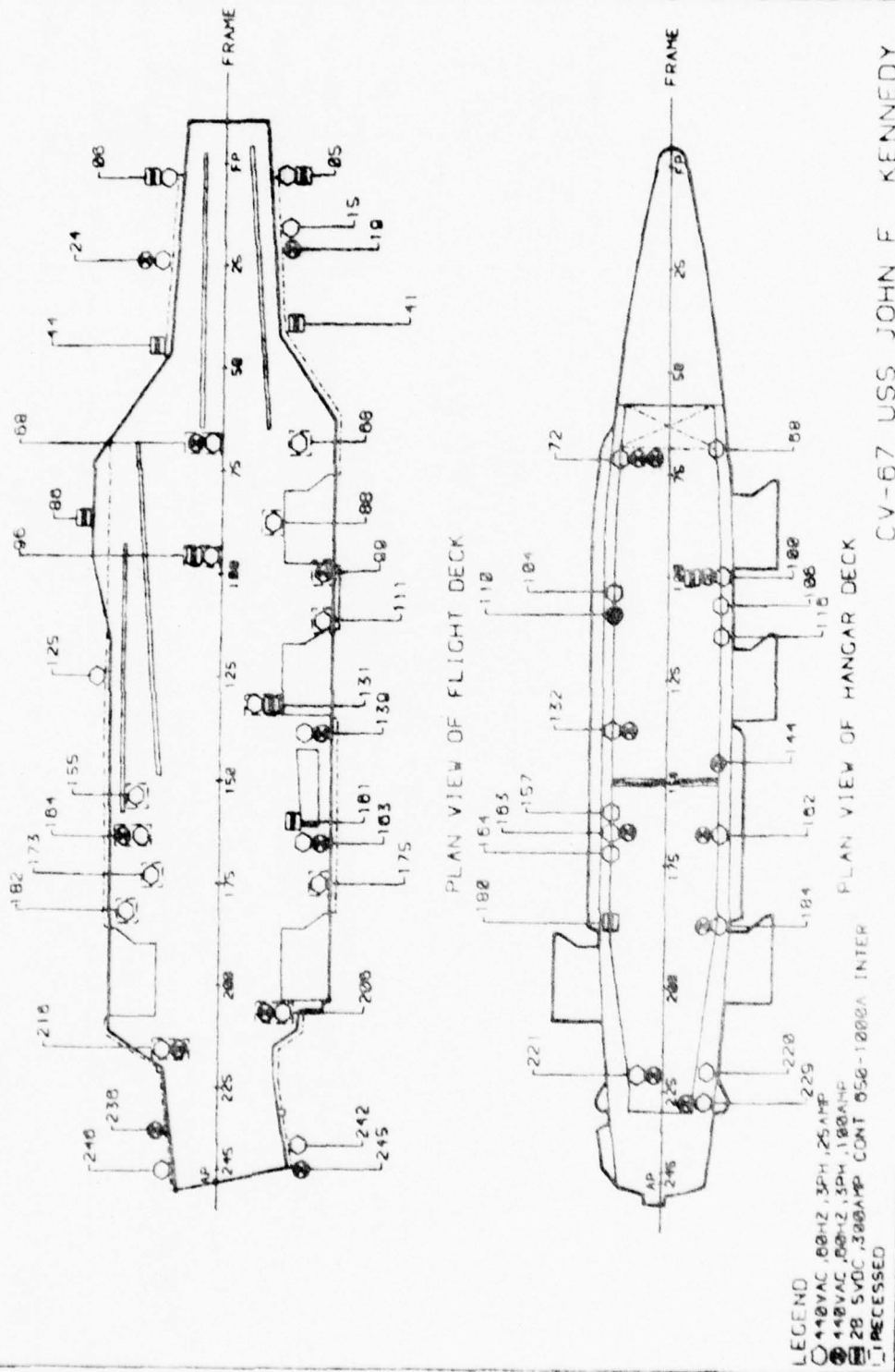
3 28 5 VDC, 600 AMP Cont, 600 to 900 A Inter

4 28 5 VDC, 300 AMP cont, 650 to 1000 A Inter

5 28 5 VDC, 650 AMP Cont, 650 to 1000 A Inter

	FLT DK	HCR DK
	22	15
	NONE	NONE
	11	11
	NONE	NONE
	NONE	NONE
	NONE	NONE
	8	2
	NONE	NONE

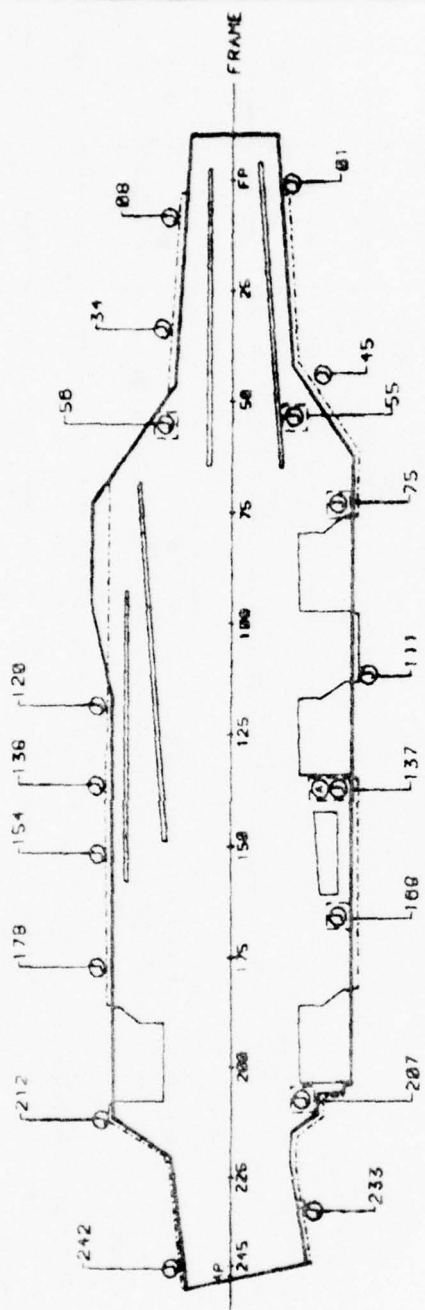
CV-67 J F KENNEDY A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET LAYOUT



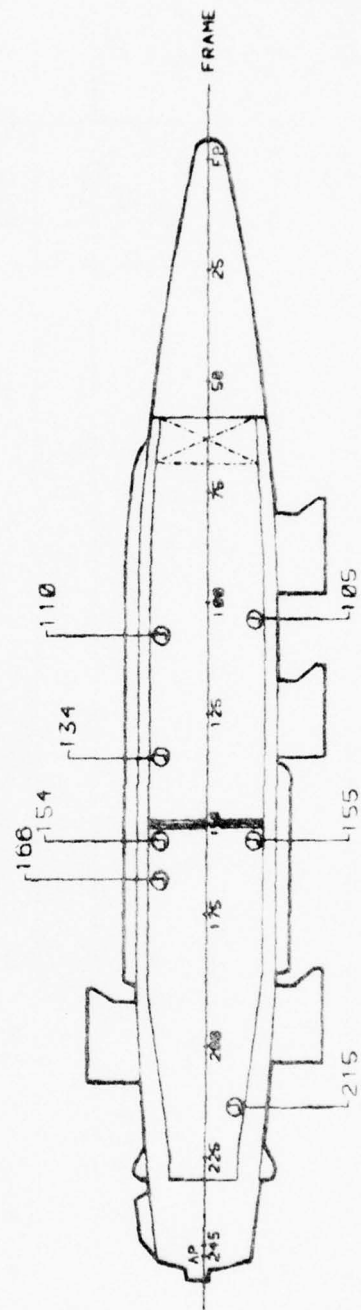
CV-67 USS JOHN F KENNEDY



CV-67 J. F. KENNEDY AVIATION FUEL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
 ○ AV/GAS  
 ⊙ JP-5  
 ◌ RECESSED

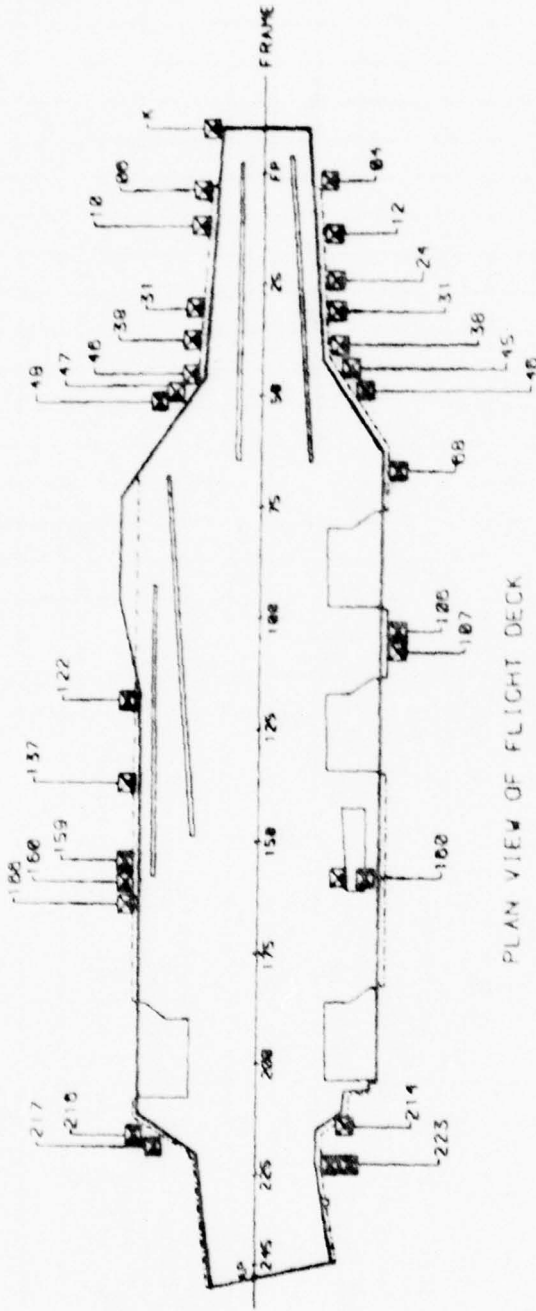
CV-67 USS JOHN F. KENNEDY

COMPRESSED AIR SERVICE SUMMARY

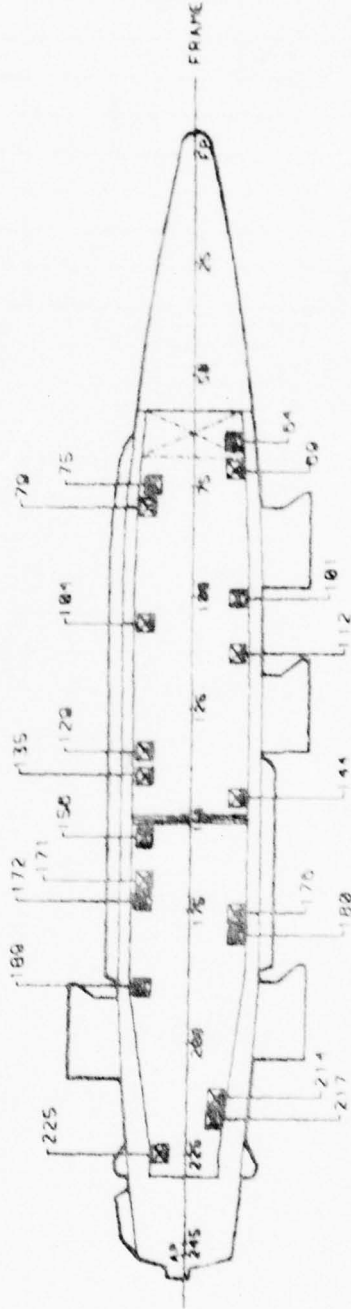
COMPRESSED AIR

LOW PRESSURE	FLT DK	MGR DK
1 SERVICE OUTLETS ●	16	11
REDUCED PRESSURE	NONE	5
1 SERVICE OUTLETS ●		
MEDIUM PRESSURE		
1 SERVICE OUTLETS ● 1800 PSI	3	NONE
MEDIUM TO HIGH PRESSURE		
1 SERVICE OUTLETS ● 1800 TO 3000 PSI (VARIABLE)	NONE	NONE
HIGH PRESSURE		
1 SERVICE OUTLETS ● 3000 PSI	11	3
TIRE CHANGING AIR		
1 SERVICE OUTLETS ●	NONE	NONE

CV-87 J. F. KENNEDY COMPRESSED AIR SERVICE LAYOUT



PLAN VIEW OF FLIGHT DECK



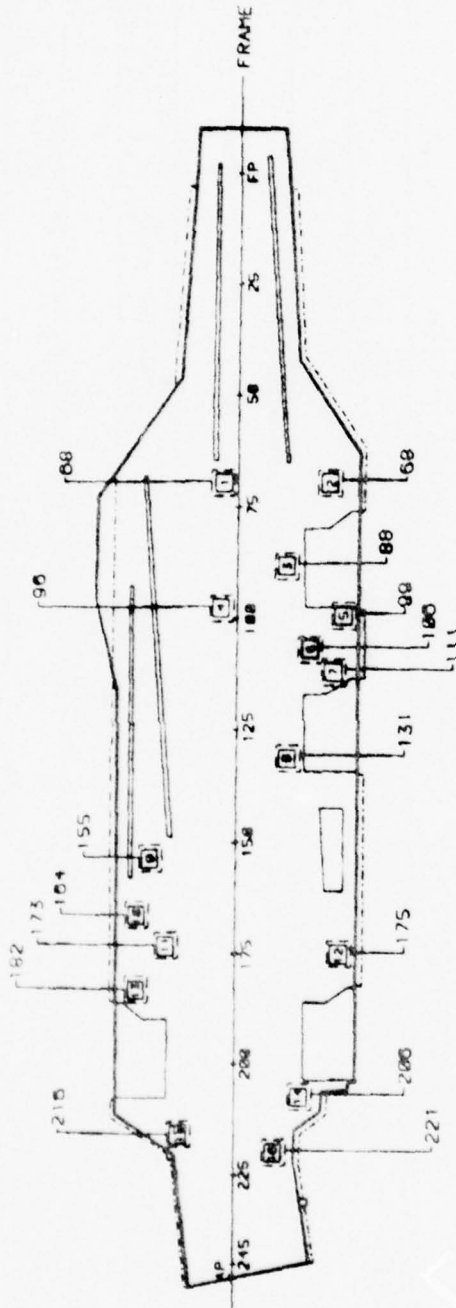
PLAN VIEW OF HANGAR DECK

LEGEND  
 [Symbol] LOW PRESSURE AIR, 80-150 PSI  
 [Symbol] MEDIUM PRESSURE AIR, 1800 PSI  
 [Symbol] HIGH PRESSURE AIR, 2000 PSI  
 [Symbol] REDUCED PRESSURE AIR, 200 PSI

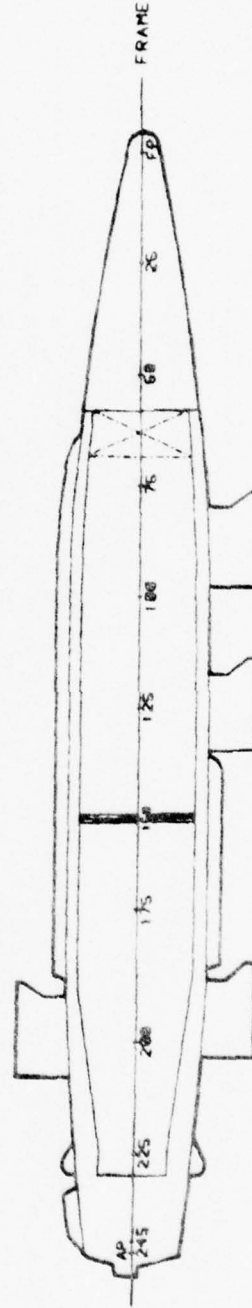
CV-87 USS JOHN F. KENNEDY



CV-67 J. F. KENNEDY COMBAT READINESS STATION LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
 □ COMBAT READINESS STATION  
 ▭ RECESSED

CV-67 USS JOHN F. KENNEDY

OXYGEN AND NITROGEN SERVICE SUMMARY

OXYGEN

1 STORAGE CAPACITY, LIQUID GALS 3000

2 GENERATING CAPACITY GPH 32

3 SERVICE OUTLETS, LIQUID FLT DK NONE HGR DK 2

4 SERVICE OUTLETS, CASEOUS FLT DK NONE HGR DK 2<sup>D</sup>

NITROGEN (OIL FREE)

1 STORAGE CAPACITY @ 5000 PSI 40 CU FT

2 SERVICE OUTLETS FLT DK 1<sup>O</sup>, 1<sup>F</sup> HGR DK 2<sup>O</sup>, 1<sup>F</sup>

NITROGEN

1 STORAGE CAPACITY @ 3000 PSI NONE

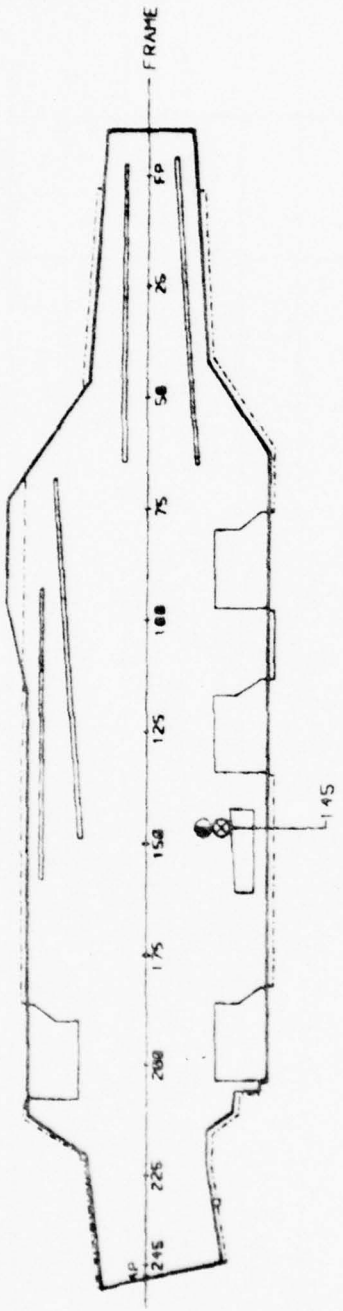
2 SERVICE OUTLETS FLT DK NONE HGR DK NONE

NOTES PRESSURES (PSI)

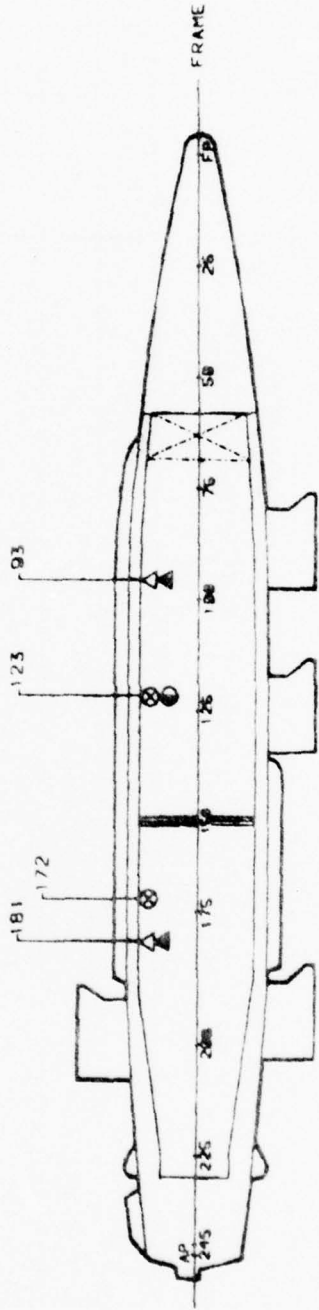
a 1000 c 2000 e 2000 - 3000 g 3500 i 5000

b 1000 d 2000 f 3000 h 500

CV-67 J. F. KENNEDY OXYGEN AND NITROGEN SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



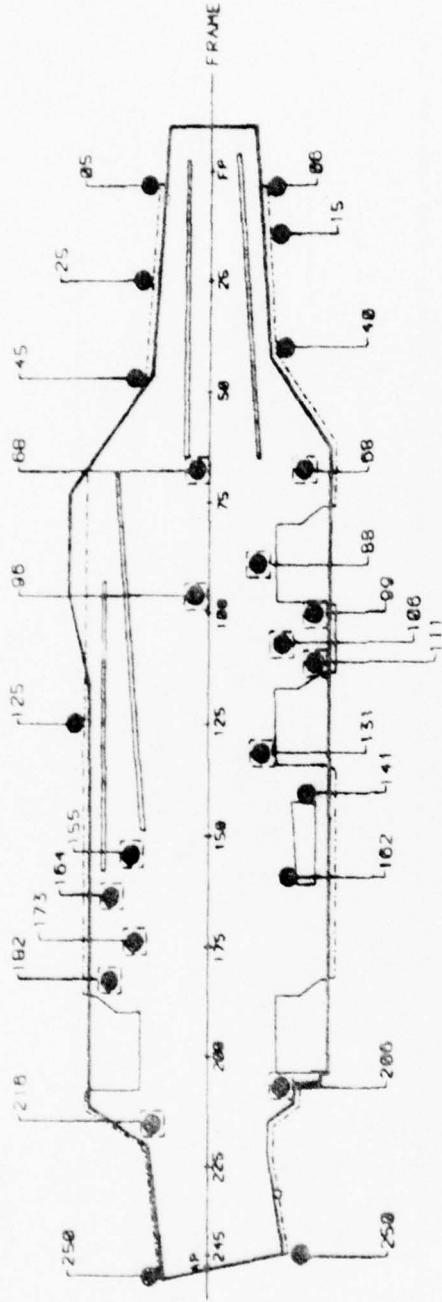
PLAN VIEW OF HANGAR DECK

- LEGEND
- △ CASEOUS OXYGEN 1000 PSI
  - LIQUID OXYGEN
  - ⊗ CASEOUS NITROGEN 1000 PSI
  - ⊙ CASEOUS NITROGEN 3000 PSI

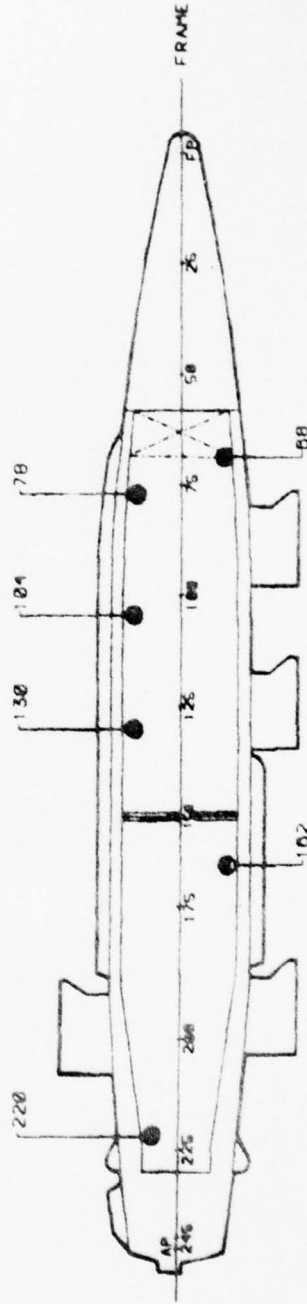
CV-67 USS JOHN F. KENNEDY



CV-67 J/F KENNEDY AIRCRAFT INERTIAL ALIGNMENT OUTLET BOX LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
● ALIGNMENT OUTLET BOX (ANALOG/DIGITAL)  
┌ PRECESSED

CV-67 USS JOHN F KENNEDY

COOLING AND STARTING AIR  
OUTLET SUMMARY

COOLING AIR

1 OUTLET CAPACITY

50 PPM, 5 PSIC, 35° F

2 SERVICE OUTLETS

FLT DK 16

HCR DK NONE

STARTING AIR

1 OUTLET CAPACITY

RATIO  
3 3 10 1  
5 5 10 1

FLOW  
100-160 PPM  
160-250 PPM

PRESSURE  
46 10 62 PSIC  
56 10 91 PSIC

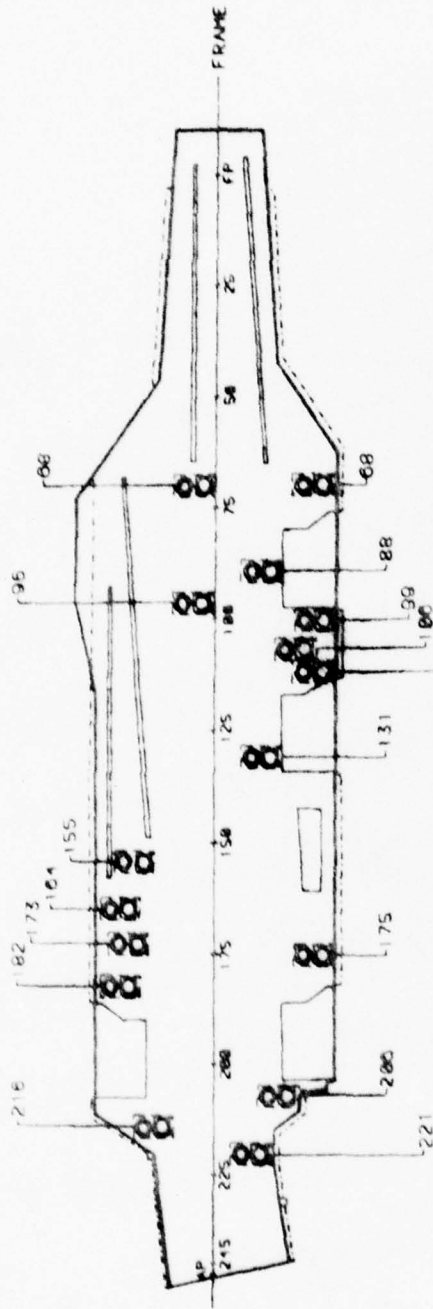
TEMP.  
210° 10 425° F  
350° 10 600° F

2 SERVICE OUTLETS

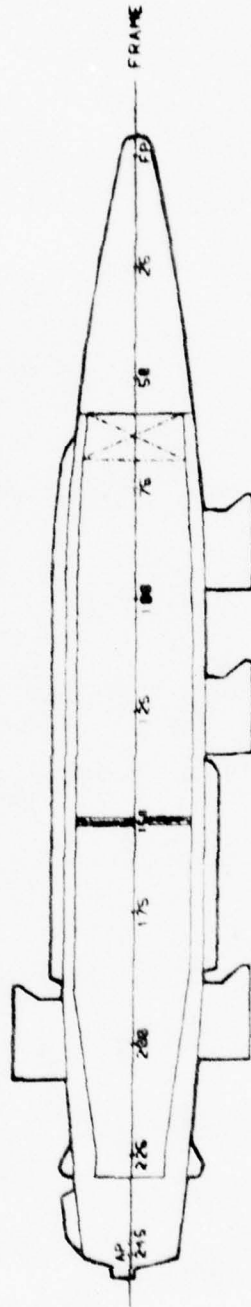
FLT DK 16

HCR DK NONE

CV-67 J. F. KENNEDY COOLING AND STARTING AIR SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
 ○ SERVICE, COOLING AIR  
 ◐ SERVICE, STARTING AIR  
 □ RECESSED

CV-67 USS JOHN F. KENNEDY

	<u>CATEGORY</u>	<u>PAGE NO.</u>
1	Aircraft Electrical Service Outlet Summary (400 Hz) Aircraft Electrical Service Outlet Layout (400 Hz)	1 2
2	Aircraft Electrical and Support Equipment Service Outlet Summary (28.5 VDC, 440 VAC)	3
	Aircraft Electrical and Support Equipment Service Outlet Layout (28.5 VDC, 440 VAC)	4
3	Aviation Fuel Service Summary Aviation Fuel Service Outlet Layout	5 6
4	Compressed Air Service Summary Compressed Air Service Outlet Layout	7 8
5	Combat Readiness Station Service Summary Combat Readiness Station Layout	9 10
6	Oxygen and Nitrogen Service Summary Oxygen and Nitrogen Service Outlet Layout	11 12
7	Aircraft Inertial Alignment Outlet Box Summary Aircraft Inertial Alignment Outlet Box Layout	13 14
8	Aircraft Cooling and Starting Air Outlet Summary Aircraft Cooling and Starting Air Outlet Layout	15 16





A/C START AND SUPPORT EQUIPMENT  
 ELECTRICAL SERVICE OUTLET SUMMARY

440 VAC SUPPORT EQUIPMENT SERVICE  
 28 5 VDC A/C SERVICE AND START

440 VAC SUPPORT EQUIPMENT SERVICE

1 440 VAC 60Hz, 3PH, 25 AMP

2 440 VAC, 60Hz, 3PH, 00 AMP

3 440 VAC, 60Hz, 3PH, 100 AMP

28 5 VDC A/C SERVICE AND START

1 28 5 VDC, 200 AMP Continuous

2 28 5 VDC, 300 AMP Cont, 000 to 000 A Inter

3 28 5 VDC, 000 AMP Cont, 000 to 000 A Inter

4 28 5 VDC, 300 AMP cont, 050 to 1000 A Inter

5 28 5 VDC, 050 AMP Cont, 050 to 1000 A Inter

	FLT DK	MGR DK
	21	10
	NONE	NONE
	10	13
	NONE	NONE
	NONE	NONE
	NONE	NONE
	0	2
	NONE	NONE



AVIATION FUEL SERVICE

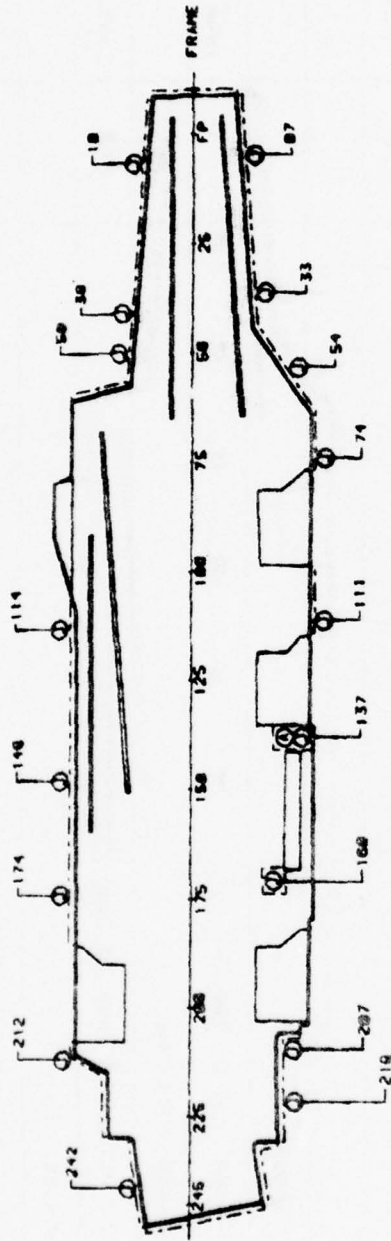
AVIATION GASOLINE AND JP-5

	AV/GAS	JP-5
1 CAPACITY GAL. 95%	0,483	1,077,078
2 SERVICE OUTLETS	FLT DK 1 HGR DK 1	FLT DK 17 HGR DK 8
3 HOSES PER OUTLET	NOTE 2	NOTE 2
4 SERVICE OUTLET CAPACITY, GPH/PSI	NOTE 1	NOTE 1
a. TWO OUTLETS OPERATING	08/35	208/35
b. FOUR OUTLETS OPERATING	N/A	208/35
c. SIX OUTLETS OPERATING	N/A	208/35
5 DEFUELING CAPACITY PER SERVICE OUTLET GPH	58	100
6 DEFUELING CAPACITY PER PORTABLE PUMP GPH	25	25

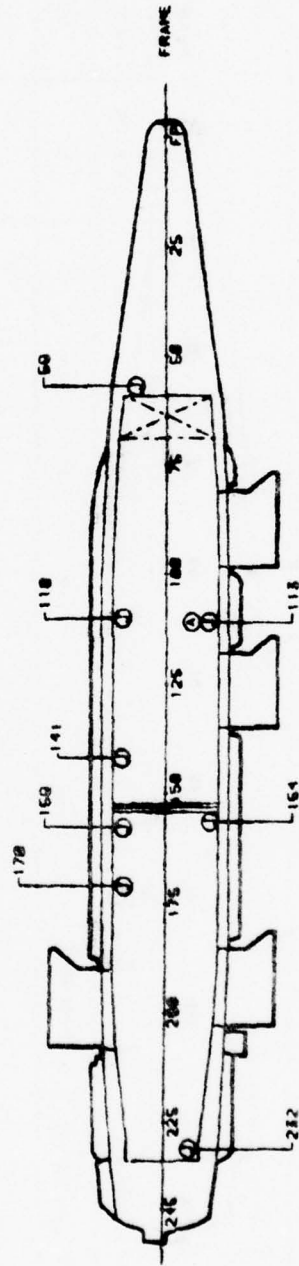
NOTES

- 1 1-1/2" hose AV/GAS, 2-1/2" JP-5
- 2 AV/GAS From 111 STBO HGR DK 1e o 2 hose station

CV-66 AMERICA AVIATION FUEL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
 ○ AV/GAS  
 ⊙ JP-5  
 □ UNNECESSARY

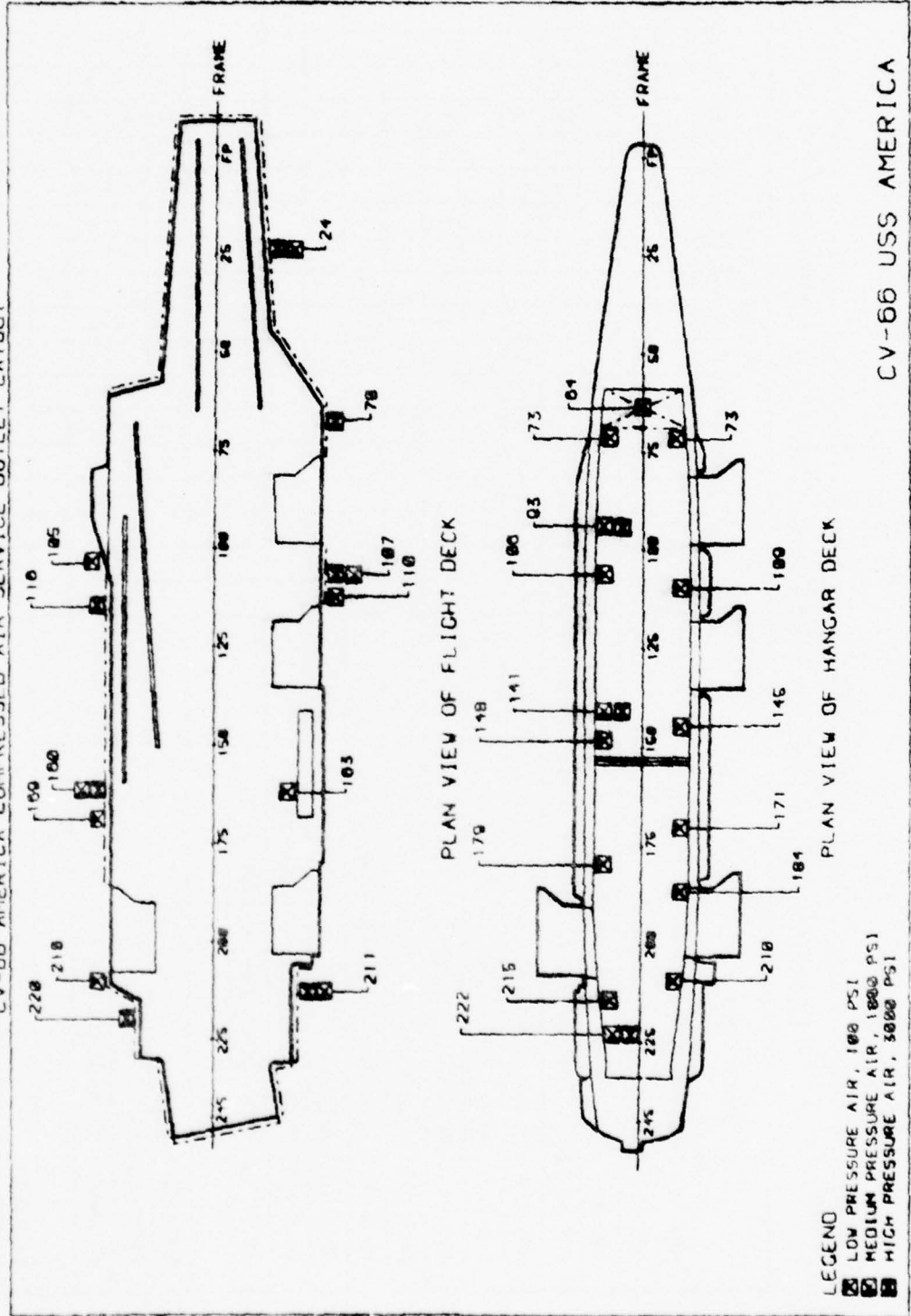
CV-66 USS AMERICA

COMPRESSED AIR SERVICE SUMMARY

COMPRESSED AIR

	FLT DK	HCR DK
LOW PRESSURE		
1 SERVICE OUTLETS @ 100 PSI	5	12
REDUCED PRESSURE		
1 SERVICE OUTLETS @	NONE	NONE
MEDIUM PRESSURE		
1 SERVICE OUTLETS @ 1800 PSI	4	3
MEDIUM TO HIGH PRESSURE		
1 SERVICE OUTLETS @ 1800 TO 3000 PSI (VARIABLE)	NONE	NONE
HIGH PRESSURE		
1 SERVICE OUTLETS @ 3000 PSI	7	3
TIRE CHANGING AIR		
1 SERVICE OUTLETS @	NONE	NONE

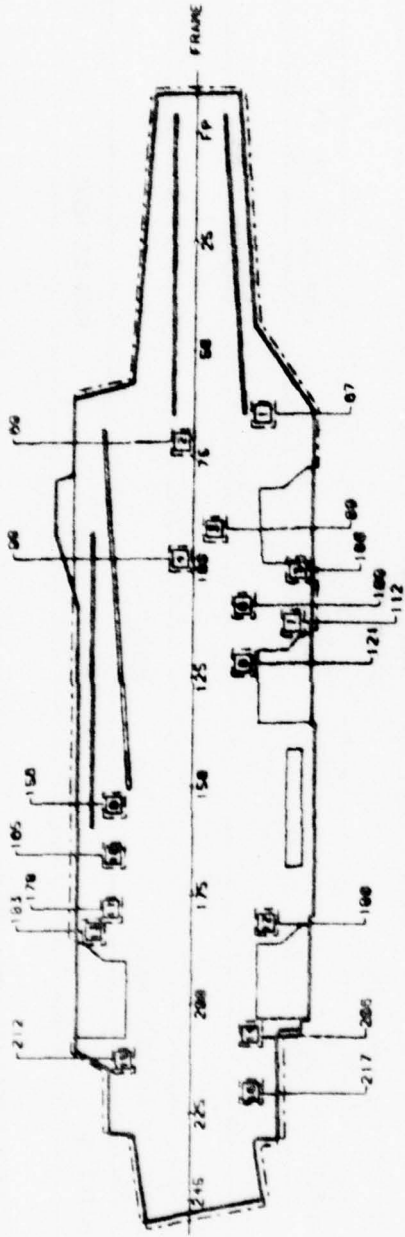
CV-66 AMERICA COMPRESSED AIR SERVICE OUTLET LAYOUT



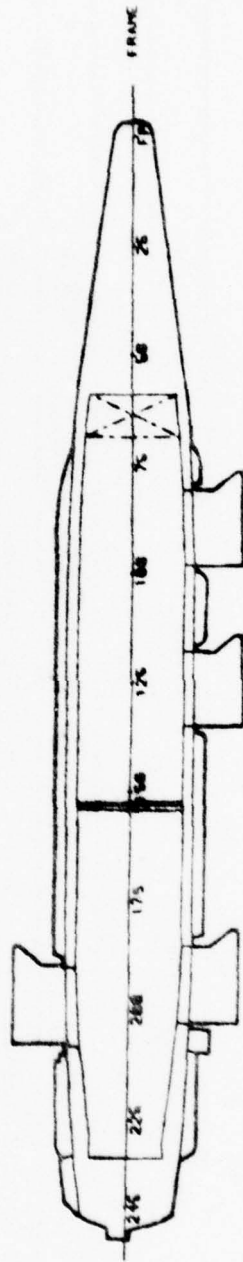
CV-66 USS AMERICA



CV-66 AMERICA COMBAT READINESS STATION LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
□ COMBAT READINESS STATION  
□ RECESSED

CV-66 USS AMERICA

OXYGEN AND NITROGEN SERVICE SUMMARY

OXYGEN

1 STORAGE CAPACITY, LIQUID GALS	1500	
2 GENERATING CAPACITY GPH	35	
3 SERVICE OUTLETS, LIQUID	FLT DK NONE	HGR DK 2
4 SERVICE OUTLETS, GASEOUS	FLT DK NONE	HGR DK 2 <sup>d</sup>

NITROGEN (OIL FREE)

1 STORAGE CAPACITY @ 5000 PSI	80 cu ft	
2 SERVICE OUTLETS	FLT DK 2 <sup>f</sup>	HGR DK 2 <sup>f</sup> , 1 <sup>h</sup> , 1 <sup>i</sup>

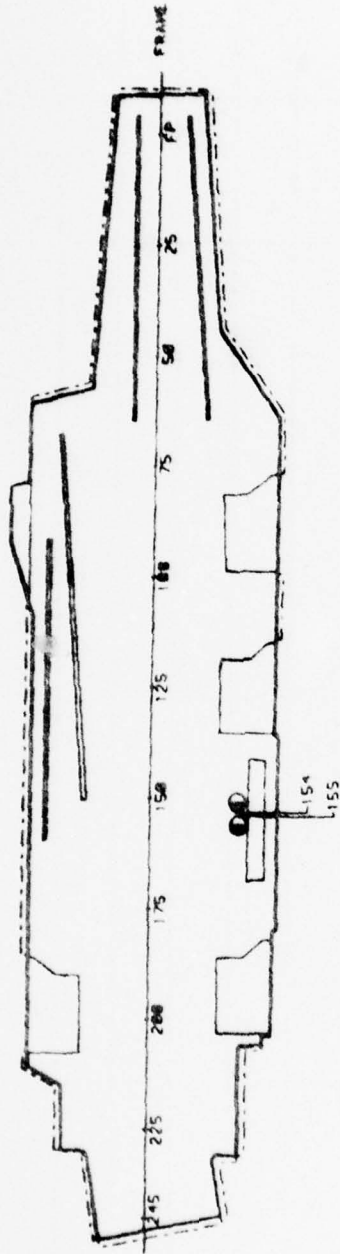
NITROGEN

1 STORAGE CAPACITY @ 3000 PSI	NONE	
2 SERVICE OUTLETS	FLT DK NONE	HGR DK NONE

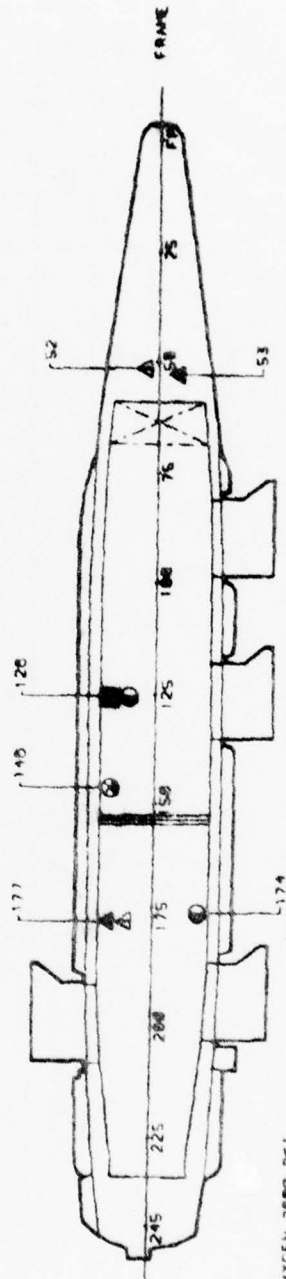
NOTES: PRESSURES (PSI)

a 1800	c 2000	e 2000 - 3000	g 3500	i 5000
b 1000	d 2500	f 3000	h 500	

CV-66 AMERICA OXYGEN AND NITROGEN SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



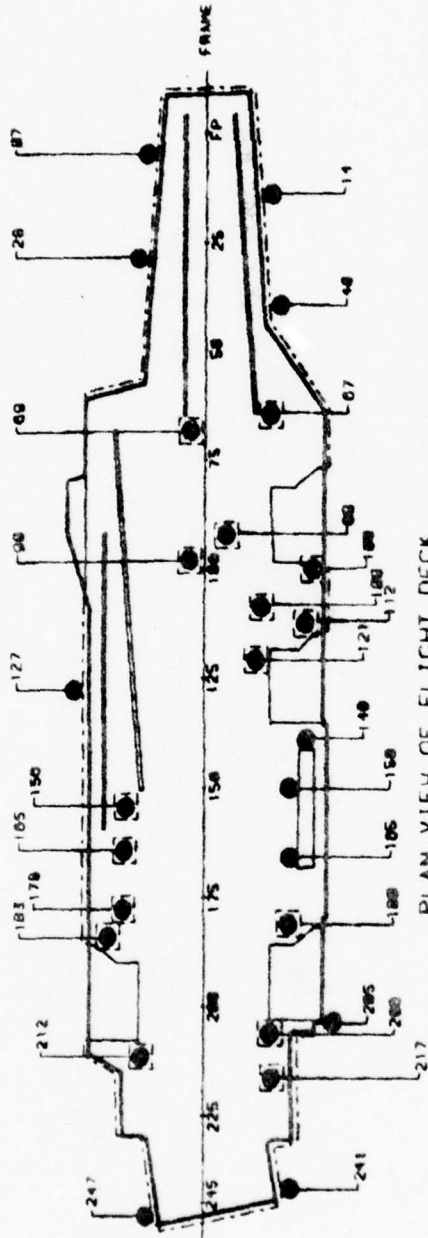
PLAN VIEW OF HANGAR DECK

- LEGEND
- ▲ CASSEOUS OXYGEN 2000 PSI
  - ▲ LIQUID OXYGEN
  - CASSEOUS NITROGEN 5000 PSI
  - CASSEOUS NITROGEN 3000 PSI
  - CASSEOUS NITROGEN TIRE CHARGING 500 PSI

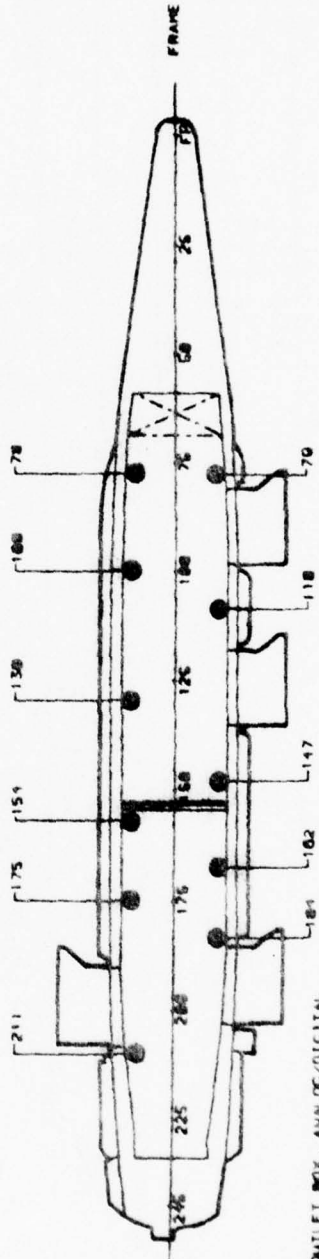
CV-66 USS AMERICA



CV-66 AMERICA AIRCRAFT INERTIAL ALIGNMENT OUTLET BOX LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
● ALIGNMENT OUTLET BOX, ANALOG/DIGITAL  
□ NEEDED

CV-66 USS AMERICA

COOLING AND STARTING AIR  
 OUTLET SUMMARY

COOLING AIR

1. OUTLET CAPACITY 58 PPM, 3.5 PSIG, 50° F

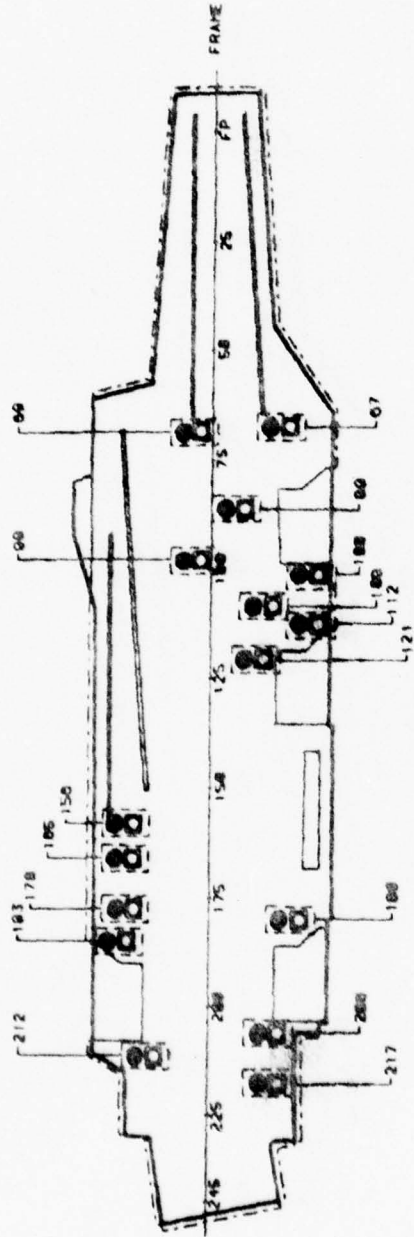
2. SERVICE OUTLETS FLT DK 16 HCR DK NONE

STARTING AIR

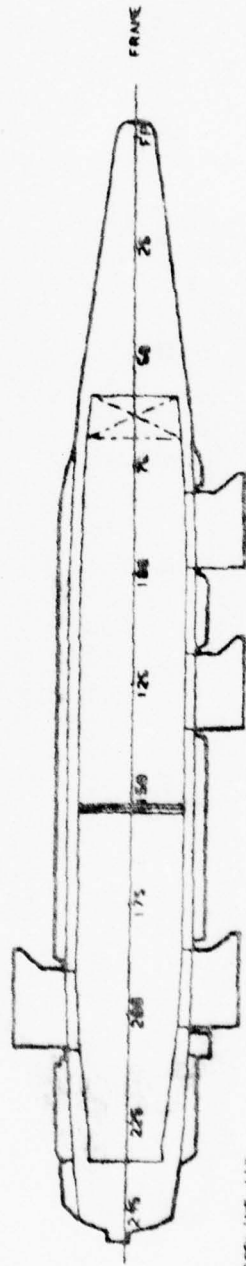
1. OUTLET CAPACITY BALLD ELOW PRESSURE TEMP  
 3 2 10 1 120 PPM 48-52 PSIA 340-400° F  
 5 5 10 1 180 PPM 70-80 PSIA 475° F  
 105 PPM 75-85 PSIA 500° F

2. SERVICE OUTLETS FLT DK 16 HCR DK NONE

CV-66 AMERICA COOLING AND STARTING AIR SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
● SERVICE, COOLING AIR  
■ SERVICE, STARTING AIR  
□ RECESSED

CV-66 USS AMERICA

PAGE NO.

CATEGORY

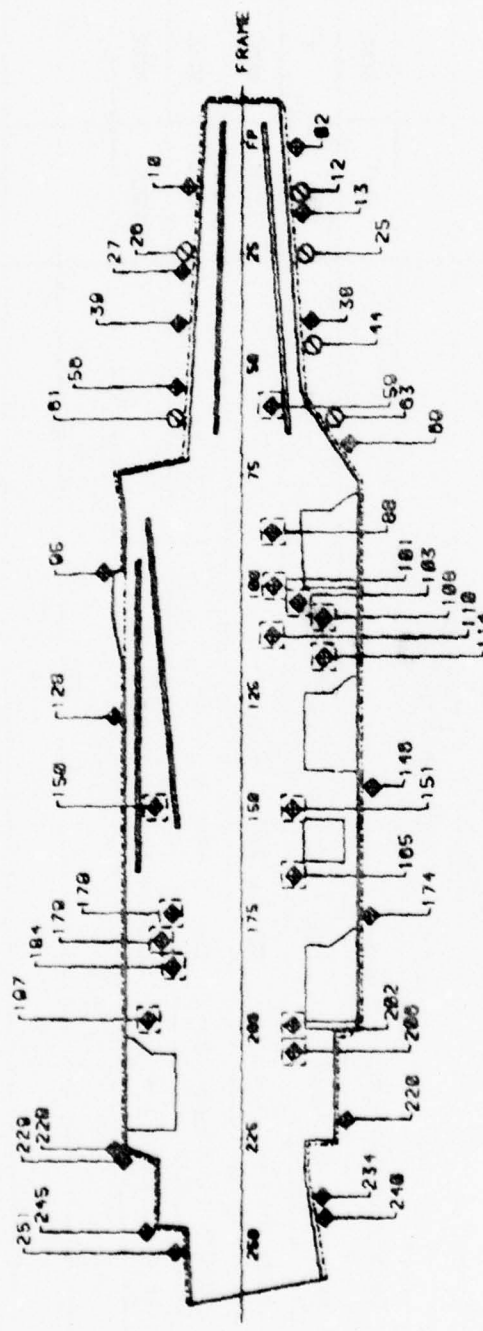
1	Aircraft Electrical Service Outlet Summary (400 Hz)	1
	Aircraft Electrical Service Outlet Layout (400 Hz)	2
2	Aircraft Electrical and Support Equipment Service Outlet Summary (28.5 VDC, 440 VAC)	3
	Aircraft Electrical and Support Equipment Service Outlet Layout (28.5 VDC, 440 VAC)	4
3	Aviation Fuel Service Summary	5
	Aviation Fuel Service Outlet Layout	6
4	Compressed Air Service Summary	7
	Compressed Air Service Outlet Layout	8
5	Combat Readiness Station Service Summary	9
	Combat Readiness Station Layout	10
6	Oxygen and Nitrogen Service Summary	11
	Oxygen and Nitrogen Service Outlet Layout	12
7	Aircraft Inertial Alignment Outlet Box Summary	13
	Aircraft Inertial Alignment Outlet Box Layout	14
8	Aircraft Cooling and Starting Air Outlet Summary	15
	Aircraft Cooling and Starting Air Outlet Layout	16

LATEST CHECK - AUGUST 1974

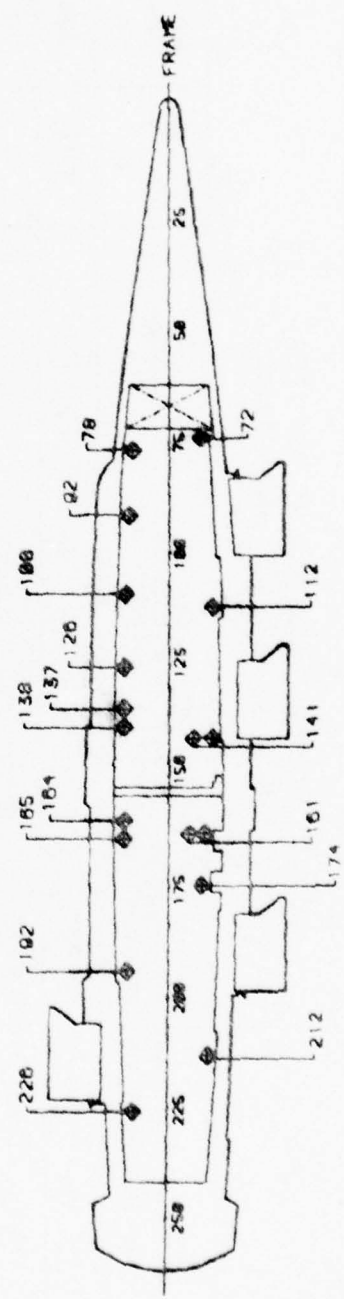
USS ENTERPRISE



CV(N)-65 ENTERPRISE AIRCRAFT ELECTRICAL SERVICE OUTLET LAYOUT (400HZ)



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
 ○ 100-HZ, 3PH, 115/200VAC, 30KVA, TYPE I  
 ● 400-HZ, 3PH, 115/200VAC, 60KVA, TYPE III  
 □ RECESSED

CV(N)-65 USS ENTERPRISE

A/C START AND SUPPORT EQUIPMENT  
 ELECTRICAL SERVICE OUTLET SUMMARY

440 VAC SUPPORT EQUIPMENT SERVICE  
 28 5 VDC A/C SERVICE AND START

440 VAC SUPPORT EQUIPMENT SERVICE

1 440 VAC, 60HZ, 3PH, 25 AMP

2 440 VAC, 60HZ, 3PH, 60 AMP

3 440 VAC, 60HZ, 3PH, 100 AMP

28 5 VDC A/C SERVICE AND START

1 28 5 VDC, 200 AMP CONTINUOUS

2 28 5 VDC, 300 AMP Cont, 500 to 900 A Inter

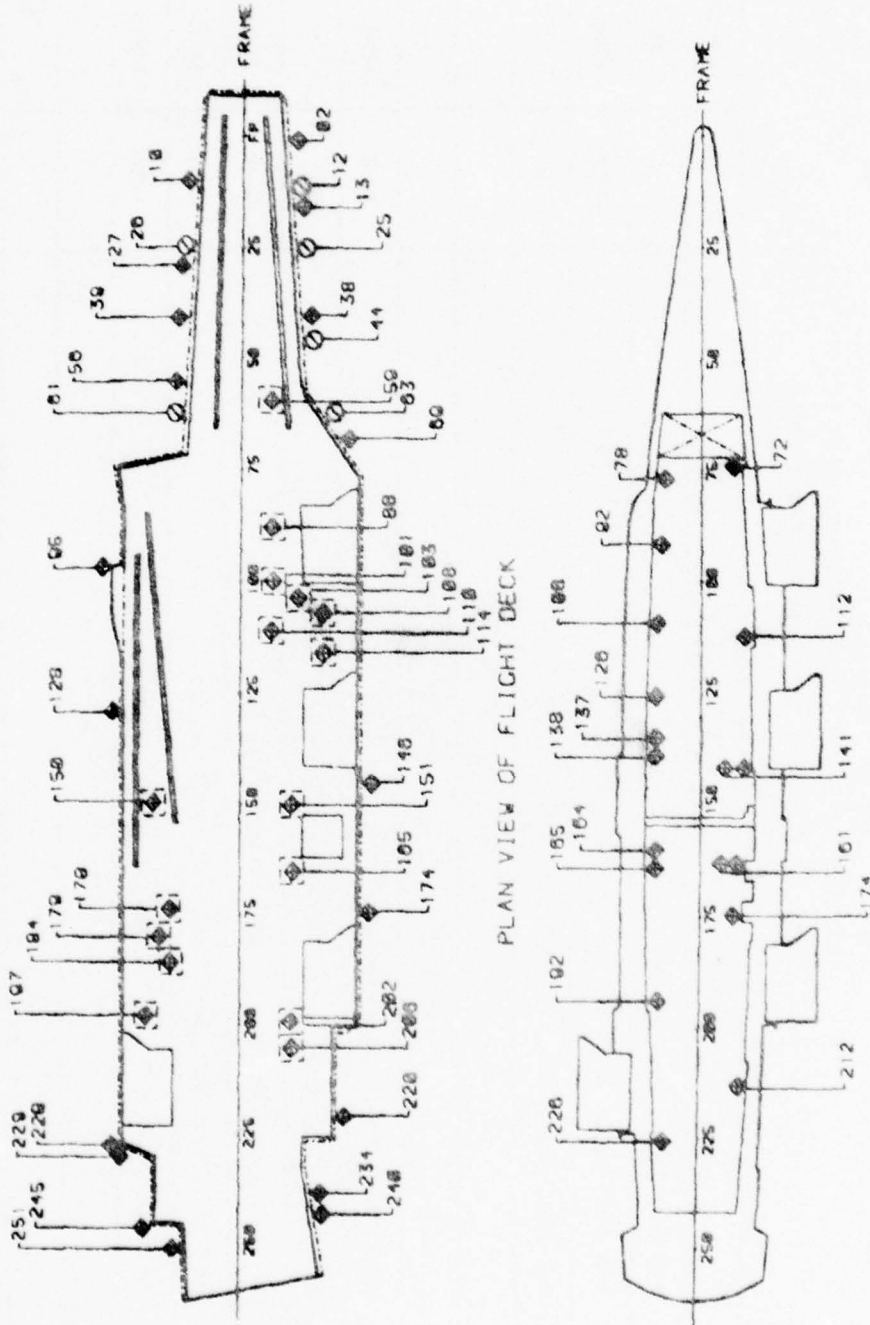
3 28 5 VDC, 600 AMP Cont, 500 to 900 A Inter

4 28 5 VDC, 300 AMP cont, 650 to 1200 A Inter

5 28 5 VDC, 650 AMP Cont, 650 to 1800 A Inter

	FLT DK	HGR DK
	21	15
	NONE	NONE
	1B	1B
	NONE	NONE
	4	1
	NONE	NONE
	NONE	NONE
	NONE	NONE

CV(N)-65 ENTERPRISE AIRCRAFT ELECTRICAL SERVICE OUTLET LAYOUT (400HZ)



PLAN VIEW OF FLIGHT DECK

PLAN VIEW OF HANGAR DECK

- LEGEND
- 400-HZ, 3PH, 115/200VAC, 30KVA, TYPE I
  - 400-HZ, 3PH, 115/200VAC, 60KVA, TYPE III
  - RECESSED

CV(N)-65 USS ENTERPRISE

A/C START AND SUPPORT EQUIPMENT  
ELECTRICAL SERVICE OUTLET SUMMARY

440 VAC SUPPORT EQUIPMENT SERVICE  
28 5 VDC A/C SERVICE AND START

440 VAC SUPPORT EQUIPMENT SERVICE

1 440 VAC 60HZ, 3PH, 25 AMP

2 440 VAC, 60HZ, 3PH, 60 AMP

3 440 VAC, 60HZ, 3PH, 100 AMP

28 5 VDC A/C SERVICE AND START

1 28 5 VDC, 200 AMP CONTINUOUS

2 28 5 VDC, 300 AMP Cont, 600 to 900 A Inter

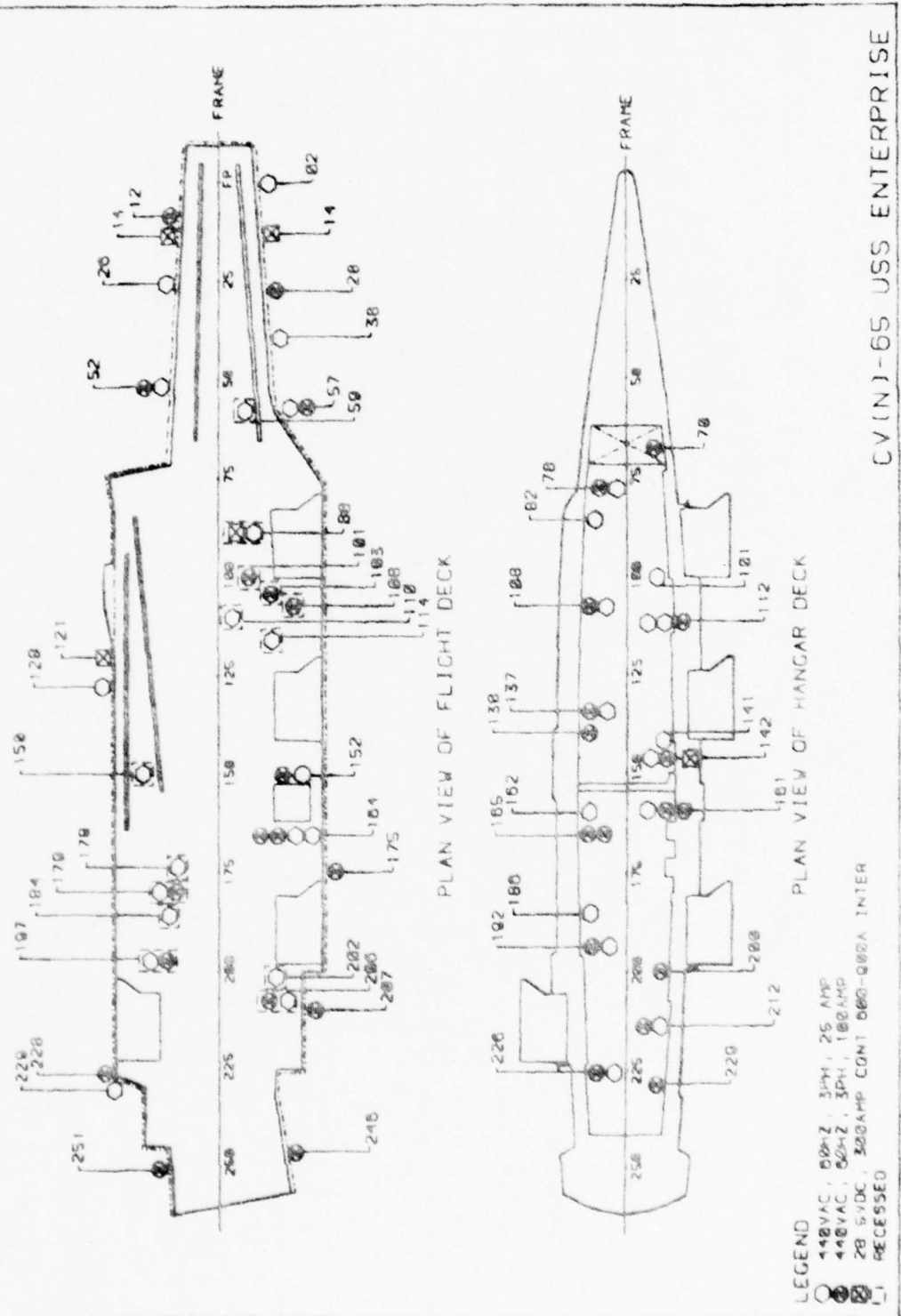
3 28 5 VDC, 600 AMP Cont, 600 to 900 A Inter

4 28 5 VDC, 300 AMP cont, 650 to 1000 A Inter

5 28 5 VDC, 650 AMP Cont, 650 to 1000 A Inter

	FLT DK	HGR DK
	21	15
	NONE	NONE
	18	16
	NONE	NONE
	4	1
	NONE	NONE
	NONE	NONE
	NONE	NONE

CV(IN)-65 ENTERPRISE A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK

PLAN VIEW OF HANGAR DECK

- LEGEND
- 48VAC, 60HZ, 3PH, 25 AMP
  - ⊗ 48VAC, 60HZ, 3PH, 100AMP
  - ⊙ 28 5VDC, 300AMP CONT 060-000A INTER
  - RECESSED

CV(IN)-65 USS ENTERPRISE

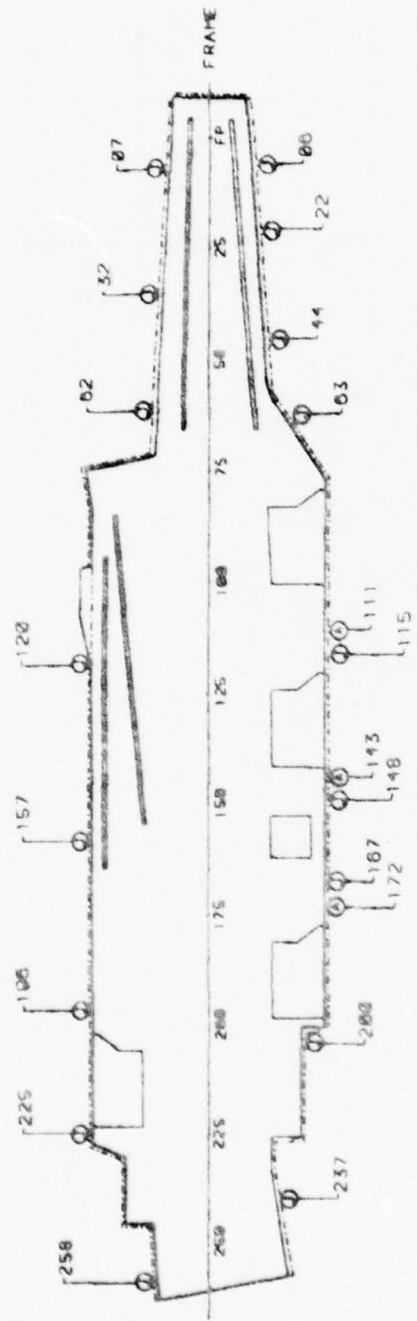
AVIATION FUEL SERVICE

AVIATION GASOLINE AND JP-5

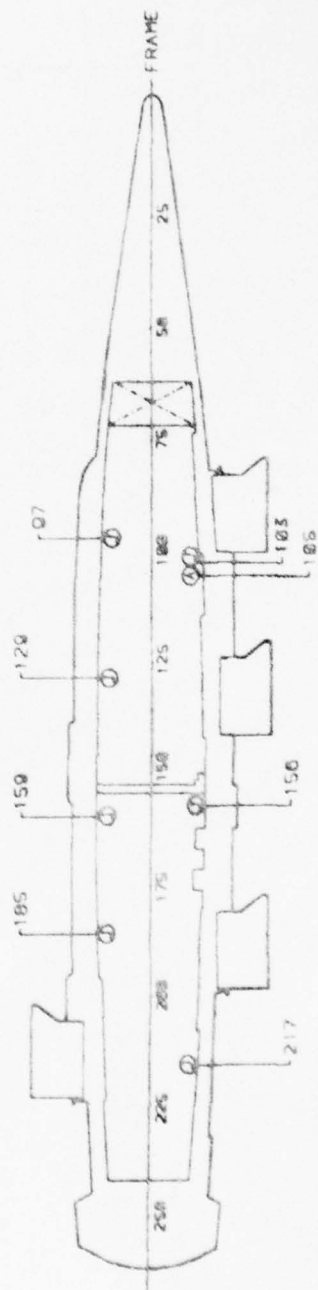
	AV/GAS	JP-5
1 CAPACITY GAL 95X	05,050	2,203,037
2 SERVICE OUTLETS	FLT DK 3 HGR DK 1	FLT DK 17 HGR DK 7
3 HOSES PER OUTLET	1	4 (NOTE 1)
4 SERVICE OUTLET CAPACITY, GPM/PSI	100/35	200/45
a TWO OUTLETS OPERATING	100/35	200/45
b FOUR OUTLETS OPERATING	100/35	200/45
c SIX OUTLETS OPERATING	100/35	200/45
5 DEFUELING CAPACITY PER SERVICE OUTLET GPM	50	100
6 DEFUELING CAPACITY PER PORTABLE PUMP GPM	25	25

NOTES NOTE 1 JP-5 STAS, FLT DK, PORT FR 120, 157, 188, STBD 148, AND 167 ARE TWO HOSE STAS  
JP-5 STA, FLT DK, PORT FR 226 AND STBD FR 115 ARE 3 HOSE STAS  
NOTE 2 1-1/2" HOSE AV/GAS, S-1/2" HOSE JP-5

CV(N)-65 ENTERPRISE AVIATION FUEL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
 ○ AV/GAS  
 ⊙ JP-5

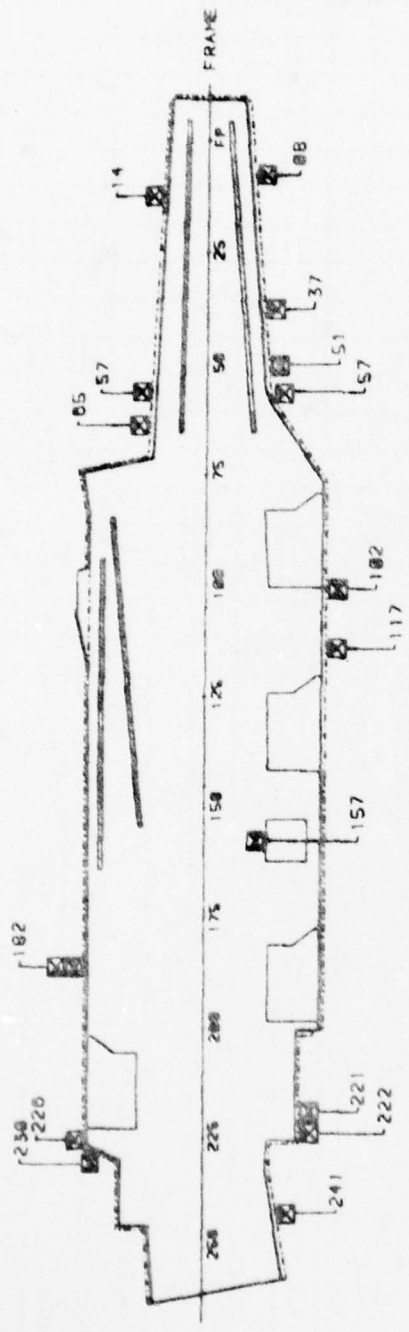
CV(N)-65 USS ENTERPRISE

COMPRESSED AIR SERVICE SUMMARY

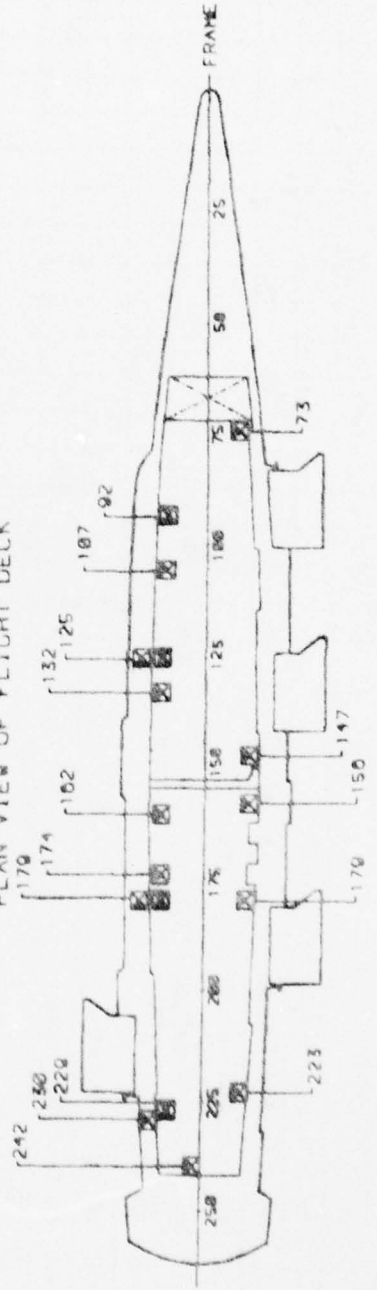
COMPRESSED AIR

LOW PRESSURE	FLT OK	HGR OK
1 SERVICE OUTLETS @ 100 PSI	10	11
REDUCED PRESSURE		
1 SERVICE OUTLETS @	NONE	NONE
MEDIUM PRESSURE		
1 SERVICE OUTLETS @ 1800 PSI	1	2
MEDIUM TO HIGH PRESSURE		
1 SERVICE OUTLETS @ 1800 TO 3000 PSI (VARIABLE)	NONE	NONE
HIGH PRESSURE		
1 SERVICE OUTLETS @ 3000 PSI	6	4
TIRE CHANGING AIR		
1 SERVICE OUTLETS @ 500 PSI	NONE	NONE

CV(N)-65 ENTERPRISE COMPRESSED AIR SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



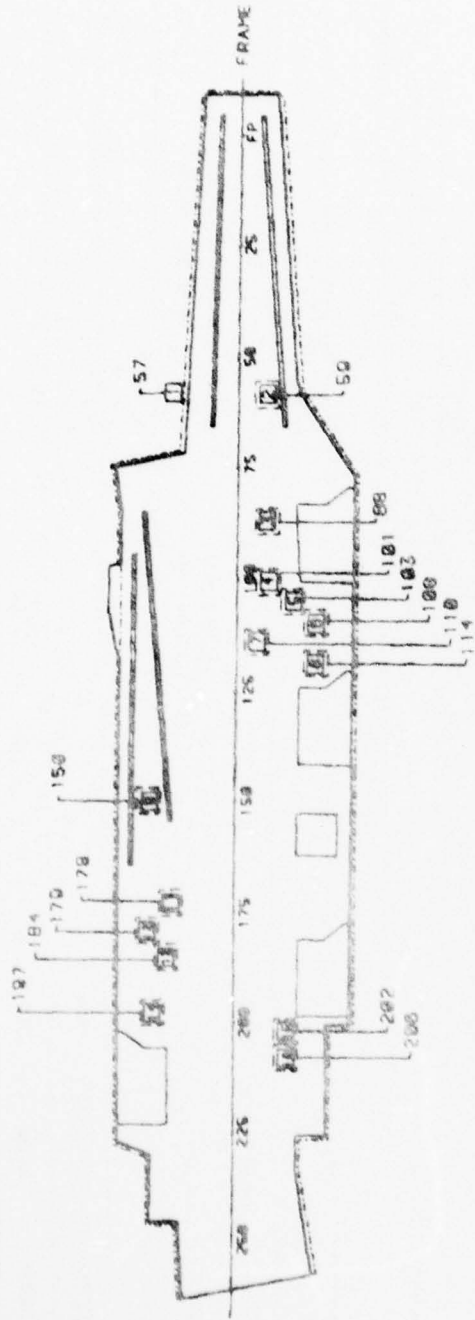
PLAN VIEW OF HANGAR DECK

LEGEND  
 [Symbol] LOW PRESSURE AIR, 100 PSI  
 [Symbol] MEDIUM PRESSURE AIR, 1800 PSI  
 [Symbol] HIGH PRESSURE AIR, 3000 PSI

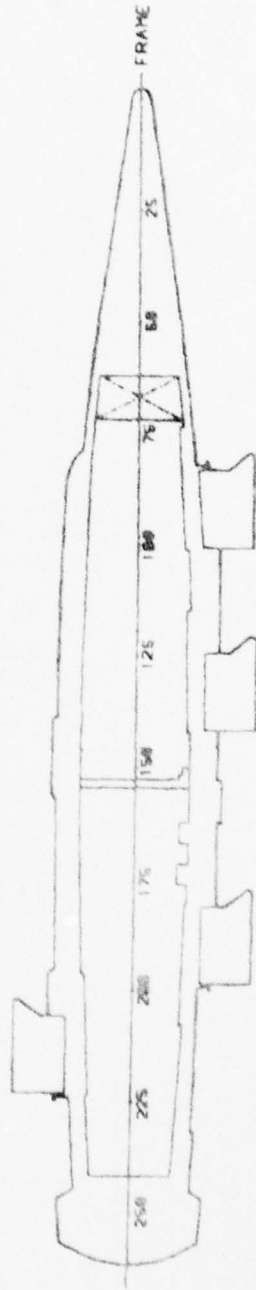
CV(N)-65 USS ENTERPRISE



CV(N)-65 ENTERPRISE COMBAT READINESS STATION LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

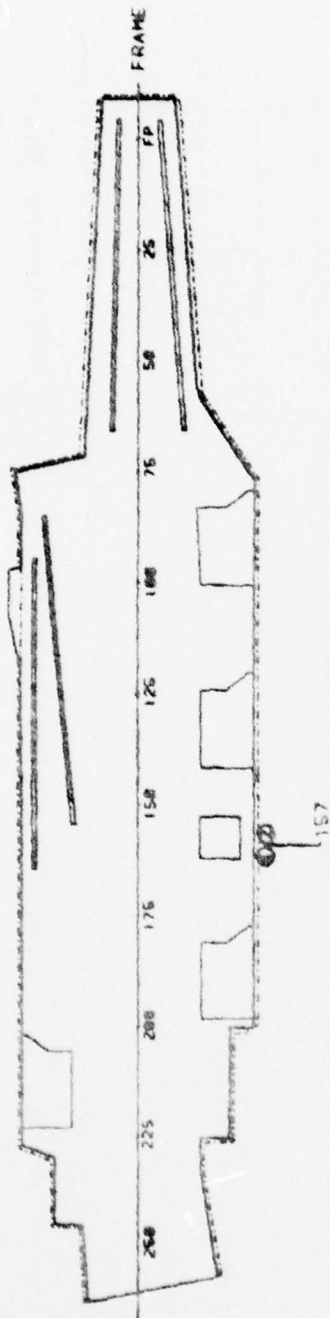
- LEGEND  
□ COMBAT READINESS STATION  
◻ RECESSED

CV(N)-65 USS ENTERPRISE

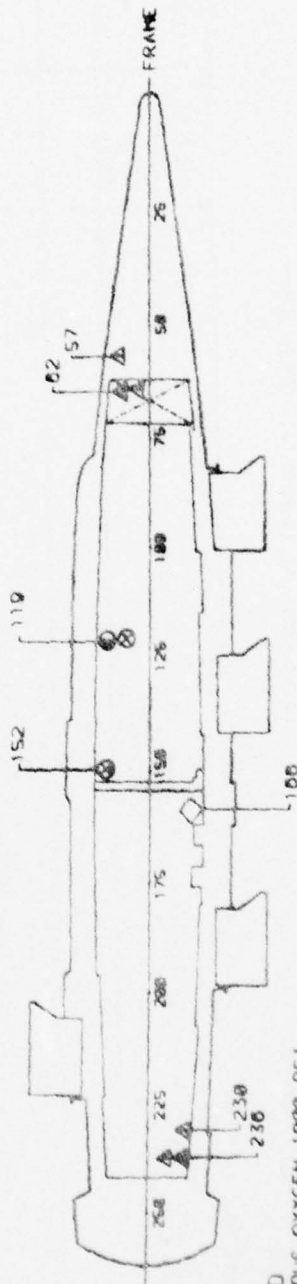
OXYGEN AND NITROGEN SERVICE SUMMARY

OXYGEN	
1 STORAGE CAPACITY, LIQUID GALS	1,500
2 GENERATING CAPACITY GPH	30
3 SERVICE OUTLETS, LIQUID	FLT DK NONE HGR DK 2
4 SERVICE OUTLETS, GASEOUS	FLT DK NONE HGR DK 2 <sup>a</sup> , 2 <sup>d</sup>
NITROGEN (OIL FREE)	
1 STORAGE CAPACITY @ 5000 PSI	84.5 cu ft - 2000 Gal Liquid
2 SERVICE OUTLETS	FLT DK 1 <sup>c</sup> , 1 <sup>f</sup> HGR DK 1 <sup>a</sup> , 1 <sup>f</sup> , 1 <sup>g</sup>
NITROGEN	
1 STORAGE CAPACITY @ 3000 PSI	NONE
2 SERVICE OUTLETS	FLT DK NONE HGR DK NONE
NOTES PRESSURES (PSI)	
a 1000 c 2000 e 2000 - 3000 g 3500 i 5000	
b 1000 d 2000 f 3000 h 500	

CV(N)-65 ENTERPRISE OXYGEN AND NITROGEN SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



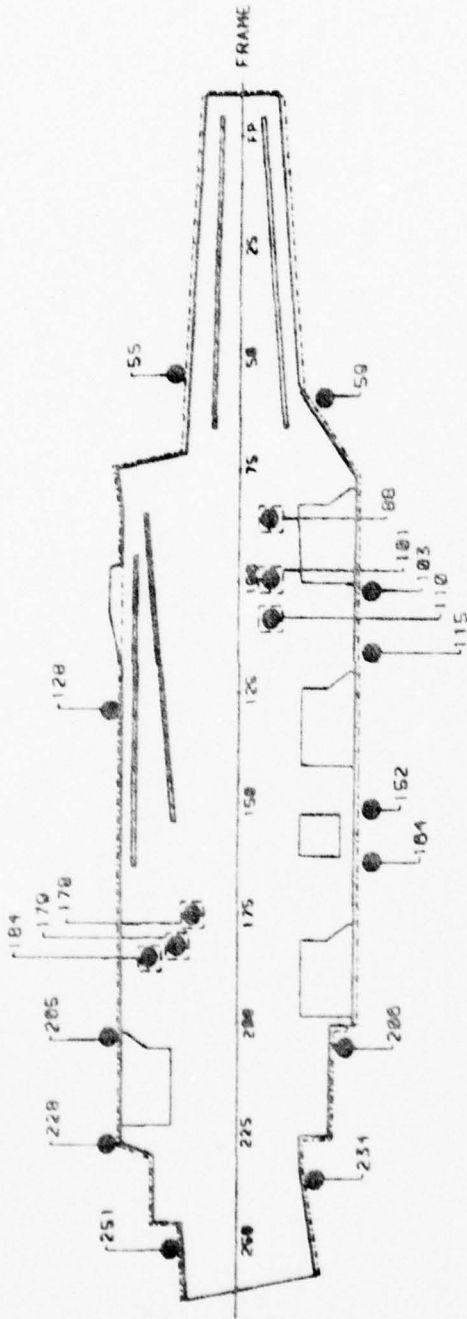
PLAN VIEW OF HANGAR DECK

- LEGEND
- ▲ GASEOUS OXYGEN 1800 PSI
  - ▲ GASEOUS OXYGEN 2800 PSI
  - ▲ LIQUID OXYGEN
  - GASEOUS NITROGEN 1800 PSI
  - GASEOUS NITROGEN 2800 PSI
  - GASEOUS NITROGEN 5000 PSI
  - ◇ GASEOUS NITROGEN TIRE CHARGING AIR 500 PSI
  - ◇ GASEOUS NITROGEN 3500 PSI

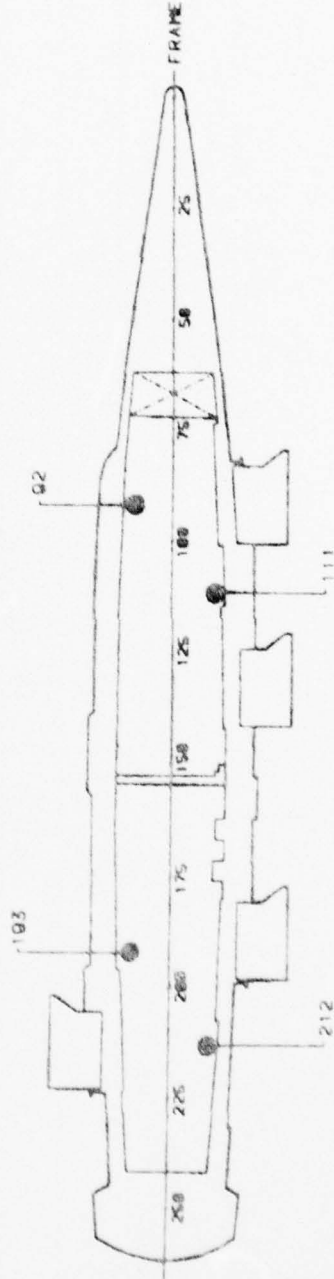
CV(N)-65 USS ENTERPRISE



CV(N)-65 ENTERPRISE AIRCRAFT INERTIAL ALIGNMENT OUTLET BOX LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

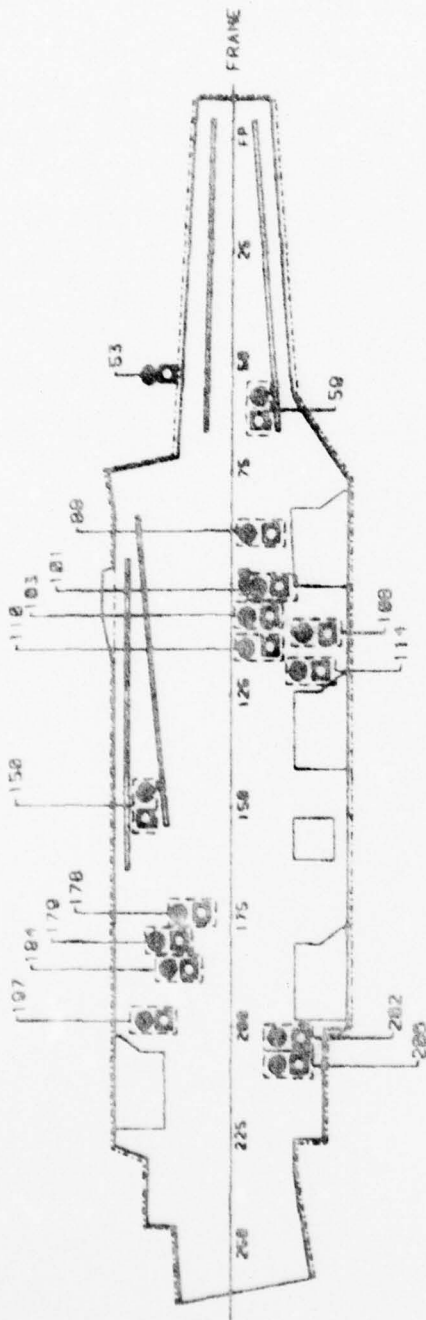
LEGEND  
● ALIGNMENT OUTLET BOX (ANALOG/DIGITAL)  
┌ RECESSED

CV(N)-65 USS ENTERPRISE

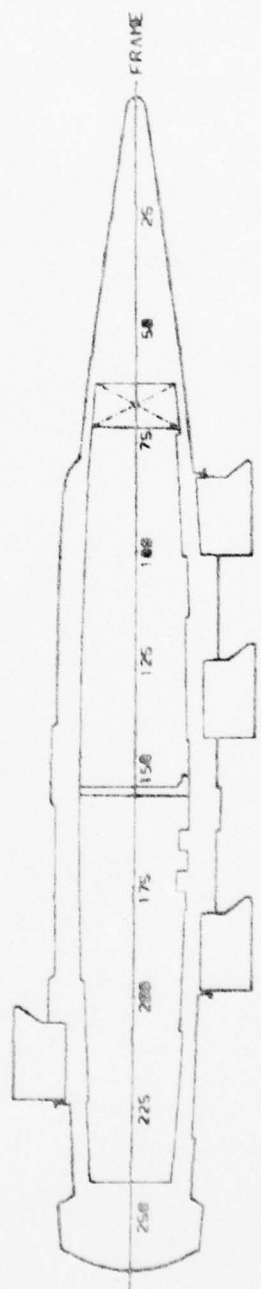
COOLING AND STARTING AIR OUTLET SUMMARY			
COOLING AIR			
1 OUTLET CAPACITY	SEE NOTE		
2 SERVICE OUTLETS	FLT DK 15	HCR DK	NONE
STARTING AIR			
1 OUTLET CAPACITY	SEE NOTE		
2 SERVICE OUTLETS	FLT DK 15	HCR DK	NONE
NOTE AIR START/COOLING SYSTEM IS OUT OF COMMISSION INDEFINITELY			



CV(N)-65 ENTERPRISE COOLING AND STARTING AIR SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

- LEGEND
- SERVICE, COOLING AIR
  - SERVICE, STARTING AIR
  - RECEIVED

CV(N)-65 USS ENTERPRISE

CATEGORY                      PAGE NO.

1	Aircraft Electrical Service Outlet Summary (400 Hz) Aircraft Electrical Service Outlet Layout (400 Hz)	1 2
2	Aircraft Electrical and Support Equipment Service Outlet Summary (28.5 VDC, 440 VAC)	3
4	Aircraft Electrical and Support Equipment Service Outlet Layout (28.5 VDC, 440 VAC)	4
3	Aviation Fuel Service Summary Aviation Fuel Service Outlet Layout	5 6
4	Compressed Air Service Summary Compressed Air Service Outlet Layout	7 8
5	Combat Readiness Station Service Summary Combat Readiness Station Layout	N/A N/A
6	Oxygen and Nitrogen Service Summary Oxygen and Nitrogen Service Outlet Layout	11 12
7	Aircraft Inertial Alignment Outlet Box Summary Aircraft Inertial Alignment Outlet Box Layout	13 14
8	Aircraft Cooling and Starting Air Outlet Summary Aircraft Cooling and Starting Air Outlet Layout	N/A N/A

LATEST CHECK - AUG 1978

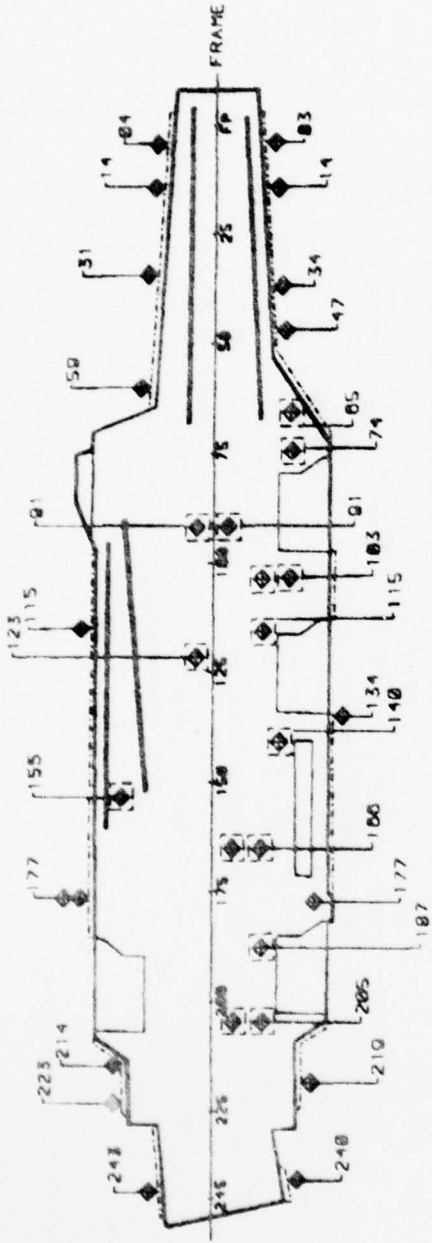
USS CONSTELLATION

AIRCRAFT ELECTRICAL SERVICE OUTLET SUMMARY

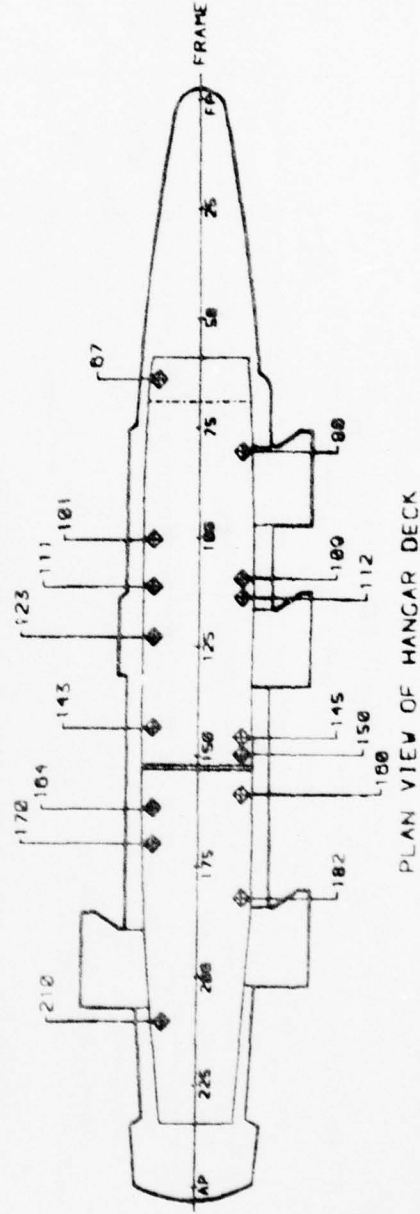
400HZ AIRCRAFT SERVICE

SERVICE OUTLETS	FLT DK	HGR DK
1 400Hz, 3PH, 115/200 VAC, 50KVA, Type I	NONE	NONE
2 400Hz, 3PH, 115/200 VAC, 50KVA, Type III	NONE	NONE
3 400Hz, 3PH, 115/200 VAC, 60KVA, Type I	NONE	NONE
4 400Hz, 3PH, 115/200 VAC, 60KVA, Type III	33	15

CV-64 CONSTELLATION AIRCRAFT ELECTRICAL SERVICE OUTLET LAYOUT (400HZ)



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
◆ 400HZ, 3PH, 115/200VAC, 00KVA, TYPE III  
□ RECESSED

CV-64 USS CONSTELLATION

A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET SUMMARY		FLT DK	HCR DK
440 VAC SUPPORT EQUIPMENT SERVICE			
1	440 VAC, 60HZ, 3PH, 25 AMP	17	9
2	440 VAC, 60HZ, 3PH, 60 AMP	NONE	NONE
3	440 VAC, 60HZ, 3PH, 1000 AMP	18	11
28 5 VDC A/C SERVICE AND START			
1	28 5 VDC, 200 AMP Continuous	NONE	NONE
2	28 5 VDC, 300 AMP Cont, 600 to 900 A Inter	NONE	NONE
3	28 5 VDC, 600 AMP Cont, 600 to 900 A Inter	NONE	NONE
4	28 5 VDC, 300 AMP cont, 850 to 1000 A Inter	3	2
5	28 5 VDC, 650 AMP Cont, 650 to 1000 A Inter	NONE	NONE

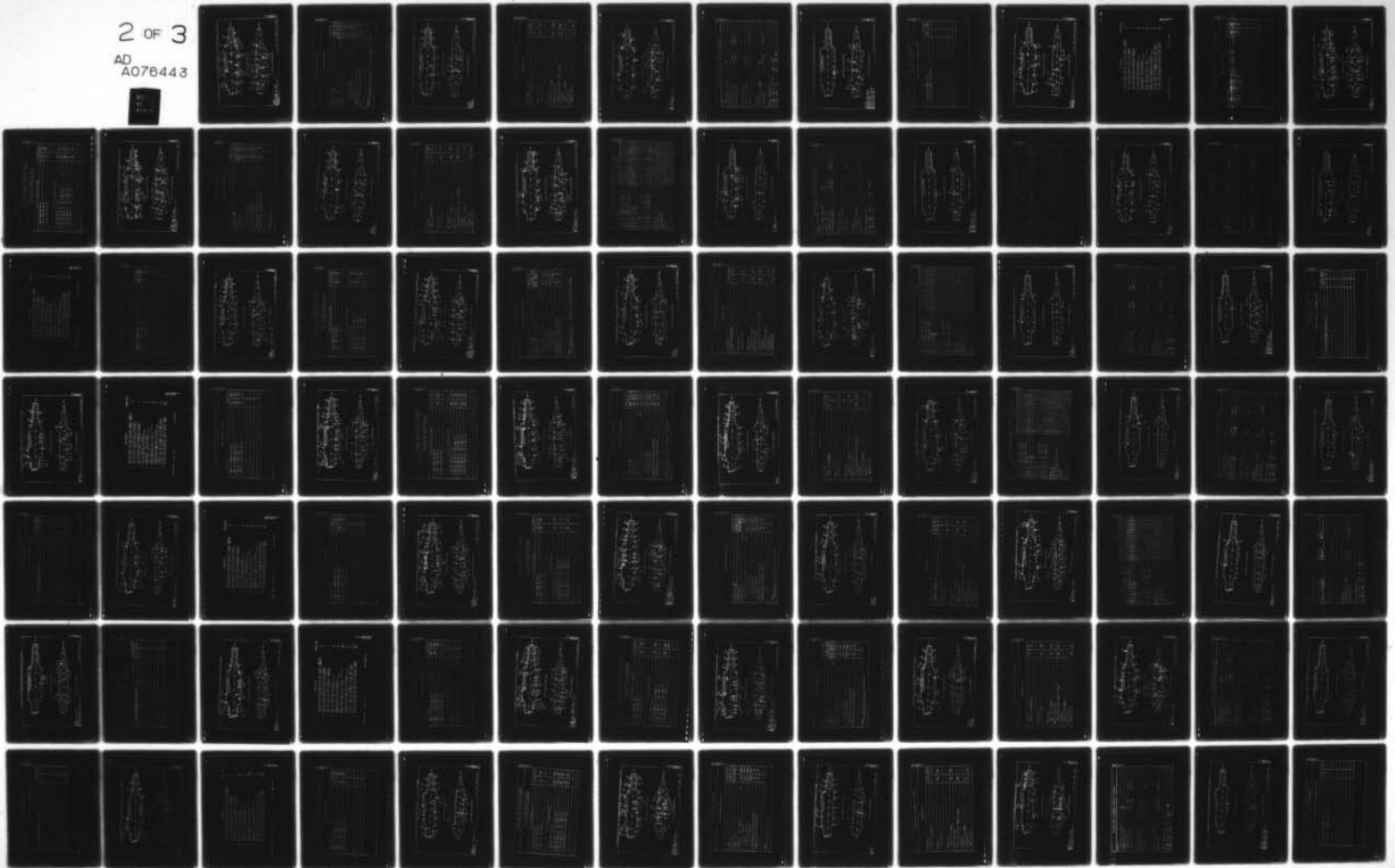
AD-A076 443

NAVAL AIR ENGINEERING CENTER LAKEHURST NJ ENGINEERING--ETC F/G 1/3  
COMPILATION OF DATA COVERING AIRCRAFT SERVICING FACILITIES ABOA--ETC(U)  
OCT 79 M A STRANO  
UNCLASSIFIED NAEC-ENG-6703-REV-15

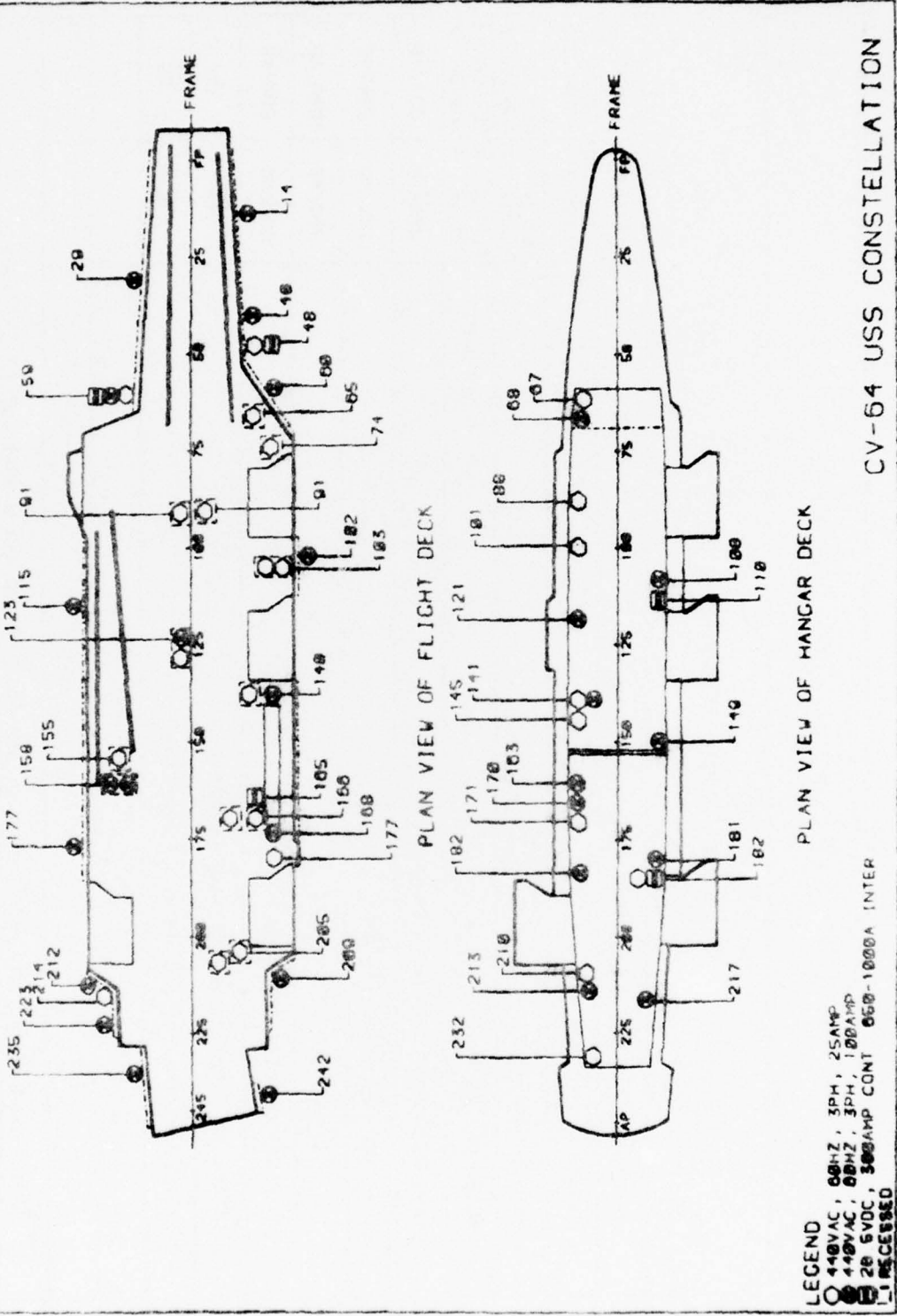
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2 OF 3

AD  
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CV-64 CONSTELLATION A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET LAYOUT



CV-64 USS CONSTELLATION

PLAN VIEW OF HANGAR DECK

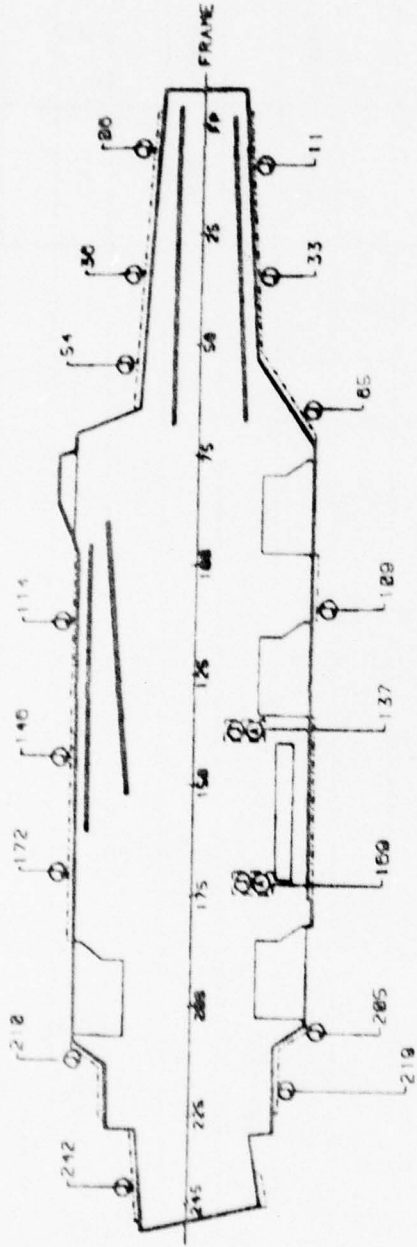
LEGEND  
 ○ 440VAC, 60HZ, 3PH, 25AMP  
 ◻ 440VAC, 60HZ, 3PH, 100AMP  
 ◻ 28 5VDC, 300AMP CONT, 650-1000A INTER  
 — UNRECEIVED

AVIATION FUEL SERVICE

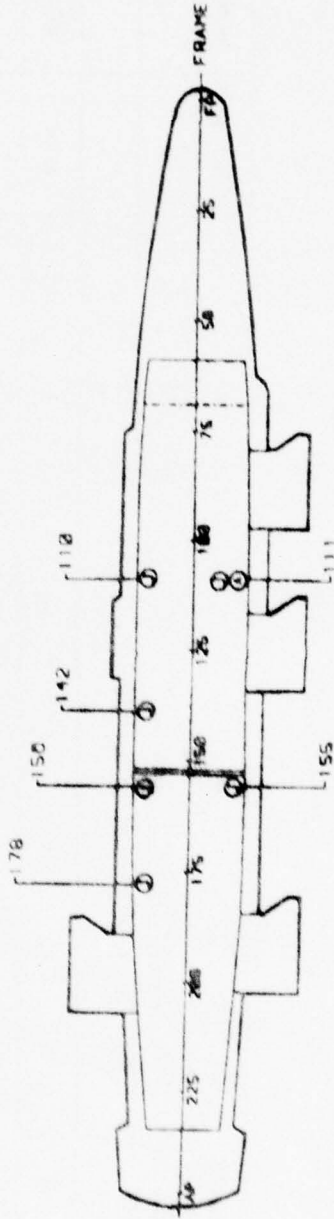
AVIATION GASOLINE AND JP-5

	AV/GAS	JP-5
1 CAPACITY GAL 95X	18,000	1,700,000
2 SERVICE OUTLETS	FLT DK 2 HCR DK 1	FLT DK 16 HCR DK 6
3 HOSES PER OUTLET	SEE NOTES	SEE NOTES
4 SERVICE OUTLET CAPACITY, GPM/PSI	200/40	200/40
a TWO OUTLETS OPERATING	200/40	200/40
b FOUR OUTLETS OPERATING	200/40	200/40
c SIX OUTLETS OPERATING	200/40	200/40
5 DEFUELING CAPACITY PER SERVICE OUTLET GPM	100	100
6 DEFUELING CAPACITY PER PORTABLE PUMP GPM	25	25
<p>NOTES</p> <p>1 JP-5 FLIGHT DECK STATIONS 518D FR 33 AND PORT FR 172 ARE 3 HOSE OUTLET STATIONS</p> <p>2 1 1/2" HOSE AV/GAS 2 1/2" HOSE JP-5</p>		

CV-64 CONSTELLATION AVIATION FUEL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
○ AV/CAS  
● JP-5  
┌ RECESSED

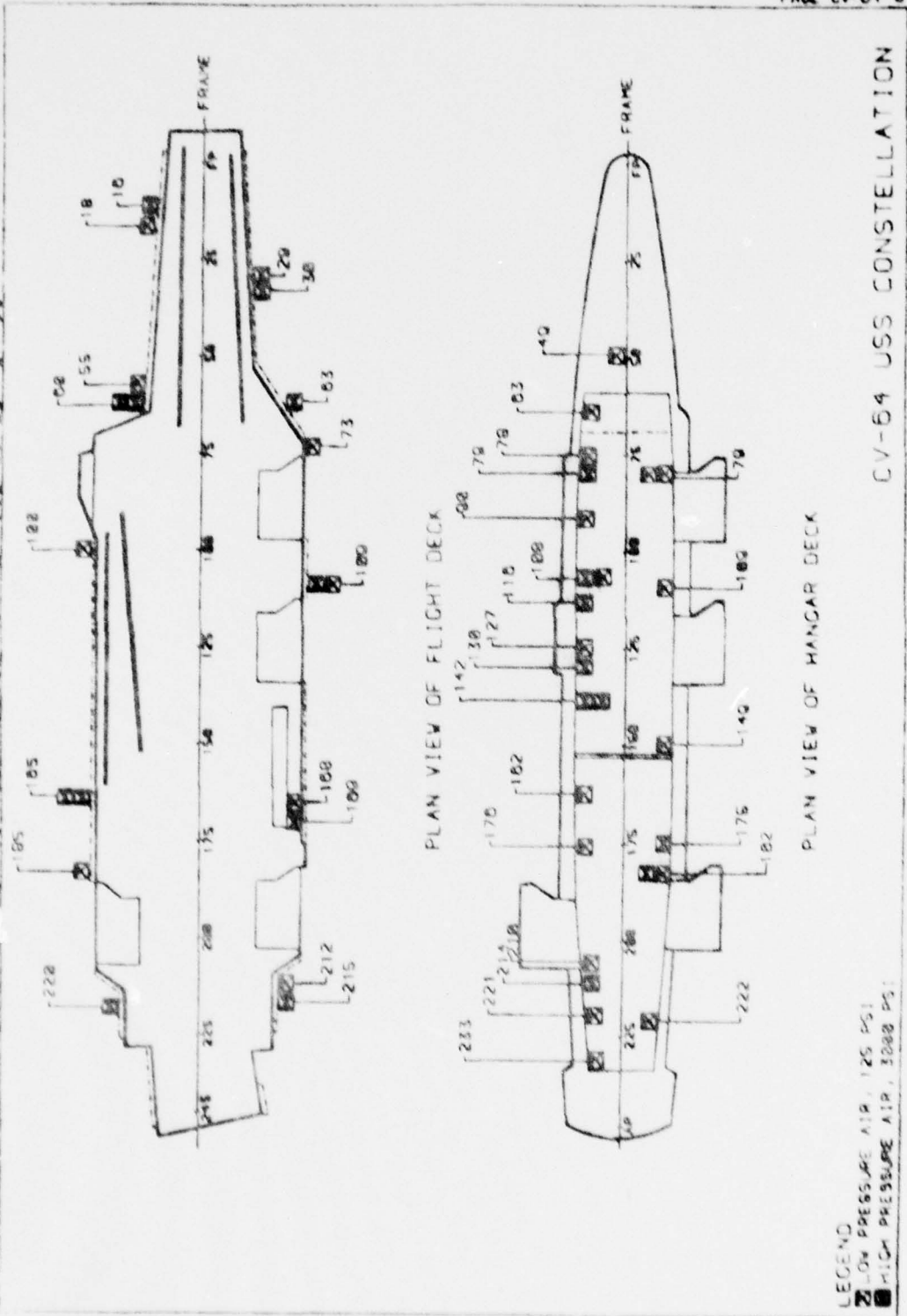
CV-64 USS CONSTELLATION

COMPRESSED AIR SERVICE SUMMARY

COMPRESSED AIR

LOW PRESSURE	FLT DK	HGR DK
1 SERVICE OUTLETS @ 125 PSI	0	17
REDUCED PRESSURE		
1 SERVICE OUTLETS @	NONE	NONE
MEDIUM PRESSURE		
1 SERVICE OUTLETS @ 1800 PSI	NONE	NONE
MEDIUM TO HIGH PRESSURE		
1 SERVICE OUTLETS @ 1800 to 3000 PSI (VARIABLE)	NONE	NONE
HIGH PRESSURE		
1 SERVICE OUTLETS @ 3000 PSI	12	0
TIRE CHANGING AIR		
1 SERVICE OUTLETS @	NONE	NONE

CV-64 CONSTELLATION COMPRESSED AIR SERVICE OUTLET LAYOUT



LEGEND

- LOW PRESSURE AIR, 125 PSI
- HIGH PRESSURE AIR, 3000 PSI

CV-64 USS CONSTELLATION

PLAN VIEW OF HANGAR DECK

PLAN VIEW OF FLIGHT DECK

OXYGEN AND NITROGEN SERVICE SUMMARY

OXYGEN

1 STORAGE CAPACITY, LIQUID GALS 1,500

2 GENERATING CAPACITY GPH 22

3 SERVICE OUTLETS, LIQUID FLT DK NONE HCR DK 2

4 SERVICE OUTLETS, GASEOUS FLT DK NONE HCR DK 1<sup>o</sup>,1<sup>o</sup>

NITROGEN (OIL FREE)

1 STORAGE CAPACITY @ 5000 PSI 60 CU FT

2 SERVICE OUTLETS FLT DK 1<sup>f</sup>,1<sup>f</sup> HCR DK 1<sup>o</sup>,1<sup>f</sup>,1<sup>j</sup>,1<sup>k</sup>

NITROGEN

1 STORAGE CAPACITY @ 3000 PSI NONE

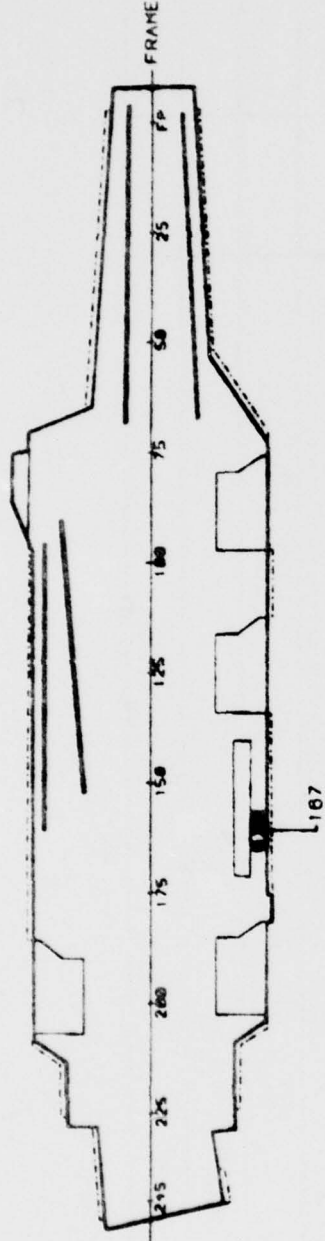
2 SERVICE OUTLETS FLT DK NONE HCR DK NONE

NOTES PRESSURES (PSI)

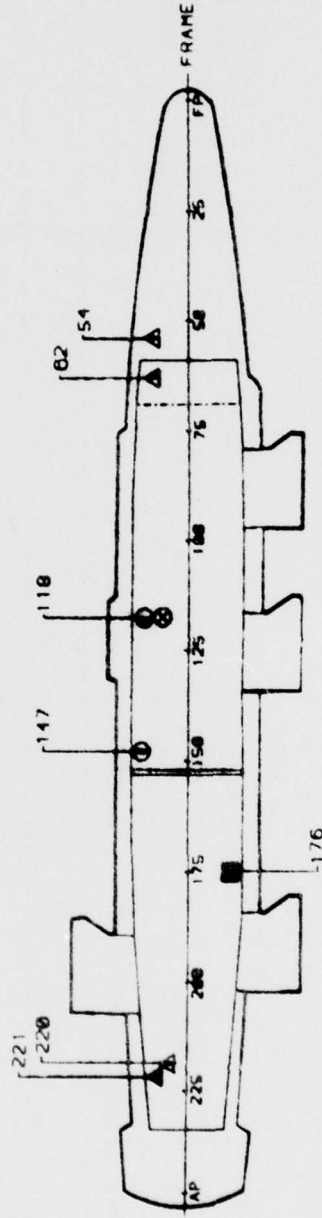
a 1000 c 2000 e 2000 - 3000 g 3500 i 5000

b 1000 d 2000 f 3000 h 500 j 1000 - 3000

CV-64 CONSTELLATION OXYGEN AND NITROGEN SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



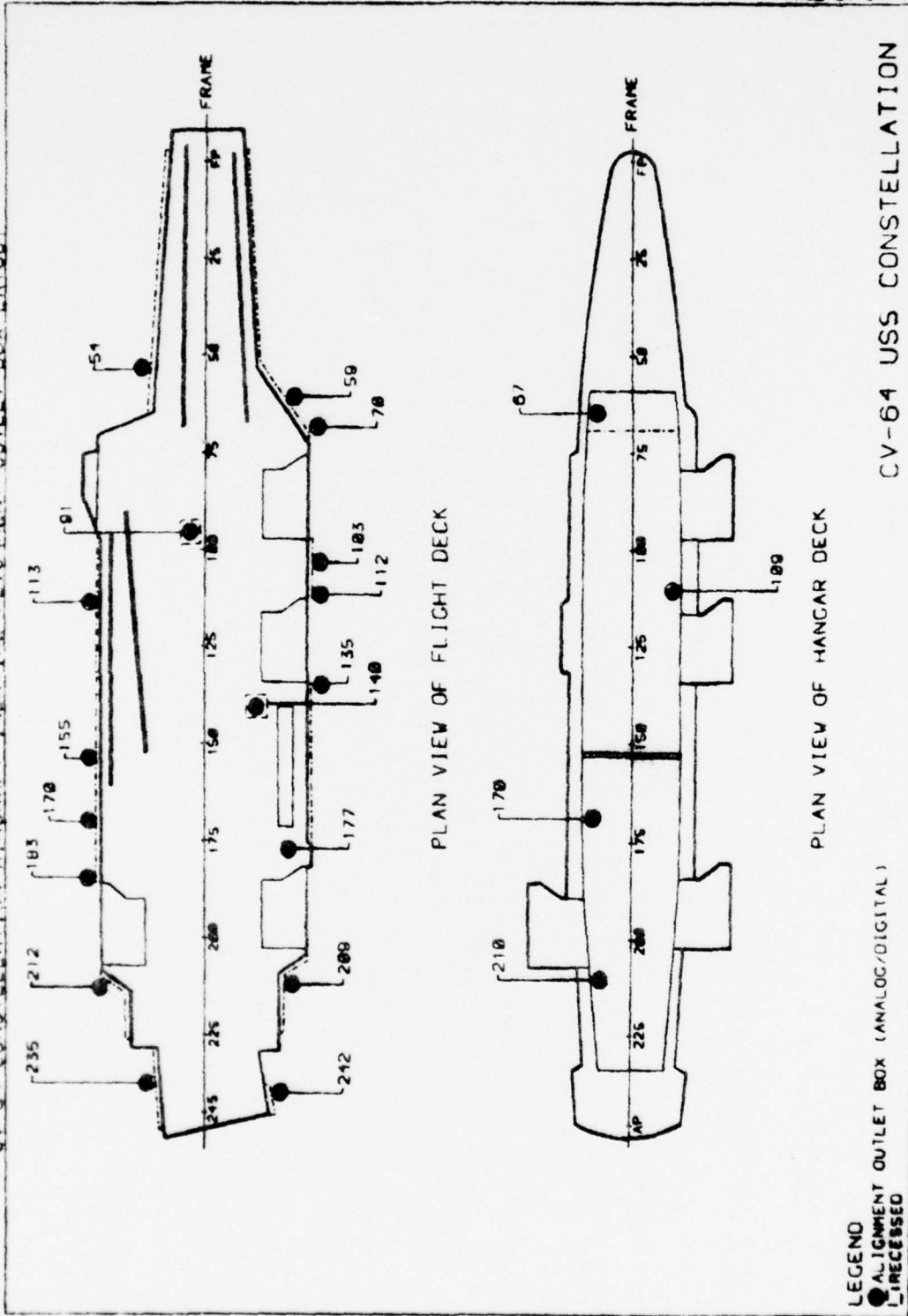
PLAN VIEW OF HANGAR DECK

- LEGEND
- ▲ GASEOUS OXYGEN 1800 PSI
  - ▲ GASEOUS OXYGEN 2000 PSI
  - ▲ LIQUID OXYGEN
  - GASEOUS NITROGEN 1800 PSI
  - GASEOUS NITROGEN 1800 3000 PSI
  - GASEOUS NITROGEN 3000 PSI
  - GASEOUS NITROGEN 5000 PSI

CV-64 USS CONSTELLATION



CV-64 CONSTELLATION AIRCRAFT INERTIAL ALIGNMENT OUTLET BOX LAYOUT



LEGEND  
● ALIGNMENT OUTLET BOX (ANALOG/DIGITAL)  
- WIRECESSED

CV-64 USS CONSTELLATION

	<u>CATEGORY</u>	<u>PAGE NO.</u>
1	Aircraft Electrical Service Outlet Summary (400 Hz)	1
	Aircraft Electrical Service Outlet Layout (400 Hz)	2
2	Aircraft Electrical and Support Equipment Service Outlet Summary (28.5 VDC, 440 VAC)	3
	Aircraft Electrical and Support Equipment Service Outlet Layout (28.5 VDC, 440 VAC)	4
3	Aviation Fuel Service Summary	5
	Aviation Fuel Service Outlet Layout	6
4	Compressed Air Service Summary	7
	Compressed Air Service Outlet Layout	8
5	Combat Readiness Station Service Summary	9
	Combat Readiness Station Layout	10
6	Oxygen and Nitrogen Service Summary	11
	Oxygen and Nitrogen Service Outlet Layout	12
7	Aircraft Inertial Alignment Outlet Box Summary	13
	Aircraft Inertial Alignment Outlet Box Layout	14
8	Aircraft Cooling and Starting Air Outlet Summary	15
	Aircraft Cooling and Starting Air Outlet Layout	16

LATEST CHECK - OCT 1977

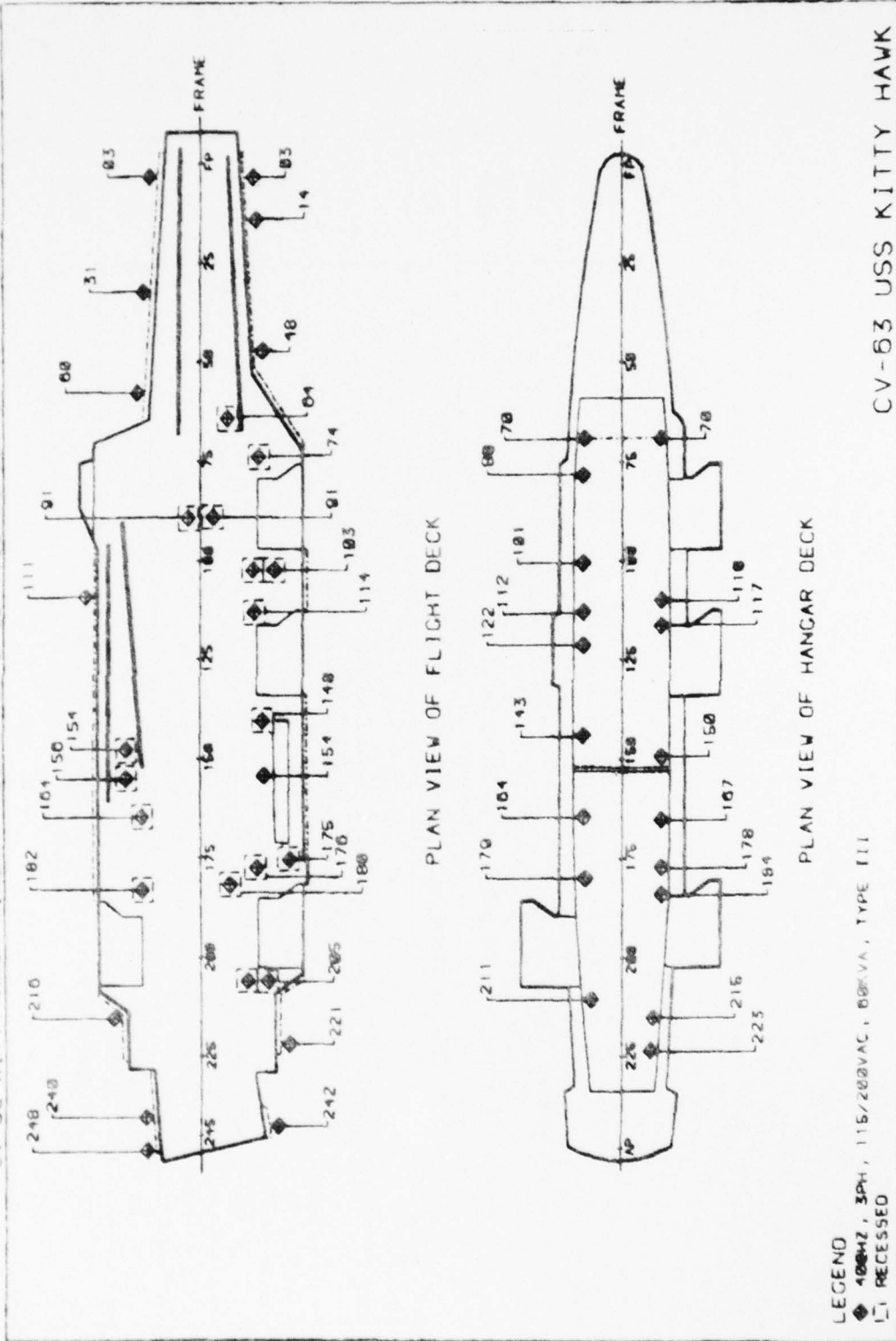
USS KITTY HAWK

AIRCRAFT ELECTRICAL SERVICE OUTLET SUMMARY

400HZ AIRCRAFT SERVICE

SERVICE OUTLETS	FLT DK	HGR DK
1 400Hz, 3PH, 115/200 VAC, 30KVA, Type I	NONE	NONE
2 400Hz, 3PH, 115/200 VAC, 30KVA, Type III	NONE	NONE
3 400Hz, 3PH, 115/200 VAC, 60KVA, Type I	NONE	NONE
4 400Hz, 3PH, 115/200 VAC, 60KVA, Type III	30	18

CV-63 KITTYPHAWK AIRCRAFT ELECTRICAL SERVICE OUTLET LAYOUT (400HZ)



PLAN VIEW OF FLIGHT DECK

PLAN VIEW OF HANGAR DECK

LEGEND  
 ◆ 400HZ, 3PH, 115/200VAC, 600VA, TYPE III  
 ◻ RECESSED

CV-63 USS KITTY HAWK

A/C START AND SUPPORT EQUIPMENT  
ELECTRICAL SERVICE OUTLET SUMMARY

440 VAC SUPPORT EQUIPMENT SERVICE  
28 5 VDC A/C SERVICE AND START

440 VAC SUPPORT EQUIPMENT SERVICE

1 440 VAC 60HZ, 3PH, 25 AMP

2 440 VAC, 60HZ, 3PH, 60 AMP

3 440 VAC, 60HZ, 3PH, 100 AMP

28 5 VDC A/C SERVICE AND START

1 28 5 VDC, 200 AMP Continuous

2 28 5 VDC, 300 AMP Cont, 600 to 900 A Inter

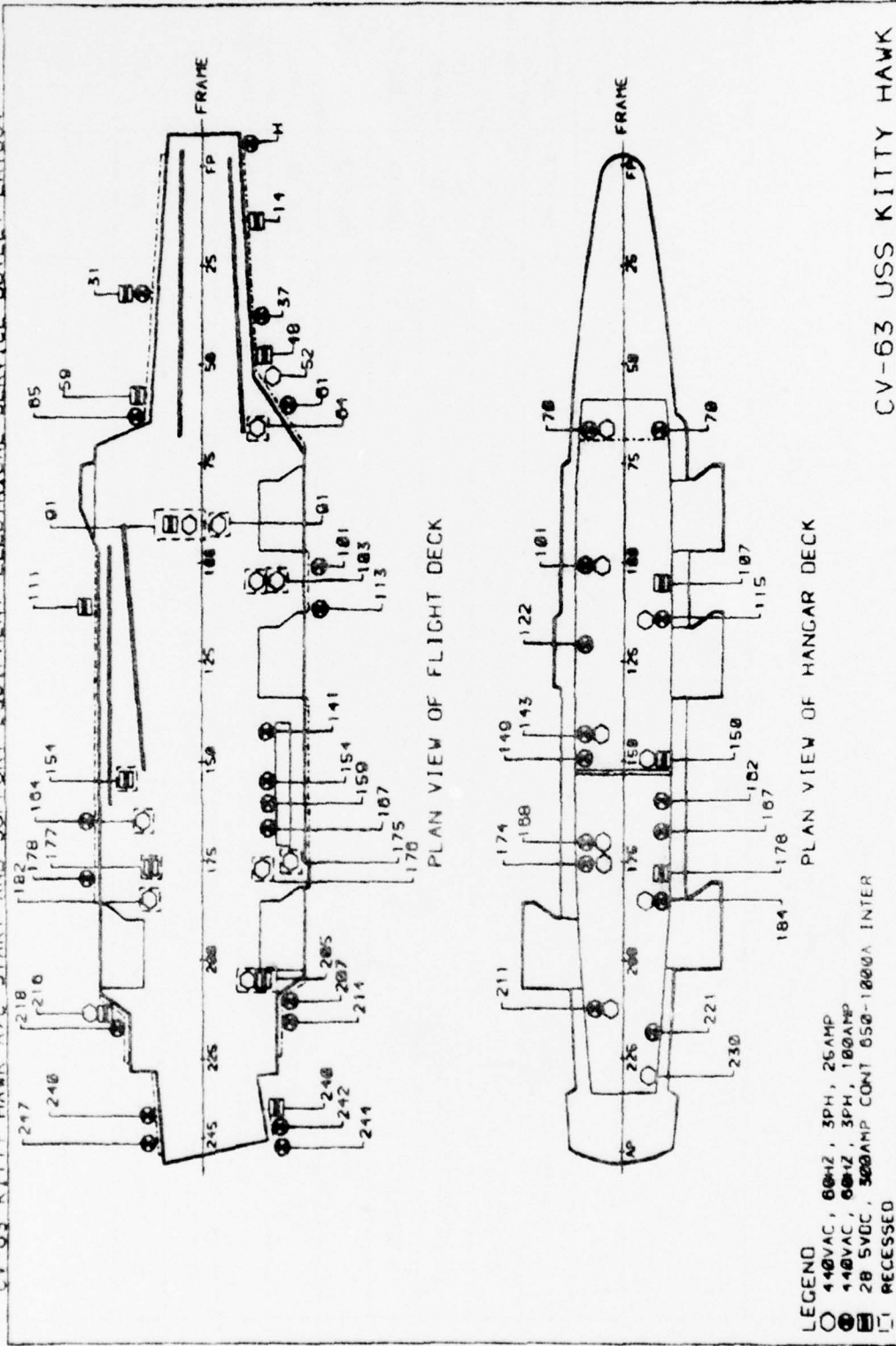
3 28 5 VDC, 600 AMP Cont, 600 to 900 A Inter

4 28 5 VDC, 300 AMP cont, 650 to 1000 A Inter

5 28 5 VDC, 850 AMP Cont, 650 to 1000 A Inter

	FLT DK	HGR DK
1 440 VAC 60HZ, 3PH, 25 AMP	12	10
2 440 VAC, 60HZ, 3PH, 60 AMP	NONE	NONE
3 440 VAC, 60HZ, 3PH, 100 AMP	20	14
28 5 VDC A/C SERVICE AND START		
1 28 5 VDC, 200 AMP Continuous	NONE	NONE
2 28 5 VDC, 300 AMP Cont, 600 to 900 A Inter	NONE	NONE
3 28 5 VDC, 600 AMP Cont, 600 to 900 A Inter	NONE	NONE
4 28 5 VDC, 300 AMP cont, 650 to 1000 A Inter	10	3
5 28 5 VDC, 850 AMP Cont, 650 to 1000 A Inter	NONE	NONE

CV-63 KITTY HAWK AZC START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET LAYOUT



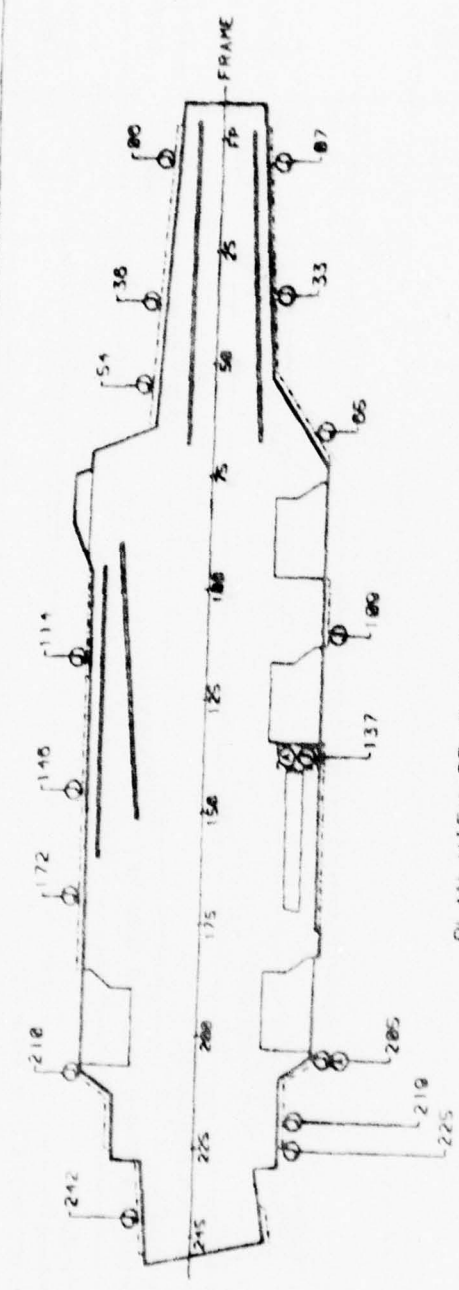
LEGEND

- 440VAC, 60HZ, 3PH, 25AMP
- 440VAC, 60HZ, 3PH, 100AMP
- 28 5VDC, 500AMP CONT 650-1000A INTER
- ▭ RECESSED

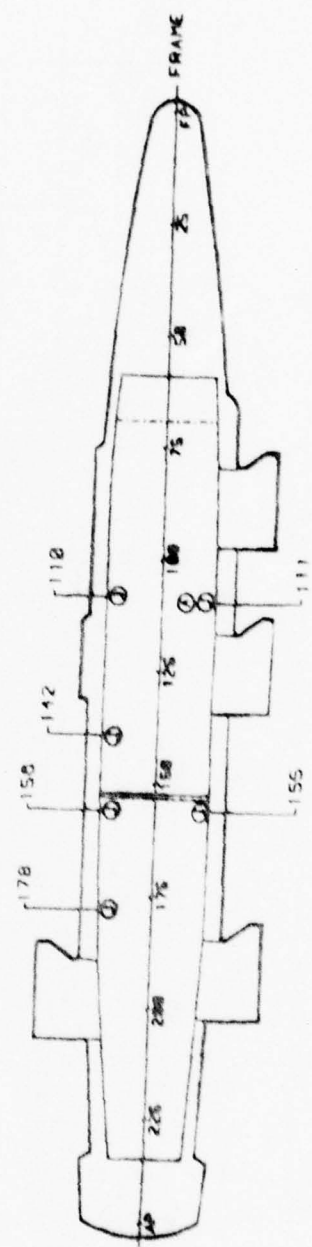
CV-63 USS KITTY HAWK

AVIATION FUEL SERVICE		AV/GAS	JP-5
1	CAPACITY GAL <b>95x</b>	84,313	1,017,555
2	SERVICE OUTLETS	FLT DK 2 HCR DK 1	FLT DK 10 HCR DK 0
3	HOSES PER OUTLET	FLT DK 1 HCR DK 1	FLT DK 3 HCR DK 2
4	SERVICE OUTLET CAPACITY, GPM/PSI	NOTE 1	200/50
	a TWO OUTLETS OPERATING	100/30	200/50
	b FOUR OUTLETS OPERATING	100/30	200/50
	c SIX OUTLETS OPERATING	100/30	200/50
5	DEFUELING CAPACITY PER SERVICE OUTLET GPM	50	100
6	DEFUELING CAPACITY PER PORTABLE PUMP GPM	25	25
NOTES			
1 1-1/2" HOSE AV/GAS, 2-1/2" HOSE JP-5			

CV-63 KITTY HAWK AVIATION FUEL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
 ○ AV/GAS  
 ⊙ JP-5  
 ◌ RECESSED

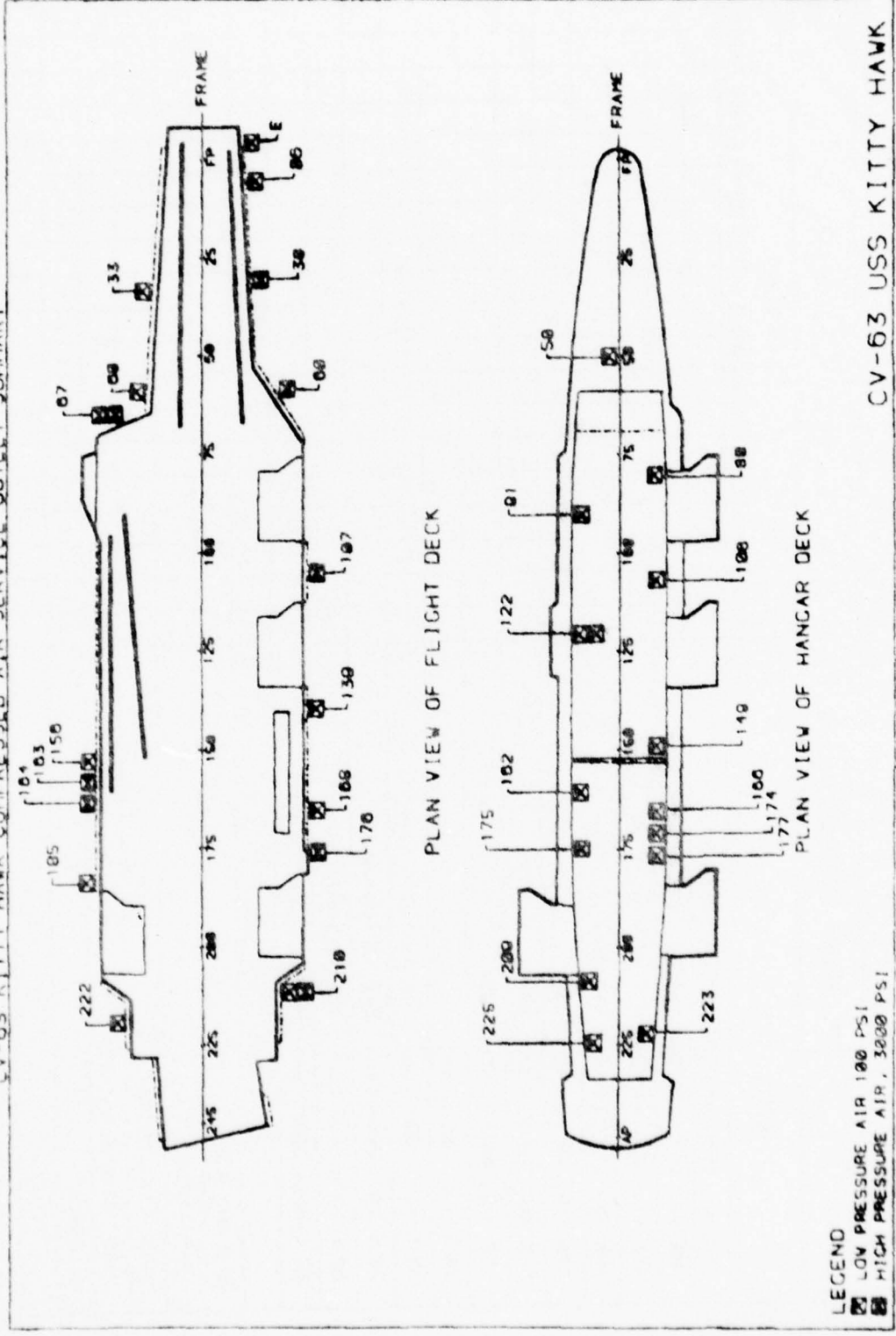
CV-63 USS KITTY HAWK

COMPRESSED AIR SERVICE SUMMARY

COMPRESSED AIR

LOW PRESSURE	FLT DK	HGR DK
1 SERVICE OUTLETS @ 100 PSI	10	15
REDUCED PRESSURE		
1 SERVICE OUTLETS @	NONE	NONE
MEDIUM PRESSURE		
1 SERVICE OUTLETS @ 1800 PSI	NONE	NONE
MEDIUM TO HIGH PRESSURE		
1 SERVICE OUTLETS @ 1800 TO 3000 PSI (VARIABLE)	NONE	NONE
HIGH PRESSURE		
1 SERVICE OUTLETS @ 3000 PSI	9	NONE
TIRE CHANGING AIR		
1 SERVICE OUTLETS @	NONE	NONE

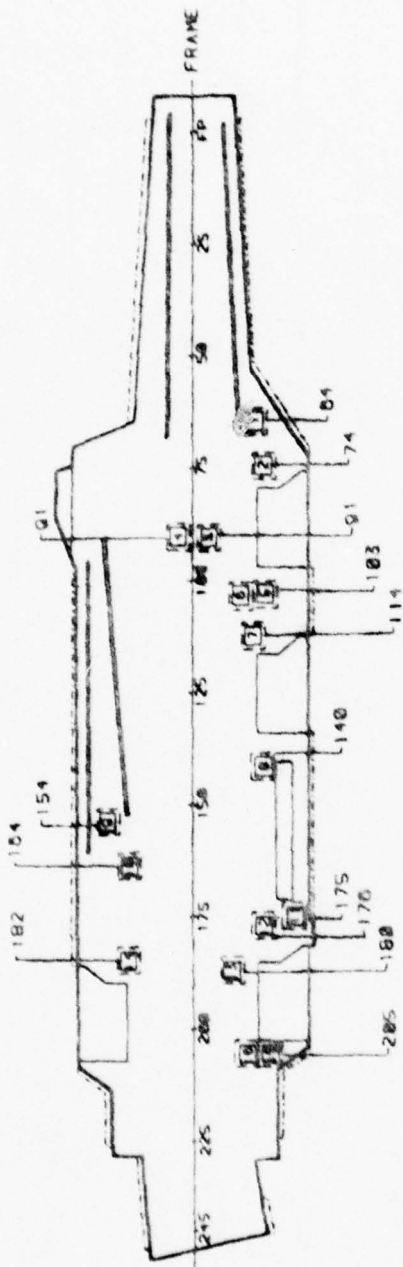
CV-63 KITTITY HAWK COMPRESSED AIR SERVICE OUTLET SUMMARY



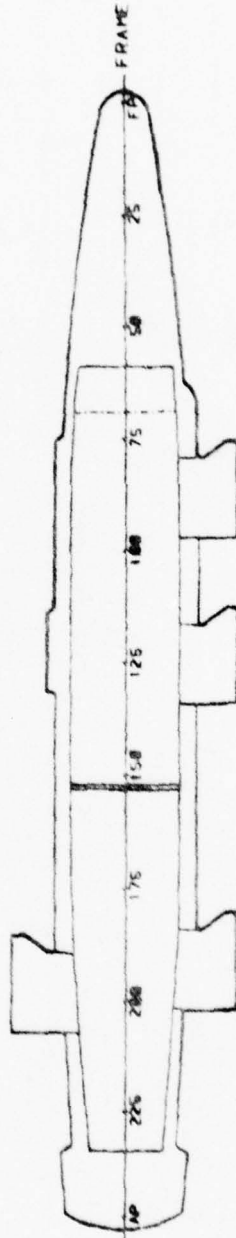
CV-63 USS KITTITY HAWK



CV-63 KITTY HAWK COMBAT READINESS STATION LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
□ COMBAT READINESS STATION  
□ RECESSED

CV-63 USS KITTY HAWK

OXYGEN AND NITROGEN SERVICE SUMMARY

OXYGEN

1 STORAGE CAPACITY, LIQUID GALS 1500  
 2 GENERATING CAPACITY GPH 15-20  
 3 SERVICE OUTLETS, LIQUID FLT DK NONE HGR DK 2  
 4 SERVICE OUTLETS, GASEOUS FLT DK NONE HGR DK 2<sup>d</sup>

NITROGEN (OIL FREE)

1 STORAGE CAPACITY at 5000 PSI 120 CU FT  
 2 SERVICE OUTLETS FLT DK 1<sup>f</sup> HGR DK 3<sup>f</sup>

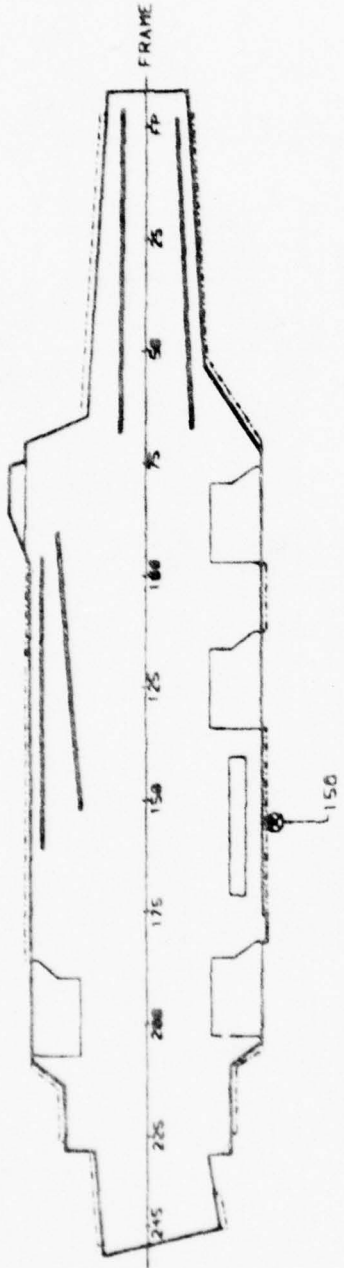
NITROGEN

1 STORAGE CAPACITY at 3000 PSI  
 2 SERVICE OUTLETS FLT DK HGR DK

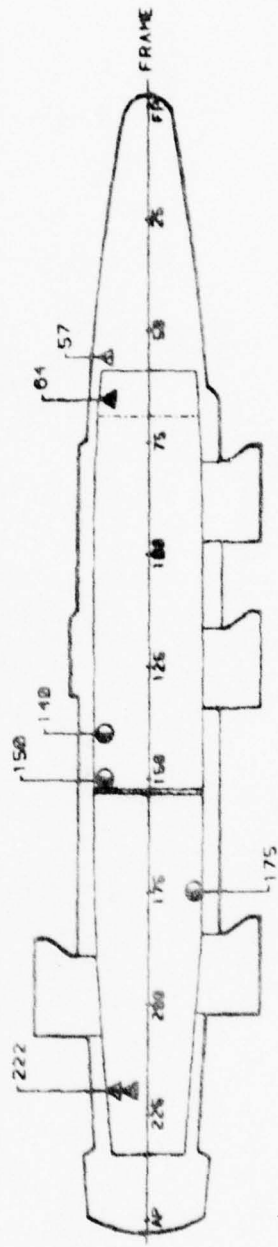
NOTES PRESSURES (PSI)

a 1800 c 2000 e 2000 - 3000 g 3500 i 3000-5000  
 b 1900 d 2000 f 2000 h 500

CV-63 KITTITY HAWK OXYGEN AND NITROGEN SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



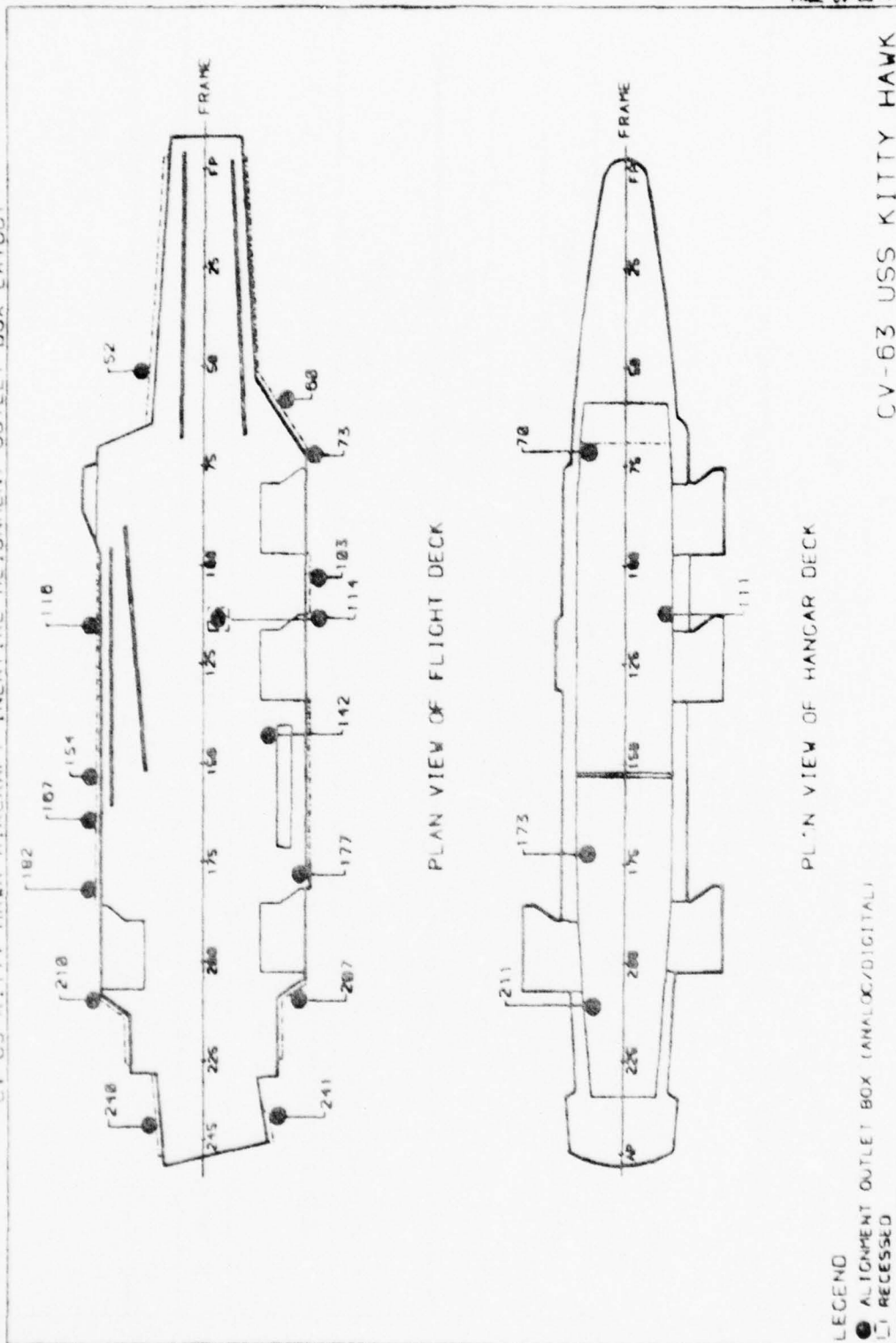
PLAN VIEW OF HANGAR DECK

- LEGEND
- ▲ CASEOUS OXYGEN 2000 PSI
  - ▲ LIQUID OXYGEN
  - CASEOUS NITROGEN 2000 PSI
  - CASEOUS NITROGEN 3000-5000 PSI

CV-63 USS KITTITY HAWK



CV-63 KITTYPHAWK AIRCRAFT INERTIAL ALIGNMENT OUTLET BOX LAYOUT

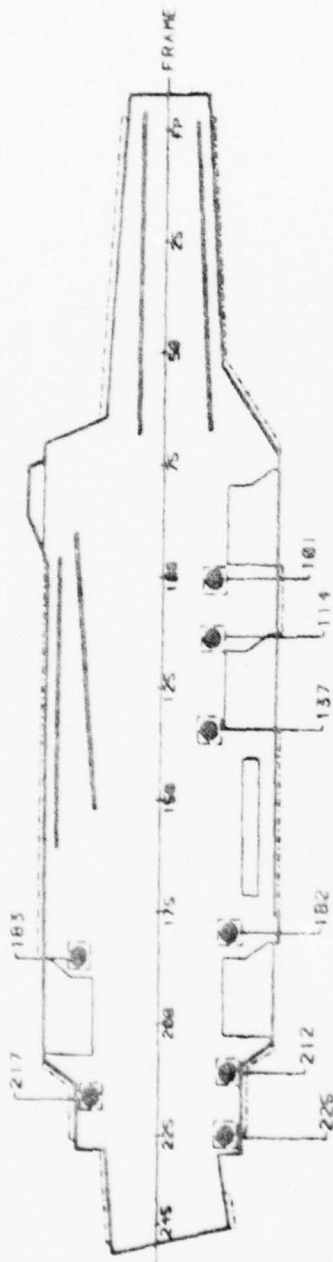


CV-63 USS KITTY HAWK

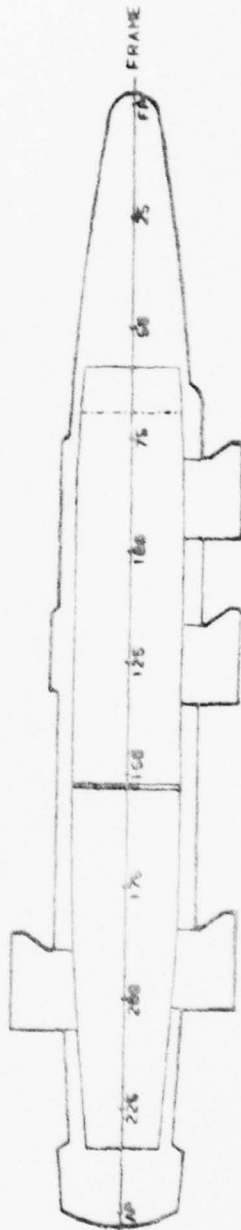
COOLING AND STARTING AIR  
OUTLET SUMMARY

COOLING AIR		
1	OUTLET CAPACITY	
2	SERVICE OUTLETS	FLT DK 8 HGR DK NONE
STARTING AIR		
1	OUTLET CAPACITY	N/A
2	SERVICE OUTLETS	FLT DK NONE HGR DK NONE

CV-63 KITTY HAWK COOLING AIR SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
● SERVICE, COOLING AIR  
┌┐ RECESSED

CV-63 USS KITTY HAWK

	<u>CATEGORY</u>	<u>PAGE NO.</u>
1	Aircraft Electrical Service Outlet Summary (400 Hz) Aircraft Electrical Service Outlet Layout (400 Hz)	1 2
2	Aircraft Electrical and Support Equipment Service Outlet Summary (28.5 VDC, 440 VAC)	3
3	Aircraft Electrical and Support Equipment Service Outlet Layout (28.5 VDC, 440 VAC)	4
4	Aviation Fuel Service Summary Aviation Fuel Service Outlet Layout	5 6
5	Compressed Air Service Summary Compressed Air Service Outlet Layout	7 8
6	Combat Readiness Station Service Summary Combat Readiness Station Layout	9 10
7	Oxygen and Nitrogen Service Summary Oxygen and Nitrogen Service Outlet Layout	11 12
8	Aircraft Inertial Alignment Outlet Box Summary Aircraft Inertial Alignment Outlet Box Layout	13 14
	Aircraft Cooling and Starting Air Outlet Summary Aircraft Cooling and Starting Air Outlet Layout	N/A N/A

LATEST CHECK - JUNE 1973

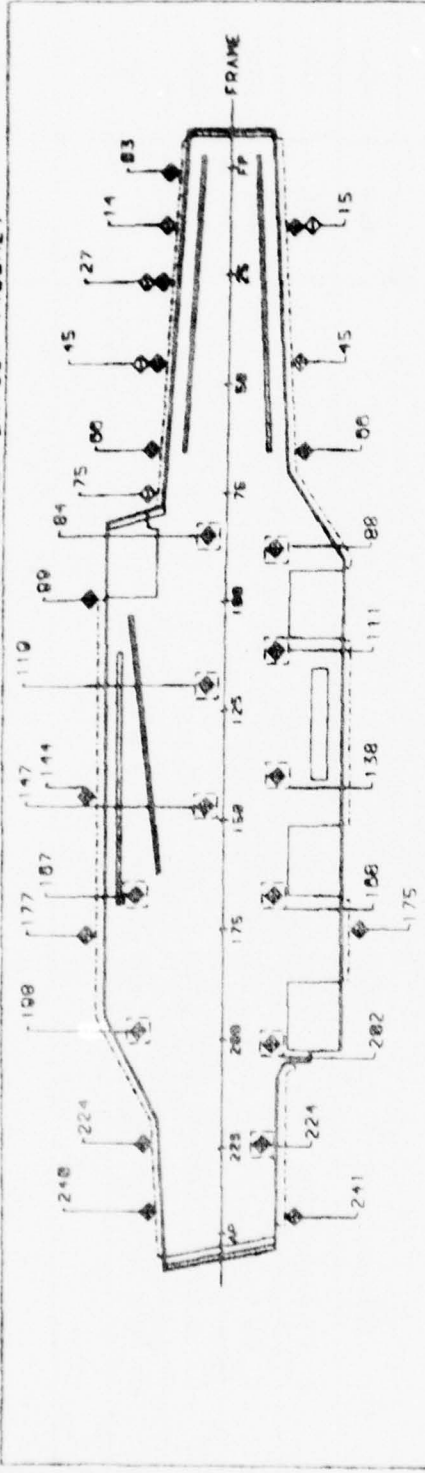
USS INDEPENDENCE

AIRCRAFT ELECTRICAL SERVICE OUTLET SUMMARY

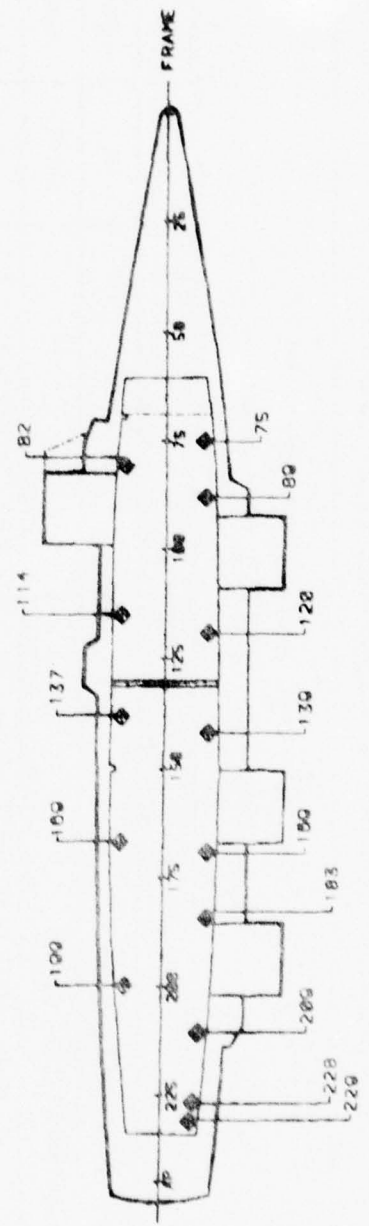
400HZ AIRCRAFT SERVICE

SERVICE OUTLETS	FLT OK	HCR OK
1 400Hz, 3PH, 115/200 VAC, 50KVA, Type I	NONE	NONE
2 400Hz, 3PH, 115/200 VAC, 30KVA, Type III	NONE	NONE
3 400Hz, 3PH, 115/200 VAC, 50KVA, Type I	5	NONE
4 400Hz, 3PH, 115/200 VAC, 20KVA, Type III	25	14

CV-62 INDEPENDENCE AIRCRAFT ELECTRICAL SERVICE OUTLET LAYOUT (400HZ)



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

- LEGEND  
 ◆ 400-HZ, 3PH, 115/200 VAC, 6BKVA, TYPE I  
 ◆ 400-HZ, 3PH, 115/200 VAC, 6BKVA, TYPE III  
 □ RECESSED

CV-62 USS INDEPENDENCE

A/C START AND SUPPORT EQUIPMENT  
 ELECTRICAL SERVICE OUTLET SUMMARY

440 VAC SUPPORT EQUIPMENT SERVICE  
 28 5 VDC A/C SERVICE AND START

410 VAC SUPPORT EQUIPMENT SERVICE

1 410 VAC 60HZ, 3PH, 25 AMP

2 410 VAC, 60HZ, 3PH, 60 AMP

3 410 VAC, 60HZ, 3PH, 100 AMP

28 5 VDC A/C SERVICE AND START

1 28 5 VDC, 200 AMP CONTINUOUS

2 28 5 VDC, 300 AMP CONT, 000 TO 900 A Inter

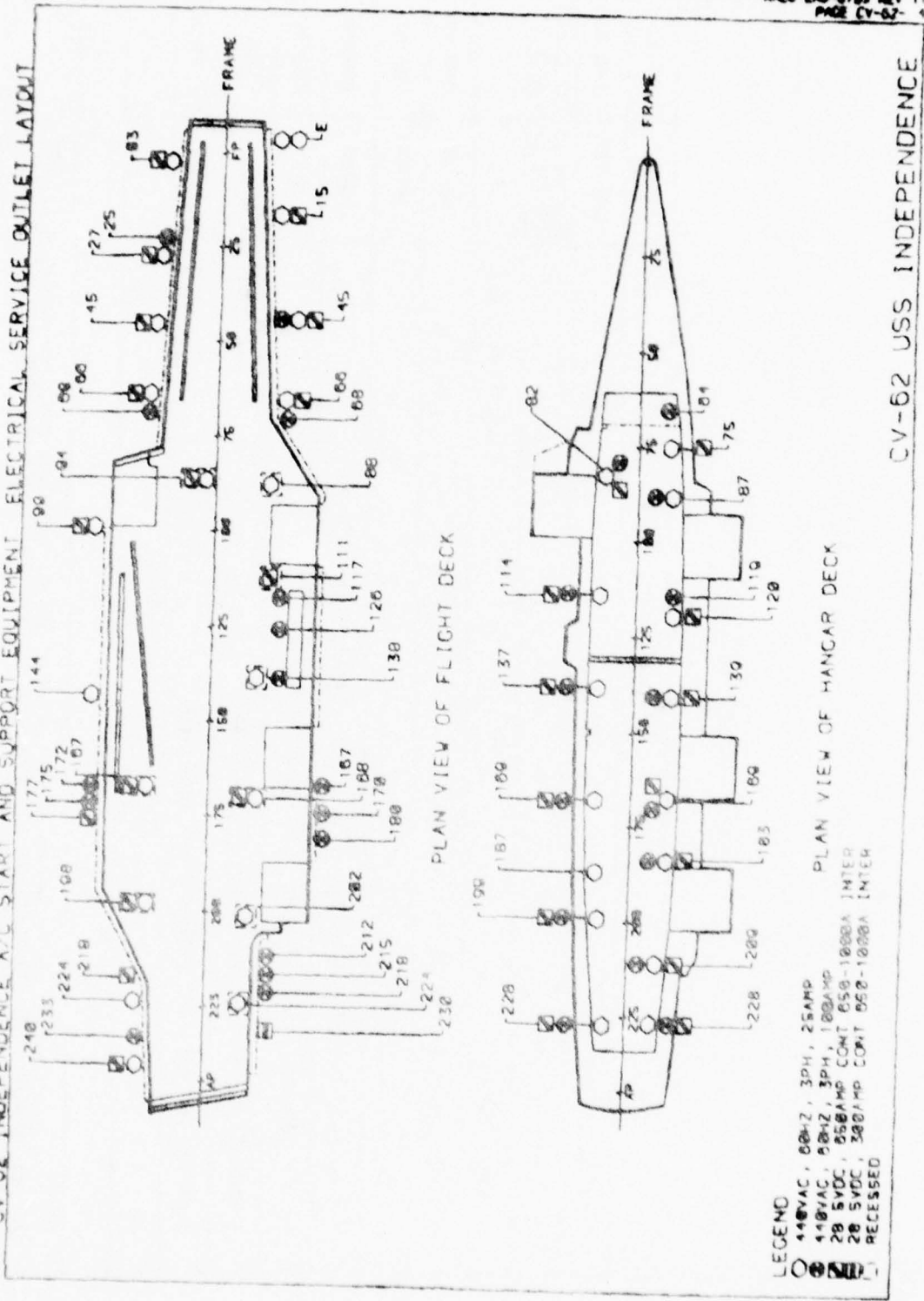
3 28 5 VDC, 600 AMP CONT, 000 TO 900 A Inter

4 28 5 VDC, 300 AMP CONT, 050 TO 1000 A Inter

5 28 5 VDC, 050 AMP CONT, 050 TO 1000 A Inter

	FLT DK	MCR DK
	21	15
	NONE	NONE
	10	14
	NONE	NONE
	NONE	NONE
	NONE	NONE
	1	NONE
	10	13

CV-62 INDEPENDENCE A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK

PLAN VIEW OF HANGAR DECK

- LEGEND
- 440VAC, 60HZ, 3PH, 25AMP
  - 440VAC, 60HZ, 3PH, 100AMP
  - 28 5VDC, 55AMP CONT 650-1000A INTER
  - 28 5VDC, 380AMP CONT 650-1000A INTER
  - ⊖ RECESSED

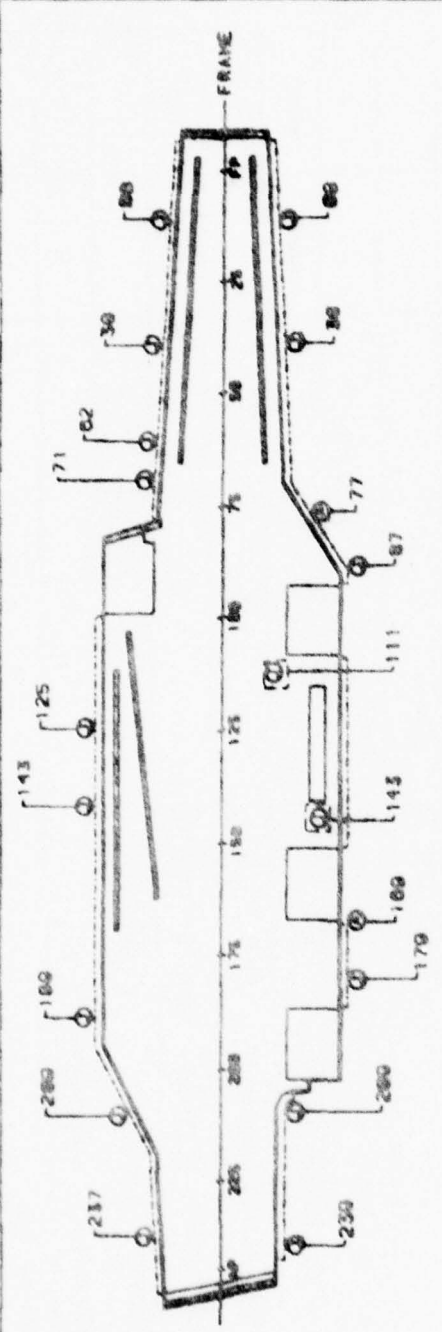
CV-62 USS INDEPENDENCE

AVIATION FUEL SERVICE

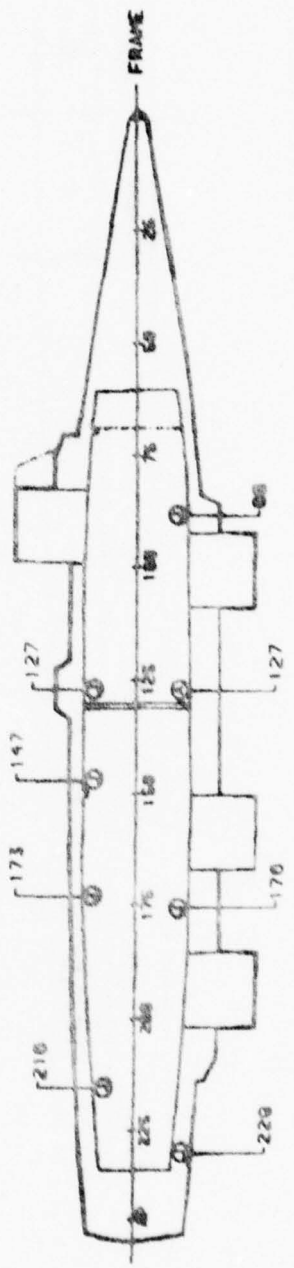
AVIATION GASOLINE AND JP-5

	AV/GAS	JP-5
1 CAPACITY GAL <del>05X</del>	185,500	1,178,305
2 SERVICE OUTLETS	FLT DK 2 HGR DK 1	FLT DK 17 HGR DK 7
3 HOSES PER OUTLET	2	4
4 SERVICE OUTLET CAPACITY, GPH/PSI	100/40	200/40
a TWO OUTLETS OPERATING	100/40	200/40
b FOUR OUTLETS OPERATING	100/40	200/40
c SIX OUTLETS OPERATING	N/A	200/40
5 DEFUELING CAPACITY PER SERVICE OUTLET GPH	100	100
6 DEFUELING CAPACITY PER PORTABLE PUMP GPH	50	50
<p>NOTES</p> <p>1 JP-5 STATIONS AT FR 71 AND FR 62 FLT DK PORT ARE 121 TWO HOSE OUTLETS, AV/GAS STATIONS</p> <p>2 ALL HANGAR DECK STATIONS ARE 121 TWO HOSE OUTLETS FR 77 AND 180 STBD ARE 4 HOSE STATIONS</p> <p>3 1-1/2" AV/GAS, 2-1/2" HOSE JP-5</p>		

CV-62 INDEPENDENCE AVIATION FUEL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
 ○ AV/GAS  
 ⊙ JP-5  
 ⊔ RECESSED

COMPRESSED AIR SERVICE SUMMARY

COMPRESSED AIR

LOW PRESSURE	FLT DK	HGR DK
1 SERVICE OUTLETS @ 100 PSI	0	33
REDUCED PRESSURE		
1 SERVICE OUTLETS @	NONE	NONE
MEDIUM PRESSURE		
1 SERVICE OUTLETS @ 1000 PSI	NONE	NONE
MEDIUM TO HIGH PRESSURE		
1 SERVICE OUTLETS @ 1000 TO 3000 PSI (VARIABLE)	NONE	NONE
HIGH PRESSURE		
1 SERVICE OUTLETS @ 3000 PSI	0	2
TIRE CHANGING AIR		
1 SERVICE OUTLETS @	NONE	NONE

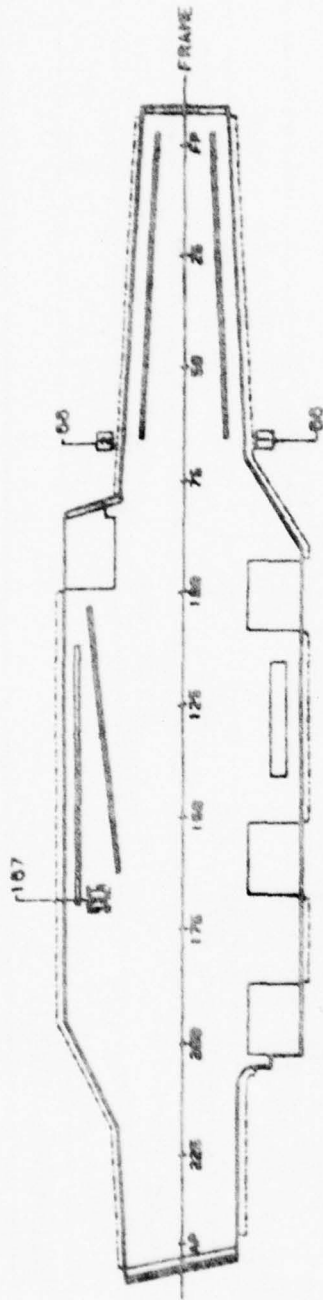


### COMBAT READINESS STATION SERVICE SUMMARY

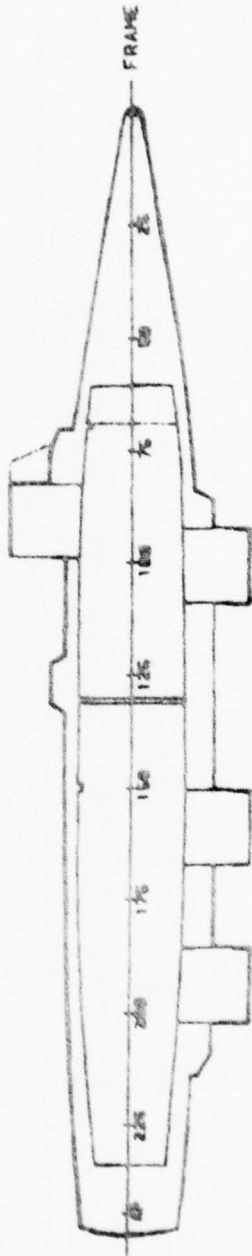
SERVICES	STATIONS																		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
420 Hz, 3PH, 115/200 VAC 30 KVA, Type I																			
400 Hz, 3PH, 115/200 VAC 30 KVA, Type III																			
400 Hz, 3PH, 115/200 VAC 60 KVA, Type I																			
400 Hz, 3PH, 115/200 VAC 50 KVA, Type III	1	1	1																
440 VAC, 60 Hz, 3PH, 25A	1	1	1																
440 VAC, 60 Hz, 3PH, 60A																			
440 VAC, 60 Hz, 3PH, 100A																			
20 5 VDC, 200A Cont																			
20 5 VDC, 300A Cont 650 to 1000A Inter																			
20 5 VDC, 600A Cont 600 to 900A Inter																			
20 5 VDC, 650A Cont 650 to 1000A Inter	1	1	1																
20 5 VDC, 800A Cont 800 to 1000A Inter																			
COOLING AIR																			
STARTING AIR																			
SINS (DUAL OUTLET)																			
SINS (SINGLE OUTLET)																			
RECESSED																			

x

CV-62 INDEPENDENCE COMBAT READINESS STATION LAYOUT



PLAN VIEW OF FLIGHT DECK



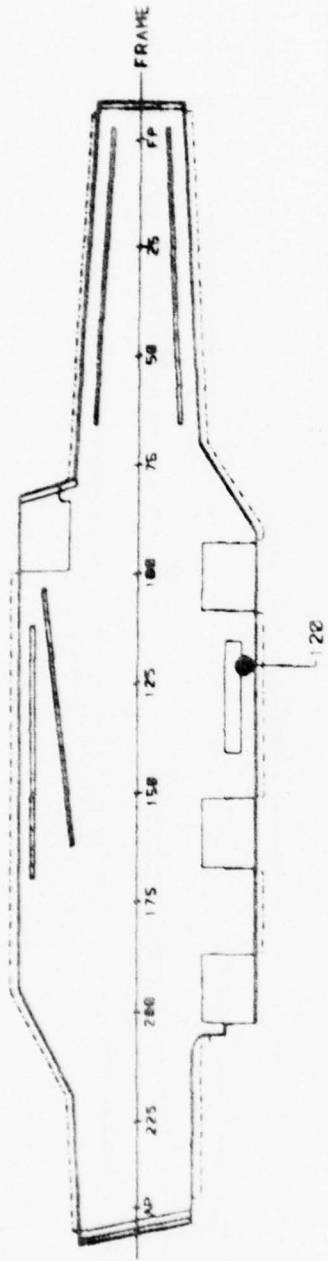
PLAN VIEW OF HANGAR DECK

LEGEND  
 □ COMBAT READINESS STATION  
 ◻ RECESSED

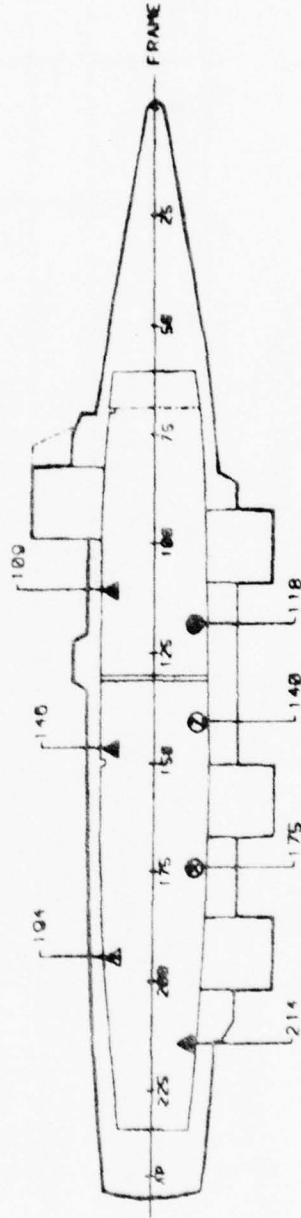
CV-62 USS INDEPENDENCE

OXYGEN AND NITROGEN SERVICE SUMMARY			
OXYGEN			
1 STORAGE CAPACITY, LIQUID GALS	2650		
2 GENERATING CAPACITY GPH	28 0		
3 SERVICE OUTLETS, LIQUID	FLT DK NONE	HCR DK 1	
4 SERVICE OUTLETS, GASEOUS	FLT DK NONE	HCR DK 3 <sup>d</sup>	
NITROGEN (OIL FREE)			
1 STORAGE CAPACITY @ 5000 PSI	60 cu ft		
2 SERVICE OUTLETS	FLT DK 1 <sup>b</sup>	HCR DK 1, 1 <sup>c</sup> , 1 <sup>f</sup>	
NITROGEN			
1 STORAGE CAPACITY @ 3600 PSI	NONE		
2 SERVICE OUTLETS	FLT DK NONE	HCR DK NONE	
NOTES PRESSURES (PSI)			
a 1800	c 2000	e 2000 - 3000	g 3500 i 5000
b 1000	d 2000	f 3000	h 5000

CV-62 INDEPENDENCE OXYGEN AND NITROGEN SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



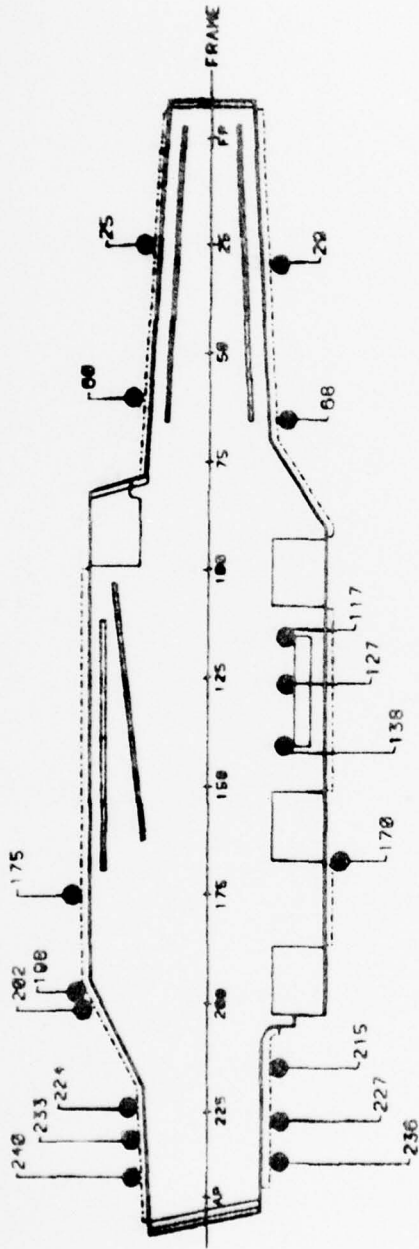
PLAN VIEW OF HANGAR DECK

- LEGEND
- ▲ CASEOUS OXYGEN 2000 PSI
  - △ LIQUID OXYGEN
  - CASEOUS NITROGEN 2000 PSI
  - ⊙ CASEOUS NITROGEN 3000-5000 PSI
  - ⊗ CASEOUS NITROGEN 3000-5000 PSI

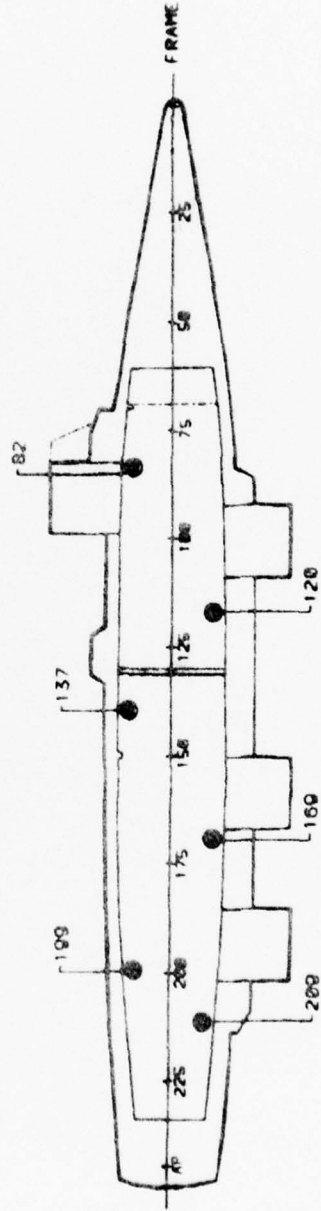
CV-62 USS INDEPENDENCE



CV-62 INDEPENDENCE AIRCRAFT INERTIAL ALIGNMENT OUTLET BOX LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
● ALIGNMENT OUTLET BOX (ANALOG/DIGITAL)

CV-62 USS INDEPENDENCE

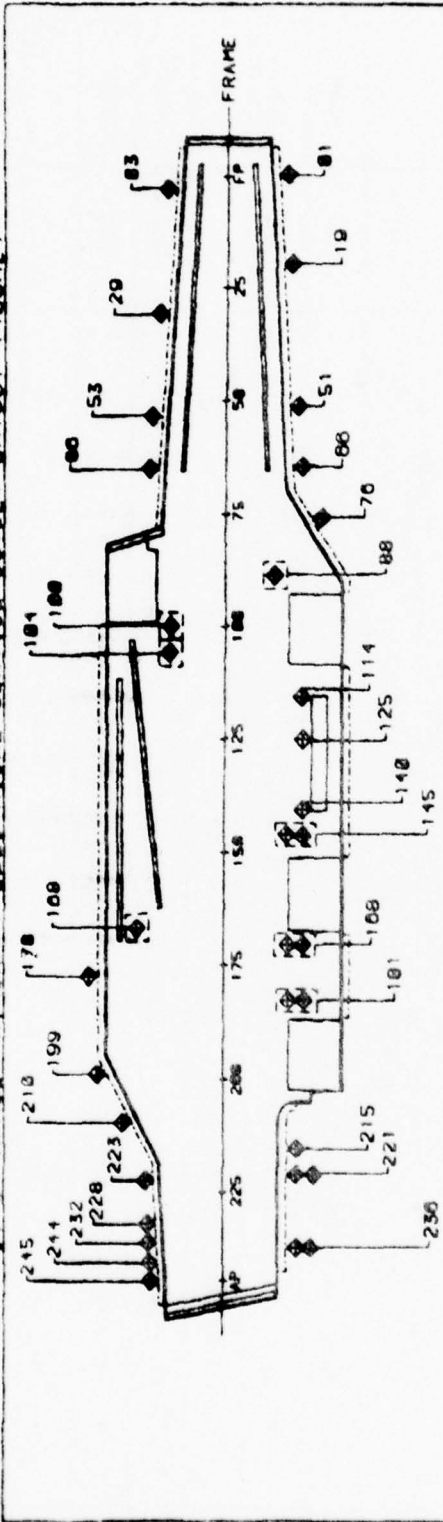
	<u>CATEGORY</u>	<u>PAGE NO.</u>
1	Aircraft Electrical Service Outlet Summary (400 Hz) Aircraft Electrical Service Outlet Layout (400 Hz)	1 2
2	Aircraft Electrical and Support Equipment Service Outlet Summary (28 5 VDC, 440 VAC)	3
4	Aircraft Electrical and Support Equipment Service Outlet Layout (28 5 VDC, 440 VAC)	4
5	Aviation Fuel Service Summary	5
6	Aviation Fuel Service Outlet Layout	6
7	Compressed Air Service Summary	7
8	Compressed Air Service Outlet Layout	8
9	Combat Readiness Station Service Summary	9
10	Combat Readiness Station Layout	10
11	Oxygen and Nitrogen Service Summary	11
12	Oxygen and Nitrogen Service Outlet Layout	12
13	Aircraft Inertial Alignment Outlet Box Summary	13
14	Aircraft Inertial Alignment Outlet Box Layout	14
N/A	Aircraft Cooling and Starting Air Outlet Summary	N/A
N/A	Aircraft Cooling and Starting Air Outlet Layout	N/A

LATEST CHECK - AUGUST 1978

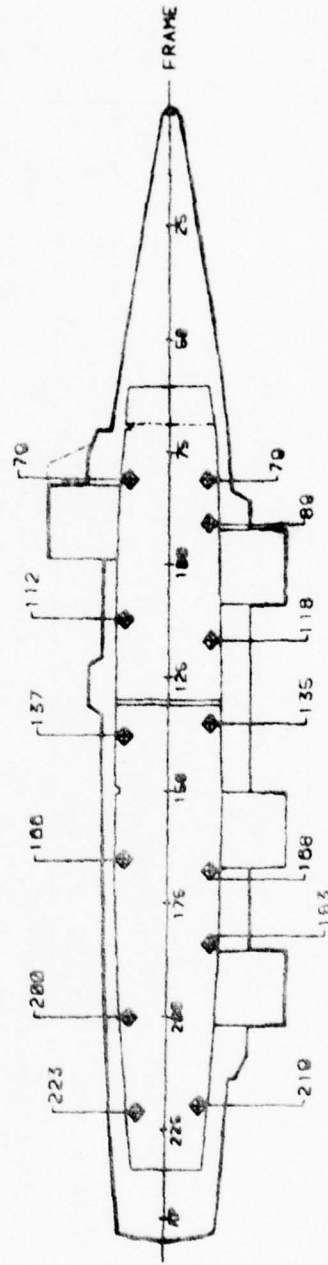
USS RANGER



CV-61 RANGER AIRCRAFT ELECTRICAL SERVICE OUTLET LAYOUT (400HZ)



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
 ◆ 400HZ, 3PH, 115/200VAC, 60KVA, TYPE 111  
 □ RECESSED

CV-61 USS RANGER

A/C START AND SUPPORT EQUIPMENT  
 ELECTRICAL SERVICE OUTLET SUMMARY

440 VAC SUPPORT EQUIPMENT SERVICE  
 28 5 VDC A/C SERVICE AND START

440 VAC SUPPORT EQUIPMENT SERVICE

1 440 VAC, 60Hz, 3PH, 25 AMP

2 440 VAC, 60Hz, 3PH, 60 AMP

3 440 VAC, 60Hz, 3PH, 100 AMP

28 5 VDC A/C SERVICE AND START

1 28 5 VDC, 200 AMP Continuous

2 28 5 VDC, 300 AMP Cont, 000 to 000 A Inter

3 28 5 VDC, 000 AMP Cont, 000 to 000 A Inter

4 28 5 VDC, 300 AMP cont, 050 to 1000 A Inter

5 28 5 VDC, 050 AMP Cont, 050 to 1000 A Inter

FLT DK

15

NONE

10

NONE

NONE

2

NONE

NONE

HCR DK

11

NONE

14

NONE

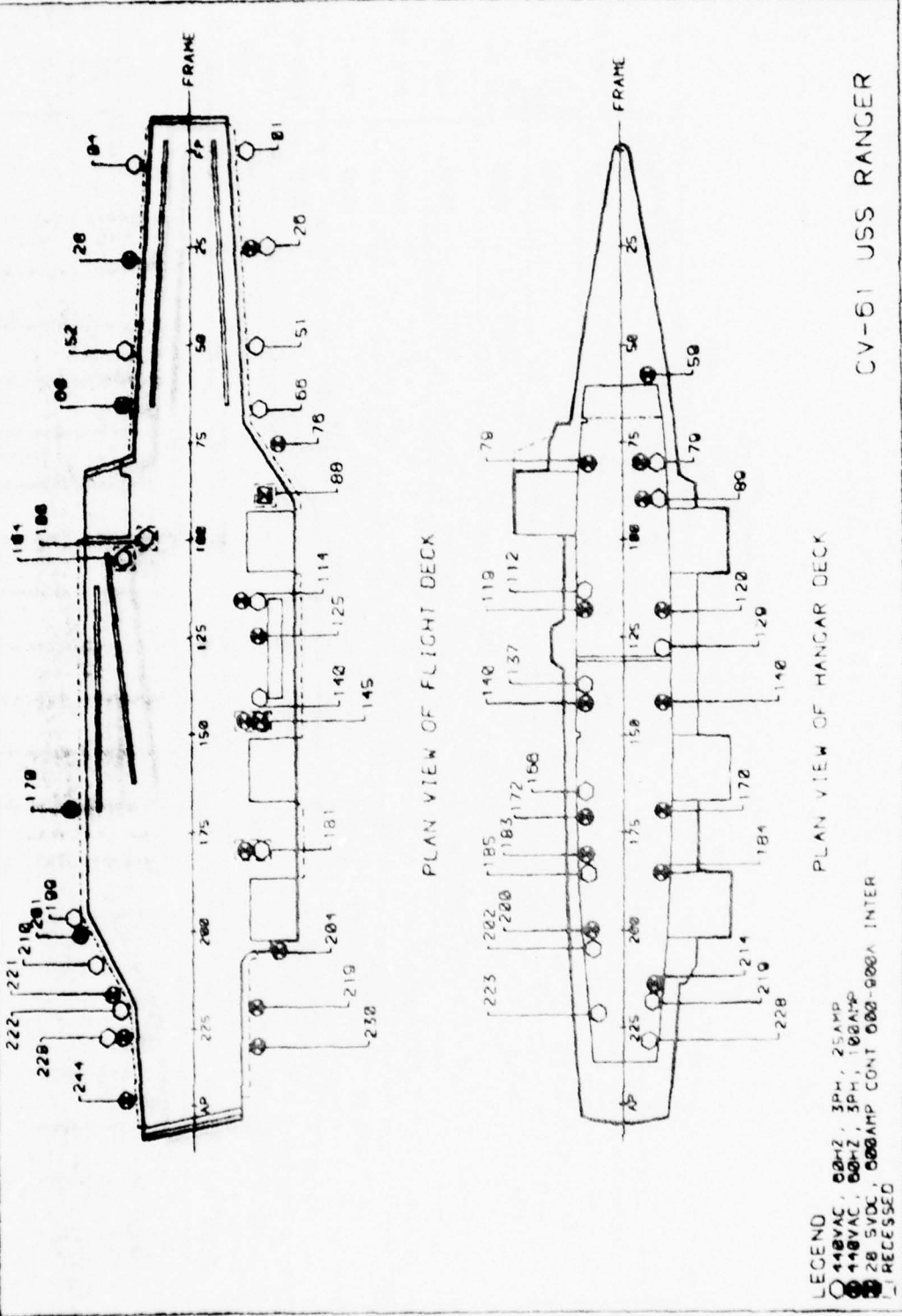
NONE

NONE

NONE

NONE

CV-61 RANGER AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK

PLAN VIEW OF HANGAR DECK

LEGEND  
 ○ 440VAC, 60-HZ, 3PH, 25AMP  
 ⊙ 440VAC, 60-HZ, 3PH, 100AMP  
 ⊚ 28 SVDC, 000AMP CONT 000-000A INTER  
 □ RECESSED

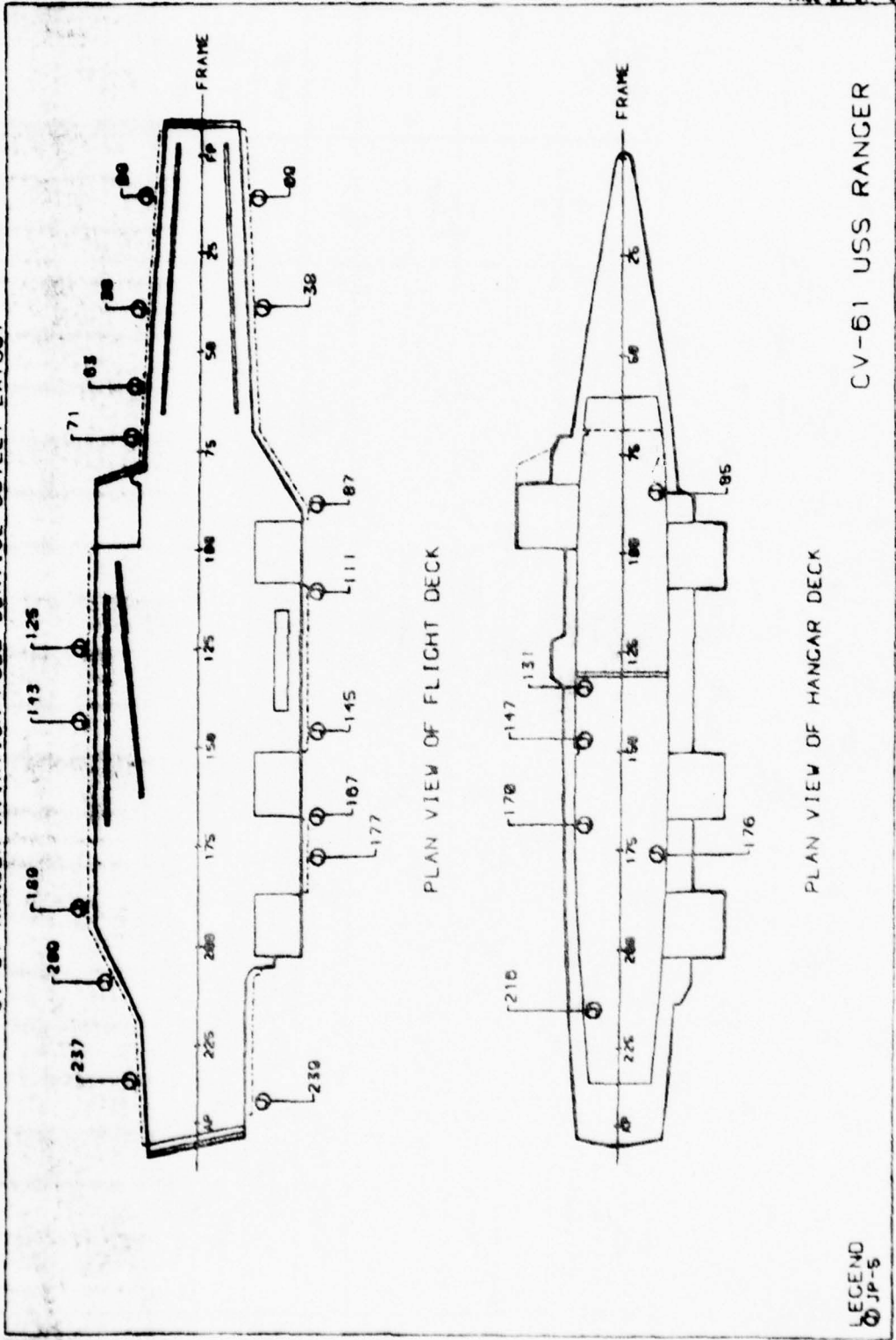
CV-61 USS RANGER

AVIATION FUEL SERVICE

AVIATION GASOLINE AND JP-5

	AV/GAS	JP-5
1 CAPACITY GAL 95X	NONE	1,523,120
2 SERVICE OUTLETS	NONE	FLT DK 17 HGR DK 8
3 HOSES PER OUTLET	NONE	NOTE 1 FLT DK 4 HGR DK 2
4 SERVICE OUTLET CAPACITY, GPM/PSI	NONE	NOTE 2 200/30
a TWO OUTLETS OPERATING	NONE	200/30
b FOUR OUTLETS OPERATING	NONE	200/30
c SIX OUTLETS OPERATING	NONE	200/30
5 DEFUELING CAPACITY PER SERVICE OUTLET GPM	NONE	100
6 DEFUELING CAPACITY PER PORTABLE PUMP GPM	NONE	50 (2)
<p>NOTES</p> <p>1 FLIGHT DECK JP-5 OUTLETS FRAMES 71 AND 63 ARE 121 HOSE OUTLETS</p> <p>2 2-1/2" HOSE JP-5</p>		

CV-61 RANGER AVIATION FUEL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK

PLAN VIEW OF HANGAR DECK

CV-61 USS RANGER

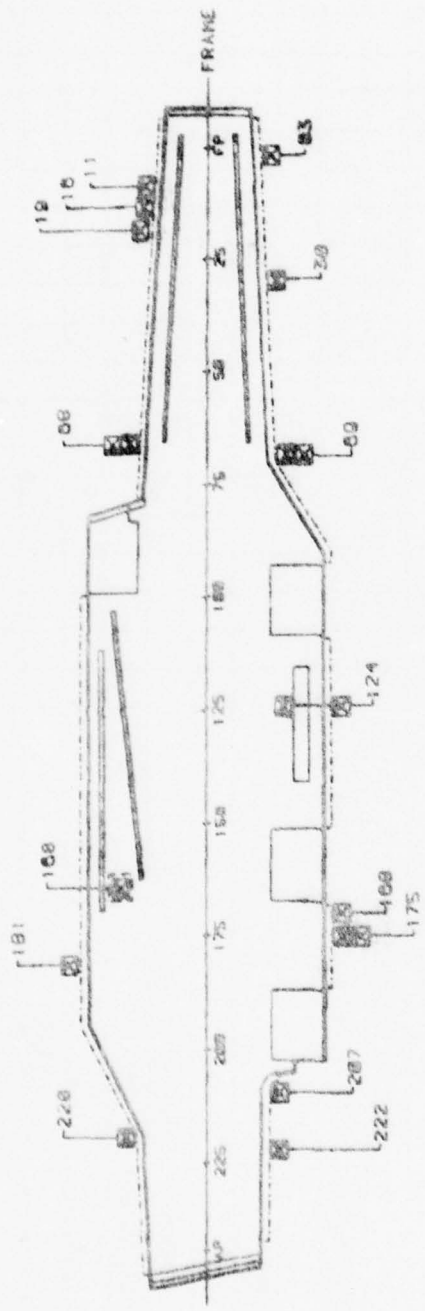
LEGEND  
JP-5

COMPRESSED AIR SERVICE SUMMARY

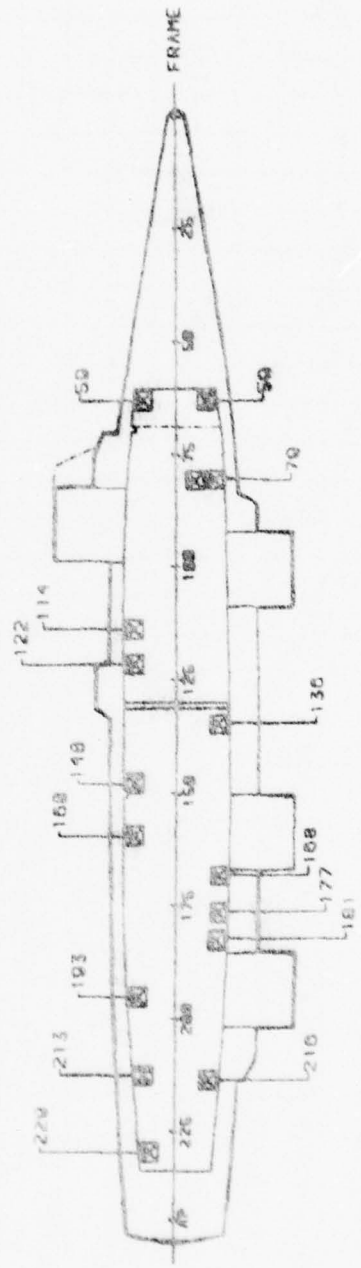
COMPRESSED AIR

LOW PRESSURE	FLT DK	HGR DK
1 SERVICE OUTLETS @ 100 PSI	0	13
REDUCED PRESSURE		
1 SERVICE OUTLETS @	NONE	NONE
MEDIUM PRESSURE		
1 SERVICE OUTLETS @ 1000 PSI	2	NONE
MEDIUM TO HIGH PRESSURE		
1 SERVICE OUTLETS @ 1800 TO 3000 PSI (VARIABLE)	NONE	NONE
HIGH PRESSURE		
1 SERVICE OUTLETS @ 3000 PSI	8	3
TIRE CHANGING AIR		
1 SERVICE OUTLETS @	NONE	NONE

CV-61 RANGER COMPRESSED AIR SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



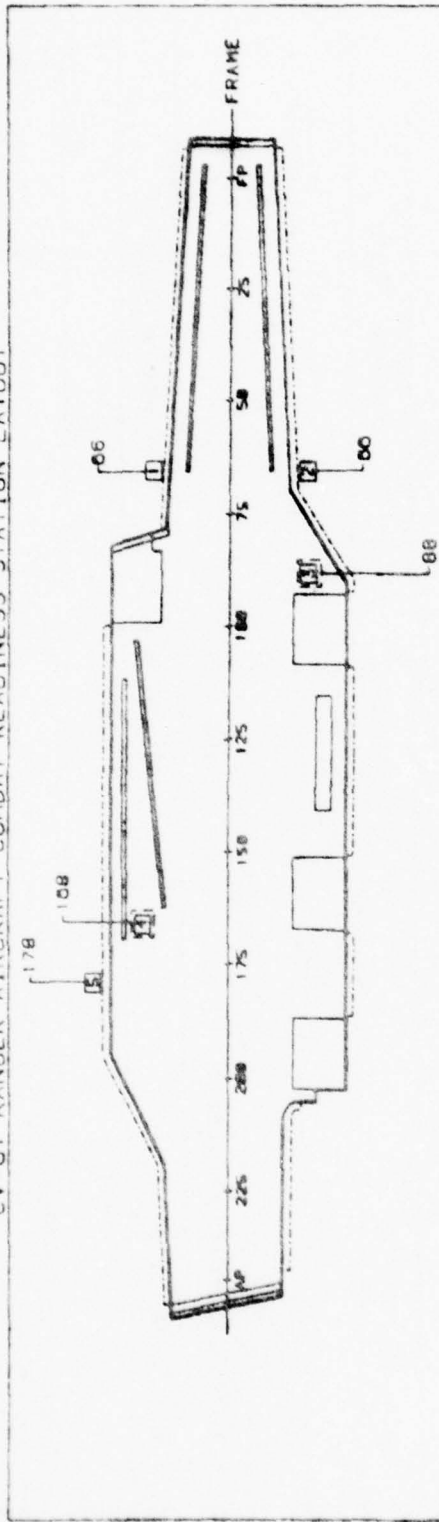
PLAN VIEW OF HANGAR DECK

LEGEND  
 [Symbol] LOW PRESSURE AIR, 100 PSI  
 [Symbol] MEDIUM PRESSURE AIR, 1800 PSI  
 [Symbol] HIGH PRESSURE AIR, 3000 PSI  
 [Symbol] RECESSED

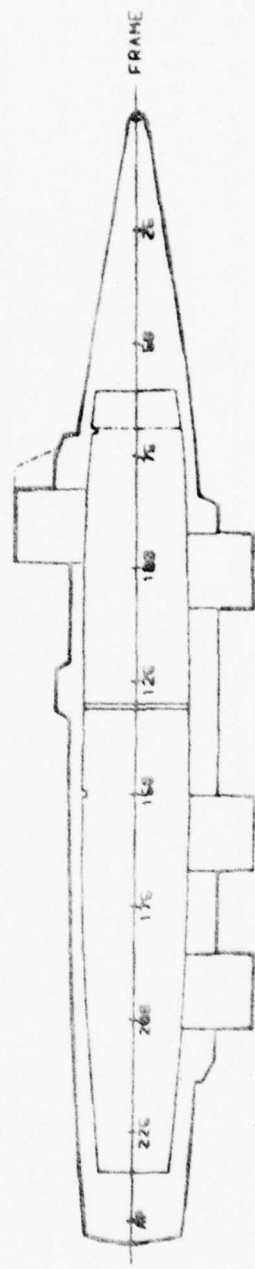
CV-61 USS RANGER



CV-61 RANGER AIRCRAFT COMBAT READINESS STATION LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

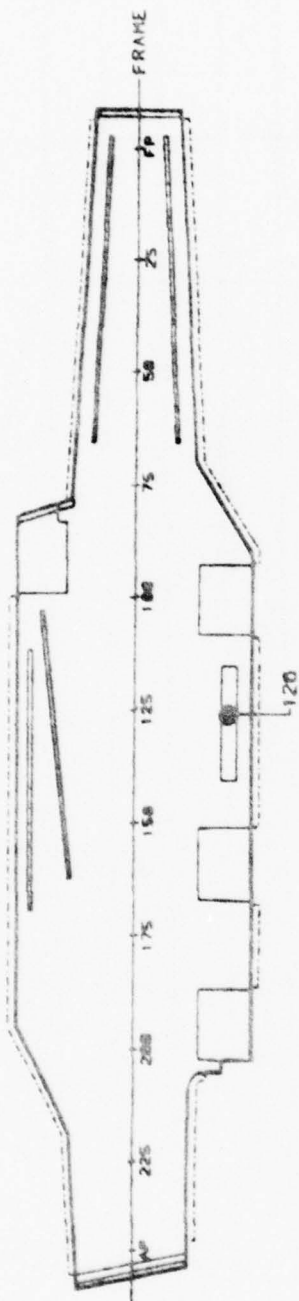
LEGEND  
□ COMBAT READINESS STATION  
◻ RECESSED

CV-61 USS RANGER

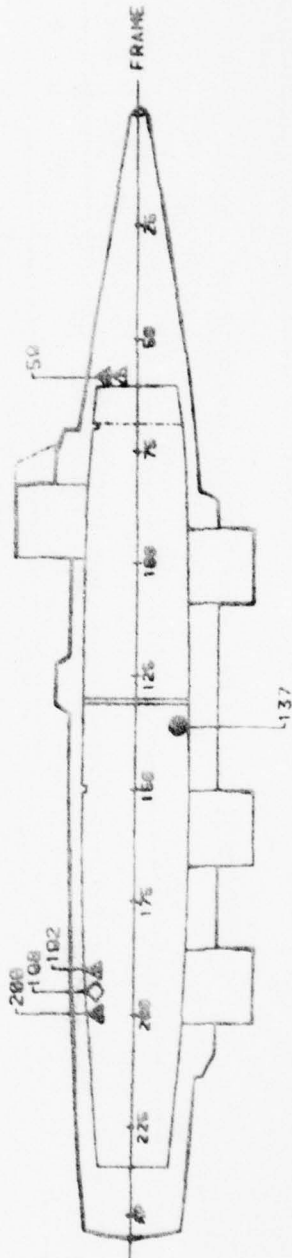
OXYGEN AND NITROGEN SERVICE SUMMARY

OXYGEN			
1	STORAGE CAPACITY, LIQUID GALS	2,258	
2	GENERATING CAPACITY GPH	35	
3	SERVICE OUTLETS, LIQUID	FLT DK NONE	HGR DK 2
4	SERVICE OUTLETS, GASEOUS	FLT DK NONE	HGR DK 2 <sup>a</sup>
NITROGEN (OIL FREE)			
1	STORAGE CAPACITY @ 5000 PSI	120 CU FT	
2	SERVICE OUTLETS	FLT DK 1 <sup>b</sup>	HGR DK 1 <sup>b</sup> , 1 <sup>d</sup>
NITROGEN			
1	STORAGE CAPACITY @ 3000 PSI	NONE	
2	SERVICE OUTLETS	FLT DK NONE	HGR DK NONE
NOTES PRESSURES (PSI)			
a	1800	c 2000	e 2000 - 3000
b	1000	d 2000	f 3000
		g 3500	i 5000
		h 500	

CV-61 RANGER OXYGEN AND NITROGEN SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



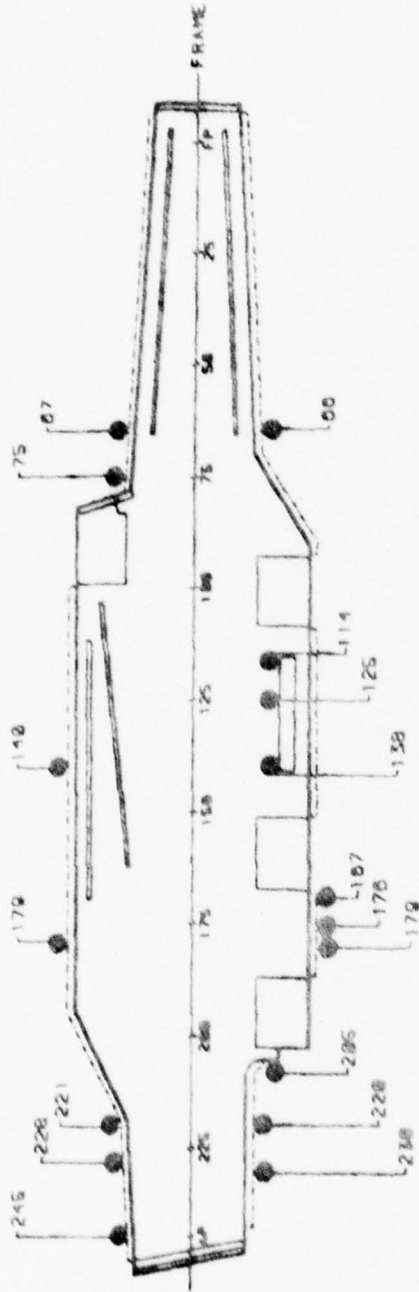
PLAN VIEW OF HANGAR DECK

- LEGEND
- LIQUID OXYGEN TRANSFER
  - CASEOUS NITROGEN 2000-3000 PSI
  - CASEOUS NITROGEN 3500 PSI
  - ▲ CASEOUS OXYGEN 2600 PSI

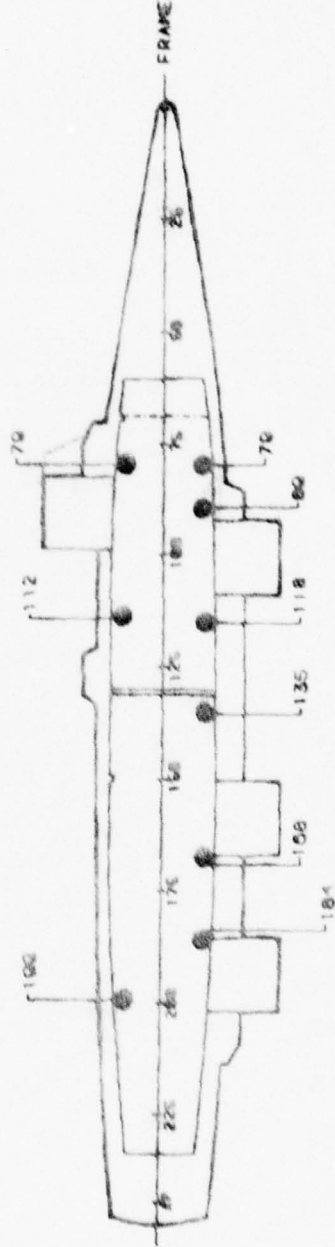
CV-61 USS RANGER



CV-61 RANGER AIRCRAFT INERTIAL ALIGNMENT OUTLET BOX LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
● ALIGNMENT OUTLET BOX (ANALOG/DIGITAL)

CV-61 USS RANGER

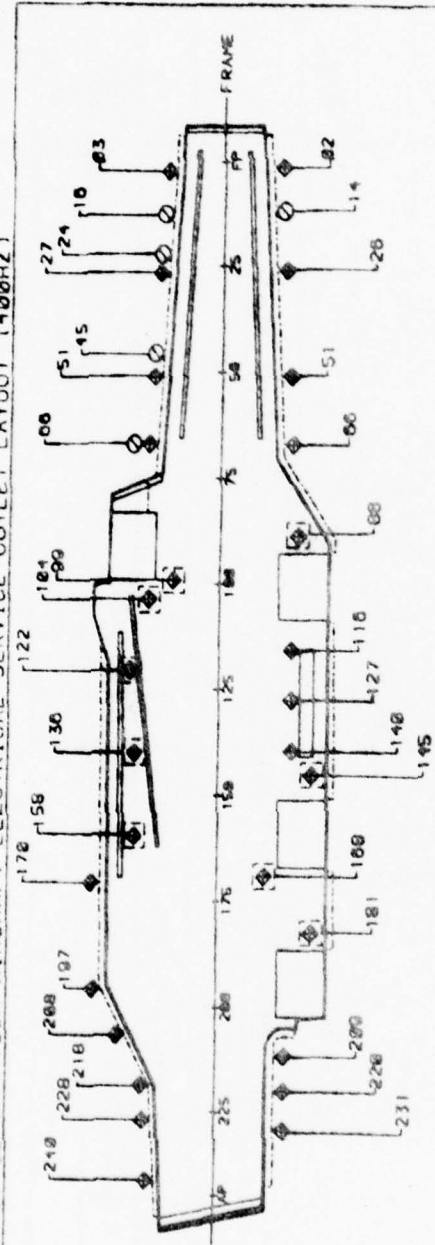
	<u>CATEGORY</u>	<u>PAGE NO.</u>
1	Aircraft Electrical Service Outlet Summary (400 Hz)	1
	Aircraft Electrical Service Outlet Layout (400 Hz)	2
2	Aircraft Electrical and Support Equipment Service Outlet Summary (28.5 VDC, 440 VAC)	3
	Aircraft Electrical and Support Equipment Service Outlet Layout (28.5 VDC, 440 VAC)	4
3	Aviation Fuel Service Summary	5
	Aviation Fuel Service Outlet Layout	6
4	Compressed Air Service Summary	7
	Compressed Air Service Outlet Layout	8
5	Combat Readiness Station Service Summary	9
	Combat Readiness Station Layout	10
6	Oxygen and Nitrogen Service Summary	11
	Oxygen and Nitrogen Service Outlet Layout	12
7	Aircraft Inertial Alignment Outlet Box Summary	13
	Aircraft Inertial Alignment Outlet Box Layout	14
8	Aircraft Cooling and Starting Air Outlet Summary	N/A
	Aircraft Cooling and Starting Air Outlet Layout	N/A

AIRCRAFT ELECTRICAL SERVICE OUTLET SUMMARY

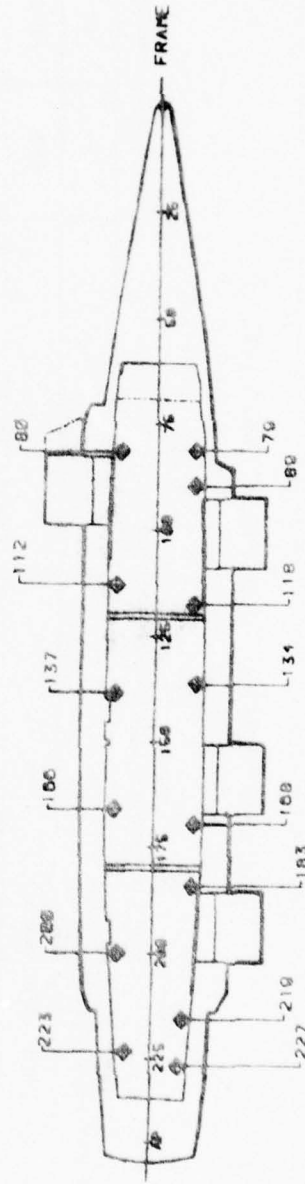
400HZ AIRCRAFT SERVICE

SERVICE OUTLETS	FLT DK	MGR DK
1 400Hz, 3PH, 115/200 VAC, 50KVA, Type I	5	NONE
2 400Hz, 3PH, 115/200 VAC, 50KVA, Type III	NONE	NONE
3 400Hz, 3PH, 115/200 VAC, 50KVA, Type I	NONE	NONE
4 400Hz, 3PH, 115/200 VAC, 50KVA, Type III	28	14

CV-60 SARATOGA AIRCRAFT ELECTRICAL SERVICE OUTLET LAYOUT (400HZ)



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND:  
 ○ 400 HZ, 3PH, 115/200 VAC, 60 KVA TYPE I  
 ◐ 400 HZ, 3PH, 115/200 VAC, 60 KVA TYPE III  
 □ RECESSED

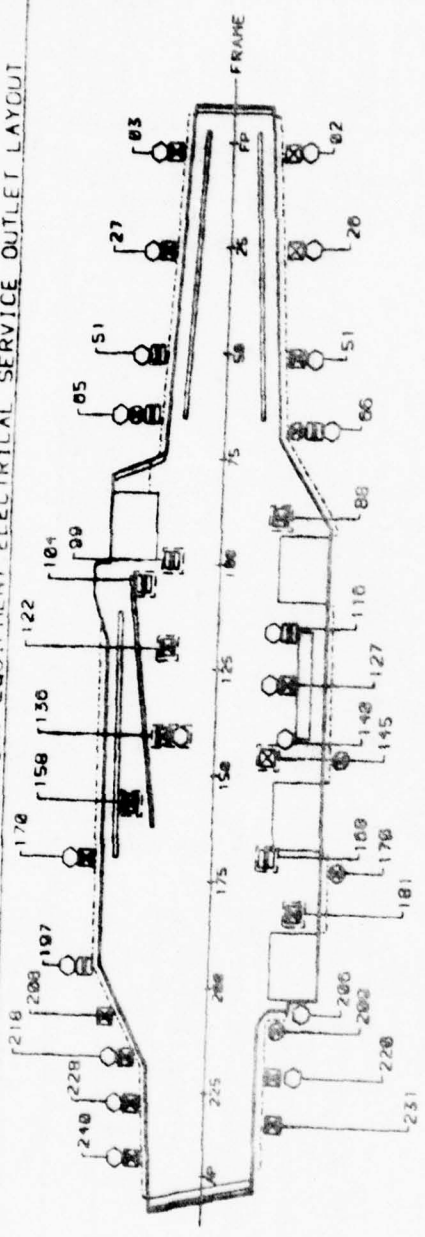
CV-60 USS SARATOGA

A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET SUMMARY

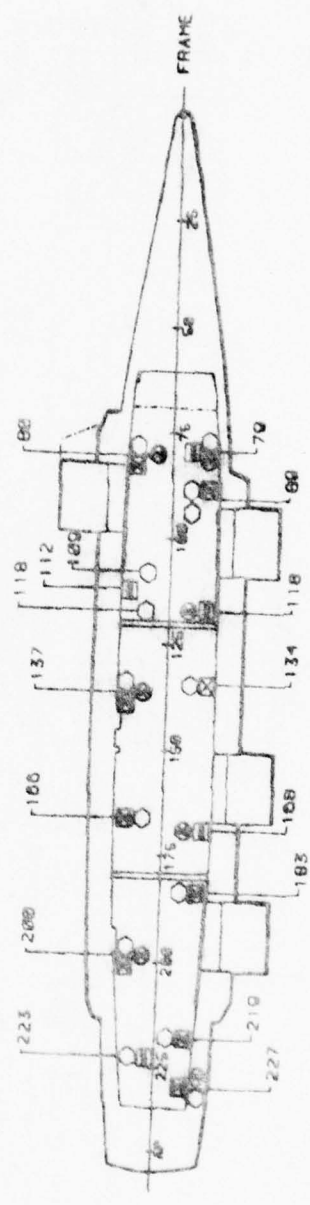
440 VAC SUPPORT EQUIPMENT SERVICE  
28 5 VDC A/C SERVICE AND START

		FLT DK	MGR DK
440 VAC SUPPORT EQUIPMENT SERVICE			
1	440 VAC 60Hz, 3PH, 25 AMP	10	14
2	440 VAC, 60Hz, 3PH, 60 AMP	NONE	NONE
3	440 VAC, 60Hz, 3PH, 100 AMP	4	7
28 5 VDC A/C SERVICE AND START			
1	28 5 VDC, 200 AMP CONTINUOUS	NONE	NONE
2	28 5 VDC, 300 AMP Cont, 650 to 200 A Inter	3	1
3	28 5 VDC, 600 AMP Cont, 600 to 200 A Inter	10	8
4	28 5 VDC, 300 AMP cont., 650 to 1000 A Inter	8	5
5	28 5 VDC, 650 AMP Cont., 650 to 1000 A Inter	NONE	NONE

CV-60 SARATOGA A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

- LEGEND
- 440 VAC 60HZ 3PH 1.25 AMP
  - 440 VAC 60HZ 3PH 1.18 AMP
  - 28 5 VDC .300AMP CONT 650-1000 INTER
  - 28 6 VDC .600AMP CONT 050-000 INTER
  - 28 5 VDC .500AMP CONT 000-000 INTER
  - RECESSED

CV-60 USS SARATOGA

AVIATION FUEL SERVICE

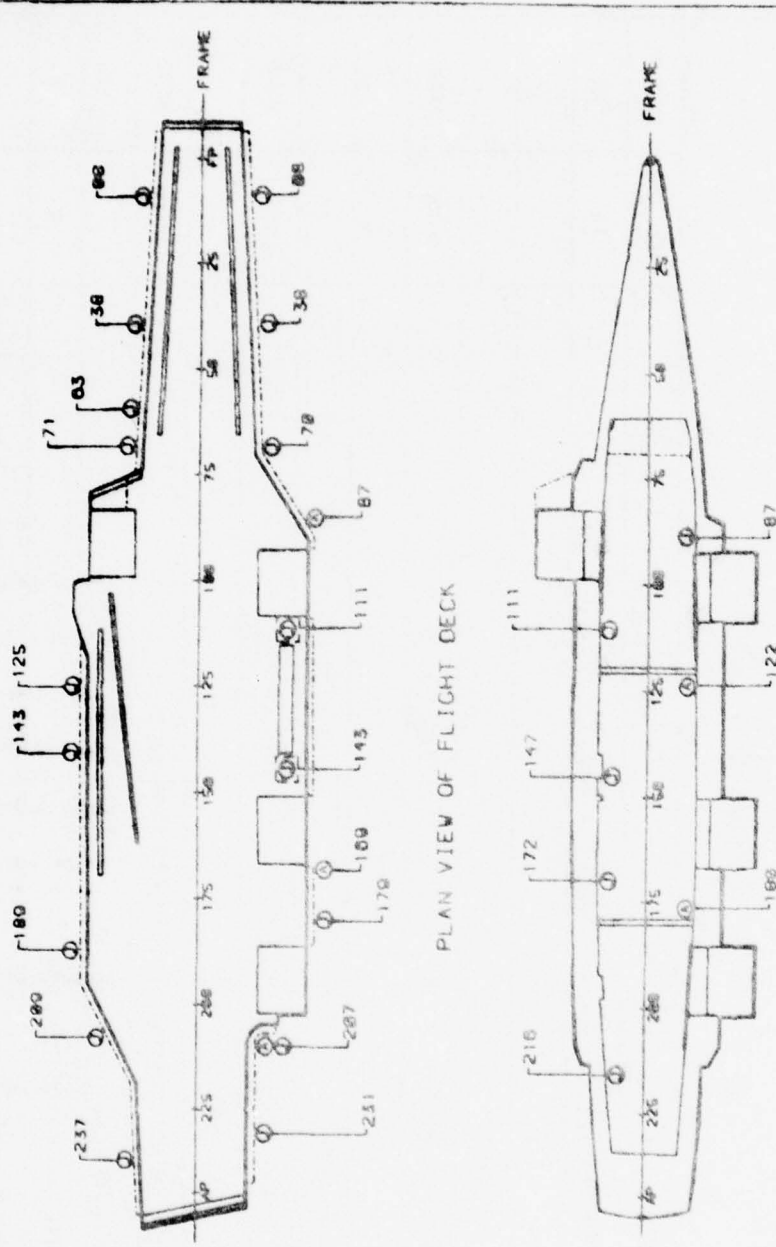
AVIATION GASOLINE AND JP-5

	AV/GAS	JP-5
1. CAPACITY GAL. 052	104,000	1,710,453
2. SERVICE OUTLETS	FLT DK 3 MCR DK 2	FLT DK 17 MCR DK 5
3. HOSES PER OUTLET	NOTE 1	NOTE 1
4. SERVICE OUTLET CAPACITY, GPM/PSI	NOTE 2	NOTE 2
a. TWO OUTLETS OPERATING	200/40	200/40
b. FOUR OUTLETS OPERATING	200/40	200/40
c. SIX OUTLETS OPERATING	200/40	200/40
5. DEFUELING CAPACITY PER SERVICE OUTLET GPM	100	100
6. DEFUELING CAPACITY PER PORTABLE PUMP GPM	25	25

NOTES

1. FLT DK JP-5 Outlets at fr 71 and 85 are 2 (two) hose outlets
2. 1-1/2" Hose AV/GAS, 2-1/2" Hose JP-5

CV-60 SARATOGA AVIATION FUEL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK

PLAN VIEW OF HANGAR DECK

LEGEND  
○ AVIATION FUEL SERVICE OUTLET  
○ JP-5  
□ RECESSED

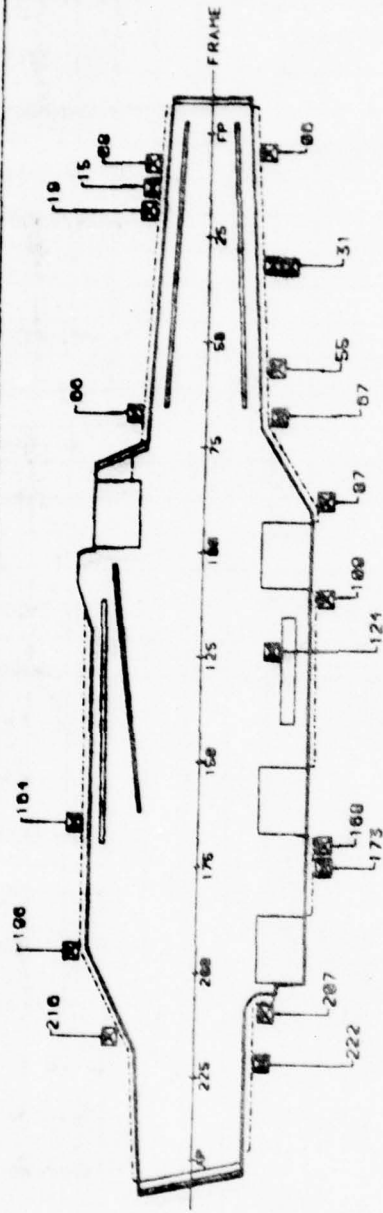
CV-60 USS SARATOGA

COMPRESSED AIR SERVICE SUMMARY

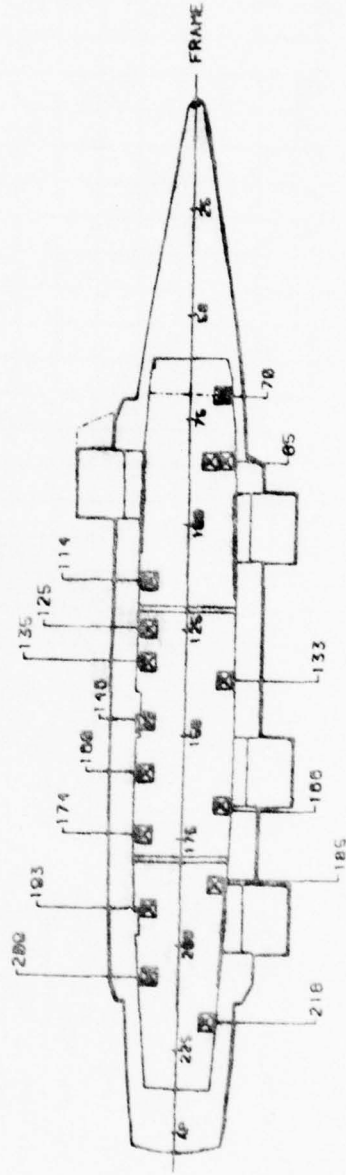
COMPRESSED AIR

LOW PRESSURE	FLT DK	HGR DK
1 SERVICE OUTLETS @	10	12
REDUCED PRESSURE		
1 SERVICE OUTLETS @	NONE	NONE
MEDIUM PRESSURE		
1 SERVICE OUTLETS @ 1800 PSI	NONE	NONE
MEDIUM TO HIGH PRESSURE		
1 SERVICE OUTLETS @ 1800 TO 3000 PSI (VARIABLE)	NONE	NONE
HIGH PRESSURE		
1 SERVICE OUTLETS @ 3000 PSI	0	3
TYPE CHANGING AIR		
1 SERVICE OUTLETS @	NONE	NONE

CV-60 SARATOGA COMPRESSED AIR SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



LEGEND

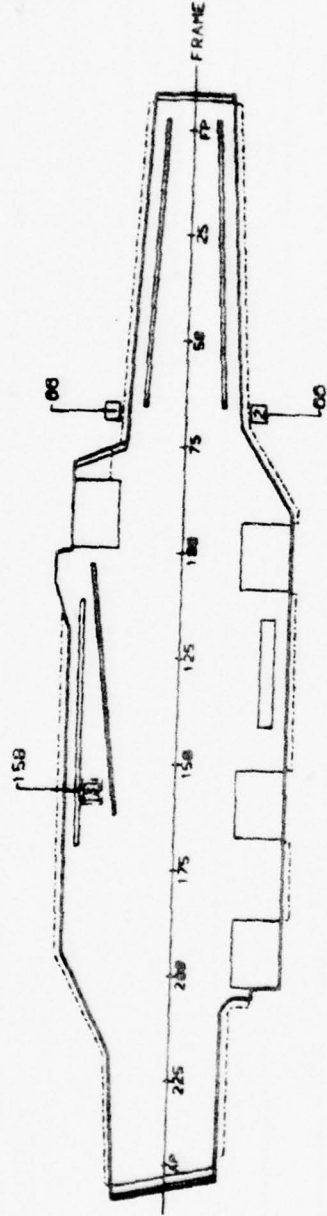
- LOW PRESSURE AIR, 100 PSI
- HIGH PRESSURE AIR, 3000 PSI

PLAN VIEW OF HANGAR DECK

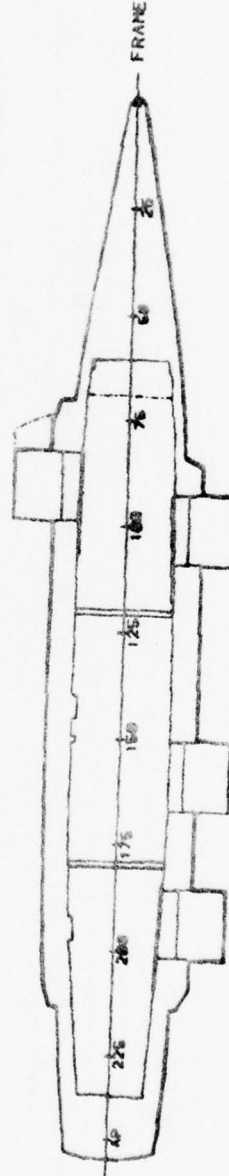
CV-60 USS SARATOGA



CV-60 SARATOGA COMBAT READINESS STATION LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
□ COMBAT READINESS STATION  
L RECESSED

CV-60 USS SARATOGA

OXYGEN AND NITROGEN SERVICE SUMMARY

OXYGEN

1 STORAGE CAPACITY, LIQUID GALS 1100

2 GENERATING CAPACITY GPH 200

3 SERVICE OUTLETS, LIQUID FLT DK NONE HGR DK 1

4 SERVICE OUTLETS, GASEOUS FLT DK NONE HGR DK 1"

NITROGEN (OIL FREE)

1 STORAGE CAPACITY at 5000 PSI 60 cu ft 1500 GAL LIQUID

2 SERVICE OUTLETS FLT DK 2" 1" HGR DK 4" 1"

NITROGEN

1 STORAGE CAPACITY at 3000 PSI 300 cu ft

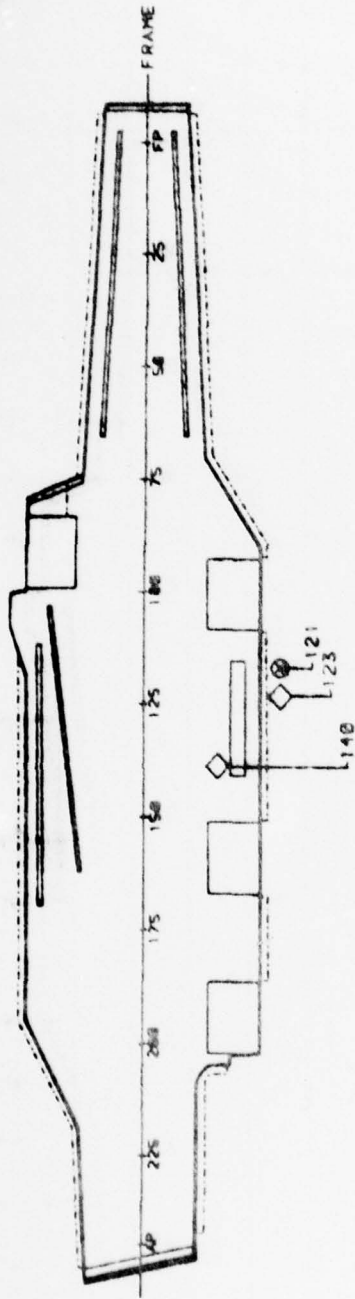
2 SERVICE OUTLETS FLT DK NONE HGR DK NONE

NOTES PRESSURES (PSI)

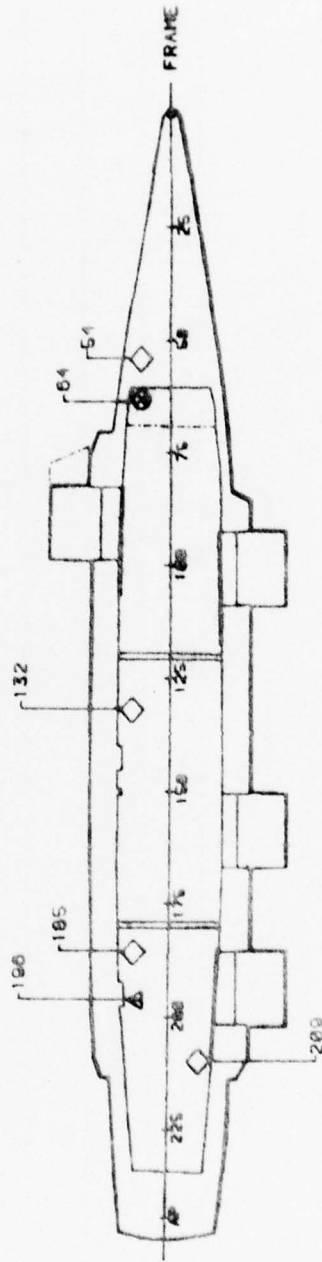
a 1000 c 2000 e 2000 - 3000 g 3000 i 5000

b 1000 d 2000 f 3000 h 500

CV-60 SARATOGA OXYGEN AND NITROGEN SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



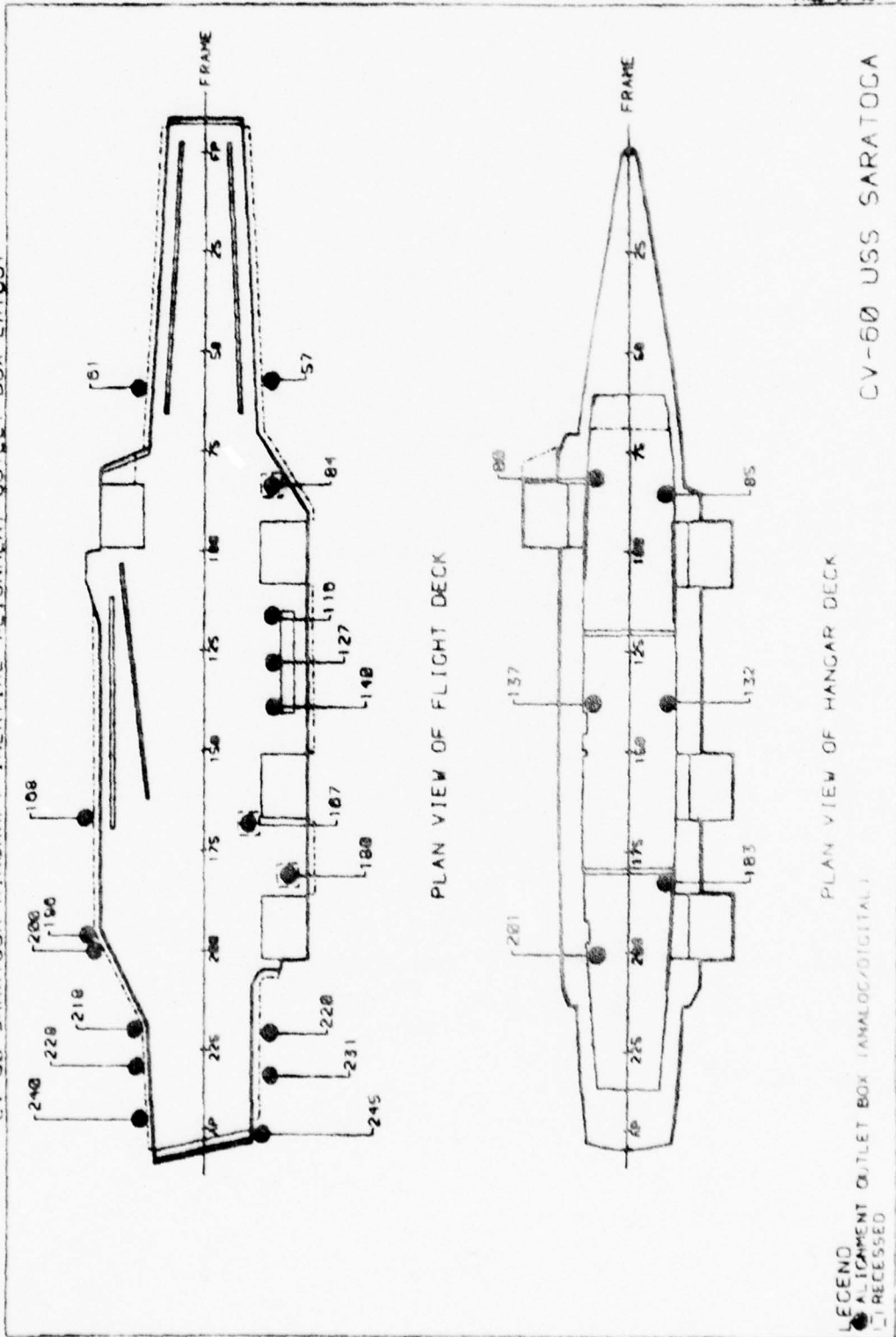
PLAN VIEW OF HANGAR DECK

- LEGEND
- ▲ CASEOUS OXYGEN 2000 PSI
  - ▲ LIQUID OXYGEN
  - ◇ CASEOUS NITROGEN 3500 PSI
  - ⊙ CASEOUS NITROGEN TIRE CHARGING 500 PSI

CV-60 USS SARATOGA



CV-60 SARATOGA AIRCRAFT INERTIAL ALIGNMENT OUTLET BOX LAYOUT



CV-60 USS SARATOGA

LEGEND  
● ALIGNMENT OUTLET BOX (ANALOG/DIGITAL)  
- RECESSED

PAGE NO.

CATEGORY

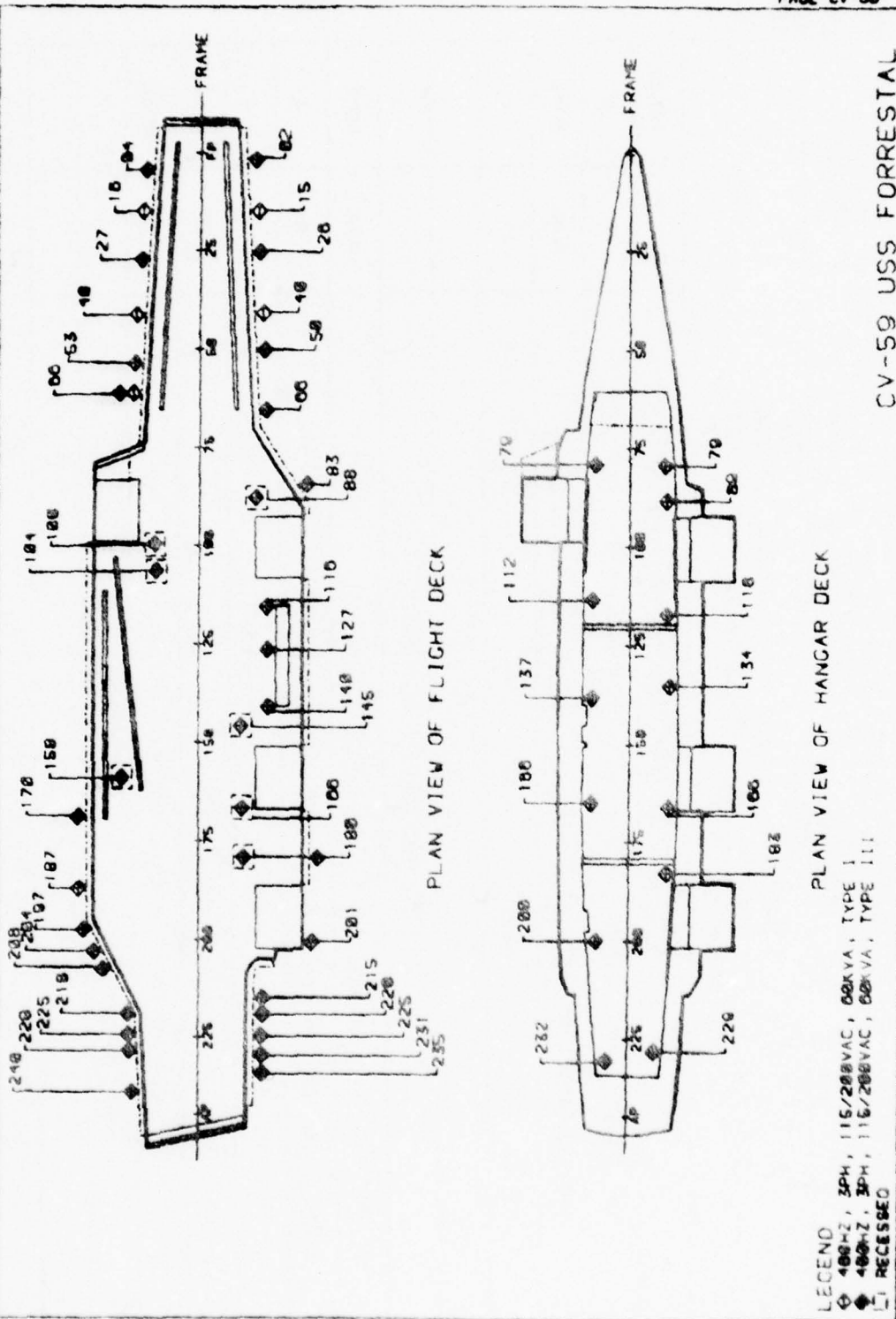
1	Aircraft Electrical Service Outlet Summary (400 Hz)	1
	Aircraft Electrical Service Outlet Layout (400 Hz)	2
2	Aircraft Electrical and Support Equipment Service Outlet Summary (28.5 VDC, 440 VAC)	3
	Aircraft Electrical and Support Equipment Service Outlet Layout (28.5 VDC, 440 VAC)	4
3	Aviation Fuel Service Summary	5
	Aviation Fuel Service Outlet Layout	6
4	Compressed Air Service Summary	7
	Compressed Air Service Outlet Layout	8
5	Combat Readiness Station Service Summary	N/A
	Combat Readiness Station Layout	N/A
6	Oxygen and Nitrogen Service Summary	11
	Oxygen and Nitrogen Service Outlet Layout	12
7	Aircraft Inertial Alignment Outlet Box Summary	13
	Aircraft Inertial Alignment Outlet Box Layout	14
8	Aircraft Cooling and Starting Air Outlet Summary	N/A
	Aircraft Cooling and Starting Air Outlet Layout	N/A

LATEST CHECK - AUGUST 1977

USS FORRESTAL



CV-59 FORRESTAL AIRCRAFT ELECTRICAL SERVICE OUTLET LAYOUT (400HZ)



PLAN VIEW OF FLIGHT DECK

PLAN VIEW OF HANGAR DECK

LEGEND  
 ◆ 400HZ, 3PH; 115/200VAC, 60KVA, TYPE I  
 ● 400HZ, 3PH; 115/200VAC, 60KVA, TYPE III  
 ◻ RECESSED

CV-59 USS FORRESTAL

A/C START AND SUPPORT EQUIPMENT  
ELECTRICAL SERVICE OUTLET SUMMARY

440 VAC SUPPORT EQUIPMENT SERVICE  
28 5 VDC A/C SERVICE AND START

440 VAC SUPPORT EQUIPMENT SERVICE

- 1 440 VAC 60HZ, 3PH, 25 AMP
- 2 440 VAC, 60HZ, 3PH, 60 AMP
- 3 440 VAC, 60HZ, 3PH, 100 AMP

28 5 VDC A/C SERVICE AND START

- 1 28 5 VDC, 200 AMP Continuous
- 2 28 5 VDC, 500 AMP Cont, 600 to 800 A Inter
- 3 28 5 VDC, 600 AMP Cont, 600 to 800 A Inter
- 4 28 5 VDC, 300 AMP cont, 650 to 1000 A Inter
- 5 28 5 VDC, 650 AMP Cont, 650 to 1000 A Inter

	FLT DK	HCR DK
	17	15
	NONE	NONE
	17	14
	NONE	NONE
	0	5
	1	1
	NONE	NONE
	2	NONE



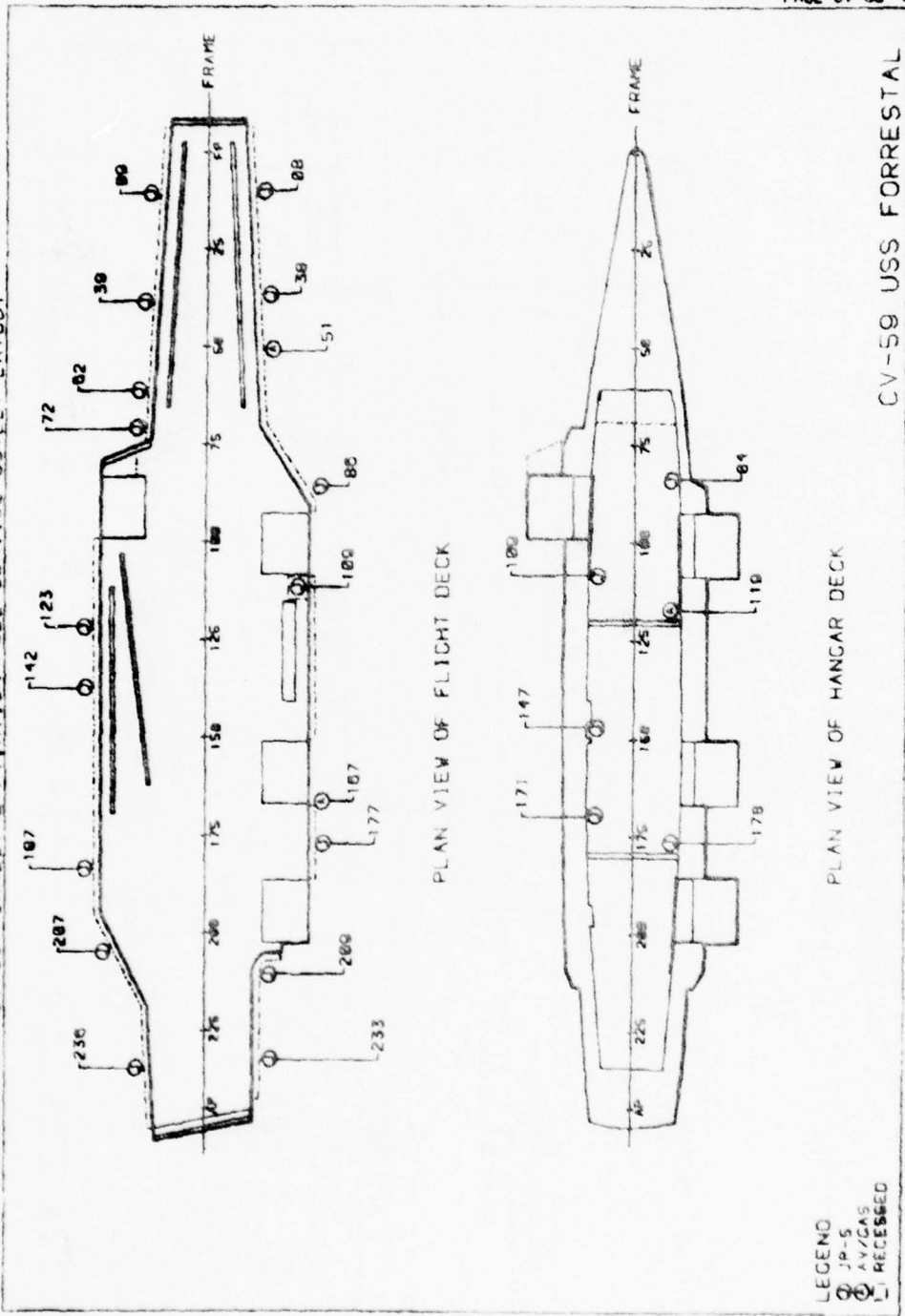
AVIATION FUEL SERVICE

AVIATION GASOLINE AND JP-5

	AV/GAS	JP-5
1 CAPACITY GAL GSX	100,000	1,338,000
2 SERVICE OUTLETS	FLT DK 2 HCR DK 1	FLT DK 10 HCR DK 5
3 HOSES PER OUTLET	NOTE 1 FLT DK 4 HCR DK 2	FLT DK 4 HCR DK 2
4 SERVICE OUTLET CAPACITY, GPH/PSI	100/45	200/45
a TWO OUTLETS OPERATING	100/45	200/45
b FOUR OUTLETS OPERATING	100/45	200/45
c SIX OUTLETS OPERATING	100/45	200/45
5 DEFUELING CAPACITY PER SERVICE OUTLET GPM	N/A	N/A
6 DEFUELING CAPACITY PER PORTABLE PUMP GPM	50	50

NOTES  
 1 JP-5 STATIONS FLT DK FR 52 AND 72 PORT ARE 2 HOSE STATIONS  
 2 1-1/2" HOSE AV/GAS, 2-1/2" HOSE JP-5

CV-59 FORRESTAL AVIATION FUEL SERVICE OUTLET LAYOUT



CV-59 USS FORRESTAL

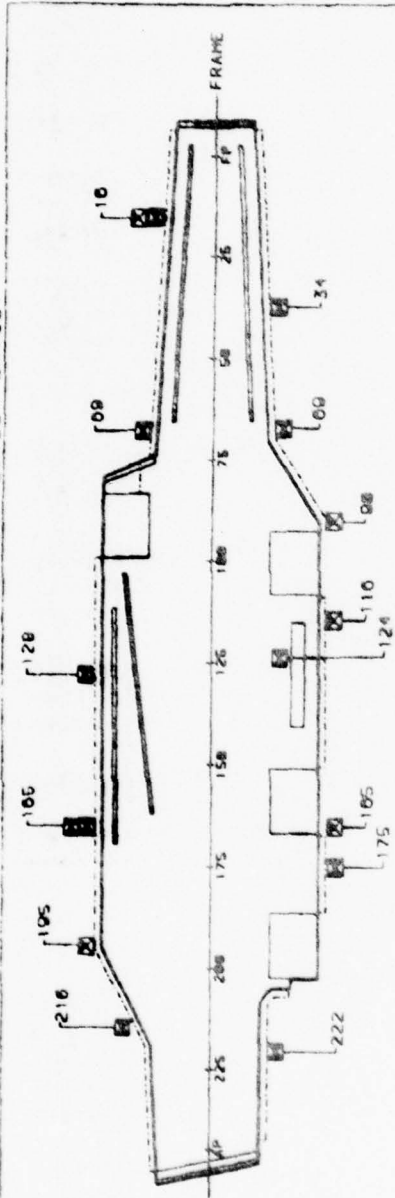
LEGEND  
 ○ JP-5  
 ○ AV/GAS  
 □ RECESSED

COMPRESSED AIR SERVICE SUMMARY

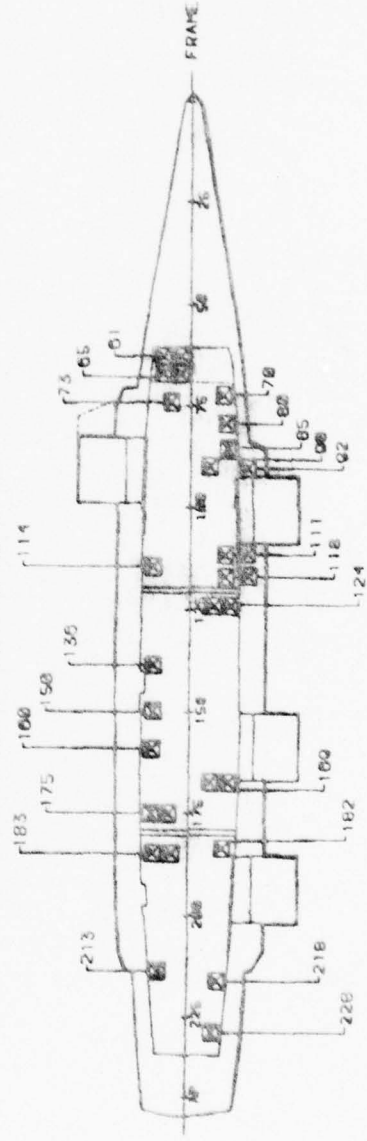
COMPRESSED AIR

LOW PRESSURE	FLT DK	HGR DK
1 SERVICE OUTLETS @ 100-150 PSI	4	25
REDUCED PRESSURE		
1 SERVICE OUTLETS @	NONE	NONE
MEDIUM PRESSURE		
1 SERVICE OUTLETS @ 1000 PSI	NONE	NONE
MEDIUM TO HIGH PRESSURE		
1 SERVICE OUTLETS @ 1000 TO 3000 PSI (VARIABLE)	NONE	NONE
HIGH PRESSURE		
1 SERVICE OUTLETS @ 3000 PSI	11	5
TIRE CHANGING AIR		
1 SERVICE OUTLETS @	NONE	NONE

CV-59 FORRESTAL COMPRESSED AIR SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



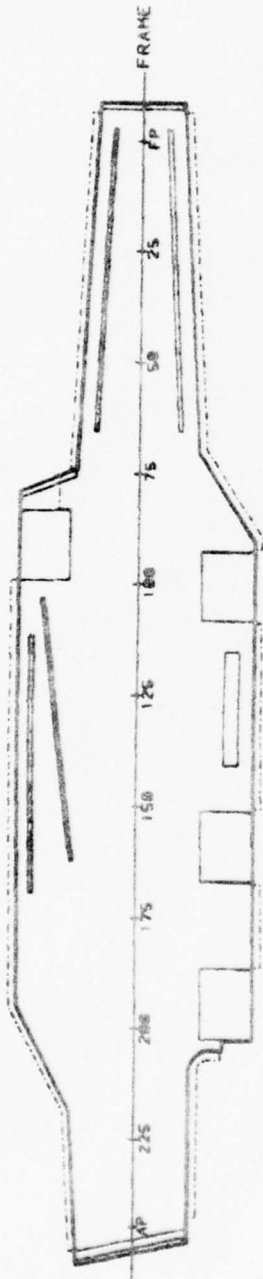
PLAN VIEW OF HANGAR DECK

LEGEND  
 LOW PRESSURE AIR, 100-150 PSI  
 HIGH PRESSURE AIR, 5000 PSI

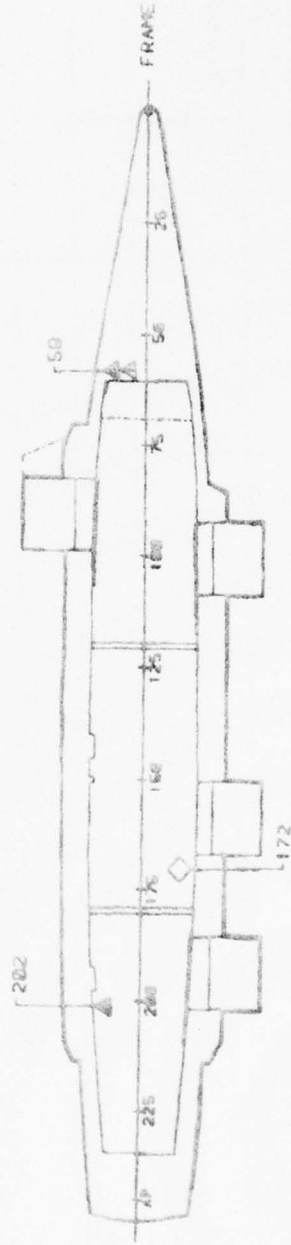
OXYGEN AND NITROGEN SERVICE SUMMARY

OXYGEN			
1	STORAGE CAPACITY, LIQUID GALS	1500 GAL	
2	GENERATING CAPACITY GPH	15-18	
3	SERVICE OUTLETS, LIQUID	FLT DK NONE	HGR DK 1
4	SERVICE OUTLETS, GASEOUS	FLT DK NONE	HGR DK 2 <sup>d</sup>
NITROGEN (OIL FREE)			
1	STORAGE CAPACITY @ 5000 PSI	50 CU FT	
2	SERVICE OUTLETS	FLT DK NONE	HGR DK NONE
NITROGEN			
1	STORAGE CAPACITY @ 3000 PSI	120 CU FT	
2	SERVICE OUTLETS	FLT DK NONE	HGR DK 1 <sup>g</sup>
NOTES PRESSURES (PSI)			
e	1800	c 2000	e 2000 - 3000
f	3500	g 5000	h 5000

CV-59 FORRESTAL OXYGEN AND NITROGEN SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



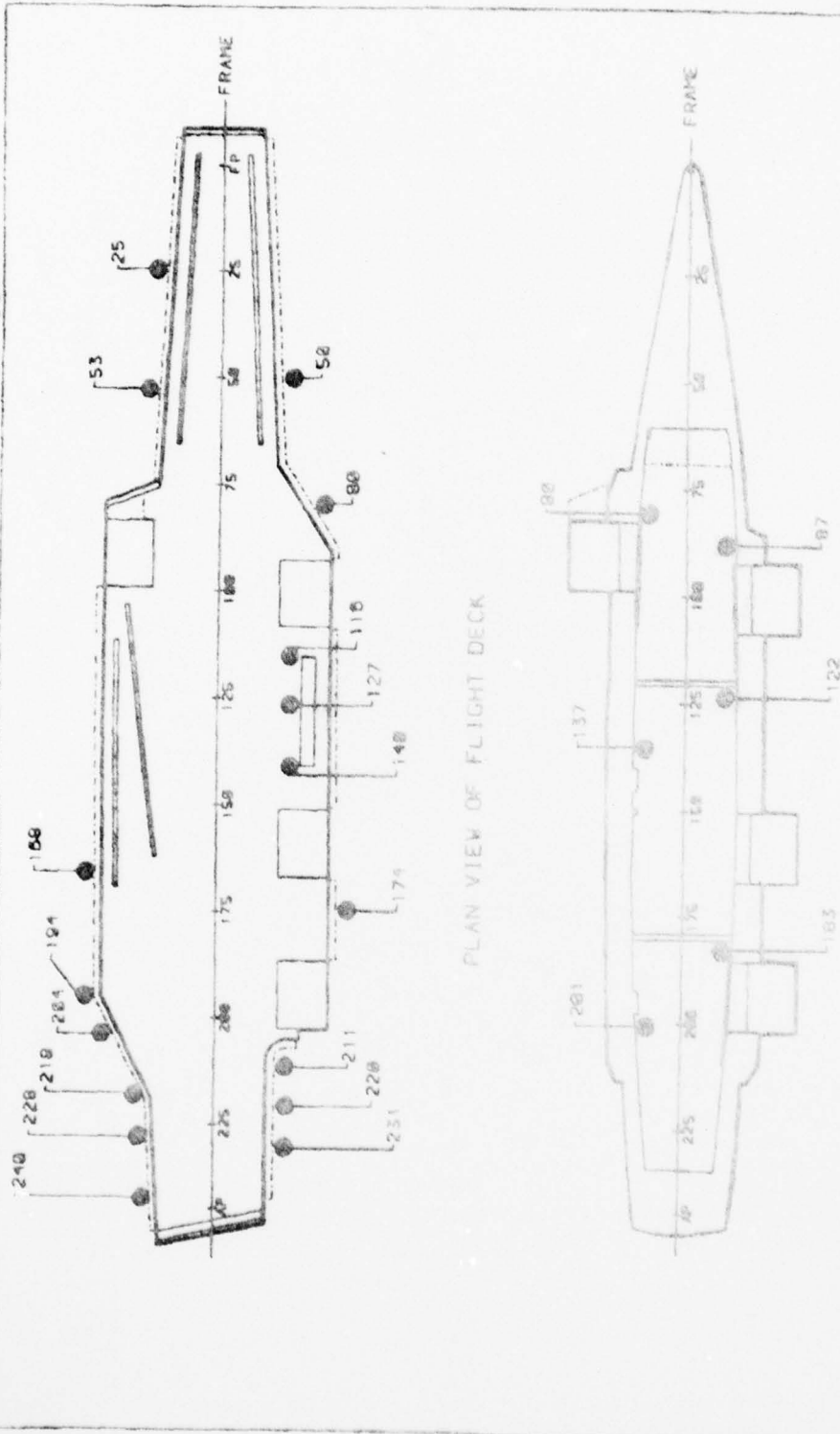
PLAN VIEW OF HANGAR DECK

- LEGEND
- ▲ GASEOUS OXYGEN 2000 PSI
  - ▲ LIQUID OXYGEN
  - ◇ GASEOUS NITROGEN 3500 PSI

CV-59 USS FORRESTAL



CV-59 FORRESTAL AIRCRAFT INERTIAL ALIGNMENT OUTLET BOX LAYOUT



PLAN VIEW OF FLIGHT DECK

PLAN VIEW OF HANGAR DECK

LEGEND

● ALIGNMENT OUTLET BOX - ANALOG/DIGITAL

CV-59 USS FORRESTAL

CATEGORY	PAGE NO.
1 Aircraft Electrical Service Outlet Summary (400 Hz) Aircraft Electrical Service Outlet Layout (400 Hz)	1 2
2 Aircraft Electrical and Support Equipment Service Outlet Summary (28.5 VDC, 440 VAC)	3
Aircraft Electrical and Support Equipment Service Outlet Layout (28.5 VDC, 440 VAC)	4
3 Aviation Fuel Service Summary Aviation Fuel Service Outlet Layout	5 6
4 Compressed Air Service Summary Compressed Air Service Outlet Layout	7 8
5 Combat Readiness Station Service Summary Combat Readiness Station Layout	N/A N/A
6 Oxygen and Nitrogen Service Summary Oxygen and Nitrogen Service Outlet Layout	11 12
7 Aircraft Inertial Alignment Outlet Box Summary Aircraft Inertial Alignment Outlet Box Layout	13 14
8 Aircraft Cooling and Starting Air Outlet Summary Aircraft Cooling and Starting Air Outlet Layout	N/A N/A

AIRCRAFT ELECTRICAL SERVICE OUTLET SUMMARY

400HZ AIRCRAFT SERVICE

SERVICE OUTLETS

- 1 400Hz, 3PH, 115/200 VAC, 38KVA, Type I
- 2 400Hz, 3PH, 115/200 VAC, 38KVA, Type III
- 3 400Hz, 3PH, 115/200 VAC, 38KVA, Type I
- 4 400Hz, 3PH, 115/200 VAC, 38KVA, Type III

FLT DK

NONE

NONE

NONE

27

HCR DK

NONE

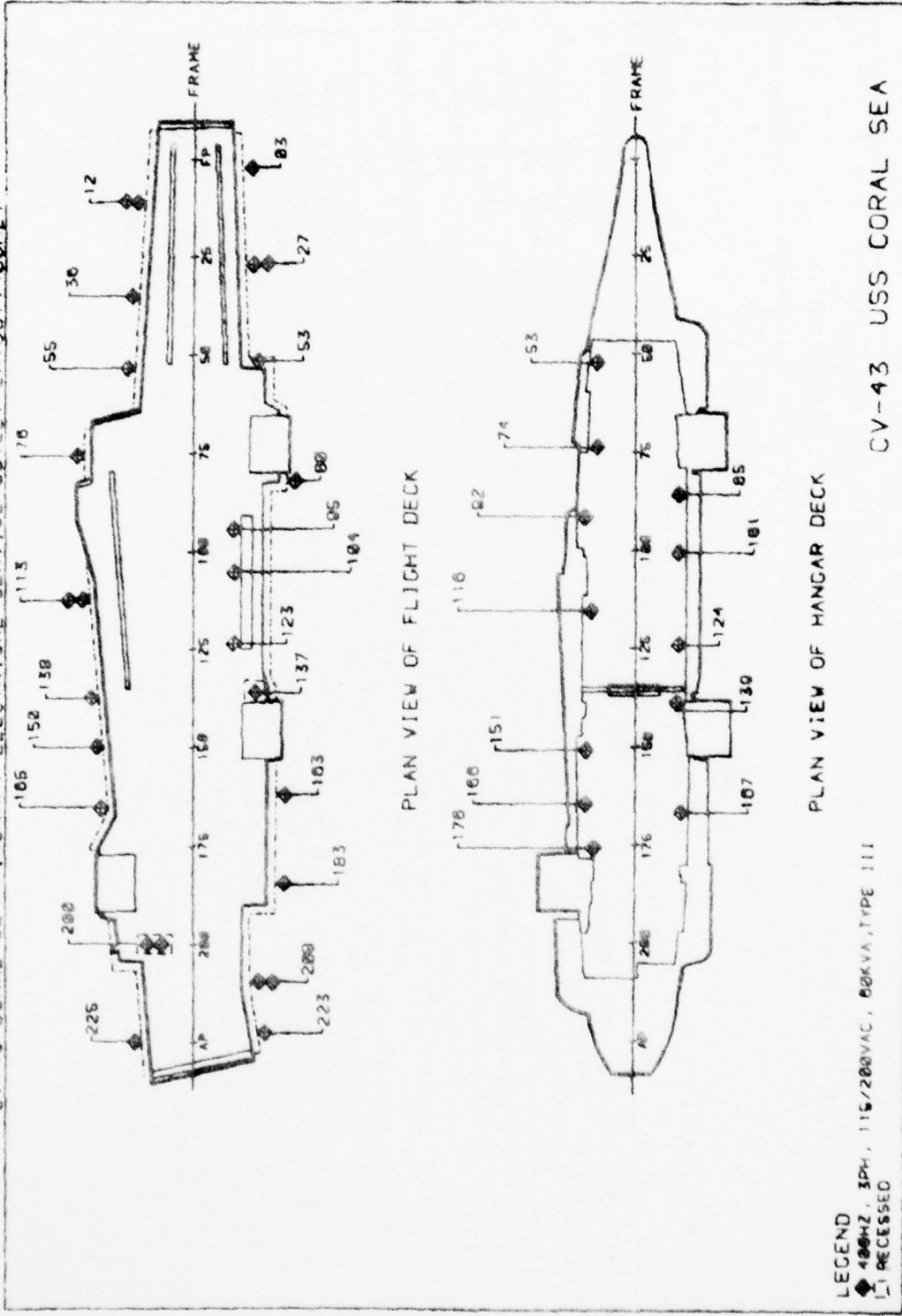
NONE

NONE

12



CV-43 CORAL SEA AIRCRAFT ELECTRICAL SERVICE OUTLET LAYOUT (400HZ)



PLAN VIEW OF FLIGHT DECK

PLAN VIEW OF HANGAR DECK

LEGEND  
 ◆ 400HZ, 3PH, 115/200VAC, 60KVA, TYPE 111  
 □ RECESSED

CV-43 USS CORAL SEA

A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET SUMMARY		FLT DK	MCR DK
440 VAC SUPPORT EQUIPMENT SERVICE 28 5 VDC A/C SERVICE AND START			
440 VAC SUPPORT EQUIPMENT SERVICE			
1	440 VAC 60Hz, 3PH, 25 AMP	0	7
2	440 VAC, 60Hz, 3PH, 60 AMP	NONE	NONE
3	440 VAC, 60Hz, 3PH, 100 AMP	0	13
28 5 VDC A/C SERVICE AND START			
1	28 5 VDC, 200 AMP Continuous	NONE	NONE
2	28 5 VDC, 300 AMP Cont, 500 to 900 A Inter	NONE	NONE
3	28 5 VDC, 600 AMP Cont, 600 to 900 A Inter	NONE	NONE
4	28 5 VDC, 300 AMP cont, 650 to 1000 A Inter	28	13
5	28 5 VDC, 650 AMP Cont, 650 to 1000 A Inter	NONE	NONE

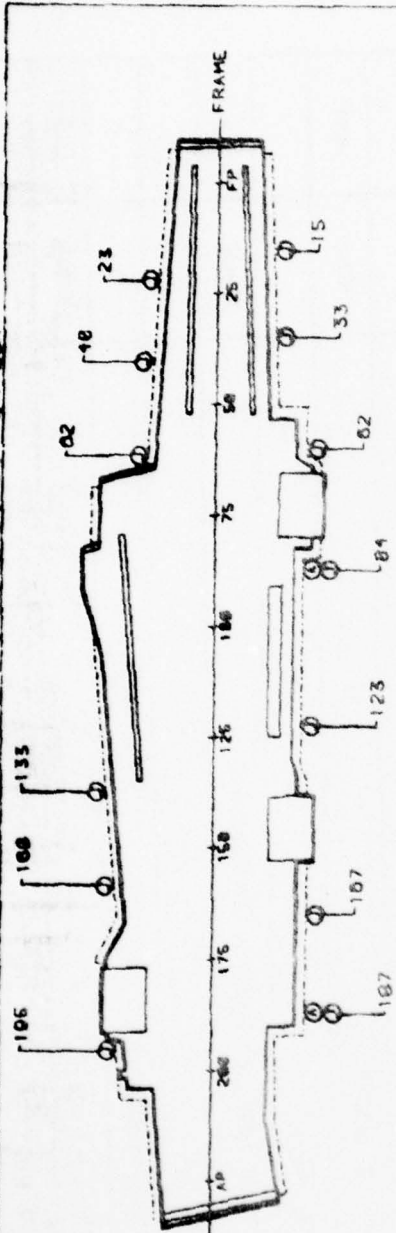


AVIATION FUEL SERVICE

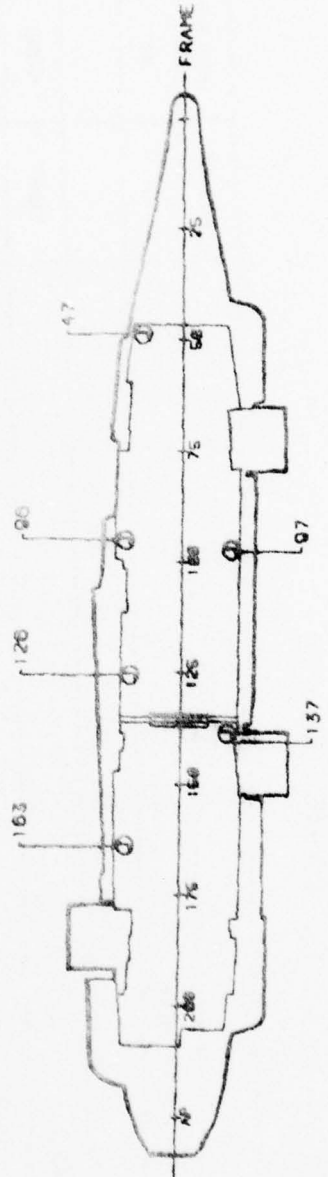
AVIATION GASOLINE AND JP-5

	AV/GAS	JP-5
1 CAPACITY GAL 95X	30,900	1,112,178
2 SERVICE OUTLETS	FLT DK 2 HGR DK 0	FLT DK 13 HGR DK 0
3 HOSES PER OUTLET	2	2
4 SERVICE OUTLET CAPACITY, GPM/PSI	100/40	200/40
a TWO OUTLETS OPERATING	100/40	200/40
b FOUR OUTLETS OPERATING	100/40	200/40
c SIX OUTLETS OPERATING	100/40	200/40
5 DEFUELING CAPACITY PER SERVICE OUTLET GPM	100	100
6 DEFUELING CAPACITY PER PORTABLE PUMP GPM	25	25
<p>NOTES</p> <p>1 1-1/2" HOSE AV/GAS, 2-1/2" HOSE JP-5</p>		

CV-43 CORAL SEA AVIATION FUEL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
○ AV/GAS  
● JP-5

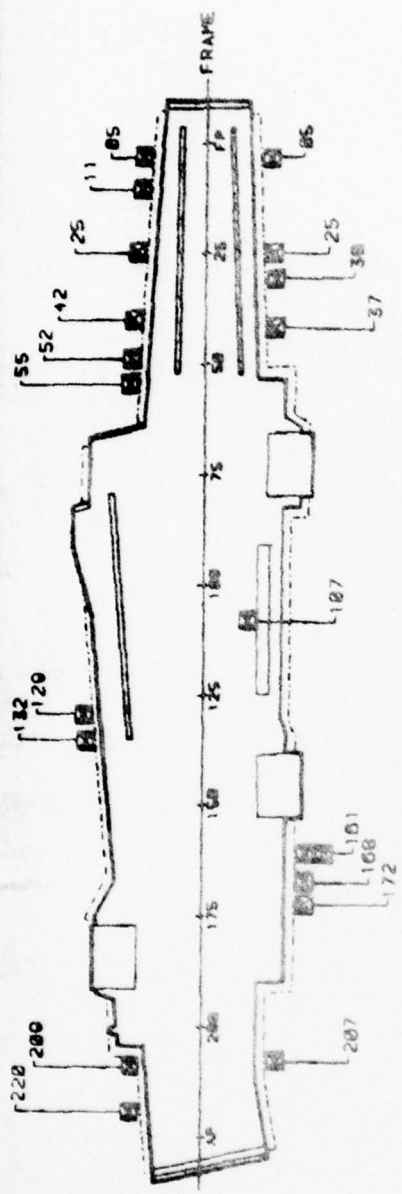
CV-43 USS CORAL SEA

COMPRESSED AIR SERVICE SUMMARY

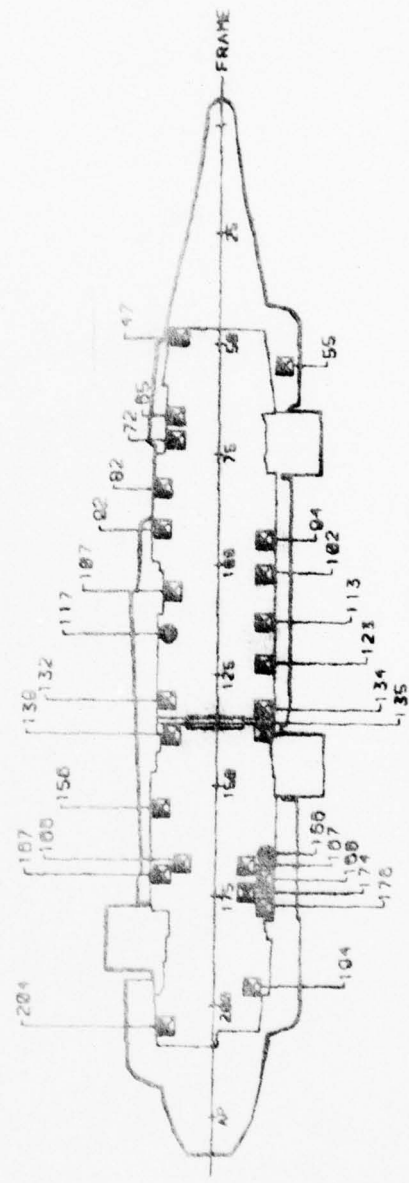
COMPRESSED AIR

LOW PRESSURE	FLT DK	HGR DK
1 SERVICE OUTLETS @ 150 PSI	5	22
REDUCED PRESSURE	NONE	NONE
1 SERVICE OUTLETS @		
MEDIUM PRESSURE		
1 SERVICE OUTLETS @ 1800 PSI	NONE	NONE
MEDIUM TO HIGH PRESSURE		
1 SERVICE OUTLETS @ 1800 TO 3000 PSI (VARIABLE)	NONE	2
HIGH PRESSURE		
1 SERVICE OUTLETS @ 3000 PSI	15	2
TIRE CHANGING AIR	NONE	NONE
1 SERVICE OUTLETS @		

CV-43 CORAL SEA COMPRESSED AIR SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



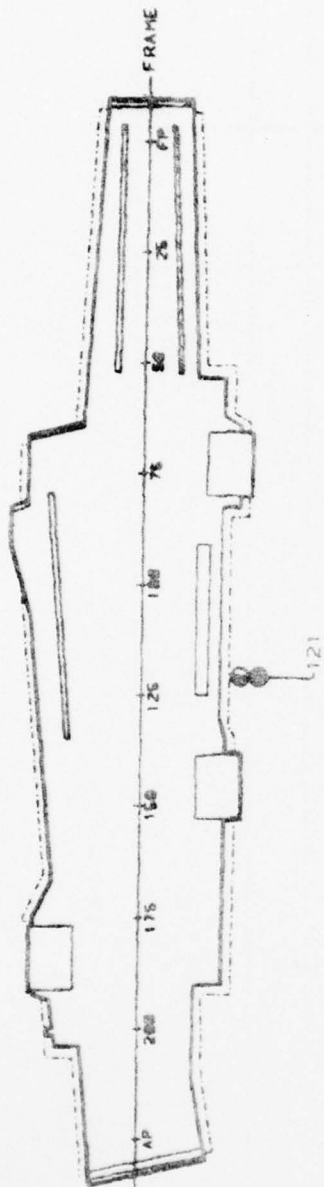
PLAN VIEW OF HANGAR DECK

LEGEND  
 [Symbol] LOW PRESSURE AIR 150 PSI  
 [Symbol] HIGH PRESSURE AIR 3000 PSI  
 [Symbol] MEDIUM PRESSURE AIR 1800-2000 PSI

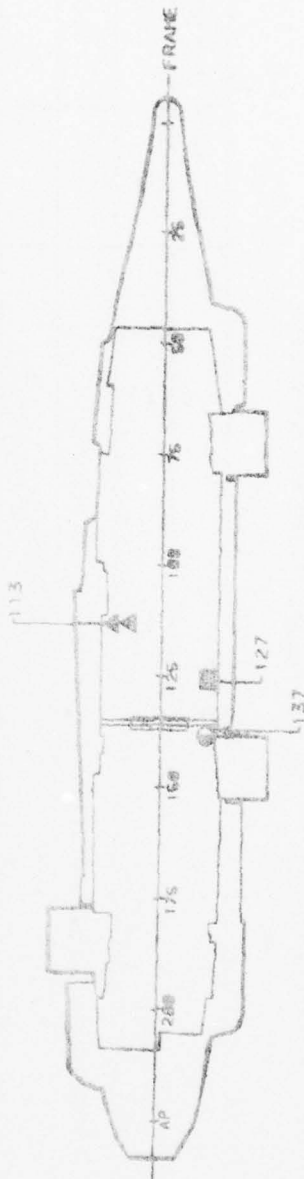
CV-43 USS CORAL SEA

OXYGEN AND NITROGEN SERVICE SUMMARY			
<b>OXYGEN</b>			
1 STORAGE CAPACITY, LIQUID GALS	1200		
2 GENERATING CAPACITY GPH	100		
3 SERVICE OUTLETS, LIQUID	FLT DK NONE	HCR DK 1	
4 SERVICE OUTLETS, GASEOUS	FLT DK NONE	HCR DK 1 <sup>d</sup>	
<b>NITROGEN (OIL FREE)</b>			
1 STORAGE CAPACITY @ 5000 PSI	60 CU. FT		
2 SERVICE OUTLETS	FLT DK 1 <sup>f,1</sup> <sup>e</sup>	HCR DK 1 <sup>f</sup>	
<b>NITROGEN</b>			
1 STORAGE CAPACITY @ 3000 PSI	120 CU. FT		
2 SERVICE OUTLETS	FLT DK NONE	HCR DK 1 <sup>f</sup>	
<b>NOTES PRESSURES (PSI)</b>			
a 1000	c 2000	e 2000 - 3000	g 3000 i 5000
b 1000	d 2000	f 3000	h 500

CV-43 CORAL SEA OXYGEN AND NITROGEN SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

- LEGEND
- ▲ GASEOUS OXYGEN, 2000 PSI
  - LIQUID OXYGEN
  - GASEOUS NITROGEN, 2000-3200 PSI
  - GASEOUS NITROGEN, 1000 PSI
  - GASEOUS NITROGEN, 5000 PSI

CV-43 USS CORAL SEA



AD-A076 443

NAVAL AIR ENGINEERING CENTER LAKEHURST NJ ENGINEERING--ETC F/G 1/3  
COMPILATION OF DATA COVERING AIRCRAFT SERVICING FACILITIES ABOA--ETC(U)  
OCT 79 M A STRANO

UNCLASSIFIED NAEC-ENG-6703-REV-15

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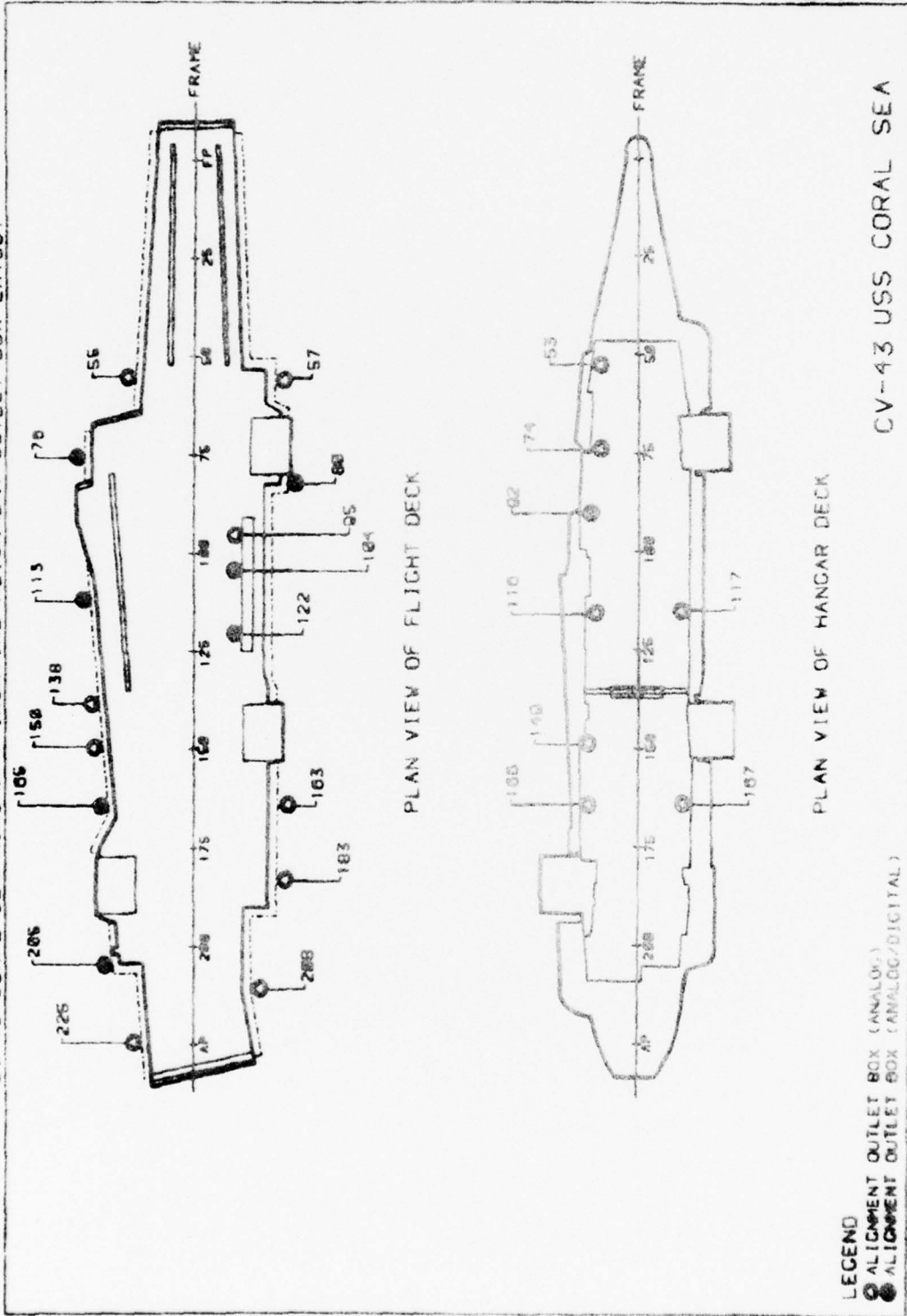
3 OF 3

AD  
A076443



END  
DATE  
FILMED  
12-79  
DDC

CV-43 CORAL SEA AIRCRAFT INERTIAL ALIGNMENT OUTLET BOX LAYOUT



LEGEND

- ALIGNMENT OUTLET BOX (ANALOG)
- ALIGNMENT OUTLET BOX (ANALOG/DIGITAL)

CV-43 USS CORAL SEA

CATEGORY PAGE NO.

1	Aircraft Electrical Service Outlet Summary (400 Hz) Aircraft Electrical Service Outlet Layout (400 Hz)	1 2
2	Aircraft Electrical and Support Equipment Service Outlet Summary (28.5 VDC, 440 VAC)	3
3	Aircraft Electrical and Support Equipment Service Outlet Layout (28.5 VDC, 440 VAC)	4
4	Aviation Fuel Service Summary Aviation Fuel Service Outlet Layout	5 6
5	Compressed Air Service Summary Compressed Air Service Outlet Layout	7 8
6	Combat Readiness Station Service Summary Combat Readiness Station Layout	N/A N/A
7	Oxygen and Nitrogen Service Summary Oxygen and Nitrogen Service Outlet Layout	11 12
8	Aircraft Inertial Alignment Outlet Box Summary Aircraft Inertial Alignment Outlet Box Layout	13 14
	Aircraft Cooling and Starting Air Outlet Summary Aircraft Cooling and Starting Air Outlet Layout	N/A N/A

LATEST CHECK - AUGUST 1973

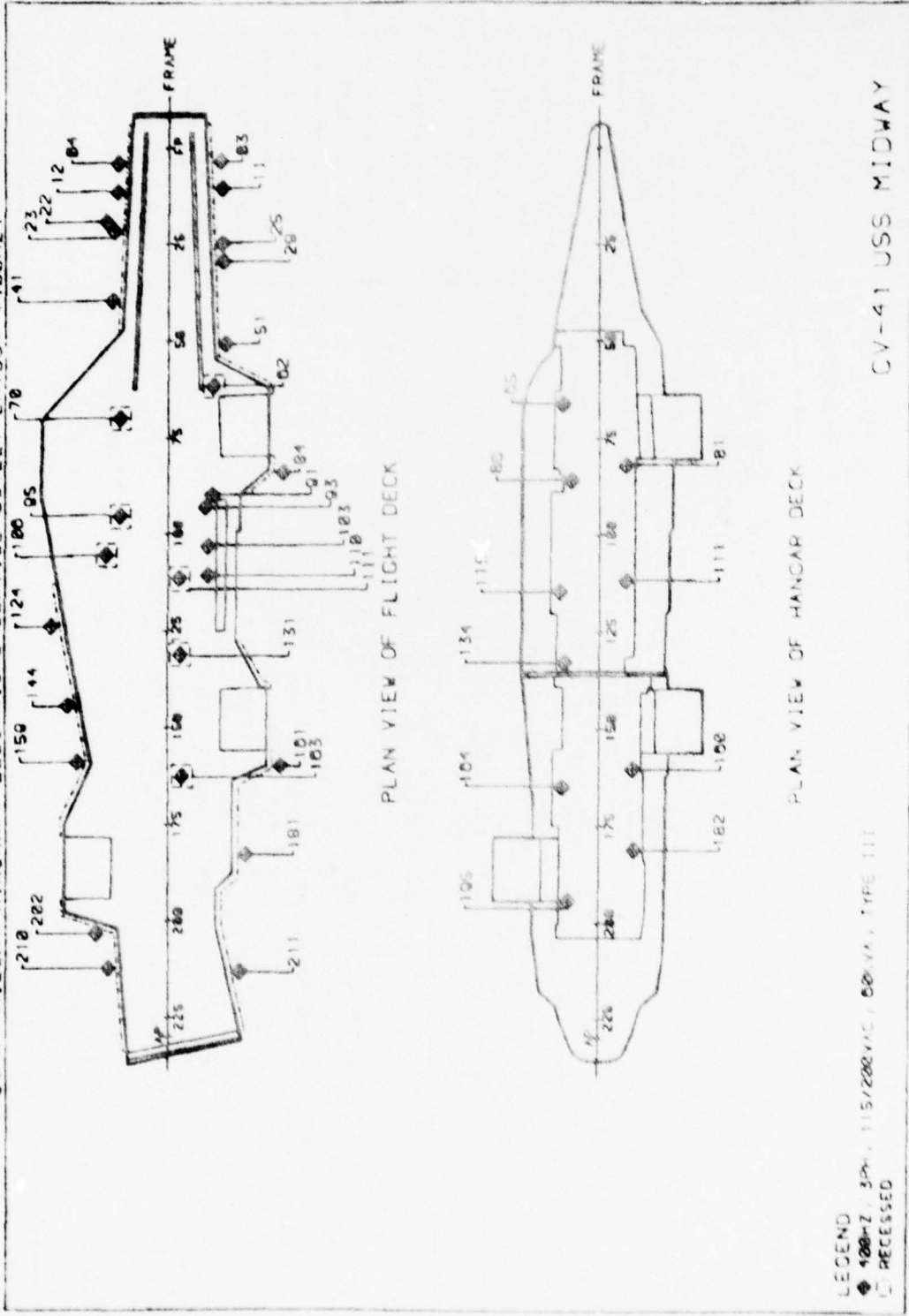
USS MIDWAY

AIRCRAFT ELECTRICAL SERVICE OUTLET SUMMARY

400Hz AIRCRAFT SERVICE

SERVICE OUTLETS	FLT DK	MCR DK
1 400Hz, 3PH, 115/200 VAC, 30KVA, Type I	NONE	NONE
2 400Hz, 3PH, 115/200 VAC, 30KVA, Type III	NONE	NONE
3 400Hz, 3PH, 115/200 VAC, 60KVA, Type I	NONE	NONE
4 400Hz, 3PH, 115/200 VAC, 60KVA, Type III	30	10

CV-41 MIDWAY AIRCRAFT ELECTRICAL SERVICE OUTLET LAYOUT (400HZ)



PLAN VIEW OF FLIGHT DECK

PLAN VIEW OF HANGAR DECK

LEGEND  
 ◆ 400-HZ, 3-Ø, 115/200VAC, 800VA, TYPE 111  
 □ RECEIVED

CV-41 USS MIDWAY

A/C START AND SUPPORT EQUIPMENT  
ELECTRICAL SERVICE OUTLET SUMMARY

440 VAC SUPPORT EQUIPMENT SERVICE  
28 5 VDC A/C SERVICE AND START

440 VAC SUPPORT EQUIPMENT SERVICE

1 440 VAC 60HZ, 3PH, 25 AMP

2 440 VAC, 60HZ, 3PH, 60 AMP

3 440 VAC, 60HZ, 3PH, 100 AMP

28 5 VDC A/C SERVICE AND START

1 28 5 VDC, 200 AMP CONTINUOUS

2 28 5 VDC, 300 AMP CONT, 600 TO 900 A INTER

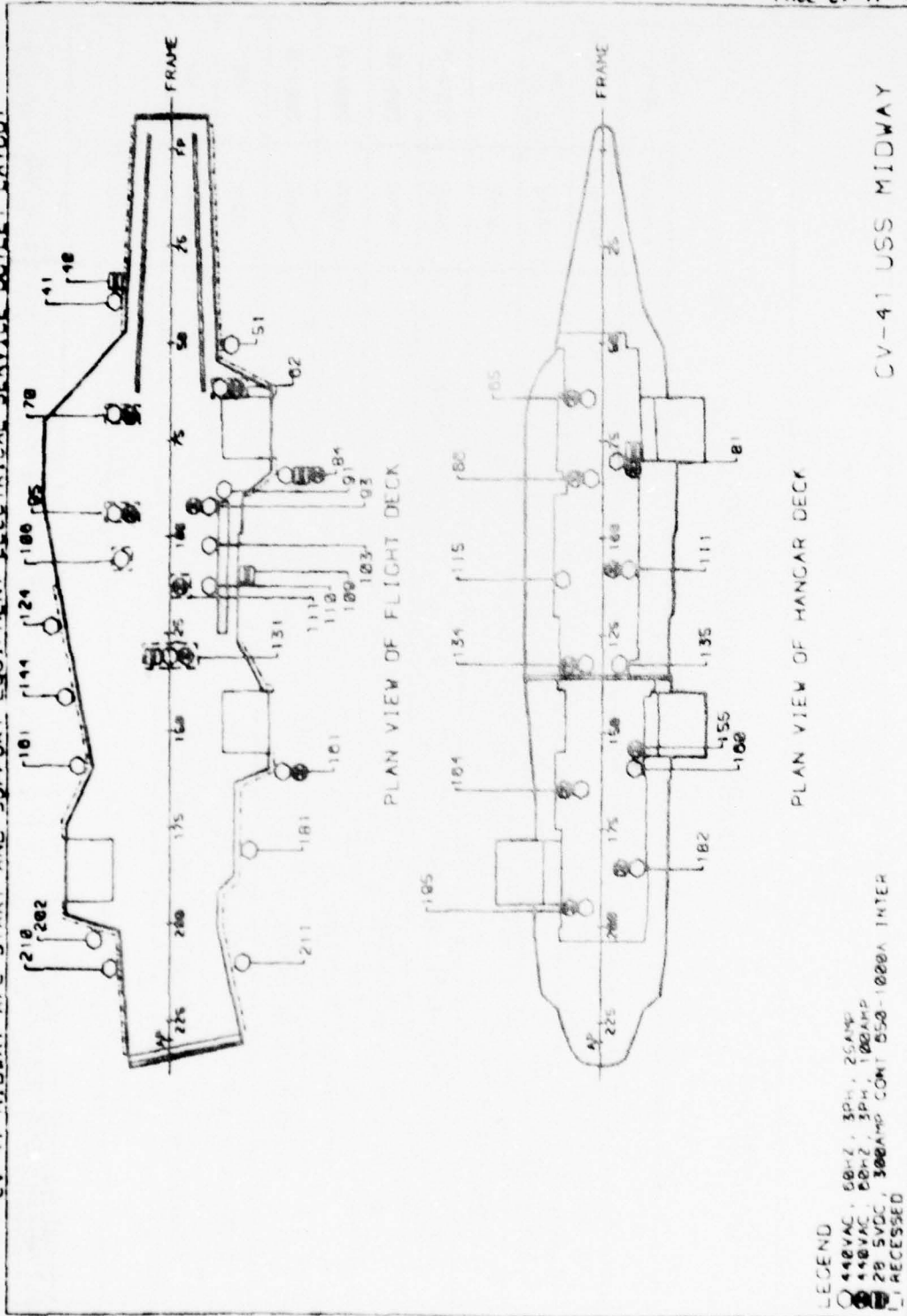
3 28 5 VDC, 500 AMP CONT, 600 TO 900 A INTER

4 28 5 VDC, 300 AMP CONT, 650 TO 1000 A INTER

5 28 5 VDC, 650 AMP CONT, 650 TO 1000 A INTER

	FLT DK	HCR DK
	28	11
	NONE	NONE
	8	9
	NONE	NONE
	4	1
	NONE	NONE
	NONE	NONE
	NONE	NONE

CV-41 MIDWAY A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET LAYOUT



LEGEND  
 ○ 440VAC, 60HZ, 3PH, 25AMP  
 ○ 440VAC, 60HZ, 3PH, 100AMP  
 ○ 28 5VDC, 300AMP CONT 550-1020A INTER  
 □ RECESSED

PLAN VIEW OF HANGAR DECK

PLAN VIEW OF FLIGHT DECK

CV-41 USS MIDWAY

AVIATION FUEL SERVICE

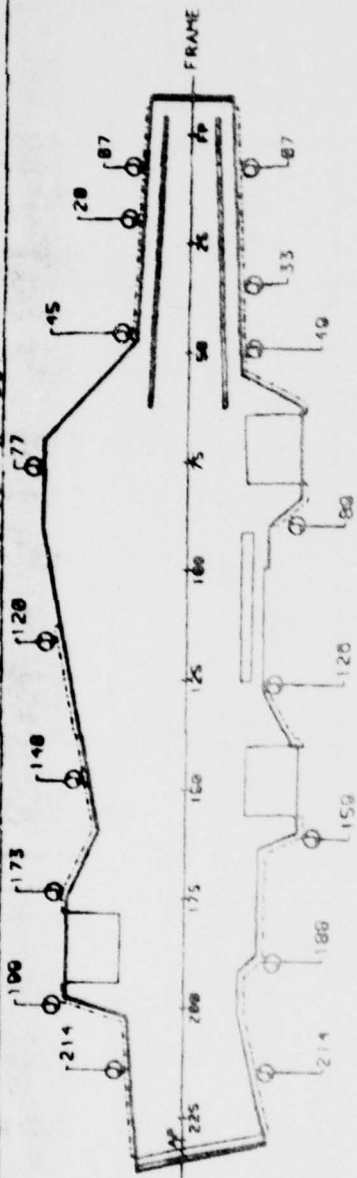
AVIATION GASOLINE AND JP-5

	AV/GAS	JP-5
1 CAPACITY GAL 95X	NONE	1,179,828
2 SERVICE OUTLETS	NONE	FLT DK 17 HCR DK 5
3 HOSES PER OUTLET	NONE	2
4 SERVICE OUTLET CAPACITY, GPM/PSI	NONE	208/40
a TWO OUTLETS OPERATING	NONE	208/40
b FOUR OUTLETS OPERATING	NONE	208/40
c SIX OUTLETS OPERATING	NONE	208/40
5 DEFUELING CAPACITY PER SERVICE OUTLET GPM	NONE	108
6 DEFUELING CAPACITY PER PORTABLE PUMP GPM	NONE	50

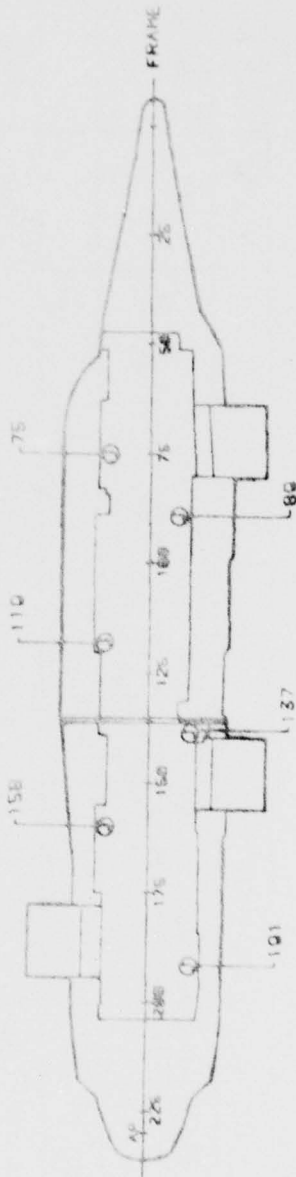
NOTES

1 JP-5 2-1/2" HOSE

CV-41 MIDWAY AVIATION FUEL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
○ JP-5

CV-41 USS MIDWAY

COMPRESSED AIR SERVICE SUMMARY

COMPRESSED AIR

LOW PRESSURE	FLT DK	MCR DK
1 SERVICE OUTLETS @ 100 PSI	13	20
REDUCED PRESSURE		
1 SERVICE OUTLETS @	NONE	NONE
MEDIUM PRESSURE		
1 SERVICE OUTLETS @ 1800 PSI	NONE	NONE
MEDIUM TO HIGH PRESSURE		
1 SERVICE OUTLETS @ 1800 TO 3000 PSI (VARIABLE)	NONE	NONE
HIGH PRESSURE		
1 SERVICE OUTLETS @ 3000 PSI	0	3
TIRE CHANGING AIR		
1 SERVICE OUTLETS @	NONE	NONE



OXYGEN AND NITROGEN SERVICE SUMMARY

OXYGEN

1 STORAGE CAPACITY, LIQUID GALS 2100

2 GENERATING CAPACITY DPH 18 0

3 SERVICE OUTLETS, LIQUID FLT DK NONE HGR DK 3

4 SERVICE OUTLETS, GASEOUS FLT DK 1<sup>a</sup> HGR DK 3<sup>d</sup>

NITROGEN (OIL FREE)

1 STORAGE CAPACITY @ 5000 PSI 75 cu ft

2 SERVICE OUTLETS FLT DK NONE HGR DK 3<sup>d</sup>

NITROGEN

1 STORAGE CAPACITY @ 3000 PSI 32 cu ft

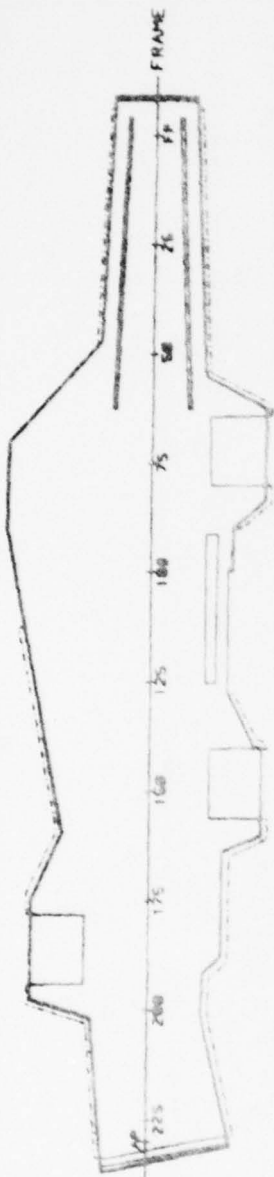
2 SERVICE OUTLETS FLT DK NONE HGR DK 1<sup>c</sup>, 1<sup>f</sup>

NOTES PRESSURES (PSI)

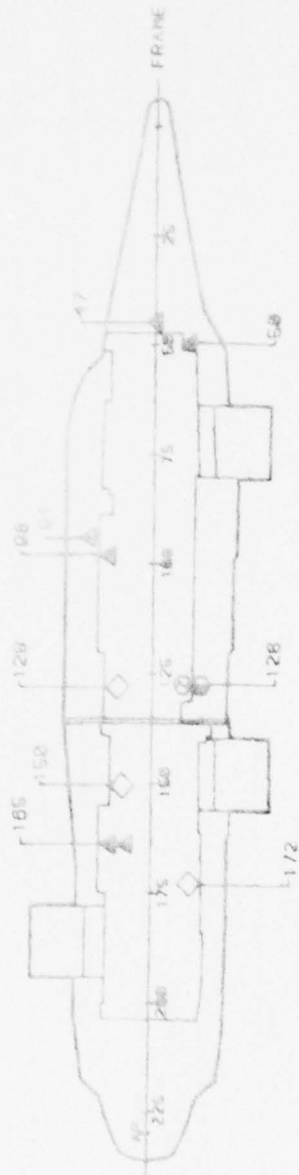
a 1800 c 2000 e 2000 - 3000 g 3500 i 5000

b 1000 d 2000 f 3000 h 500

CV-41 MIDWAY OXYGEN AND NITROGEN SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



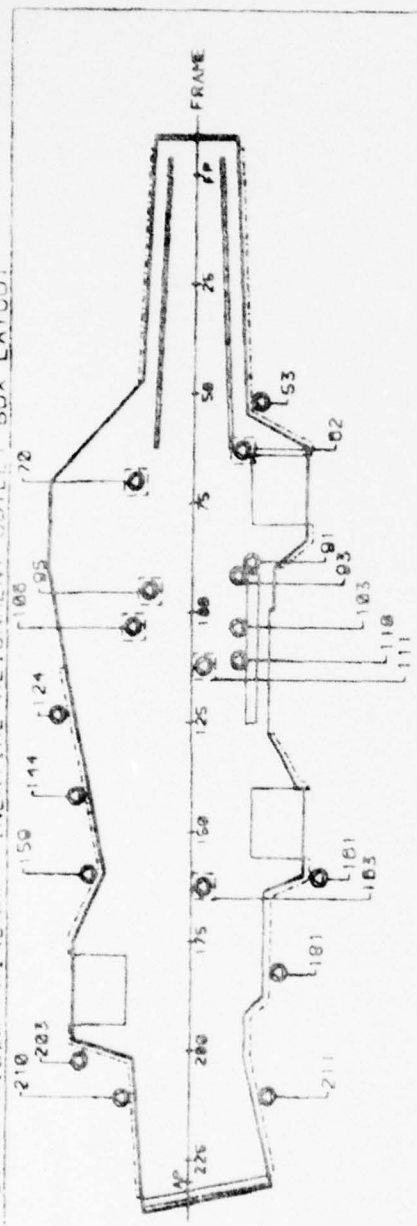
PLAN VIEW OF HANGAR DECK

- LEGEND
- ▲ CASEOUS OXYGEN 2000 PSI
  - LIQUID OXYGEN
  - ◆ CASEOUS NITROGEN 2000 PSI
  - CASEOUS NITROGEN 3000 PSI
  - ◇ CASEOUS NITROGEN 5000 PSI

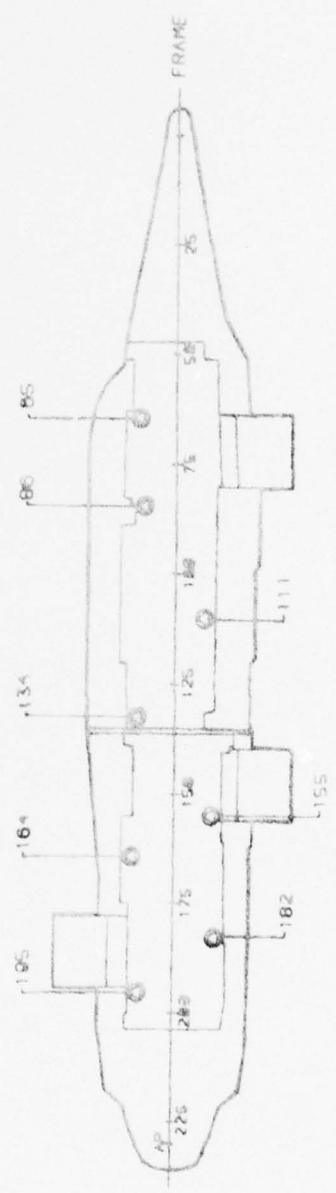
CV-41 USS MIDWAY



CV-41 MIDWAY AIRCRAFT INERTIAL ALIGNMENT OUTLET BOX LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
 ○ ALIGNMENT OUTLET BOX  
 □ RECESSED

CV-41 USS MIDWAY

CATEGORY	PAGE NO.
1 Aircraft Electrical Service Outlet Summary (400 Hz) Aircraft Electrical Service Outlet Layout (400 Hz)	1 2
2 Aircraft Electrical and Support Equipment Service Outlet Summary (28.5 VDC, 440 VAC)	3
3 Aircraft Electrical and Support Equipment Service Outlet Layout (28.5 VDC, 440 VAC)	4
4 Aviation Fuel Service Summary Aviation Fuel Service Outlet Layout	5 6
5 Compressed Air Service Summary Compressed Air Service Outlet Layout	7 8
6 Combat Readiness Station Service Summary Combat Readiness Station Layout	N/A N/A
7 Oxygen and Nitrogen Service Summary Oxygen and Nitrogen Service Outlet Layout	N/A N/A
8 Aircraft Inertial Alignment Outlet Box Summary Aircraft Inertial Alignment Outlet Box Layout	N/A N/A
9 Aircraft Cooling and Starting Air Outlet Summary Aircraft Cooling and Starting Air Outlet Layout	N/A N/A

LATEST CHECK - AUGUST 1978

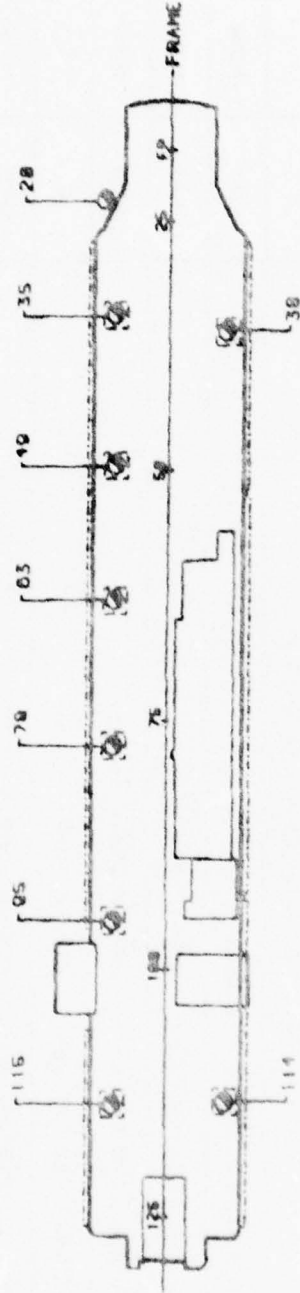
USS TARAWA

AIRCRAFT ELECTRICAL SERVICE OUTLET SUMMARY

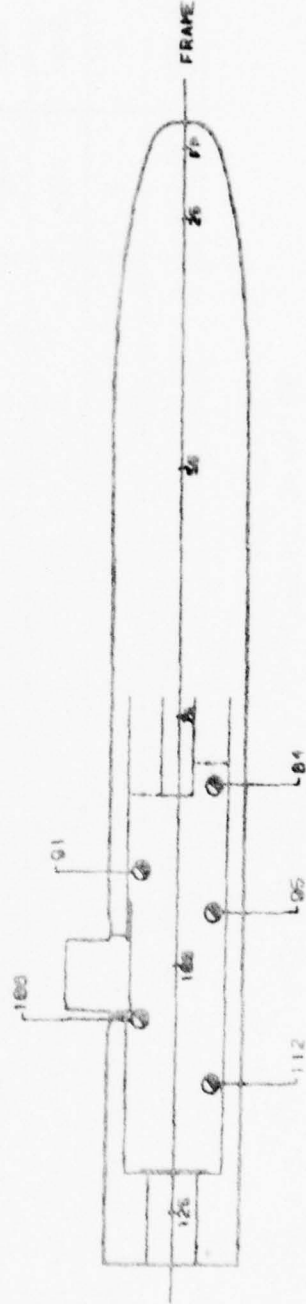
400HZ AIRCRAFT SERVICE

SERVICE OUTLETS	FLT DK	HGR DK
1 400Hz, 3PH, 115/200 VAC, 30KVA, Type I	NONE	NONE
2 400Hz, 3PH, 115/200 VAC, 30KVA, Type III	0	5
3 400Hz, 3PH, 115/200 VAC, 20KVA, Type I	NONE	NONE
4 400Hz, 3PH, 115/200 VAC, 20KVA, Type III	NONE	NONE

LHA-1 TARAVA AIRCRAFT ELECTRICAL SERVICE OUTLET LAYOUT (400HZ)



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
● 400HZ, 3PH, 115/200VAC, 30KVA, TYPE III  
□ RECESSED

LHA-1 USS TARAVA

A/C START AND SUPPORT EQUIPMENT  
ELECTRICAL SERVICE OUTLET SUMMARY

440 VAC SUPPORT EQUIPMENT SERVICE  
28 5 VDC A/C SERVICE AND START

440 VAC SUPPORT EQUIPMENT SERVICE

1 440 VAC 60HZ, 3PH, 25 AMP

2 440 VAC, 60HZ, 3PH, 60 AMP

3 440 VAC, 60HZ, 3PH, 100 AMP

28 5 VDC A/C SERVICE AND START

1 28 5 VDC, 200 AMP Continuous

2 28 5 VDC, 300 AMP Cont, 600 to 900 A Inter

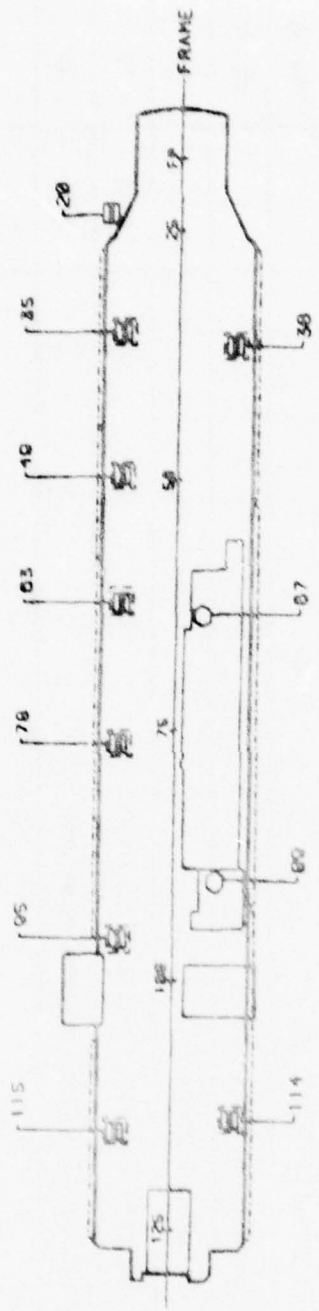
3 28 5 VDC, 600 AMP Cont, 600 to 900 A Inter

4 28 5 VDC, 300 AMP cont, 650 to 1000 A Inter

5 28 5 VDC, 650 AMP Cont, 650 to 1000 A Inter

	FLT DK	MCR DK
	2	4
	NONE	NONE
	NONE	NONE
	NONE	NONE
	NONE	NONE
	NONE	NONE
	9	5
	NONE	NONE

LHA-1 TARAWA A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
 ○ 110VAC, 60HZ, 3PH, 25AMP  
 □ 28 VDC, 300AMP CONT, 05B-1000A INTER  
 ▭ RECESSED

LHA-1 USS TARAWA

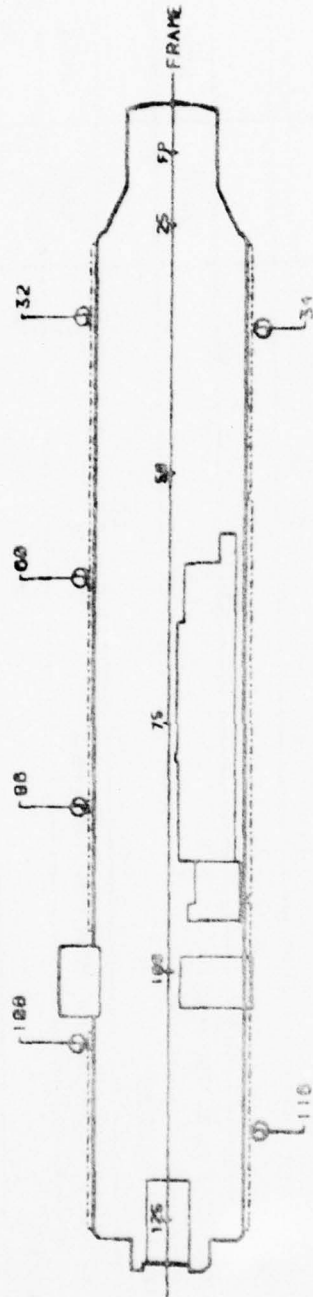
AVIATION FUEL SERVICE

AVIATION GASOLINE AND JP-5

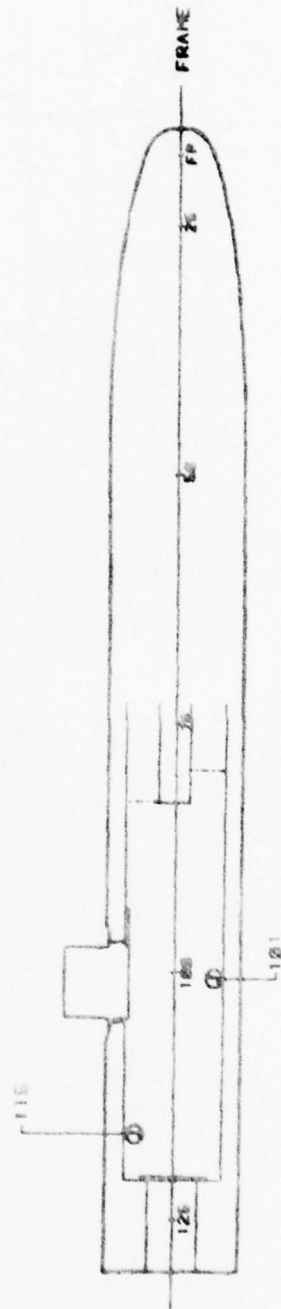
	AV/GAS	JP-5
1 CAPACITY GAL. 95X	NONE	417,800
2 SERVICE OUTLETS	NONE	FLT DK 0 HGR DK 2
3 HOSES PER OUTLET	NONE	FLT DK 2 HGR DK 1
4 SERVICE OUTLET CAPACITY, GPM/PSI	NONE	288/45
a TWO OUTLETS OPERATING		288/45
b FOUR OUTLETS OPERATING		288/45
c SIX OUTLETS OPERATING		N/A
5 DEFUELING CAPACITY PER SERVICE OUTLET GPM	NONE	12
6 DEFUELING CAPACITY PER PORTABLE PUMP GPM	NONE	25



LHA-1 TARAWA AVIATION FUEL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
① JP-5

LHA-1 USS TARAWA

COMPRESSED AIR SERVICE SUMMARY

COMPRESSED AIR

LOW PRESSURE	FLT DK	HGR DK
1 SERVICE OUTLETS @ 125 PSI	10	10
REDUCED PRESSURE		
1 SERVICE OUTLETS @	NONE	NONE
MEDIUM PRESSURE		
1 SERVICE OUTLETS @ 1800 PSI	NONE	NONE
MEDIUM TO HIGH PRESSURE		
1 SERVICE OUTLETS @ 1800 TO 3000 PSI (VARIABLE)	NONE	NONE
HIGH PRESSURE		
1 SERVICE OUTLETS @ 3000 PSI	NONE	NONE
TIRE CHANGING AIR		
1 SERVICE OUTLETS @	NONE	NONE



PAGE NO.

CATEGORY

1	Aircraft Electrical Service Outlet Summary (400 Hz) Aircraft Electrical Service Outlet Layout (400 Hz)	1 2
2	Aircraft Electrical and Support Equipment Service Outlet Summary (28.5 VDC, 440 VAC)	3
4	Aircraft Electrical and Support Equipment Service Outlet Layout (28.5 VDC, 440 VAC)	4
3	Aviation Fuel Service Summary Aviation Fuel Service Outlet Layout	5 6
4	Compressed Air Service Summary Compressed Air Service Outlet Layout	7 8
5	Combat Readiness Station Service Summary Combat Readiness Station Layout	N/A N/A
6	Oxygen and Nitrogen Service Summary Oxygen and Nitrogen Service Outlet Layout	N/A N/A
7	Aircraft Inertial Alignment Outlet Box Summary Aircraft Inertial Alignment Outlet Box Layout	N/A N/A
8	Aircraft Cooling and Starting Air Outlet Summary Aircraft Cooling and Starting Air Outlet Layout	N/A N/A

LATEST CHECK - AUGUST 1970

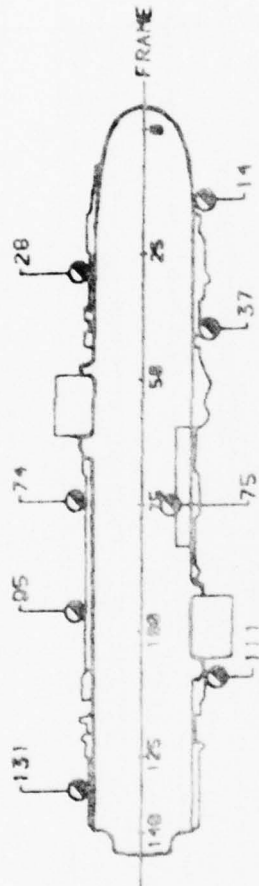
USS INCHON

AIRCRAFT ELECTRICAL SERVICE OUTLET SUMMARY

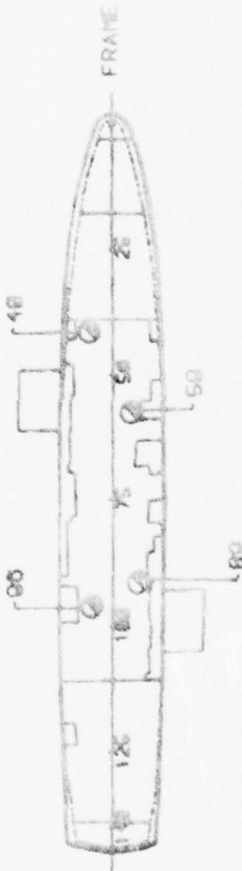
400HZ AIRCRAFT SERVICE

SERVICE OUTLETS	FLT OK	MCR OK
1 400Hz, 3PH, 115/200 VAC, 50KVA, Type I	NONE	NONE
2 400Hz, 3PH, 115/200 VAC, 30KVA, Type III	8	4
3 400Hz, 3PH, 115/200 VAC, 50KVA, Type I	NONE	NONE
4 400Hz, 3PH, 115/200 VAC, 50KVA, Type III	NONE	NONE

LPH-12 INCHON AIRCRAFT ELECTRICAL SERVICE OUTLET LAYOUT (400HZ)



PLAN VIEW OF FLIGHT DECK



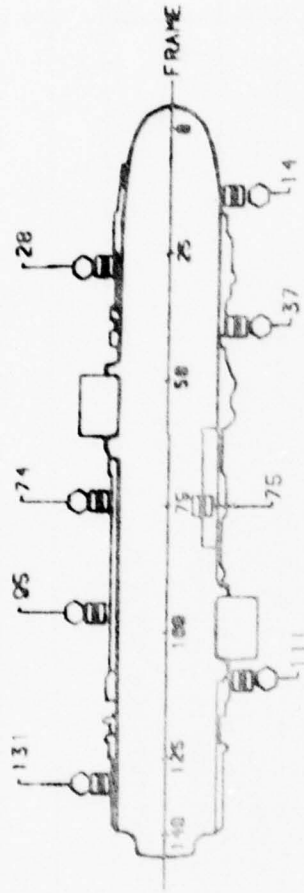
PLAN VIEW OF HANGAR DECK

LEGEND  
● 400HZ, 3PH, 115/200VAC, 30KVA, TYPE III

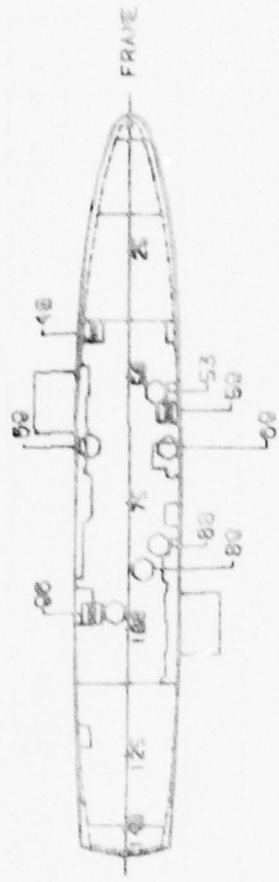
LPH-12 USS INCHON

A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET SUMMARY		FLT DK	HCR DA
440 VAC SUPPORT EQUIPMENT SERVICE			
1	440 VAC 60HZ, 3PH, 25 AMP	7	0
2	440 VAC, 60HZ, 3PH, 60 AMP	NONE	NONE
3	440 VAC, 60HZ, 3PH, 180 AMP	NONE	NONE
28 5 VDC A/C SERVICE AND START			
1	28 5 VDC, 2000 AMP Continuous	NONE	NONE
2	28 5 VDC, 300 AMP Cont, 600 to 900 A Inter	NONE	NONE
3	28 5 VDC, 500 AMP Cont, 600 to 900 A Inter	NONE	NONE
4	28 5 VDC, 300 AMP cont, 650 to 1000 A Inter	0	3
5	28 5 VDC, 650 AMP Cont, 650 to 1000 A Inter	NONE	NONE

LPH-12 INCHON A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND

- 440VAC, 60HZ, 3PH, 25AMP
- ◻ 28 SVDC, 300AMP CONT 650-1000A INTER

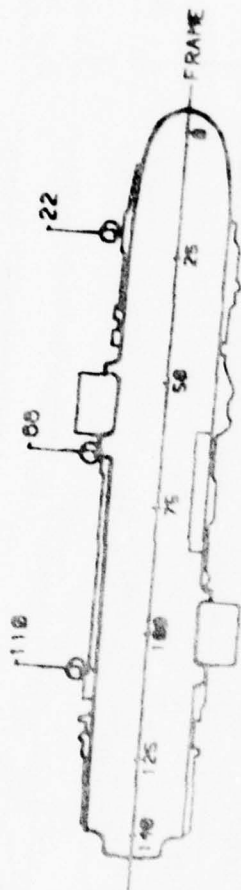
LPH-12 USS INCHON

AVIATION FUEL SERVICE

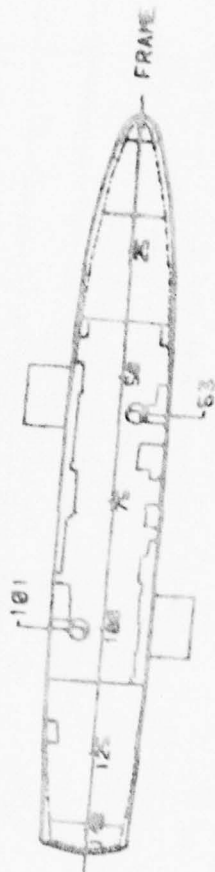
AVIATION GASOLINE AND JP-5

	JP-5
1 CAPACITY GAL 95X	398,180
2 SERVICE OUTLETS	FLT DK 3 HGR DK 2
3 HOSES PER OUTLET	2
4 SERVICE OUTLET CAPACITY, GPH/PSI	175/48
e TWO OUTLETS OPERATING	175/48
b FOUR OUTLETS OPERATING	175/48
c SIX OUTLETS OPERATING	NONE
5 DEFUELING CAPACITY PER SERVICE OUTLET GPH	50
6 DEFUELING CAPACITY PER PORTABLE PUMP GPH	25
NOTES:	
1 JP-5 1-1/2" HOSE	
2 PRESSURE REDUCED TO 28 PSI AT FR 22, FLT DK	

LPH-12 INCHON AVIATION FUEL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
JP-5

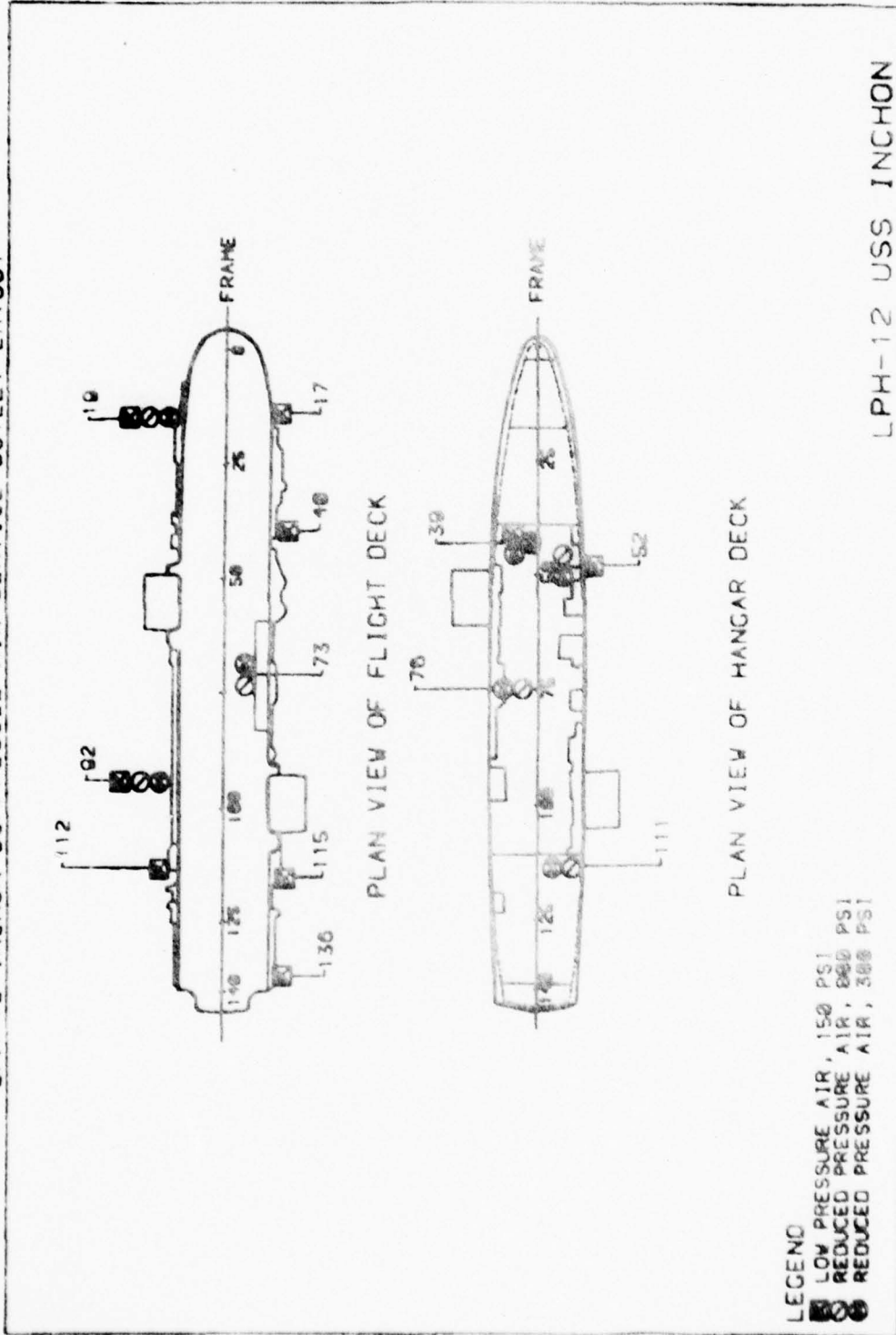
LPH-12 USS INCHON

COMPRESSED AIR SERVICE SUMMARY

COMPRESSED AIR

LOW PRESSURE	FLT DK	HCR DK
1 SERVICE OUTLETS @ 150 PSI	7	2
REDUCED PRESSURE		
1 SERVICE OUTLETS @ 300 PSI	3	5
2 SERVICE OUTLETS @ 600 PSI	3	3
MEDIUM PRESSURE		
1 SERVICE OUTLETS @ 1800 PSI	NONE	NONE
MEDIUM TO HIGH PRESSURE		
1 SERVICE OUTLETS @ 1800 to 3000 PSI (VARIABLE)	NONE	NONE
HIGH PRESSURE		
1 SERVICE OUTLETS @ 3000 PSI	NONE	NONE
TIRE CHANGING AIR	NONE	NONE
1 SERVICE OUTLETS @		

LPH-12 INCHON COMPRESSED AIR SERVICE OUTLET LAYOUT



LEGEND  
□ LOW PRESSURE AIR, 150 PSI  
● REDUCED PRESSURE AIR, 800 PSI  
⊗ REDUCED PRESSURE AIR, 300 PSI

LPH-12 USS INCHON

CATEGORY                      PAGE NO

1	Aircraft Electrical Service Outlet Summary (400 Hz) Aircraft Electrical Service Outlet Layout (400 Hz)	1 2
2	Aircraft Electrical and Support Equipment Service Outlet Summary (28.5 VDC, 440 VAC)	3
3	Aircraft Electrical and Support Equipment Service Outlet Layout (28.5 VDC, 440 VAC)	4
4	Aviation Fuel Service Summary Aviation Fuel Service Outlet Layout	5 6
5	Compressed Air Service Summary Compressed Air Service Outlet Layout	7 8
6	Combat Readiness Station Service Summary Combat Readiness Station Layout	N/A N/A
7	Oxygen and Nitrogen Service Summary Oxygen and Nitrogen Service Outlet Layout	N/A N/A
8	Aircraft Inertial Alignment Outlet Box Summary Aircraft Inertial Alignment Outlet Box Layout	N/A N/A
	Aircraft Cooling and Starting Air Outlet Summary Aircraft Cooling and Starting Air Outlet Layout	N/A N/A

LATEST CHECK    FEB 1969

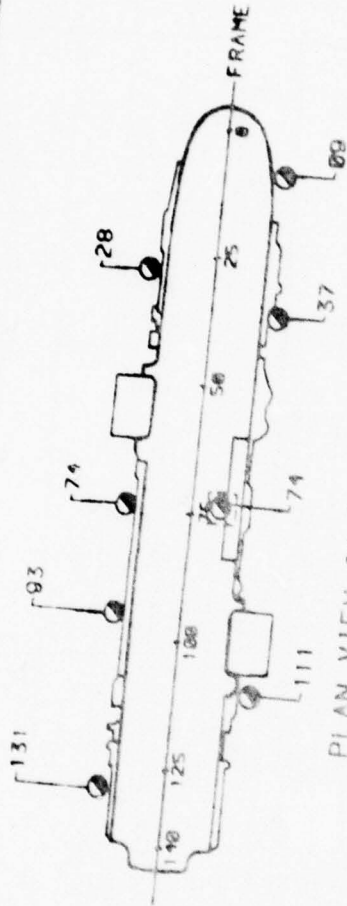
USS NEW ORLEANS

AIRCRAFT ELECTRICAL SERVICE OUTLET SUMMARY

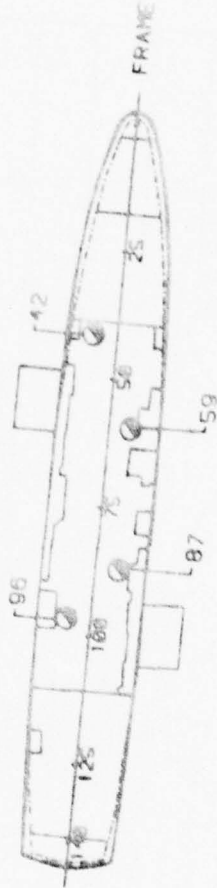
400HZ AIRCRAFT SERVICE

SERVICE OUTLETS		FLT OK	HCR OK
1	400HZ, 3PH, 115/200 VAC, 30KVA, Type I	NONE	NONE
2	400HZ, 3PH, 115/200 VAC, 30KVA, Type III	8	4
3	400HZ, 3PH, 115/200 VAC, 60KVA, Type I	NONE	NONE
4	400HZ, 3PH, 115/200 VAC, 60KVA, Type III	NONE	NONE

LPH-11 NEW ORLEANS AIRCRAFT ELECTRICAL SERVICE OUTLET LAYOUT (400HZ)



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND

- 400HZ, 3PH, 115/200VAC, 30KVA TYPE III
- RECESSED

LPH-11 USS NEW ORLEANS

A/C START AND SUPPORT EQUIPMENT  
 ELECTRICAL SERVICE OUTLET SUMMARY

440 VAC SUPPORT EQUIPMENT SERVICE  
 28 5 VDC A/C SERVICE AND START

440 VAC SUPPORT EQUIPMENT SERVICE

1 440 VAC 60HZ, 3PH, 25 AMP

2 440 VAC, 60HZ, 3PH, 60 AMP

3 440 VAC, 60HZ, 3PH, 1000 AMP

28 5 VDC A/C SERVICE AND START

1 28 5 VDC, 200 AMP Continuous

2 28 5 VDC, 300 AMP Cont, 600 to 900 A Inter

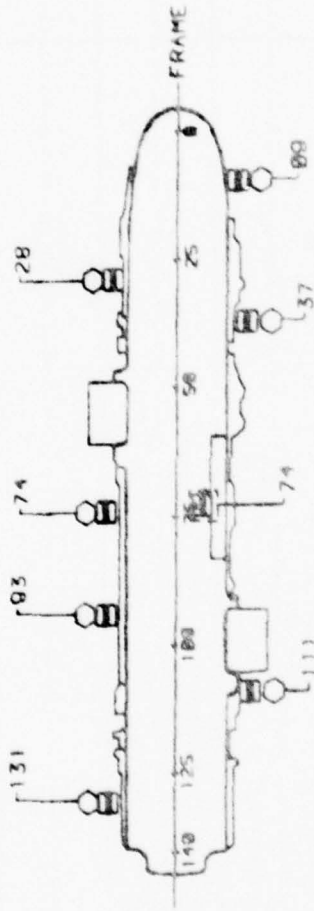
3 28 5 VDC, 600 AMP Cont, 600 to 900 A Inter

4 28 5 VDC, 300 AMP cont, 650 to 1000 A Inter

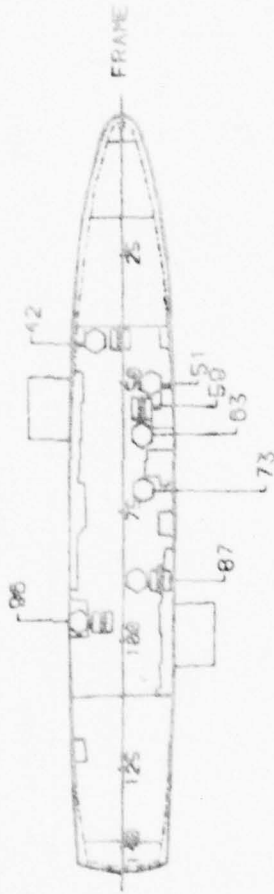
5 28 5 VDC, 650 AMP Cont, 650 to 1000 A Inter

	FLT DK	HCR DK
	7	0
	NONE	NONE
	NONE	NONE
	NONE	NONE
	NONE	NONE
	NONE	NONE
	8	4
	NONE	NONE

LPH-11 NEW ORLEANS A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



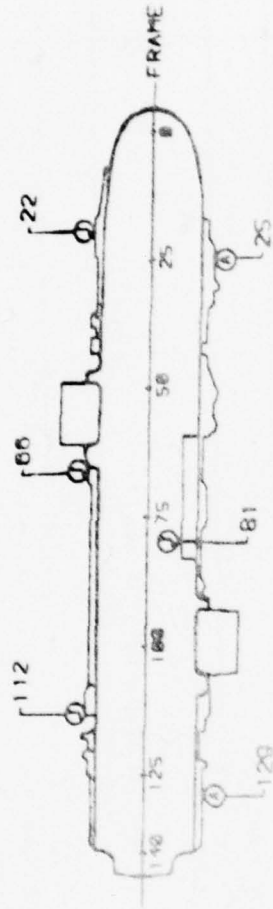
PLAN VIEW OF HANGAR DECK

LEGEND  
 ○ 440VAC, 60HZ, 3PH, 25AMP  
 ○ 28 VDC, 300AMP CONT 650-1000A INTER  
 □ RECESSED

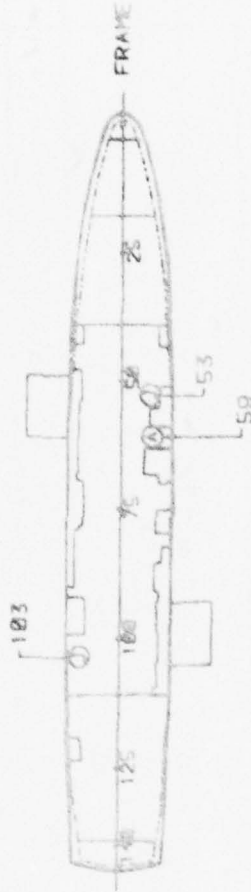
LPH-11 USS NEW ORLEANS



LPH-11 NEW ORLEANS AVIATION FUEL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
⊙ AV/GAS  
⊙ JP-5

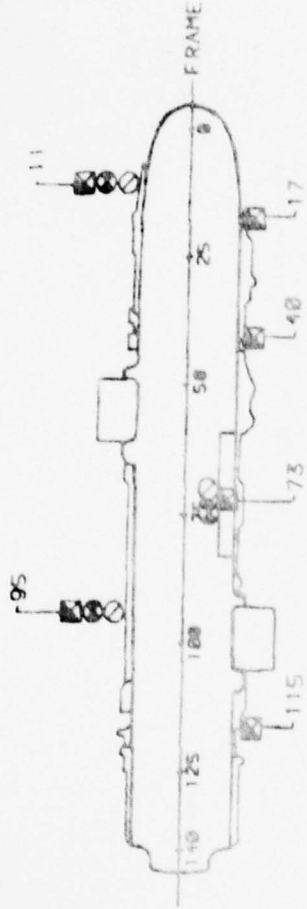
LPH-11 USS NEW ORLEANS

COMPRESSED AIR SERVICE SUMMARY

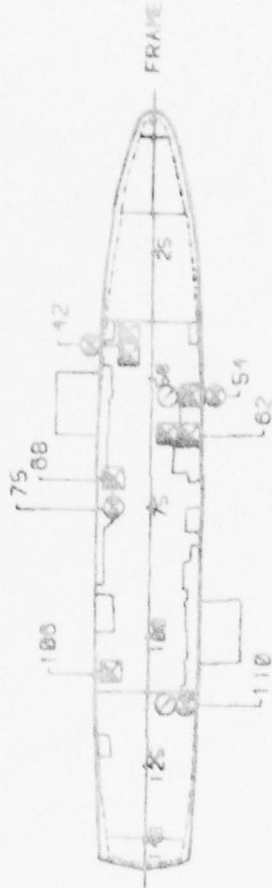
COMPRESSED AIR

LOW PRESSURE	FLT OK	MGR OK
1 SERVICE OUTLETS @ 150 PSI	6	7
REDUCED PRESSURE		
1 SERVICE OUTLETS @ 800 PSI	3	2
MEDIUM PRESSURE		
1 SERVICE OUTLETS @ 1800 PSI	NONE	NONE
MEDIUM TO HIGH PRESSURE		
1 SERVICE OUTLETS @ 1800 TO 3000 PSI (VARIABLE)	NONE	NONE
HIGH PRESSURE		
1 SERVICE OUTLETS @ 3000 PSI	NONE	NONE
TIRE CHANGING AIR		
1 SERVICE OUTLETS @ 300PSI	3	4

LPH-11 NEW ORLEANS COMPRESSED AIR SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

- LEGEND
- ☐ LOW PRESSURE AIR, 150PSI
  - REDUCED PRESSURE AIR, 800PSI
  - REDUCED PRESSURE AIR, 300PSI

LPH-11 USS NEW ORLEANS

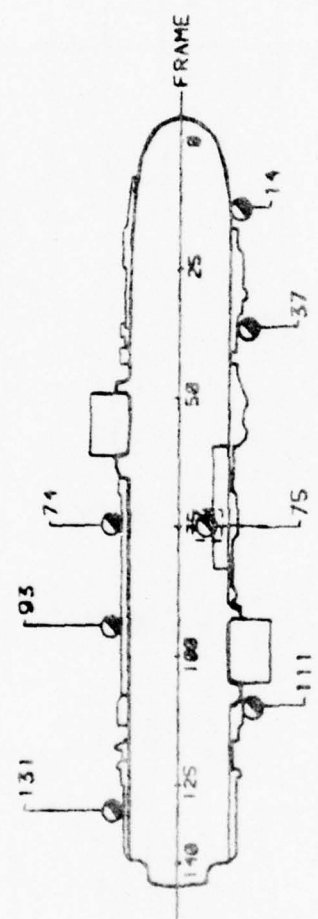
CATEGORY	PAGE NO
1 Aircraft Electrical Service Outlet Summary (400 Hz) Aircraft Electrical Service Outlet Layout (400 Hz)	1
2 Aircraft Electrical and Support Equipment Service Outlet Summary (28.5 VDC, 440 VAC)	2
3 Aircraft Electrical and Support Equipment Service Outlet Layout (28.5 VDC, 440 VAC)	3
4 Aviation Fuel Service Summary Aviation Fuel Service Outlet Layout	4
5 Compressed Air Service Summary Compressed Air Service Outlet Layout	5
6 Combat Readiness Station Service Summary Combat Readiness Station Layout	6
7 Oxygen and Nitrogen Service Summary Oxygen and Nitrogen Service Outlet Layout	7
8 Aircraft Inertial Alignment Outlet Box Summary Aircraft Inertial Alignment Outlet Box Layout	8
Aircraft Cooling and Starting Air Outlet Summary Aircraft Cooling and Starting Air Outlet Layout	N/A
	N/A
	N/A
	N/A
	N/A
	N/A
	N/A
	N/A

LATEST CHECK - AUGUST 1978

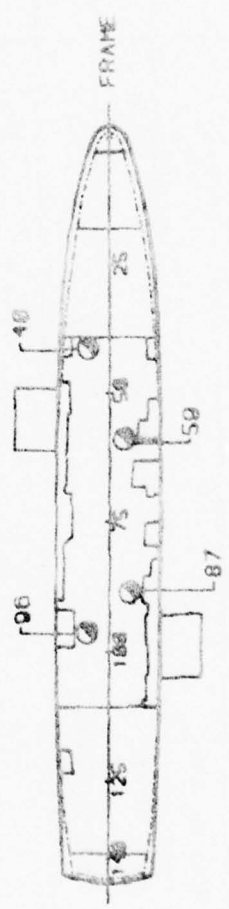
USS TRIPOLI



LPH-10 TRIPOLI AIRCRAFT ELECTRICAL SERVICE OUTLET LAYOUT (400HZ)



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
● 400HZ, 3PH, 115/200VAC, 30KVA, TYPE III  
□ RECESSED

LPH-10 USS TRIPOLI

A/C START AND SUPPORT EQUIPMENT  
 ELECTRICAL SERVICE OUTLET SUMMARY

440 VAC SUPPORT EQUIPMENT SERVICE  
 28 5 VDC A/C SERVICE AND START

440 VAC SUPPORT EQUIPMENT SERVICE

1 440 VAC, 60HZ, 3PH, 25 AMP

2 440 VAC, 60HZ, 3PH, 00 AMP

3 440 VAC, 60HZ, 3PH, 100 AMP

28 5 VDC A/C SERVICE AND START

1 28 5 VDC, 200 AMP CONTINUOUS

2 28 5 VDC, 300 AMP Cont, 500 to 800 A Inter

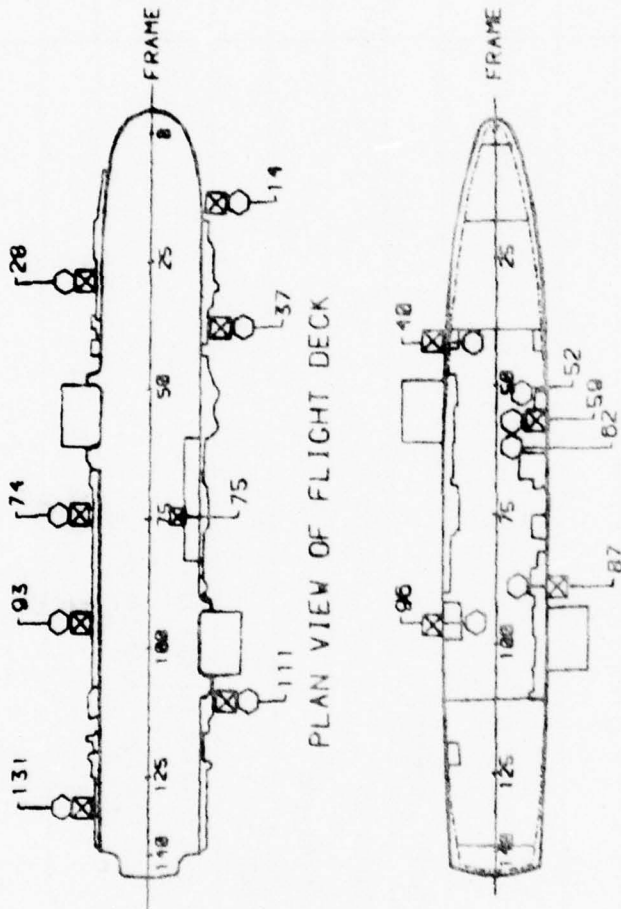
3 28 5 VDC, 500 AMP Cont, 500 to 800 A Inter

4 28 5 VDC, 300 AMP cont, 650 to 1000 A Inter

5 28 5 VDC, 050 AMP Cont, 050 to 1000 A Inter

	FLT DK	HGR DK
	7	0
	NONE	NONE
	NONE	NONE
	NONE	NONE
	8	4
	NONE	NONE
	NONE	NONE
	NONE	NONE

LPH-10 TRIPOLI A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK

PLAN VIEW OF HANGAR DECK

LEGEND  
 ○ 440VAC, 60HZ, 3PH, 25AMP  
 ⊗ 28 5VDC, 300AMP CONT 500-900A INTER

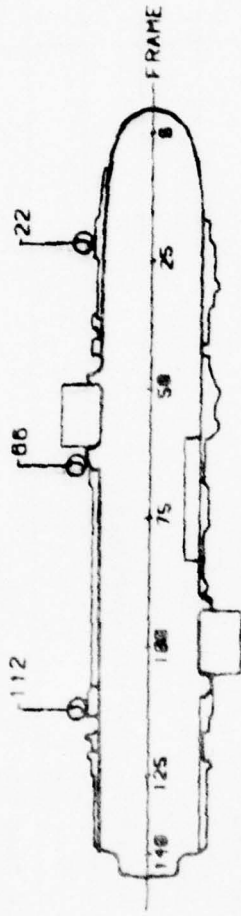
LPH-10 USS TRIPOLI

AVIATION FUEL SERVICE

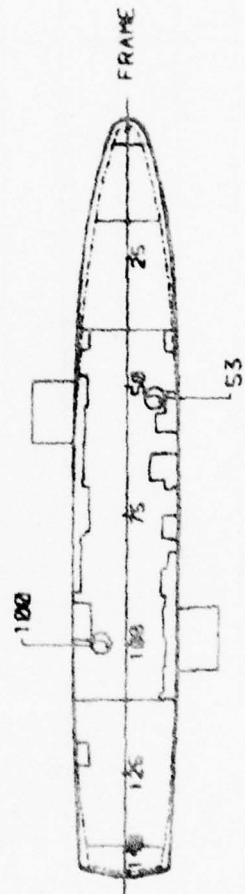
AVIATION GASOLINE AND JP-5

	AV/GAS	JP-5
1 CAPACITY GAL 05X	NONE	378,193
2 SERVICE OUTLETS	NONE	FLT DK 3 HCR DK 2
3 HOSES PER OUTLET	NONE	2
4 SERVICE OUTLET CAPACITY, GPM/PSI	NONE	228/75
a TWO OUTLETS OPERATING	NONE	228/75
b FOUR OUTLETS OPERATING	NONE	228/75
c SIX OUTLETS OPERATING	NONE	228/75
5 DEFUELING CAPACITY PER SERVICE OUTLET GPM	NONE	50
6 DEFUELING CAPACITY PER PORTABLE PUMP GPM/PSI	NONE	78/25

LPH-10 TRIPOLI AVIATION FUEL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
① JP-5

LPH-10 USS TRIPOLI

COMPRESSED AIR SERVICE SUMMARY

COMPRESSED AIR

LOW PRESSURE	FLT DK	HGR DK
1 SERVICE OUTLETS @ 150 PSI	0	0
REDUCED PRESSURE		
1 SERVICE OUTLETS @ 5000 PSI	3	4
2 SERVICE OUTLETS @ 8000 PSI	3	4
MEDIUM PRESSURE		
1 SERVICE OUTLETS @ 18000 PSI	NONE	NONE
MEDIUM TO HIGH PRESSURE		
1 SERVICE OUTLETS @ 18000 to 30000 PSI (VARIABLE)	NONE	NONE
HIGH PRESSURE		
1 SERVICE OUTLETS @ 30000 PSI	NONE	1
TIRE CHANGING AIR		
1 SERVICE OUTLETS @	NONE	NONE



PAGE NO.

CATEGORY

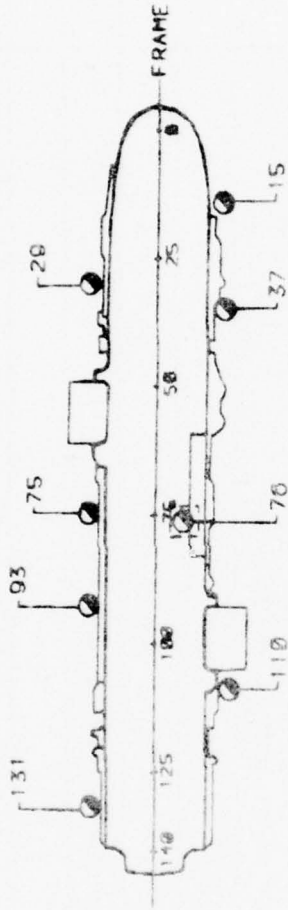
	<u>PAGE NO.</u>
1. Aircraft Electrical Service Outlet Summary (400 Hz) Aircraft Electrical Service Outlet Layout (400 Hz)	1 2
2. Aircraft Electrical and Support Equipment Service Outlet Summary (28.5 VDC, 440 VAC)	3
Aircraft Electrical and Support Equipment Service Outlet Layout (28.5 VDC, 440 VAC)	4
3. Aviation Fuel Service Summary Aviation Fuel Service Outlet Layout	5 6
4. Compressed Air Service Summary Compressed Air Service Outlet Layout	7 8
5. Combat Readiness Station Service Summary Combat Readiness Station Layout	N/A N/A
6. Oxygen and Nitrogen Service Summary Oxygen and Nitrogen Service Outlet Layout	N/A
7. Aircraft Inertial Alignment Outlet Box Summary Aircraft Inertial Alignment Outlet Box Layout	N/A N/A
8. Aircraft Cooling and Starting Air Outlet Summary Aircraft Cooling and Starting Air Outlet Layout	N/A N/A

LATEST CHECK - MARCH 1972

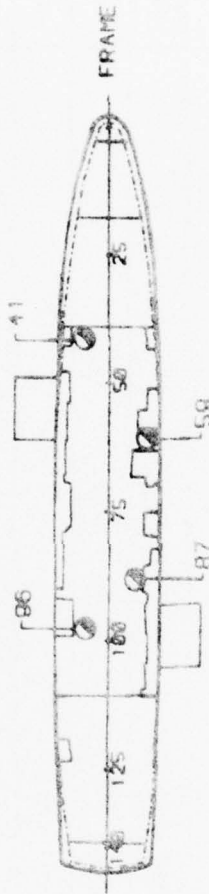
USS GUAM



LPH-9 GUAM AIRCRAFT ELECTRICAL SERVICE OUTLET LAYOUT (400HZ)



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

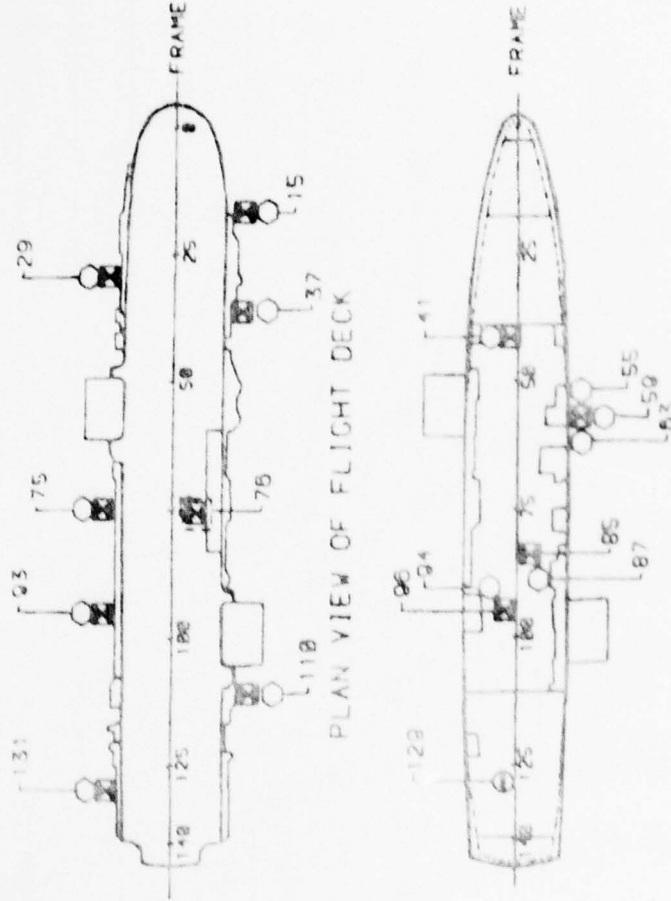
LEGEND  
● 400HZ, 3PH, 115/200VAC, 30KVA, TYPE III  
□ RECESSED

LPH-9 USS GUAM

7-1-73 BY

A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET SUMMARY		FLT DR	MCR DR
440 VAC SUPPORT EQUIPMENT SERVICE			
1	440 VAC, 60Hz, 3PH, 25 AMP	7	0
2	440 VAC, 60Hz, 3PH, 60 AMP	NONE	NONE
3	440 VAC, 60Hz, 3PH, 100 AMP	NONE	NONE
4	440 VAC, 60Hz, 3PH, 125 KVA	NONE	1
28 5 VDC A/C SERVICE AND START			
1	28 5 VDC, 200 AMP Continuous	NONE	NONE
2	28 5 VDC, 300 AMP Cont, 000 to 900 A Inter	NONE	NONE
3	28 5 VDC, 500 AMP Cont, 000 to 900 A Inter	8	4
4	28 5 VDC, 300 AMP cont, 050 to 1000 A Inter	NONE	NONE
5	28 5 VDC, 650 AMP Cont, 050 to 1000 A Inter	NONE	NONE

LPH-9 GUAM A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK

PLAN VIEW OF HANGAR DECK

LEGEND  
 ○ 480VAC, 60HZ, 3PH, 25AMP  
 ○ UTILITY VAN SERVICE, 440VAC, 3PH, 60HZ, 125KVA  
 □ 28.5 VDC, 600 AMP CONT 600-900A INTER  
 ▭ RECESSED

LPH-9 USS GUAM

AVIATION FUEL SERVICE

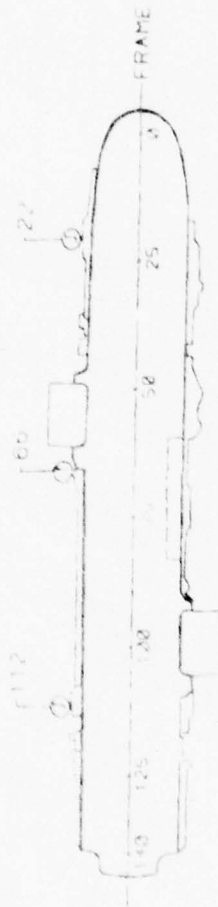
AVIATION GASOLINE AND JP-5

	AV/GAS	JP-5
1 CAPACITY GAL GSA	NONE	289,000
2 SERVICE OUTLETS	NONE	FLT DK 3 HCR DK 1
3 HOSES PER OUTLET	NOTE 1	2
4 SERVICE OUTLET CAPACITY, GPM/PSI		100/40
5 TWO OUTLETS OPERATING		100/40
6 FOUR OUTLETS OPERATING		100/40
7 SIX OUTLETS OPERATING		N/A
8 DEFUELING CAPACITY PER SERVICE OUTLET GPM		50
9 DEFUELING CAPACITY PER PORTABLE PUMP GPM		25

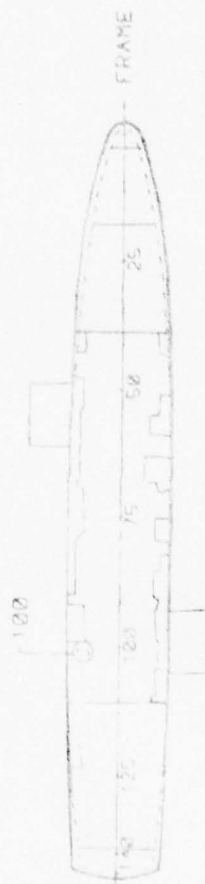
NOTES

- 1 FLT DK STATIONS HAVE ONE 1/2" HOSE AND ONE 2 1/2" HOSE
- HCR DK STATIONS HAVE TWO 1/2" HOSE

LPH-9 GUAM AVIATION FUEL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
Ø JP-5

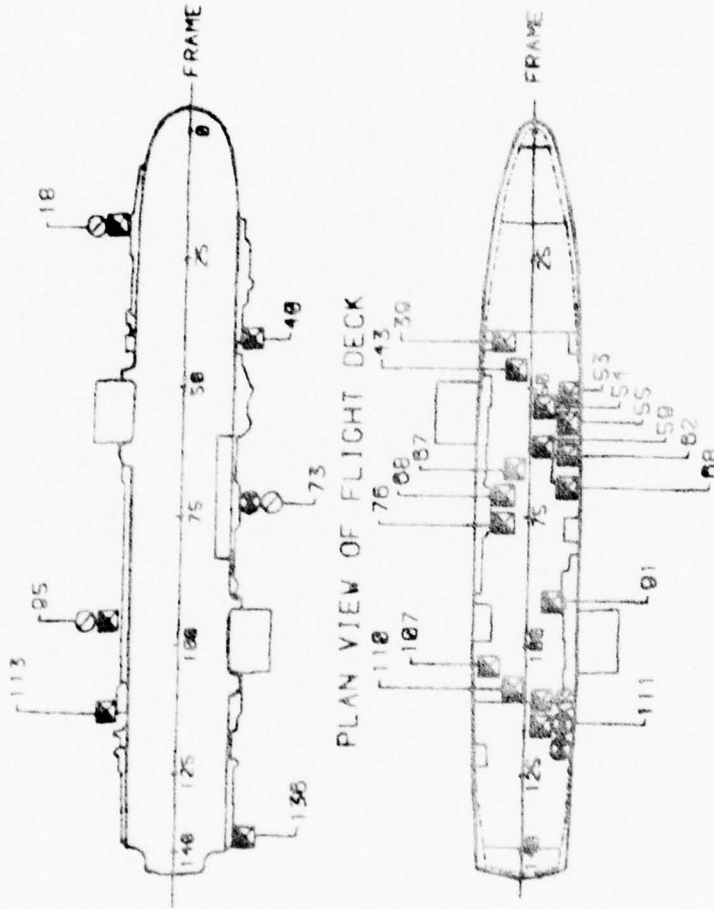
LPH-9 USS GUAM

COMPRESSED AIR SERVICE SUMMARY

COMPRESSED AIR

LOW PRESSURE	FLT DK	HCR DK
1 SERVICE OUTLETS @ 150 PSI	5	10
REDUCED PRESSURE		
1 SERVICE OUTLETS @ 300 PSI	1	2
2 SERVICE OUTLETS @ 800 PSI	3	1
MEDIUM PRESSURE		
1 SERVICE OUTLETS @ 1800 PSI	NONE	NONE
MEDIUM TO HIGH PRESSURE		
1 SERVICE OUTLETS @ 1800 TO 3000 PSI (VARIABLE)	NONE	NONE
HIGH PRESSURE		
1 SERVICE OUTLETS @ 3000 PSI	NONE	NONE
TIRE CHANGING AIR		
1 SERVICE OUTLETS @	NONE	NONE

LPH-9 GUAM COMPRESSED AIR SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK

PLAN VIEW OF HANGAR DECK

LEGEND

- ◻ LOW PRESSURE AIR, 150 PSI
- REDUCED PRESSURE AIR, 800 PSI
- REDUCED PRESSURE AIR, 300 PSI

LPH-9 USS GUAM

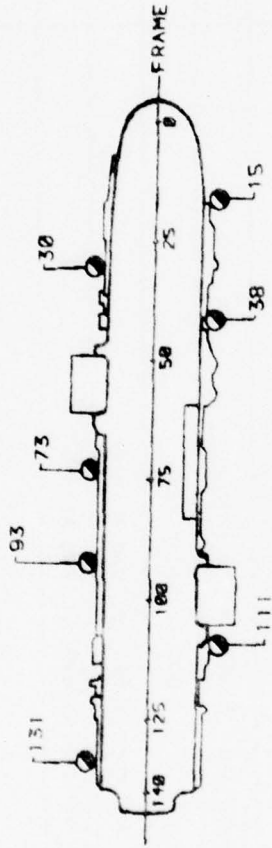
	<u>CATEGORY</u>	<u>PAGE NO.</u>
1	Aircraft Electrical Service Outlet Summary (400 Hz) Aircraft Electrical Service Outlet Layout (400 Hz)	1 2
2	Aircraft Electrical and Support Equipment Service Outlet Summary (28.5 VDC, 440 VAC)	3
	Aircraft Electrical and Support Equipment Service Outlet Layout (28.5 VDC, 440 VAC)	4
3	Aviation Fuel Service Summary Aviation Fuel Service Outlet Layout	5 6
4	Compressed Air Service Summary Compressed Air Service Outlet Layout	7 8
5	Combat Readiness Station Service Summary Combat Readiness Station Layout	N/A N/A
6	Oxygen and Nitrogen Service Summary Oxygen and Nitrogen Service Outlet Layout	N/A N/A
7	Aircraft Inertial Alignment Outlet Box Summary Aircraft Inertial Alignment Outlet Box Layout	N/A N/A
8	Aircraft Cooling and Starting Air Outlet Summary Aircraft Cooling and Starting Air Outlet Layout	N/A N/A

LATEST CHECK - AUGUST 1975

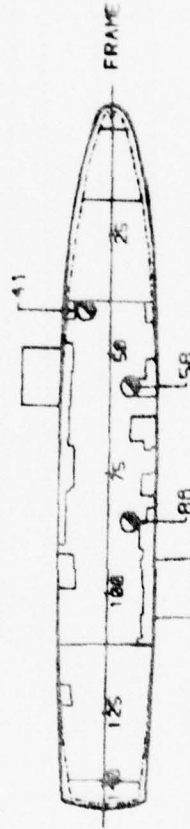
USS GUADALCANAL



LPH-7 GUADALCANAL AIRCRAFT ELECTRICAL SERVICE OUTLET LAYOUT (400HZ)



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND

● 400HZ, 3PH, 115/200VAC, 30KVA TYPE III

LPH-7 USS GUADALCANAL

A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET SUMMARY

440 VAC SUPPORT EQUIPMENT SERVICE  
28 5 VDC A/C SERVICE AND START

140 VAC SUPPORT EQUIPMENT SERVICE

1 440 VAC 60Hz, 3PH, 25 AMP

2 440 VAC, 60Hz, 3PH, 60 AMP

3 440 VAC, 60Hz, 3PH, 100 AMP

28 5 VDC A/C SERVICE AND START

1 28 5 VDC, 200 AMP Continuous

2 28 5 VDC, 300 AMP Cont, 000 to 000 A Inter

3 28 5 VDC, 000 AMP Cont, 000 to 000 A Inter

4 28 5 VDC, 300 AMP cont, 050 to 1000 A Inter

5 28 5 VDC, 050 AMP Cont, 050 to 1000 A Inter

FLT DK

7

NONE

NONE

NONE

7

NONE

NONE

NONE

HCR DK

3

NONE

NONE

NONE

3

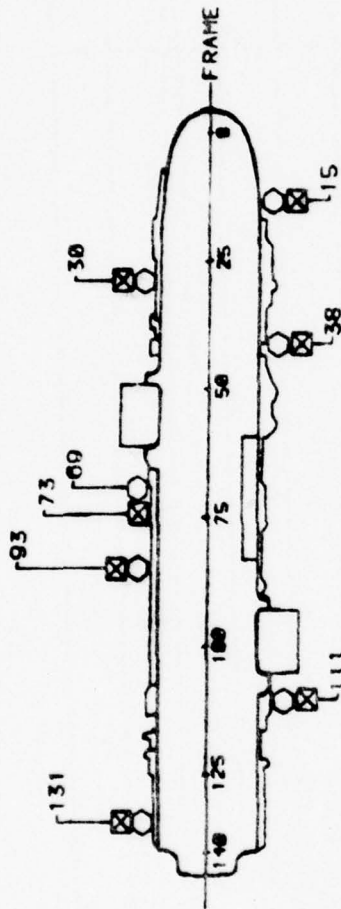
NONE

NONE

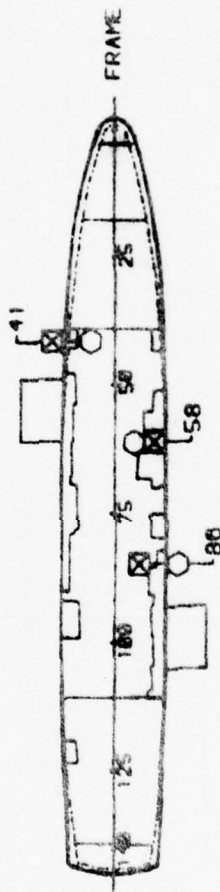
NONE

PH-7 GUADALCANAL A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET LAYOUT

NAEC-ENG-6785 REV 14  
PAGE 12-7-4



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND

- 440VAC, 60HZ, 3PH, 25AMP
- ⊗ 28 5VDC, 300AMP CONT, 600-800A INTER

LPH-7 USS GUADALCANAL

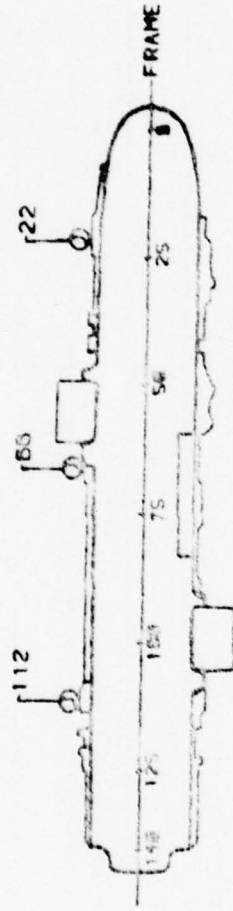
AVIATION FUEL SERVICE

AVIATION GASOLINE AND JP-5

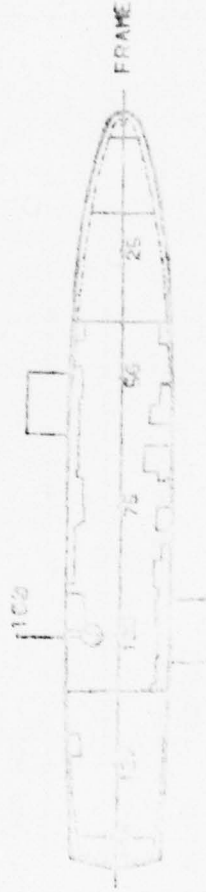
	AV/CAS	JP-5
1 CAPACITY GAL 95X	NONE	280,000
2 SERVICE OUTLETS		FLY DK 3 MGR DK 1
3 HOSES PER OUTLET		2
4 SERVICE OUTLET CAPACITY, GPM/PSI		NOTE 1
a. TWO OUTLETS OPERATING		100/45
b. FOUR OUTLETS OPERATING		100/45
c. SIX OUTLETS OPERATING		100/45
5 DEFUELING CAPACITY PER SERVICE OUTLET GPM		50
6 DEFUELING CAPACITY PER PORTABLE PUMP GPM		25

NOTES:  
1 1-1/2" HOSE JP-5

LPH-7 GUADALCANAL AVIATION FUEL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
⊙ JP-5

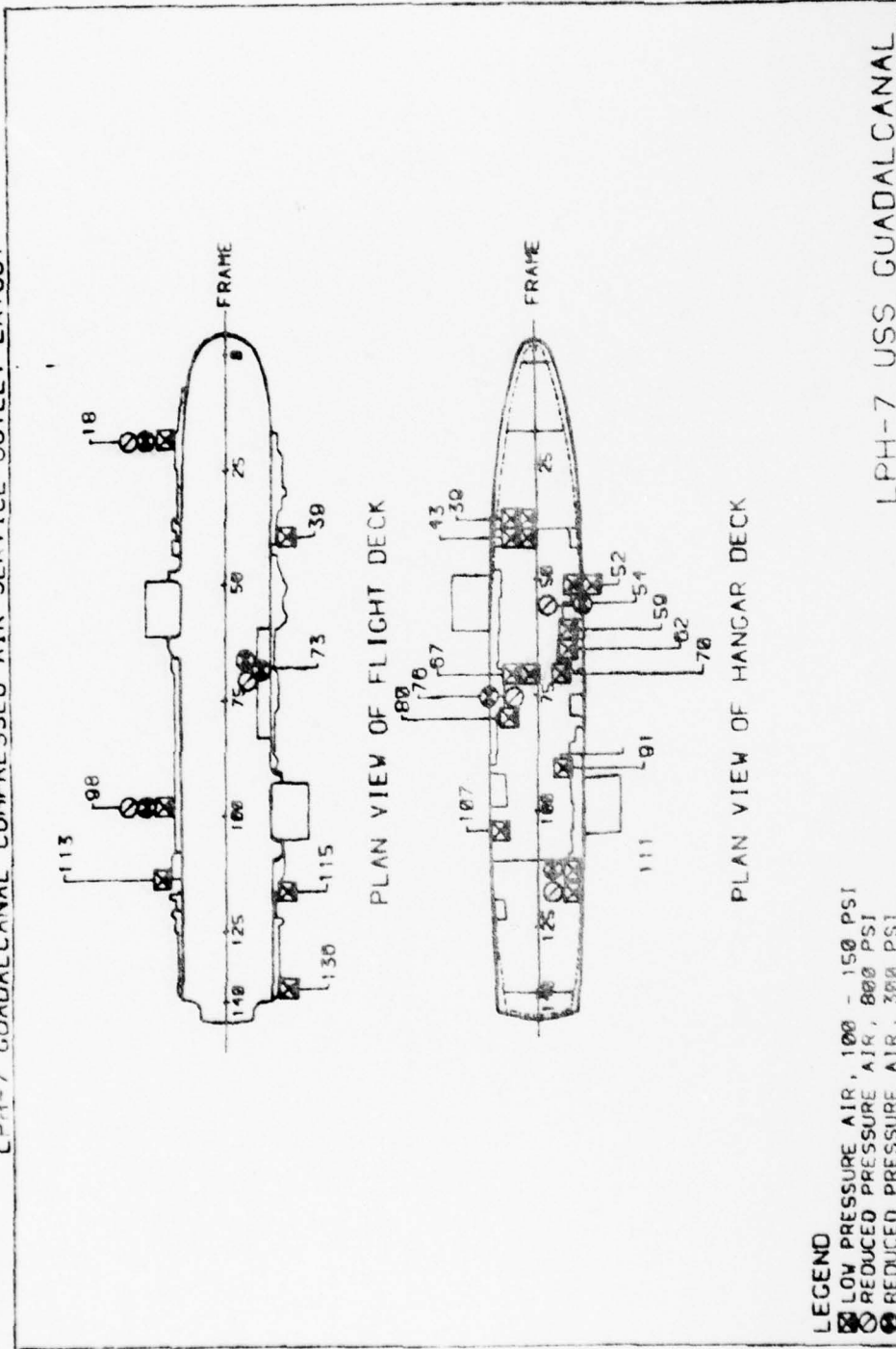
LPH-7 USS GUADALCANAL

COMPRESSED AIR SERVICE SUMMARY

COMPRESSED AIR

LOW PRESSURE	FLT DK	MGR DK
1 SERVICE OUTLETS @ 100 - 150 PSI	6	10
REDUCED PRESSURE		
1 SERVICE OUTLETS @ 800 PSI	3	3
MEDIUM PRESSURE		
1 SERVICE OUTLETS @ 1800 PSI	NONE	NONE
MEDIUM TO HIGH PRESSURE		
1 SERVICE OUTLETS @ 1800 TO 3600 PSI (VARIABLE)	NONE	NONE
HIGH PRESSURE		
1 SERVICE OUTLETS @ 3600 PSI	NONE	NONE
TIRE CHANGING AIR		
1 SERVICE OUTLETS @ 300 PSI	4	3

LPH-7 GUADALCANAL COMPRESSED AIR SERVICE OUTLET LAYOUT



PAGE NO.

CATEGORY

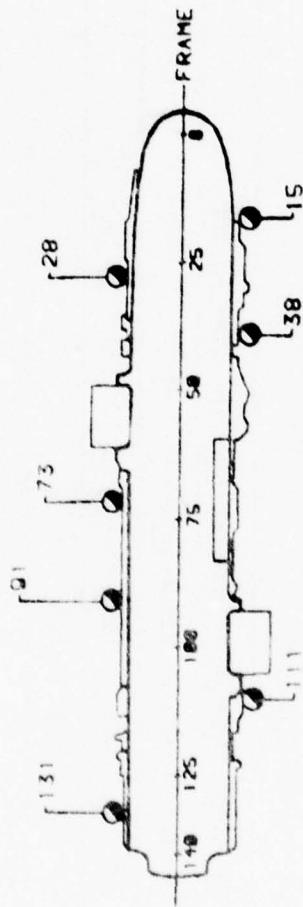
1	Aircraft Electrical Service Outlet Summary (400 Hz)	1
	Aircraft Electrical Service Outlet Layout (400 Hz)	2
2	Aircraft Electrical and Support Equipment Service Outlet Summary (28.5 VDC, 440 VAC)	3
	Aircraft Electrical and Support Equipment Service Outlet Layout (28.5 VDC, 440 VAC)	4
3	Aviation Fuel Service Summary	5
	Aviation Fuel Service Outlet Layout	6
4	Compressed Air Service Summary	7
	Compressed Air Service Outlet Layout	8
5	Combat Readiness Station Service Summary	N/A
	Combat Readiness Station Layout	N/A
6	Oxygen and Nitrogen Service Summary	N/A
	Oxygen and Nitrogen Service Outlet Layout	N/A
7	Aircraft Inertial Alignment Outlet Box Summary	N/A
	Aircraft Inertial Alignment Outlet Box Layout	N/A
8	Aircraft Cooling and Starting Air Outlet Summary	N/A
	Aircraft Cooling and Starting Air Outlet Layout	N/A

LATEST CHECK - AUGUST 1978

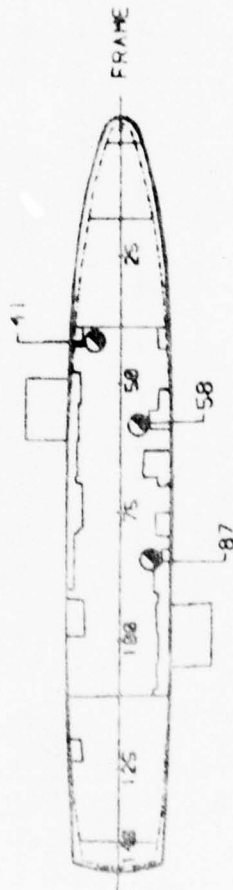
USS OKINAWA



LPH-3 OKINAWA AIRCRAFT ELECTRICAL SERVICE OUTLET LAYOUT (400HZ)



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

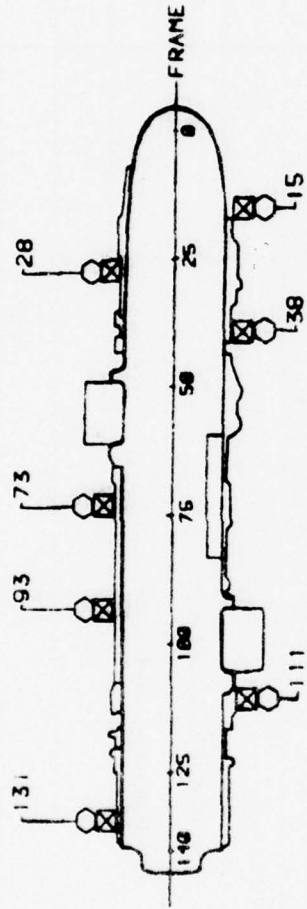
LEGEND

● 400HZ, 3PH, 115/200VAC, 30KVA, TYPE 111

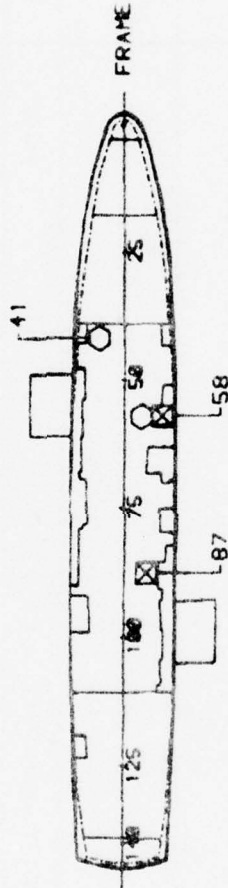
LPH-3 USS OKINAWA



LPH-3 OKINAWA A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND

○ 140VAC, 60HZ, 3PH, 25AMP

⊗ 28 SVDC, 300AMP CONT 600-800A INTER

LPH-3 USS OKINAWA

AVIATION FUEL SERVICE

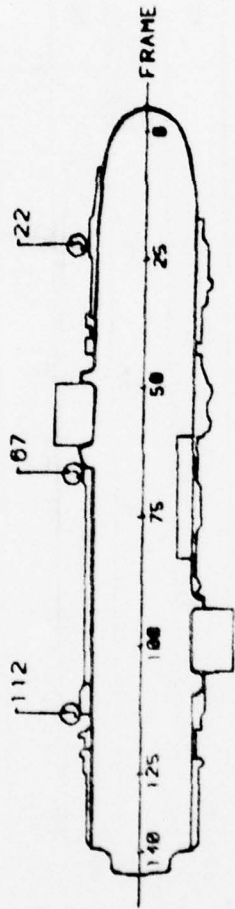
AVIATION GASOLINE AND JP-5

	AV/GAS	JP-5
1 CAPACITY GAL Q5X	NONE	280,000
2 SERVICE OUTLETS	NONE	FLT DK 3 HGR DK 1
3 HOSES PER OUTLET	NONE	2
4 SERVICE OUTLET CAPACITY, GPM/PSI	NOTE 1	200/45
a TWO OUTLETS OPERATING	NONE	200/45
b FOUR OUTLETS OPERATING	NONE	200/45
c SIX OUTLETS OPERATING	NONE	N/A
5 DEFUELING CAPACITY PER SERVICE OUTLET GPM	NONE	30
6 DEFUELING CAPACITY PER PORTABLE PUMP GPM	NONE	N/A

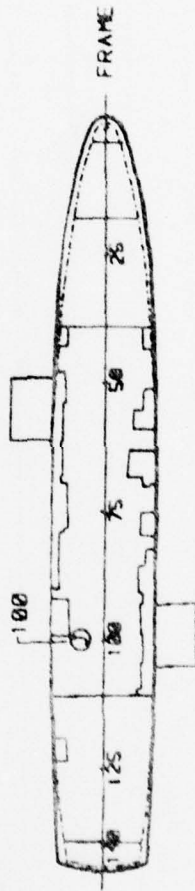
NOTES

1 1-1/2" HOSE JP-5

LPH-3 OKINAWA AVIATION FUEL OUTLET SERVICE LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
⊙ JP-5

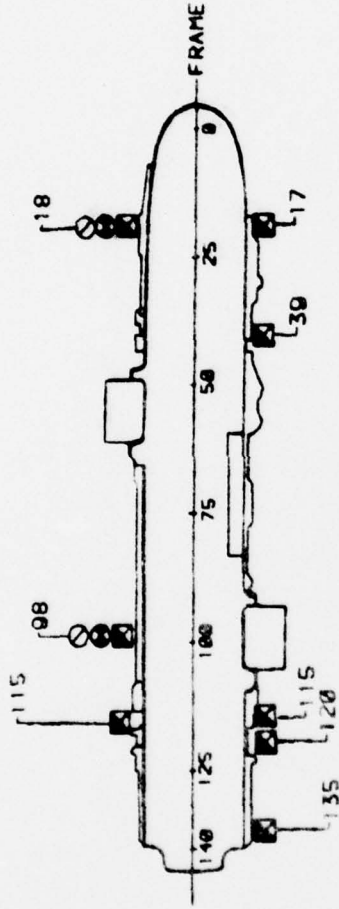
LPH-3 USS OKINAWA

COMPRESSED AIR SERVICE SUMMARY

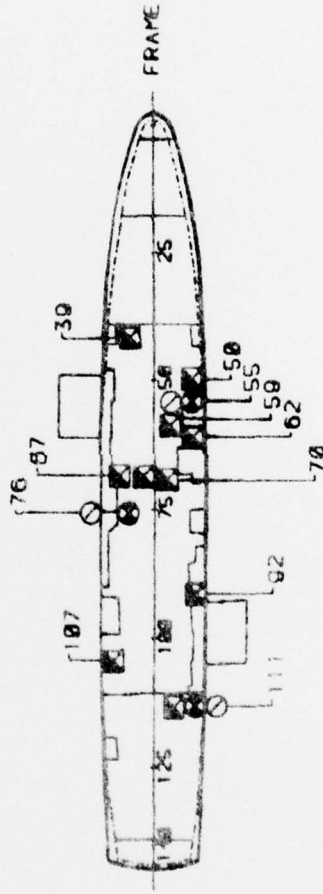
COMPRESSED AIR

LOW PRESSURE	FLT DK	HGR DK
1 SERVICE OUTLETS @ 150 PSI	8	10
REDUCED PRESSURE		
1 SERVICE OUTLETS @ 800 PSI	2	3
SERVICE OUTLETS @ 300 PSI	2	3
MEDIUM PRESSURE		
1 SERVICE OUTLETS @ 1800 PSI	NONE	NONE
MEDIUM TO HIGH PRESSURE		
1 SERVICE OUTLETS @ 1800 TO 3000 PSI (VARIABLE)	NONE	NONE
HIGH PRESSURE		
1 SERVICE OUTLETS @ 3000 PSI	NONE	NONE
TIRE CHANGING AIR		
1 SERVICE OUTLETS @	NONE	NONE

LPH-3 OKINAWA COMPRESSED AIR SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND

- ☐ LOW PRESSURE AIR, 150 PSI
- ⊗ REDUCED PRESSURE AIR, 800 PSI
- ⊙ REDUCED PRESSURE AIR, 300 PSI

LPH-3 USS OKINAWA

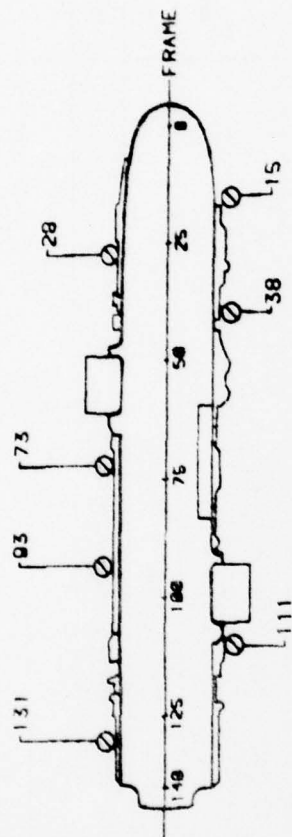
	<u>CATEGORY</u>	<u>PAGE NO.</u>
1	Aircraft Electrical Service Outlet Summary (400 Hz)	1
	Aircraft Electrical Service Outlet Layout (400 Hz)	2
2	Aircraft Electrical and Support Equipment Service Outlet Summary (28.5 VDC, 440 VAC)	3
	Aircraft Electrical and Support Equipment Service Outlet Layout (28.5 VDC, 440 VAC)	4
3	Aviation Fuel Service Summary	5
	Aviation Fuel Service Outlet Layout	6
4	Compressed Air Service Summary	7
	Compressed Air Service Outlet Layout	8
5	Combat Readiness Station Service Summary	N/A
	Combat Readiness Station Layout	N/A
6	Oxygen and Nitrogen Service Summary	N/A
	Oxygen and Nitrogen Service Outlet Layout	N/A
7	Aircraft Inertial Alignment Outlet Box Summary	N/A
	Aircraft Inertial Alignment Outlet Box Layout	N/A
8	Aircraft Cooling and Starting Air Outlet Summary	N/A
	Aircraft Cooling and Starting Air Outlet Layout	N/A

LATEST CHECK - MAY 1972

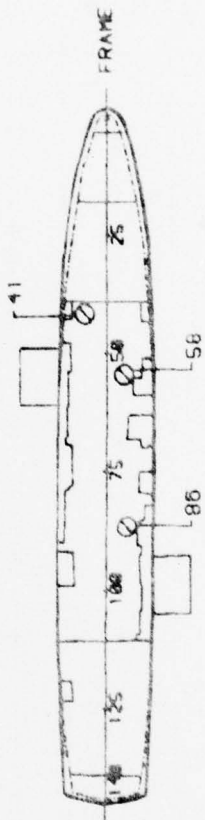
USS IWO JIMA



LPH-2 IWO JIMA AIRCRAFT ELECTRICAL SERVICE OUTLET LAYOUT (400HZ)



PLAN VIEW OF FLIGHT DECK



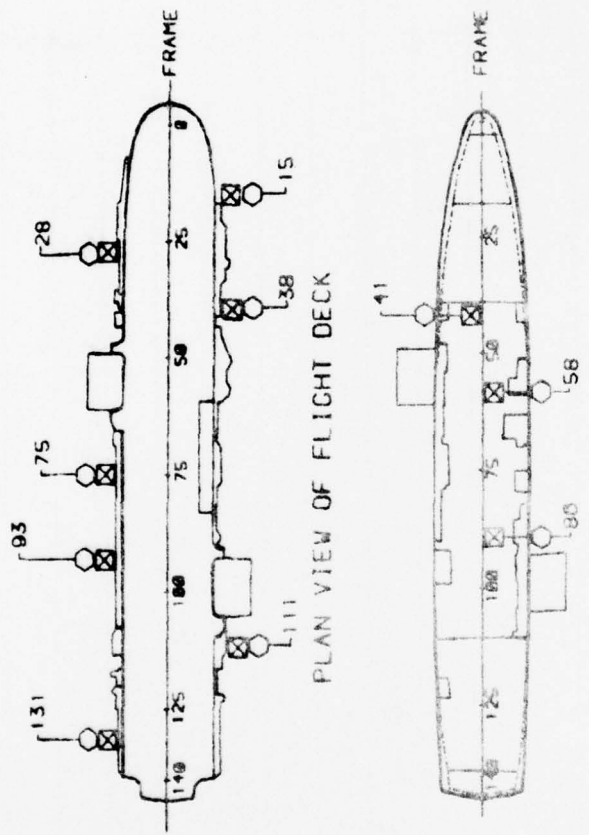
PLAN VIEW OF HANGAR DECK

LEGEND  
○ 100HZ, 3PH, 115/200VAC, 30KVA, TYPE I

LPH-2 IWO JIMA



LPH-2 IWO JIMA A/C START AND SUPPORT EQUIPMENT ELECTRICAL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK

PLAN VIEW OF HANGAR DECK

LEGEND  
 ○ 440VAC, 60HZ, 3PH, 25AMP  
 ◻ 26 5VDC, 300AMP CONT 600-9028A INTER

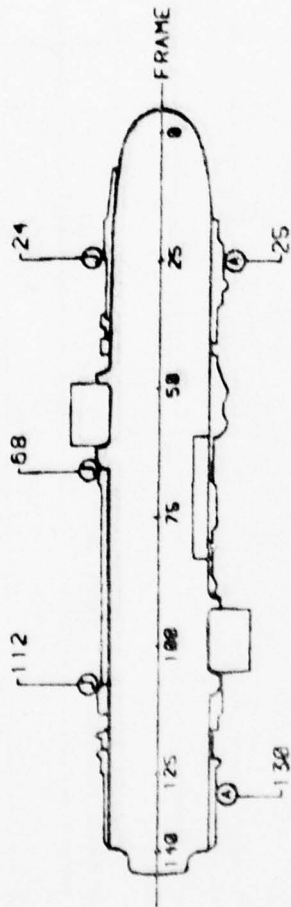
LPH-2 USS IWO JIMA

AVIATION FUEL SERVICE

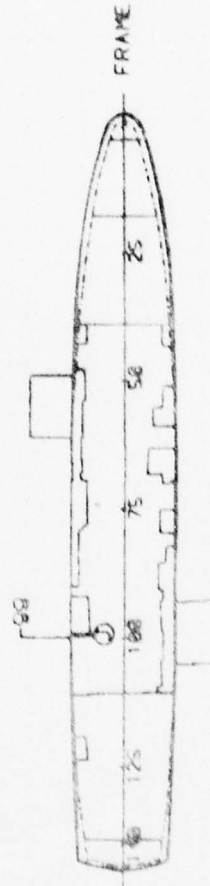
AVIATION GASOLINE AND JP-5

	AV/GAS	JP-5
1 CAPACITY GAL 95*	260 ,412	200 ,835
2 SERVICE OUTLETS	FLT DK 2 HCR DK 0	FLT DK 3 HCR DK 1
3 HOSES PER OUTLET	2	2
4 SERVICE OUTLET CAPACITY, GPM/PSI	100/35	100/35
a TWO OUTLETS OPERATING	100/35	100/35
b FOUR OUTLETS OPERATING	100/35	100/35
c SIX OUTLETS OPERATING	N/A	100/35
5 DEFUELING CAPACITY PER SERVICE OUTLET GPM	50	50
6 DEFUELING CAPACITY PER PORTABLE PUMP GPM	25	25
NOTES		
1 1 1/2" HOSE AV/GAS, 2 1/2" HOSE JP-5 EXCEPT FR 24 FLT DK & FR 90 HCR DK - 1 1/2" HOSE JP-5		

LPH-2 IWO JIMA AVIATION FUEL SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND  
① AV/GAS  
② JP-5

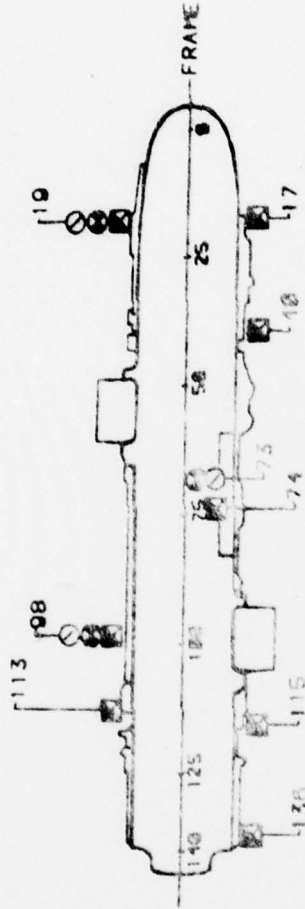
LPH-2 IWO JIMA

COMPRESSED AIR SERVICE SUMMARY

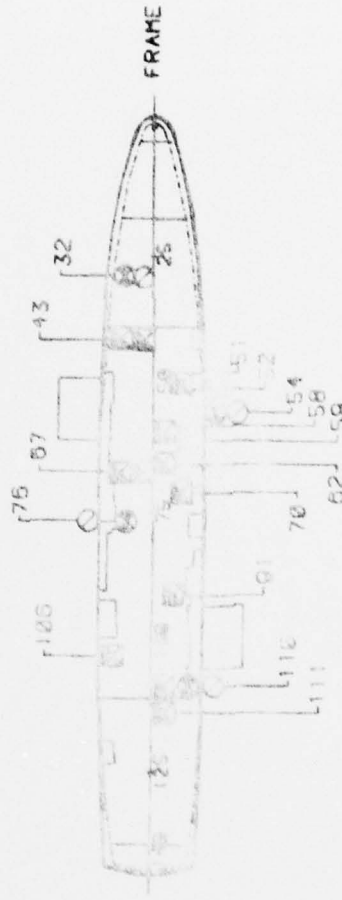
COMPRESSED AIR

	FLT DK	HGR DK
LOW PRESSURE		
1 SERVICE OUTLETS @ 150 PSI	8	14
REDUCED PRESSURE		
1 SERVICE OUTLETS @ 300 PSI	3	4
2 SERVICE OUTLETS @ 800 PSI	3	4
MEDIUM PRESSURE		
1 SERVICE OUTLETS @ 1800 PSI	NONE	NONE
MEDIUM TO HIGH PRESSURE		
1 SERVICE OUTLETS @ 1800 TO 3000 PSI (VARIABLE)	NONE	NONE
HIGH PRESSURE		
1 SERVICE OUTLETS @ 3000 PSI	NONE	NONE
TIRE CHANGING AIR		
1 SERVICE OUTLETS @	NONE	NONE

LPH-2 IWO JIMA COMPRESSED AIR SERVICE OUTLET LAYOUT



PLAN VIEW OF FLIGHT DECK



PLAN VIEW OF HANGAR DECK

LEGEND

- LOW PRESSURE AIR, 150PSI
- ⊗ REDUCED PRESSURE AIR, 800PSI
- ⊙ REDUCED PRESSURE AIR, 300PSI

LPH-2 USS IWO JIMA

