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COAST GUARD RESEARCH AND DEVELOPMENT CENTER GROTON CT F/G 13/12
USCG R AND D CENTER RECREATIONAL BOATING SAFETY TEST BOAT DOCUM--ETC(U)
NOV 78 R SECREST, R YOUNG, R CASTRONOVA

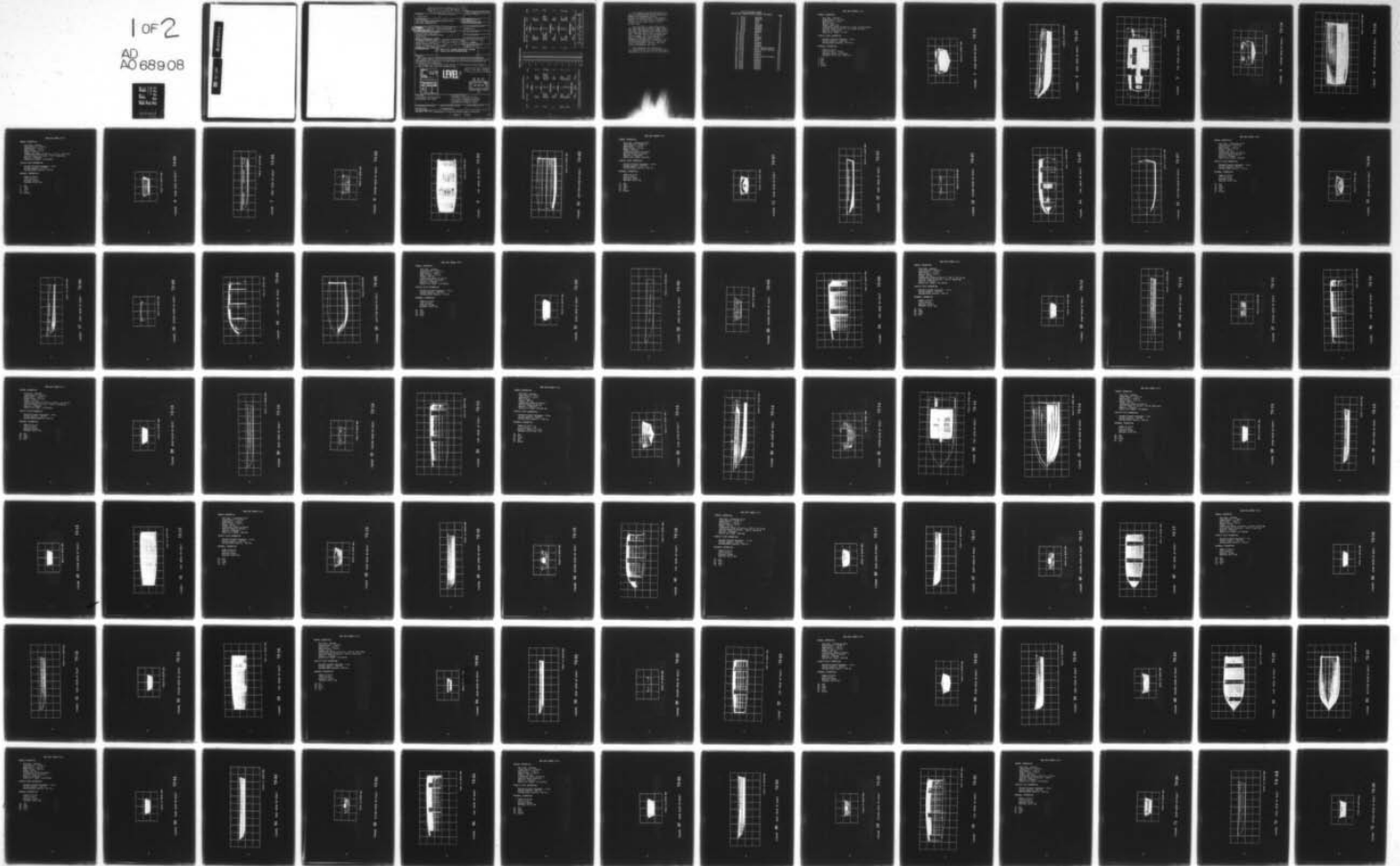
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(18) 2526 (19) D-44-79

1. Report No. CG-D-11-79	2. Government Accession No.	3. Recipient's Catalog No.																		
4. Title and Subtitle USCG R&D CENTER RECREATIONAL BOATING SAFETY TEST BOAT DOCUMENTATION	5. Report Date November 1978	6. Performing Organization Code																		
7. Author(s) P. Secret, R. Young, R. Castronova and R. Breitenstein	8. Performing Organization Report No. CGR&DC 3/79	9. Work Unit No. (TRAIS)																		
10. Performing Organization Name and Address United States Coast Guard Research and Development Center Avery Point Groton, Connecticut 06340	11. Contract or Grant No.	12. Type of Report and Period Covered Final Report																		
12. Sponsoring Agency Name and Address Department of Transportation United States Coast Guard Office of Research and Development Washington, DC 20590	13. Sponsoring Agency Code G DSA-2	14. Supplementary Notes USCG R and D Center Recreational Boating Safety Test Boat Documentation.																		
15. Abstract Test boats used in the Coast Guard R&D Center's Recreational Boating Safety Safe Loading research project are documented both narratively and photographically. Photographs are to scale on a 1/2 meter grid, so that accurate measurements can be taken off the photographs. This document is for use with other reports of recreational boating research in which these test boats are referenced.																				
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A	:																			
17. Key Words recreational boating safety, safeloading, test boats	18. Distribution Statement Document is available to the U.S. public through the National Technical Information Service, Springfield, Virginia 22161																			
19. Security Classif. (of this report) UNCLASSIFIED	20. Security Classif. (of this page) UNCLASSIFIED	21. No. of Pages 22. Price																		

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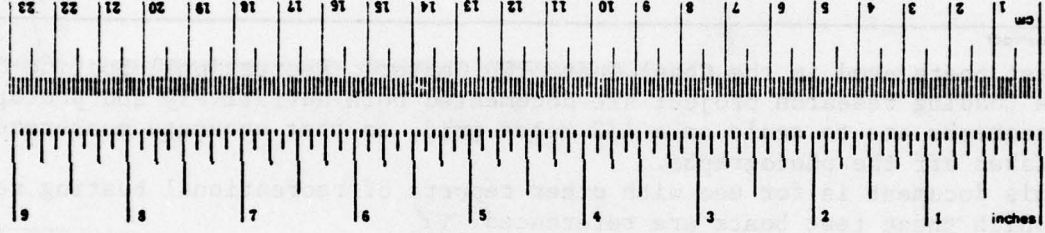
METRIC CONVERSION FACTORS

Approximate Conversions to Metric Measures

Symbol	When You Know	Multiply by	To Find	Symbol
LENGTH				
in	inches	2.5	centimeters	cm
ft	feet	30	centimeters	cm
yd	yards	0.9	meters	m
mi	miles	1.6	kilometers	km
AREA				
in ²	square inches	6.5	square centimeters	cm ²
ft ²	square feet	0.09	square meters	m ²
yd ²	square yards	0.8	square meters	m ²
mi ²	square miles	2.6	square kilometers	km ²
	acres	0.4	hectares	ha
MASS (weight)				
oz	ounces	28	grams	g
lb	pounds	0.45	kilograms	kg
	short tons (2000 lb)	0.9	tonnes	t
VOLUME				
tsp	teaspoons	5	milliliters	ml
Tabsp	tablespoons	15	milliliters	ml
fl oz	fluid ounces	30	milliliters	ml
c	cups	0.24	liters	l
pt	pints	0.47	liters	l
qt	quarts	0.95	liters	l
gal	gallons	3.8	liters	l
ft ³	cubic feet	0.03	cubic meters	m ³
yd ³	cubic yards	0.76	cubic meters	m ³
TEMPERATURE (exact)				
°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C

Approximate Conversions from Metric Measures

When You Know	Multiply by	To Find	Symbol
LENGTH			
millimeters	0.04	inches	in
centimeters	0.4	inches	in
meters	3.3	feet	ft
meters	1.1	yards	yd
kilometers	0.6	miles	mi
AREA			
square centimeters	0.16	square inches	in ²
square meters	1.2	square yards	yd ²
square kilometers	0.4	square miles	mi ²
hectares (10,000 m ²)	2.5	acres	ac
MASS (weight)			
grams	0.035	ounces	oz
kilograms	2.2	pounds	lb
tonnes (1000 kg)	1.1	short tons	st
VOLUME			
milliliters	0.03	fluid ounces	fl oz
liters	2.1	pints	pt
liters	1.06	quarts	qt
liters	0.26	gallons	gal
cubic meters	35	cubic feet	ft ³
cubic meters	1.3	cubic yards	yd ³
TEMPERATURE (exact)			
°C	Celsius temperature	9/5 (then add 32)	Fahrenheit temperature



* 1 m = 2.54 (exactly). For other exact conversions and more detailed tables, see NBS Misc. Publ. 286, Units of Weights and Measures, Price \$2.25, SD Catalog No. C13.10-286.

This document contains photographs, to scale, of boats used by the U.S. Coast Guard Research and Development Center's Recreational Boating Safety - Safe Loading Project. It is to be used as a reference in conjunction with other reports in this project area.

Each test boat is numbered by fiscal year purchased and consecutive number within that year. For example, Boat Number 73-18 is the eighteenth boat purchases in fiscal year 1973. For each boat in this document there are five pages. The first page provides general information, capacity plate information and motorwell information. The following four pages consist of scaled and guided photographs of the bow, side, top, stern, and bottom of each boat.

The photographs are mounted on a half-meter grid, so that accurate test boat measurements can be taken off the photographs.

LIST OF USCG R&D CENTER
RECREATIONAL BOATING SAFETY PROJECT TEST BOATS

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R&DC BOAT NUMBERS 73-18

GENERAL INFORMATION

Boat Type - Bowrider
Length Overall - 15.18 ft.
Beam Overall - 5.9 ft.
Beam at Chine
Weight - 820.8 lbs.
Longitudinal Center of Gravity - 72.54 in from transom
Vertical Center of Gravity - 18 inches from keel
Material - Fiberglass
General Hull Shape - Tri-Hull

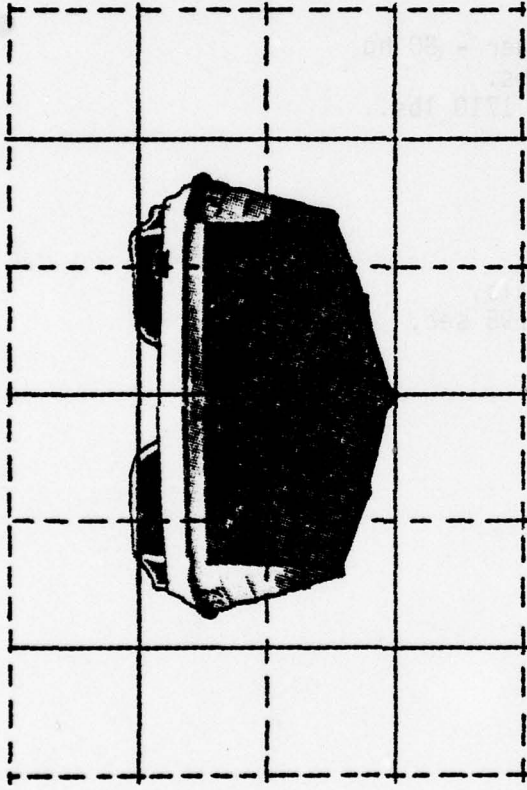
CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 80 hp
Persons Capacity - 1260 lbs.
Maximum Weight Capacity - 1710 lbs.

MOTORWELL INFORMATION

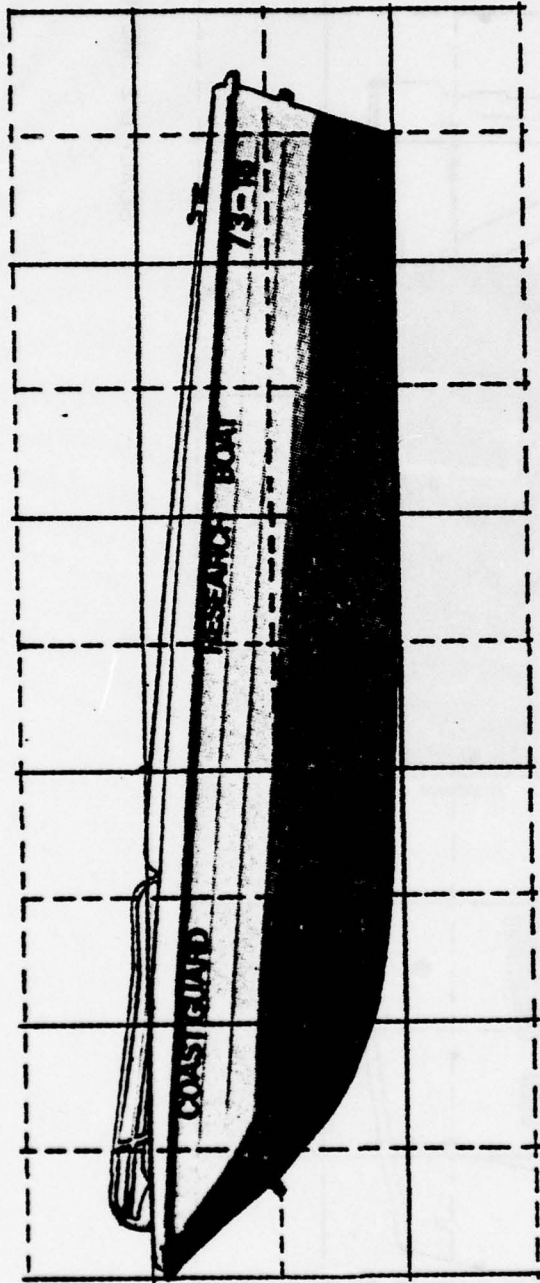
Number of Drains
Size of Drains - 15/16"
Motorwell Volume - 7.58 gals.
Motorwell Drain Time - 49.95 sec.

1. Bow
2. Side
3. Top
4. Stern
5. Bottom



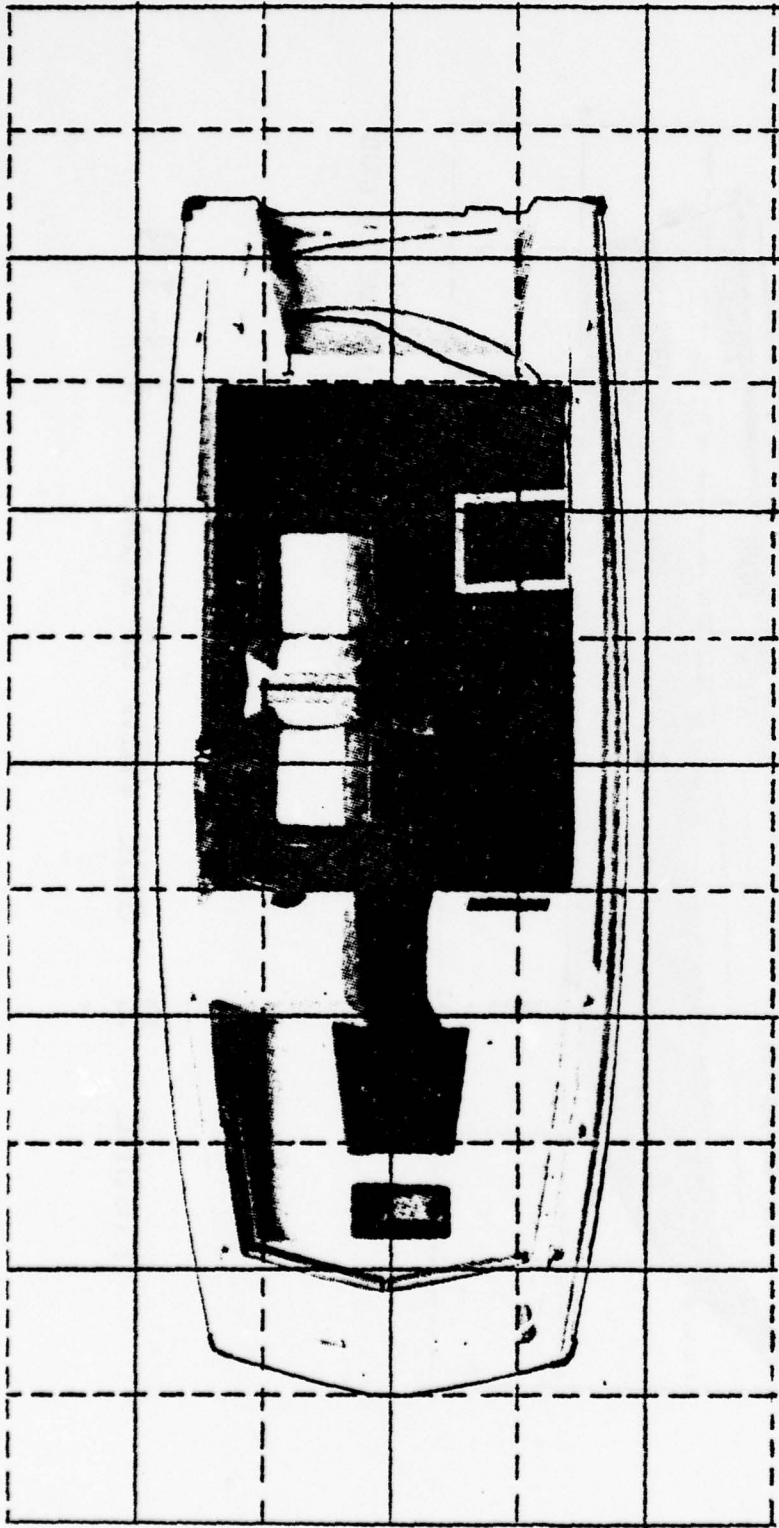
SCALE: 1/2 METER GRID

FIGURE 1 BOW VIEW OF BOAT 73-18



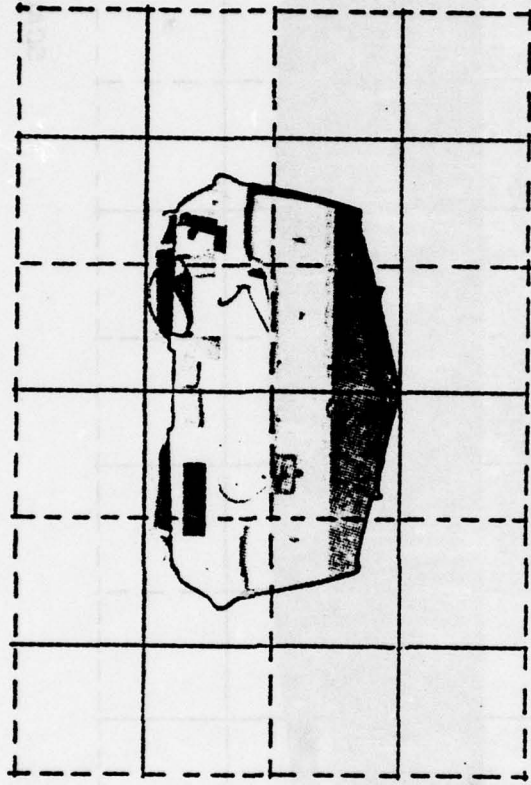
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FIGURE 2 SIDE VIEW OF BOAT 73-18



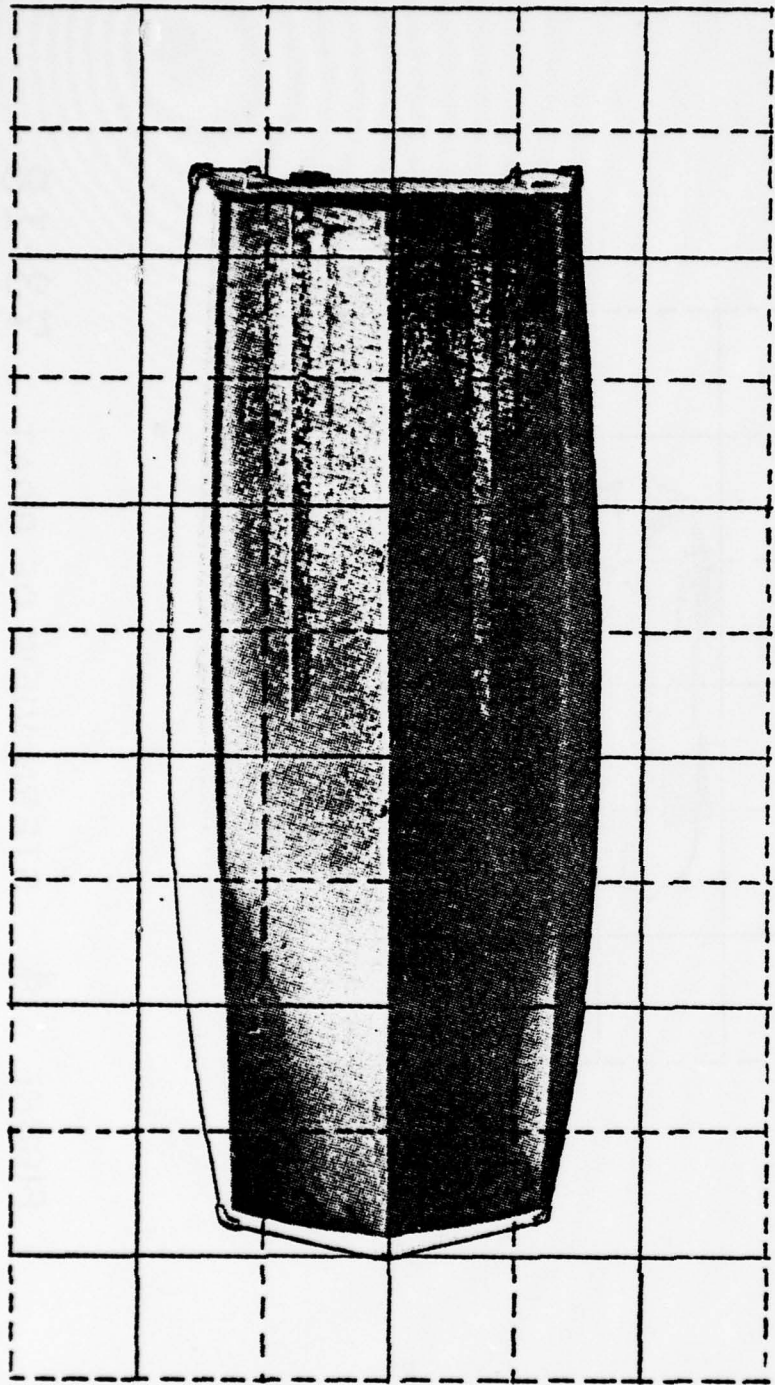
SCAL: 1/2 METER GRID

FIGURE 3 TOP VIEW OF BOAT 73-18



SCALE: 1/2 METER GRID

FIGURE 4 STERN VIEW OF BOAT 73-18



SCALE: 1/2 METER GRID

FIGURE 5 BOTTOM VIEW OF BOAT 73-18

R&DC BOAT NUMBER 74-03

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 11.58 ft.
Beam Overall - 4.5 ft.
Beam at Chine - 3.4 ft.
Weight - 113 lbs.
Longitudinal Center of Gravity - 6.33 ft. aft of bow
Vertical Center of Gravity - .65 ft. above keel
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 10 hp
Persons Capacity - 570 lbs.
Maximum Weight Capacity - 570 lbs

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

6. Bow
7. Side
8. Stern
9. Top
10. Bottom

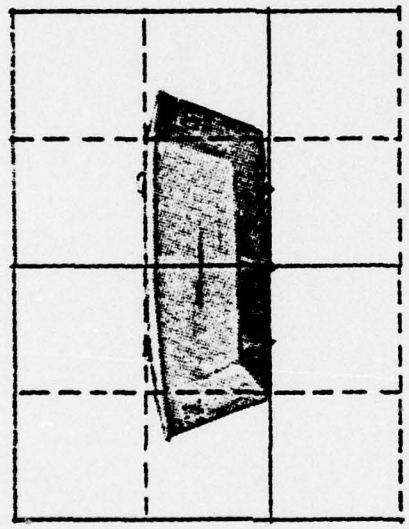


GENERAL INFORMATION

Boat Type - Jonboat
 Length Overall - 11.25 ft.
 Beam Overall - 4.5 ft.
 Beam at Gunwale - 3.4 ft.
 Weight - 113 lbs.
 Longitudinal Center of Gravity - 6.33 ft. aft of bow
 Vertical Center of Gravity - 18.5 ft. above keel
 Material - Aluminum
 Hull Shape - Flat Bottom

CAPACITY INFORMATION

Maximum Horsepower - 10 hp
 Maximum Capacity - 270 lbs.
 Maximum Weight Capacity - 270 lbs.

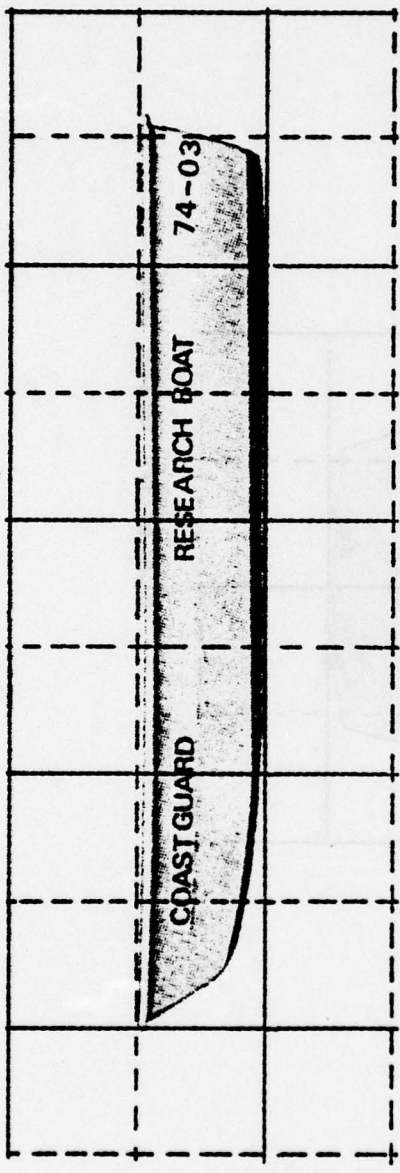


SCALE: 1/2 METER GRID

74-03

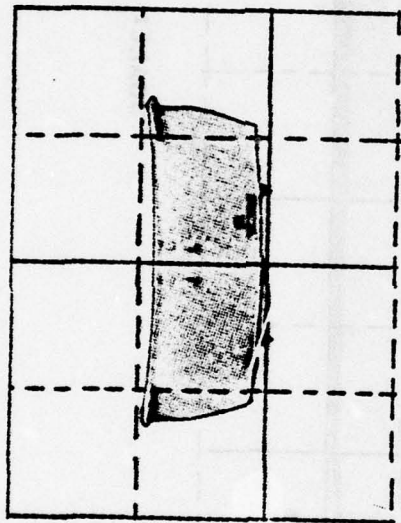
FIGURE 6 BOW VIEW OF BOAT

FIGURE 8 SIDE VIEW OF BOAT 74-03



SCALE: 1/2 METER GRID

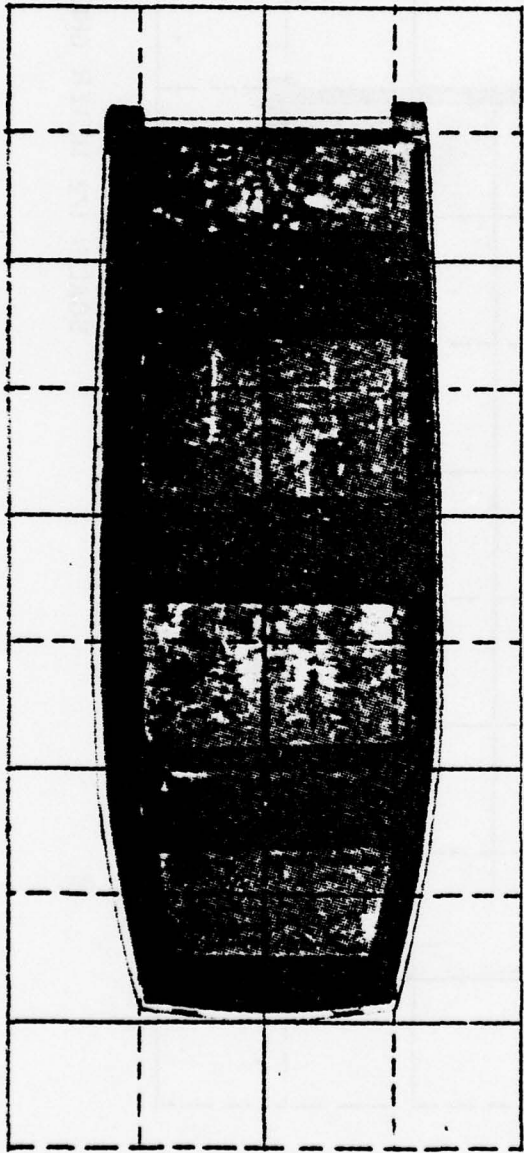
FIGURE 7 SIDE VIEW OF BOAT 74-03



SCALE: 1/2 METER GRID

FIGURE 8 STERN VIEW OF BOAT 74-03

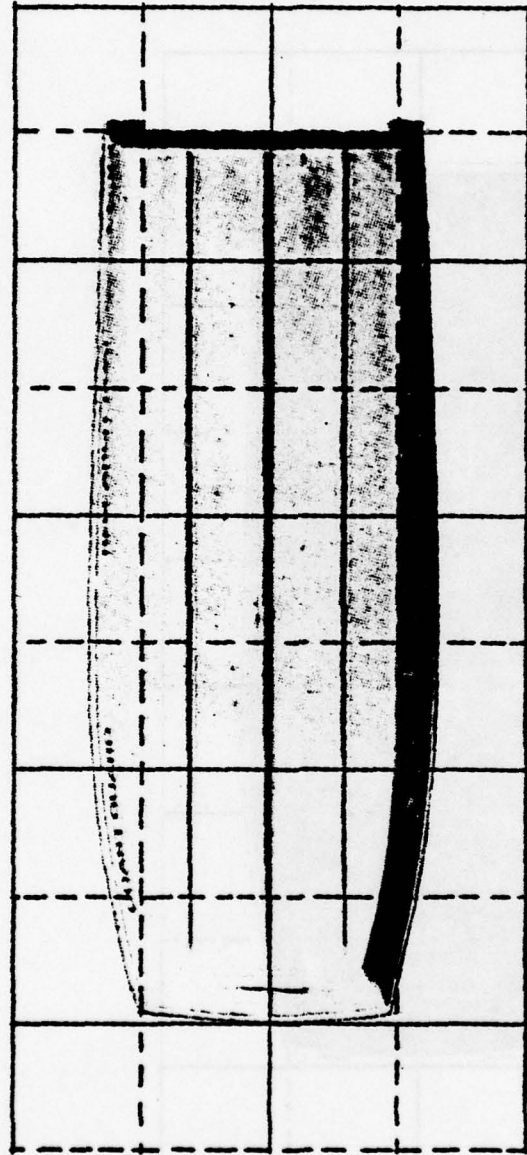
FIGURE 10 - FOLLOW ON VIEW OF BOAT 74-03



SCAL: 1/2 METER GRID

FIGURE 9 TOP VIEW OF BOAT 74-03

FIGURE 10 BOTTOM VIEW OF BOAT 74-03



SCALE: 1/2 METER GRID

FIGURE 10 BOTTOM VIEW OF BOAT 74-03

R&DC BOAT NUMBER 75-07

GENERAL INFORMATION

Boat Type - Lightweight Skiff
Length Overall - 12.06 ft.
Beam Overall - 4.12 ft.
Beam at Chine - 3.5 ft.
Weight - 140 lbs
Logitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Semi-Vee

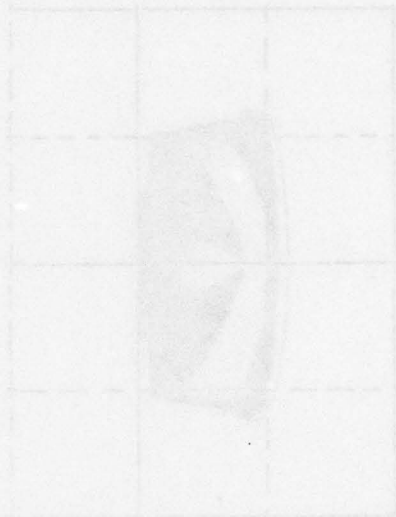
CAPACITY PLATE INFORMATION

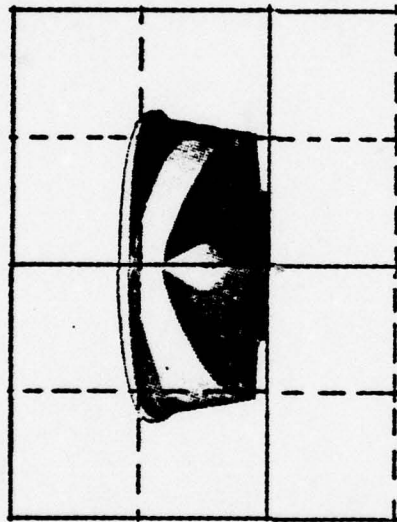
Maximum Allowable Horsepower - 10 hp
Persons Capacity - 450 lbs
Maximum Weight Capacity - 590 lbs

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

11. Bow
12. Side
13. Stern
14. Top
15. Bottom



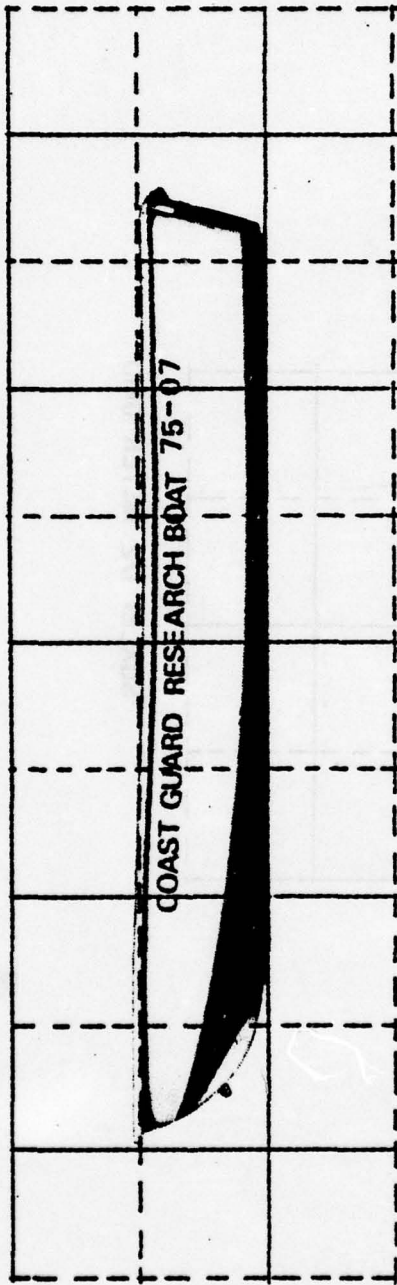


SCALE: 1/2 METER GRID

75-07

FIGURE 11 BOW VIEW OF BOAT

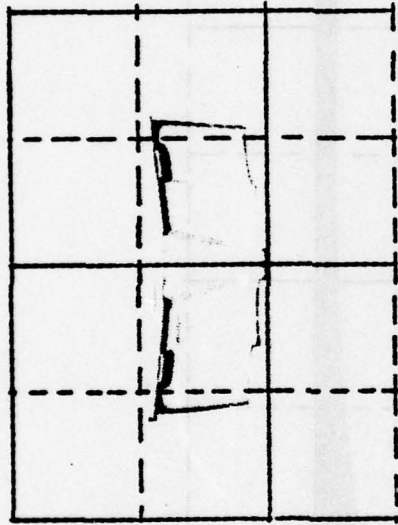
FIGURE 13 GLENN VIEW OF BOAT 75-07



SCALE: 1/2 METER GRID

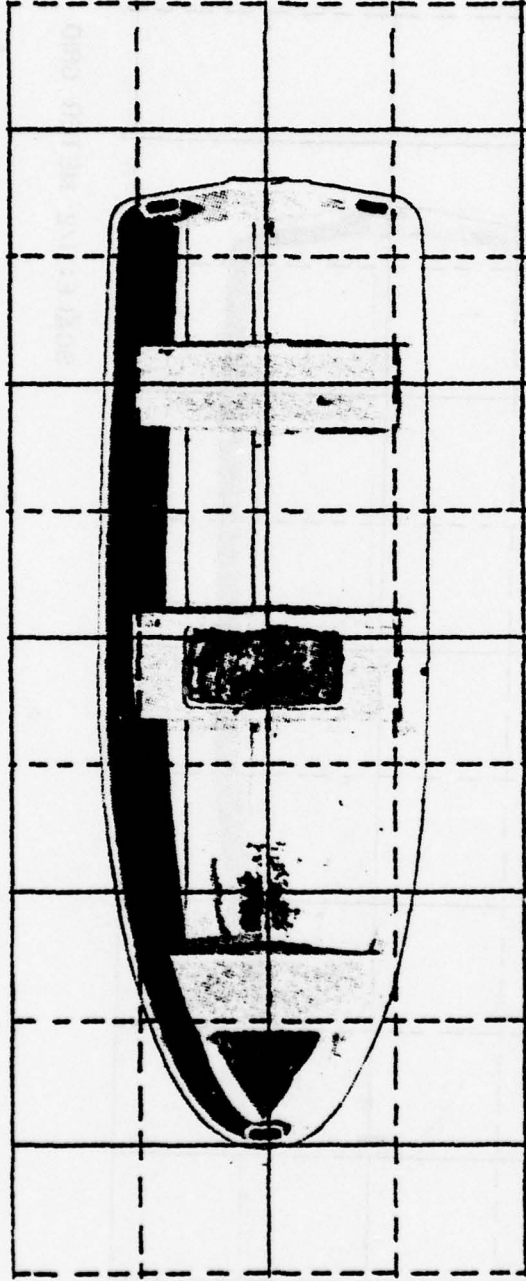
FIGURE 12 SIDE VIEW OF BOAT 75-07

FIGURE 13 SIDE VIEW OF BOAT 75-07



SCALE: 1/2 METER GRID

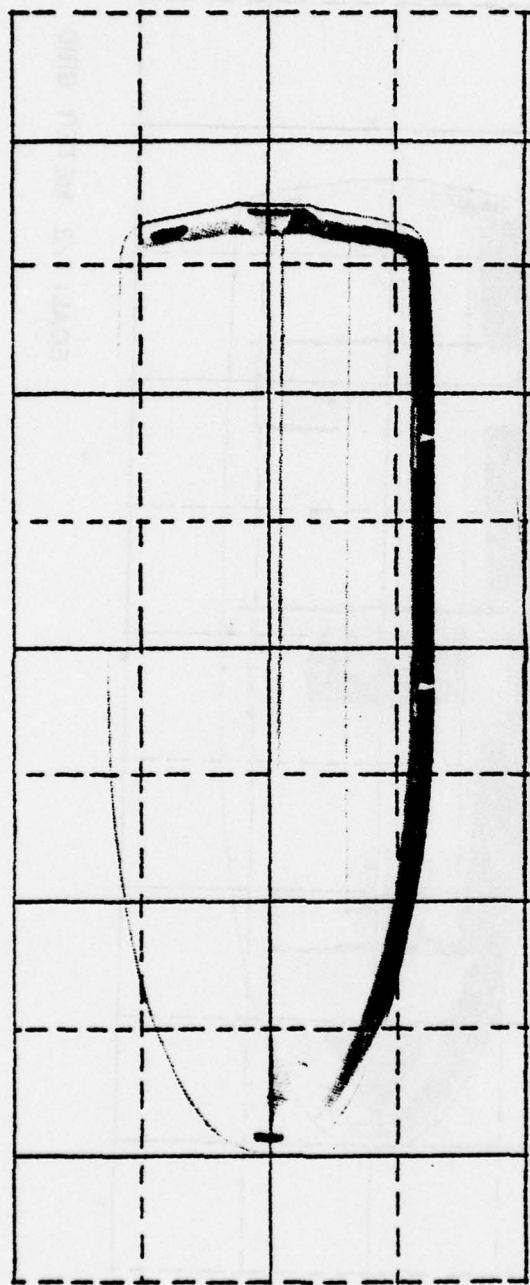
FIGURE 13 STERN VIEW OF BOAT 75-07



SCALE: 1/2 METER GRID

FIGURE 14 TOP VIEW OF BOAT 75-07

FIGURE 14 LOS ANGELES OF SOVIET 12-01



SCALE: 1/2 METER GRID

FIGURE 15 BOTTOM VIEW OF BOAT 75-07

R&DC BOAT NUMBER 75-08

GENERAL INFORMATION

Boat Type - Lightweight Skiff
Length Overall - 11.71 ft.
Beam Overall - 4.59 ft.
Beam at Chine - 3.7 ft.
Weight - 119 lbs
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Aluminum
General Hull Shape - Semi-Vee

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 10 hp
Persons Capacity - 450 lbs
Maximum Weight Capacity - 570 lbs

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

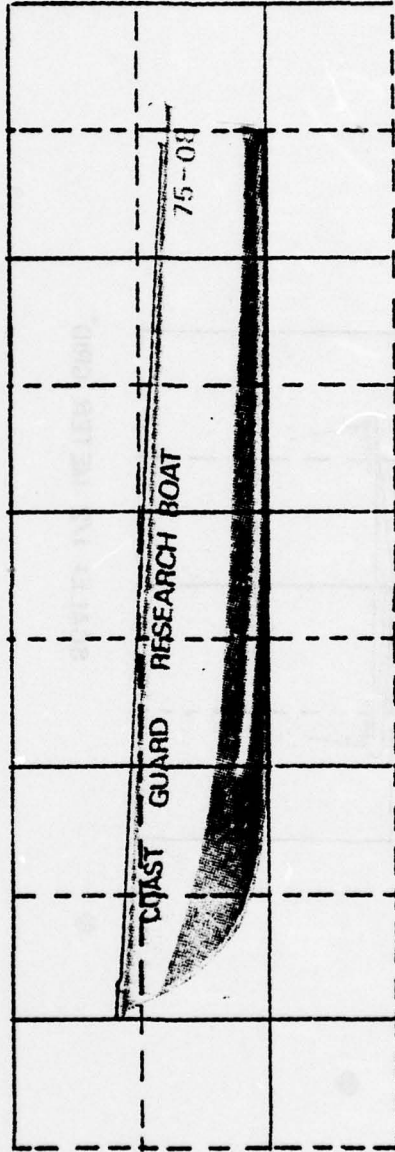
16. Bow
17. Side
18. Stern
19. Top
20. Bottom



SCALE: 1/2 METER GRID

FIGURE 16 BOW VIEW OF BOAT 75-08

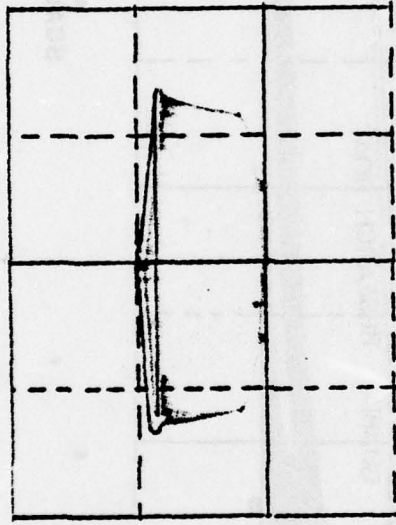
LICENCE 18 STEVEN VIEW OF BOAT 75-08



SCALE: 1/2 METER GRID

FIGURE 17 SIDE VIEW OF BOAT 75-08

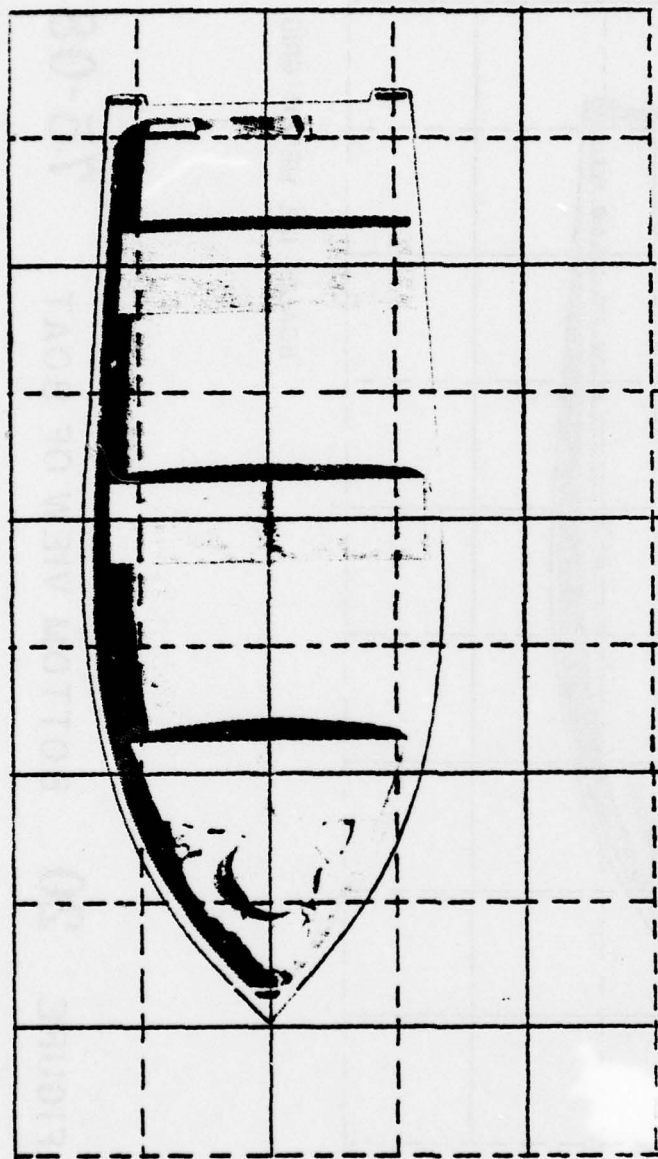
FIGURE 11 SIDE VIEW OF BOAT 75-08



SCALE: 1/2 METER GRID

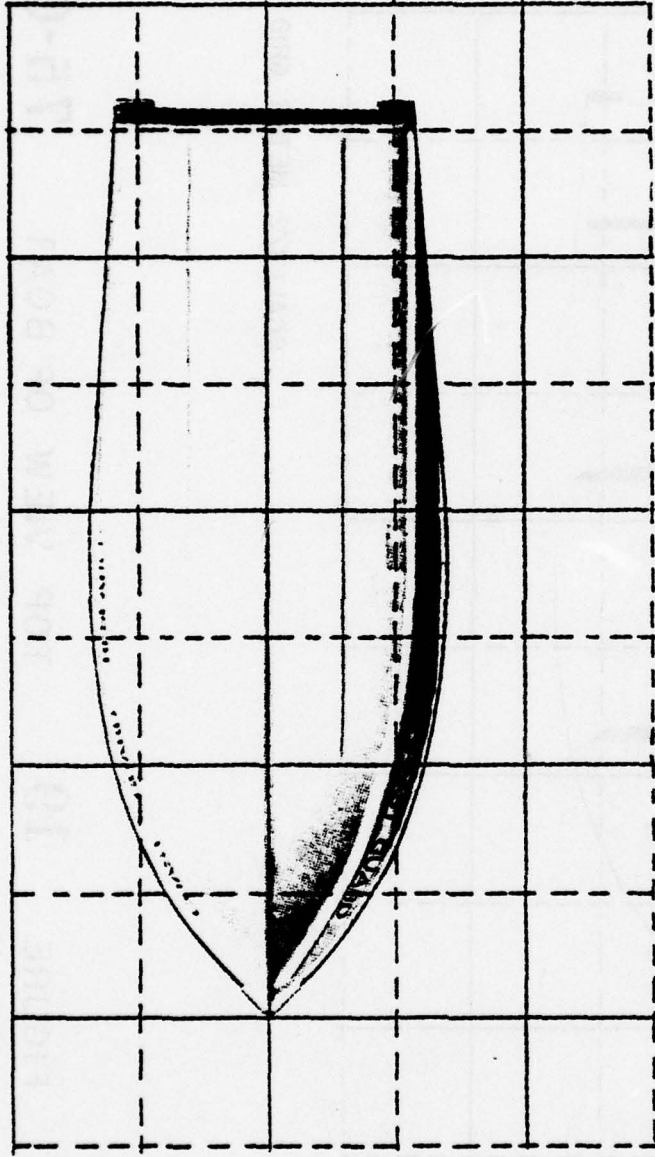
75-08

FIGURE 18 STERN VIEW OF BOAT



SCAL: 1/2 METER GRID

FIGURE 19 TOP VIEW OF BOAT 75-08



SCALE: 1/2 METER GRID

FIGURE 20 BOTTOM VIEW OF BOAT 75-08

R&DC BOAT NUMBER 75-09

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 13.97 ft.
Beam Overall - 5.08 ft.
Beam at Chine - 3.53 ft.
Weight - 206 lbs
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Aluminum
General Hull Shape - Flat-Bottom

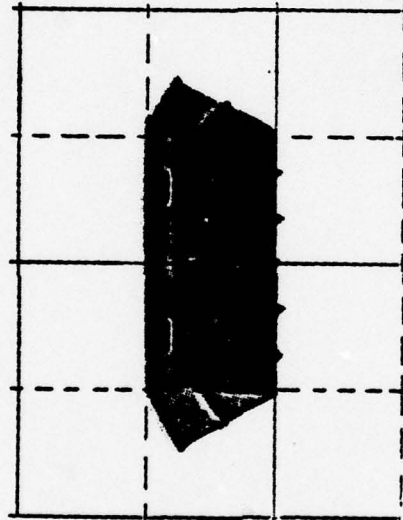
CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 25 hp
Persons Capacity - 500 lbs
Maximum Weight Capacity - 700 lbs

MOTORWELL INFORMATION

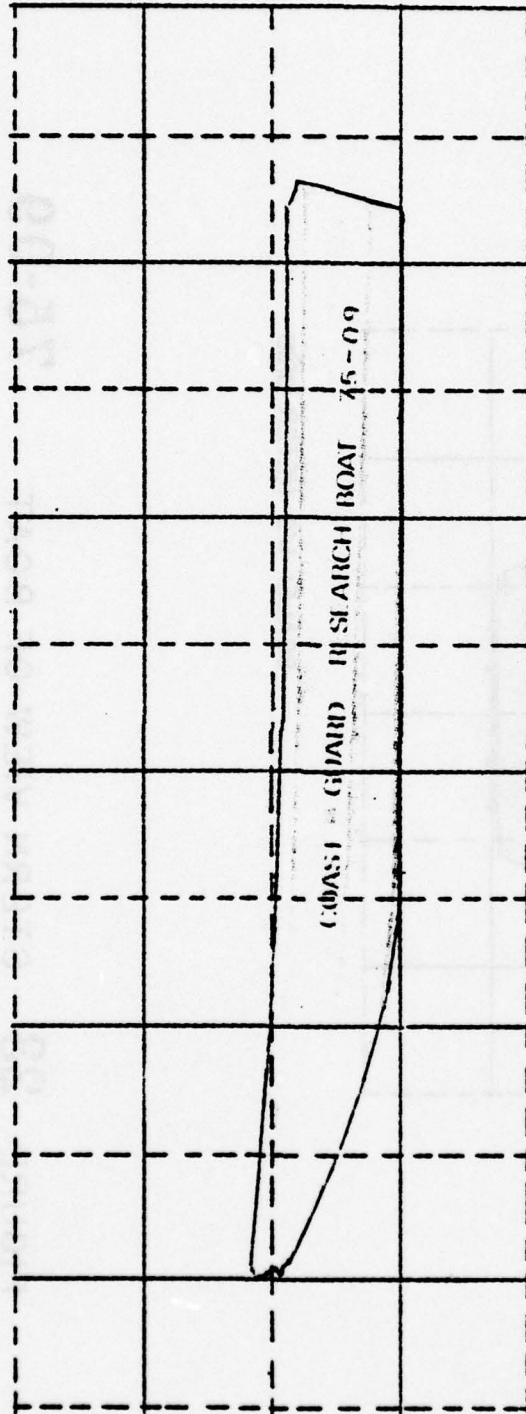
Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

21. Bow
22. Side
23. Stern
24. Top



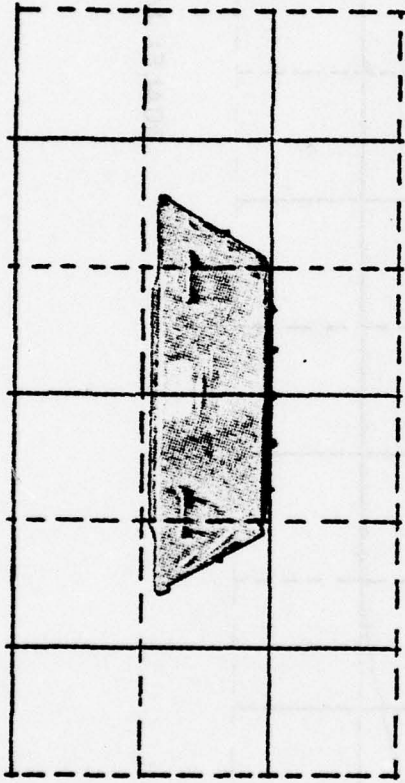
SCALE: 1/2 METER GRID

FIGURE 21 BOW VIEW OF BOAT 75-09



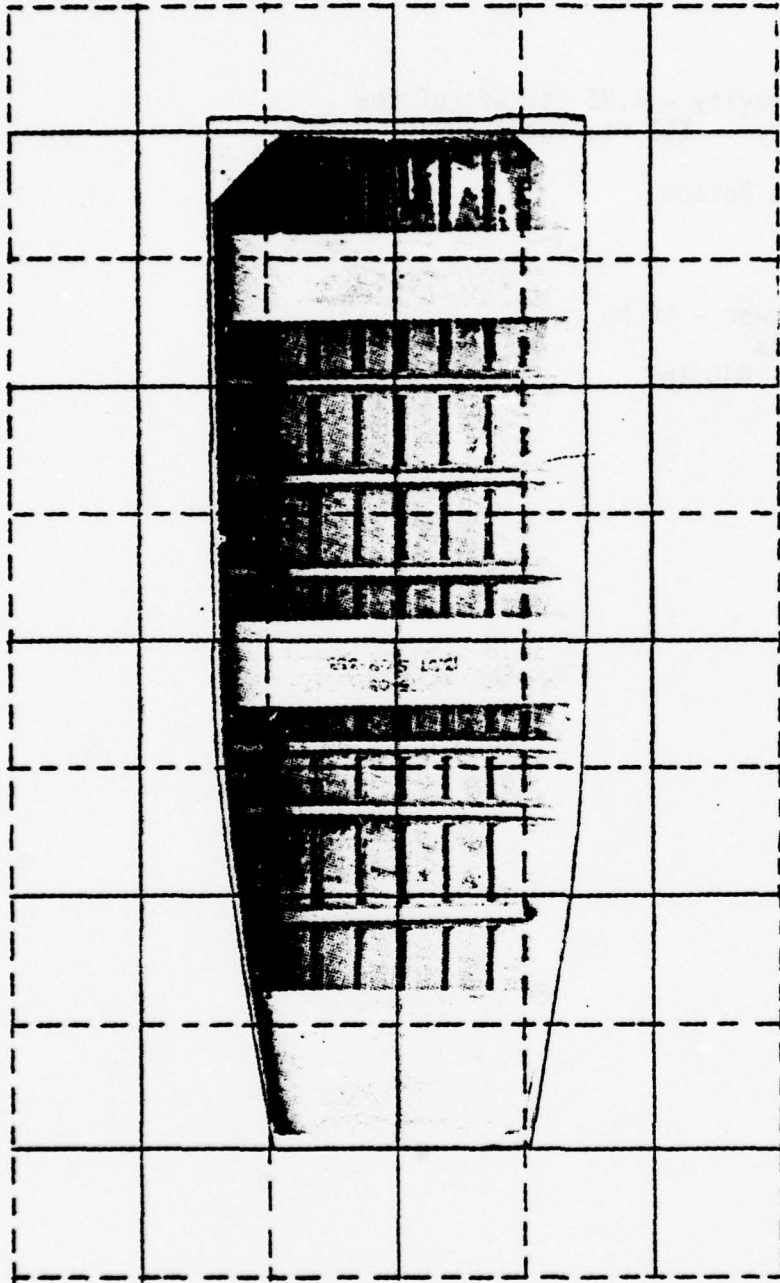
SCALE: 1/2 METER GRID

FIGURE 22 SIDE VIEW OF BOAT 75-09



SCALE: 1/2 METER GRID

FIGURE 23 STERN VIEW OF BOAT 75-09



SCALE: 1/2 METER GRID

FIGURE 24 TOP VIEW OF BOAT 75-09

R&DC BOAT NUMBER 75-12

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 14.03 ft.
Beam Overall - 3.71 ft.
Beam at Chine - 2.52 ft.
Weight - 90 lbs
Longitudinal Center of Gravity - 7.86 ft. aft of bow
Vertical Center of Gravity - .511 ft. above keel
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 10 hp
Persons Capacity - 300 lbs
Maximum Weight Capacity - 440 lbs

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

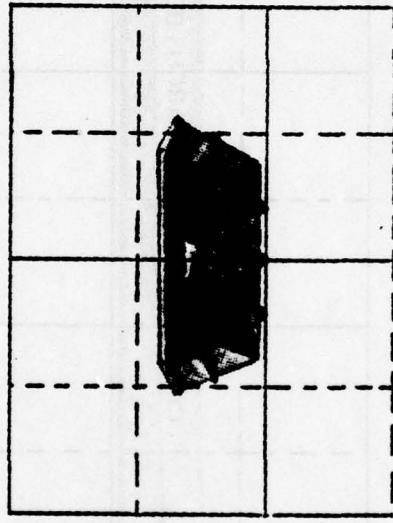
- 25. Bow
- 26. Side
- 27. Stern
- 28. Top

FIGURE 28

SIDE VIEW OF BOAT

12-13

SCALE: 1/2 METER GRID



SCALE: 1/2 METER GRID

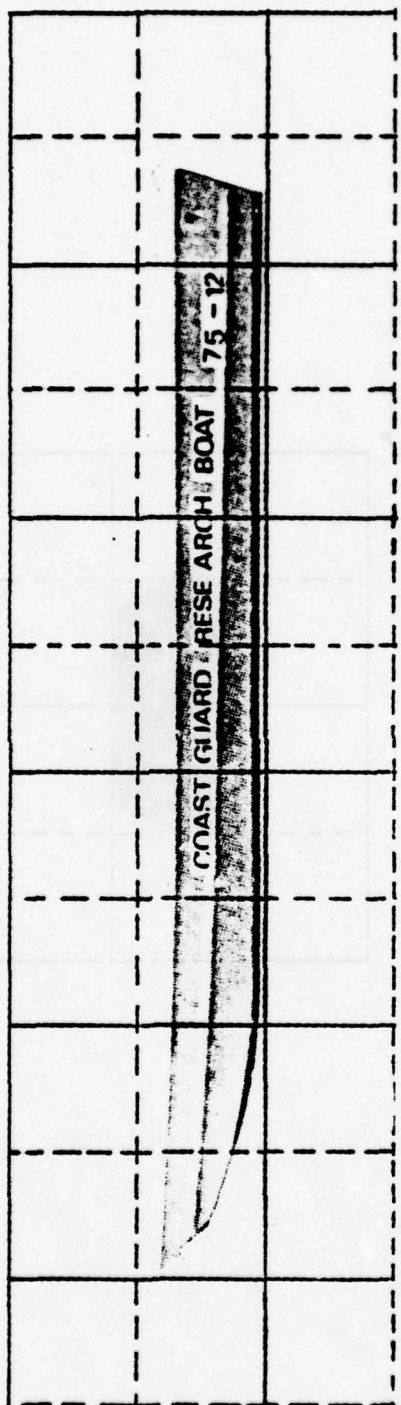
75-12

BOW VIEW OF BOAT

FIGURE 25

FIGURE 26 BOM ALEM 06 BOVA 32-18

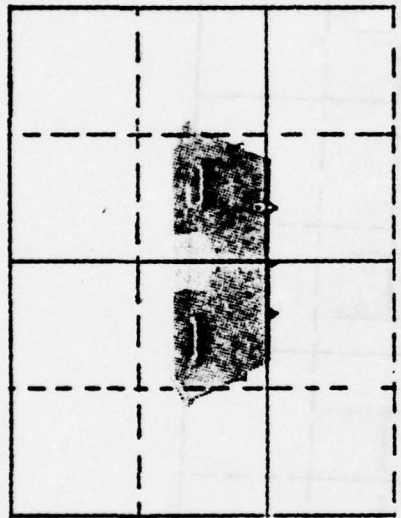
BOVES IN METERS GRID



SCALE: 1/2 METER GRID

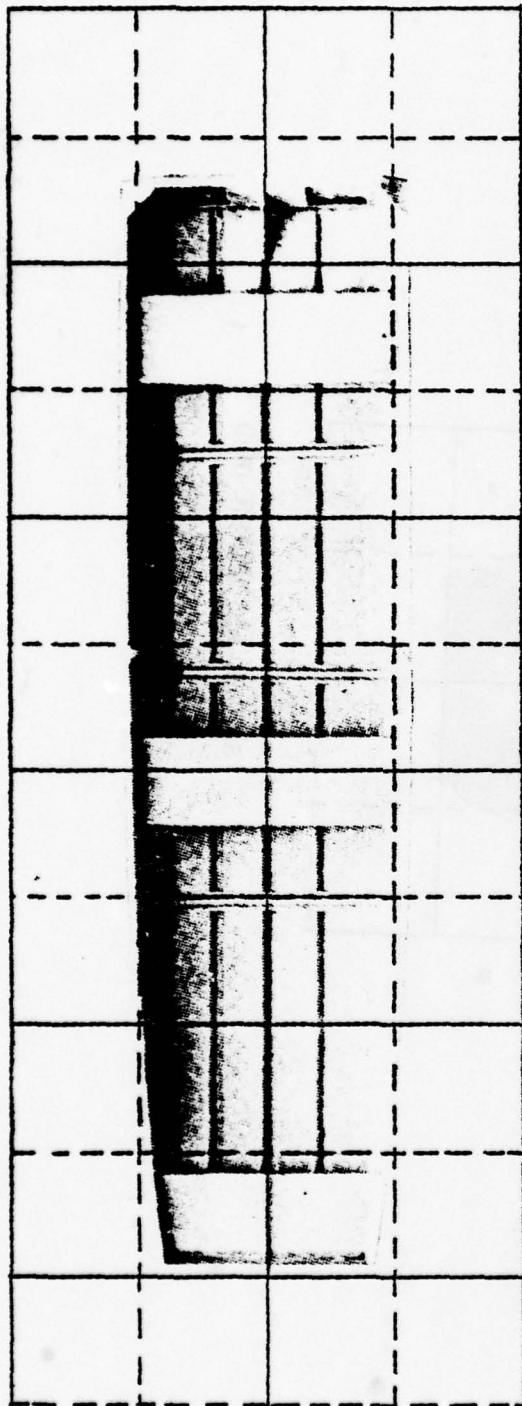
FIGURE 26 SIDE VIEW OF BOAT 75-12

FIGURE 27 105 VIEW OF BOAT Δ2-13



SCALE: 1/2 METER GRID

FIGURE 27 STERN VIEW OF BOAT 75-12



SCALE: 1/2 METER GRID

FIGURE 28 TOP VIEW OF BOAT 75-12

R&DC BOAT NUMBER 75-13

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 14.03 ft.
Beam Overall - 4.07 ft.
Beam at Chine - 2.73 ft.
Weight - 133 lbs
Longitudinal Center of Gravity - 8.06 ft. aft of bow
Vertical Center of Gravity - .528 ft. above keel
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

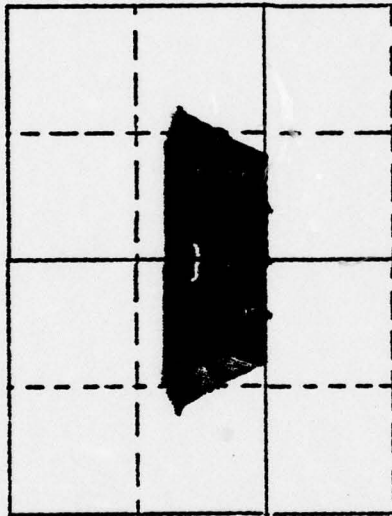
Maximum Allowable Horsepower - 10 hp
Persons Capacity - 300 lbs
Maximum Weight Capacity - 510 lbs

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

- 29. Bow
- 30. Side
- 31. Stern
- 32. Top

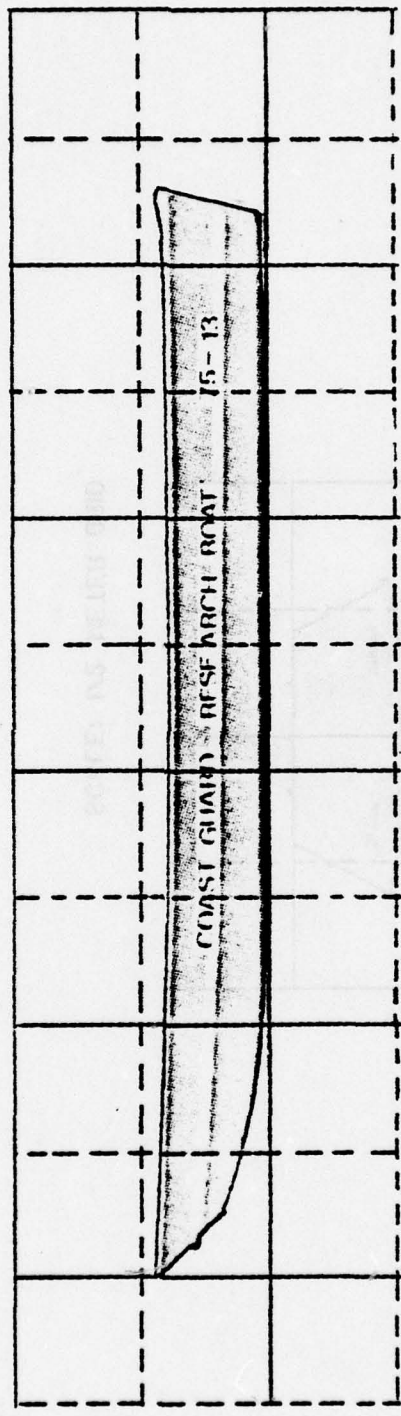




SCALE: 1/2 METER GRID

FIGURE 29 BOW VIEW OF BOAT 75-13

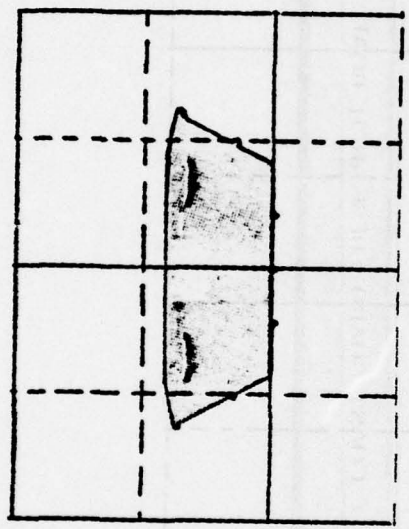
FIGURE 30 SIDE VIEW OF BOAT 75-13



SCALE: 1/2 METER GRID

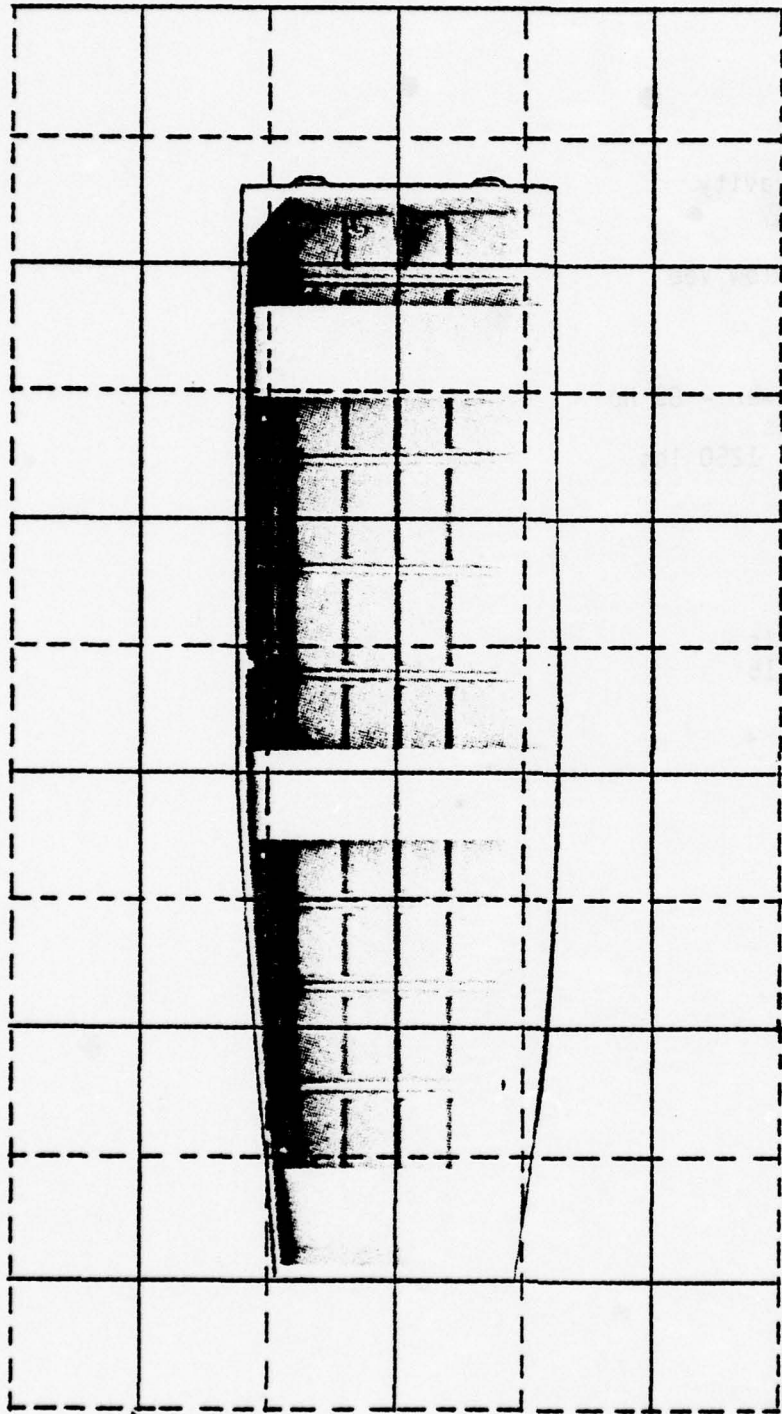
FIGURE 30 SIDE VIEW OF BOAT 75-13

FIGURE 30 SIDE VIEW OF BOAT 75-13



SCALE: 1/2 METER GRID

FIGURE 31 STERN VIEW OF BOAT 75-13



SCALE: 1/2 METER GRID

FIGURE 32 TOP VIEW OF BOAT 75-13

R&DC BOAT NUMBER 75-14

GENERAL INFORMATION

Boat Type - Runabout
Length Overall - 15 ft.
Beam Overall - 6.3 ft.
Beam at Chine
Weight - 700 lbs
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Shallow Vee

CAPACITY PLATE INFORMATION

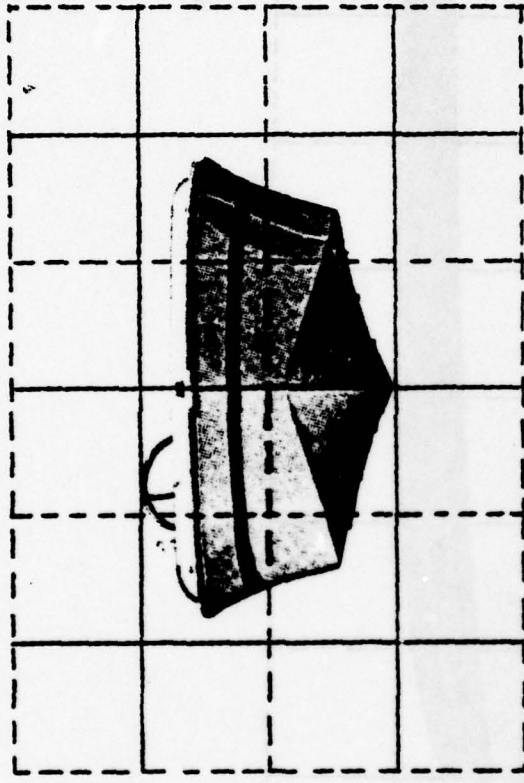
Maximum Allowable Horsepower - 85 hp
Persons Capacity - 750 lbs
Maximum Weight Capacity - 1250 lbs

MOTORWELL INFORMATION

Number of Drains - 2
Size of Drains - 3/4"
Motorwell Volume - 8.0 gals
Motorwell Drain Time - 1:15

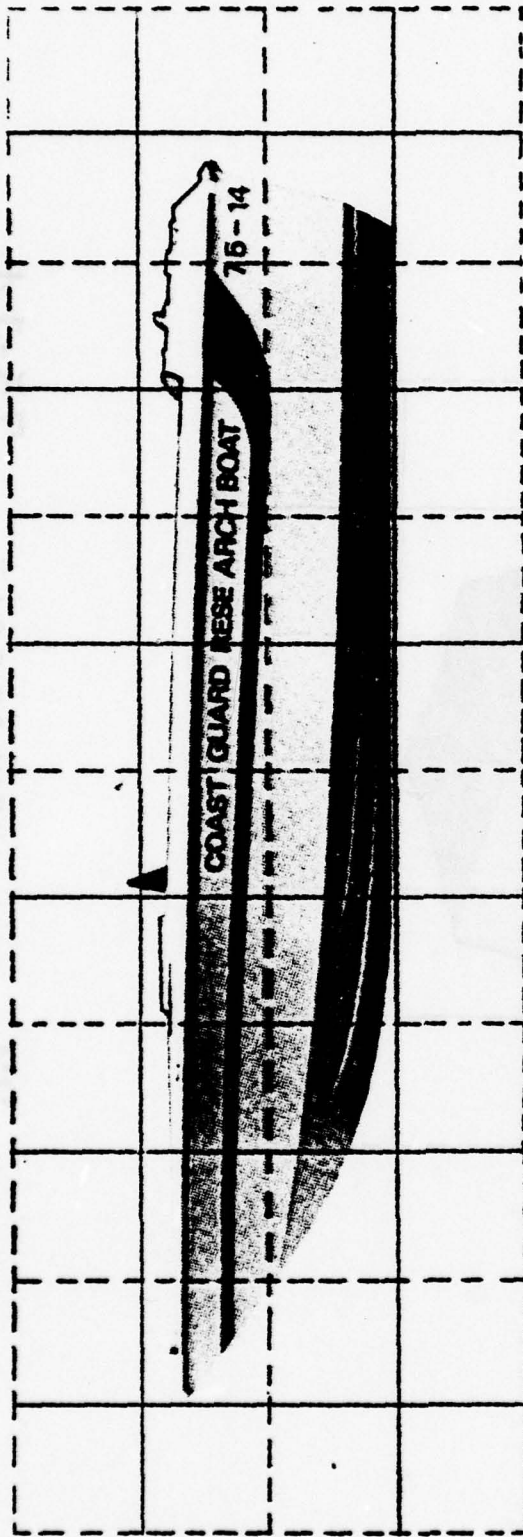
- 33. Bow
- 34. Side
- 35. Stern
- 36. Top
- 37. Bottom

FIGURE 34 SIDE VIEW OF BOAT 75-14



SCALE: 1/2 METER GRID

FIGURE 33 BOW VIEW OF BOAT 75-14

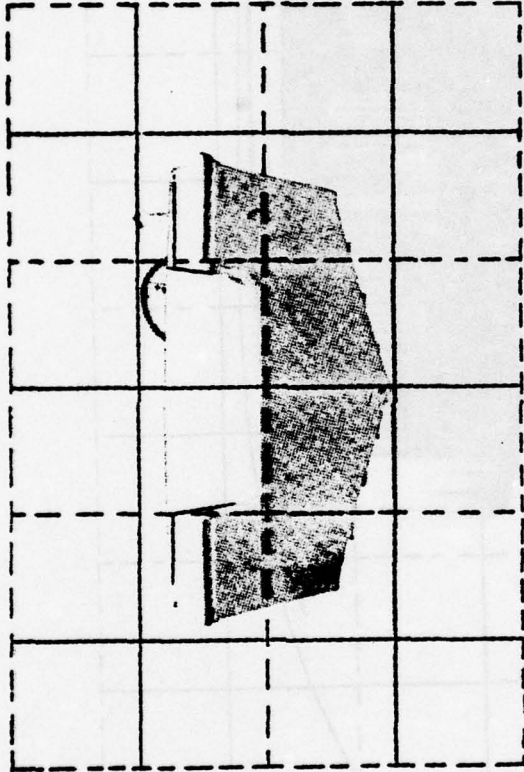


SCALE: 1/2 METER GRID

FIGURE 34 SIDE VIEW OF BOAT 75-14

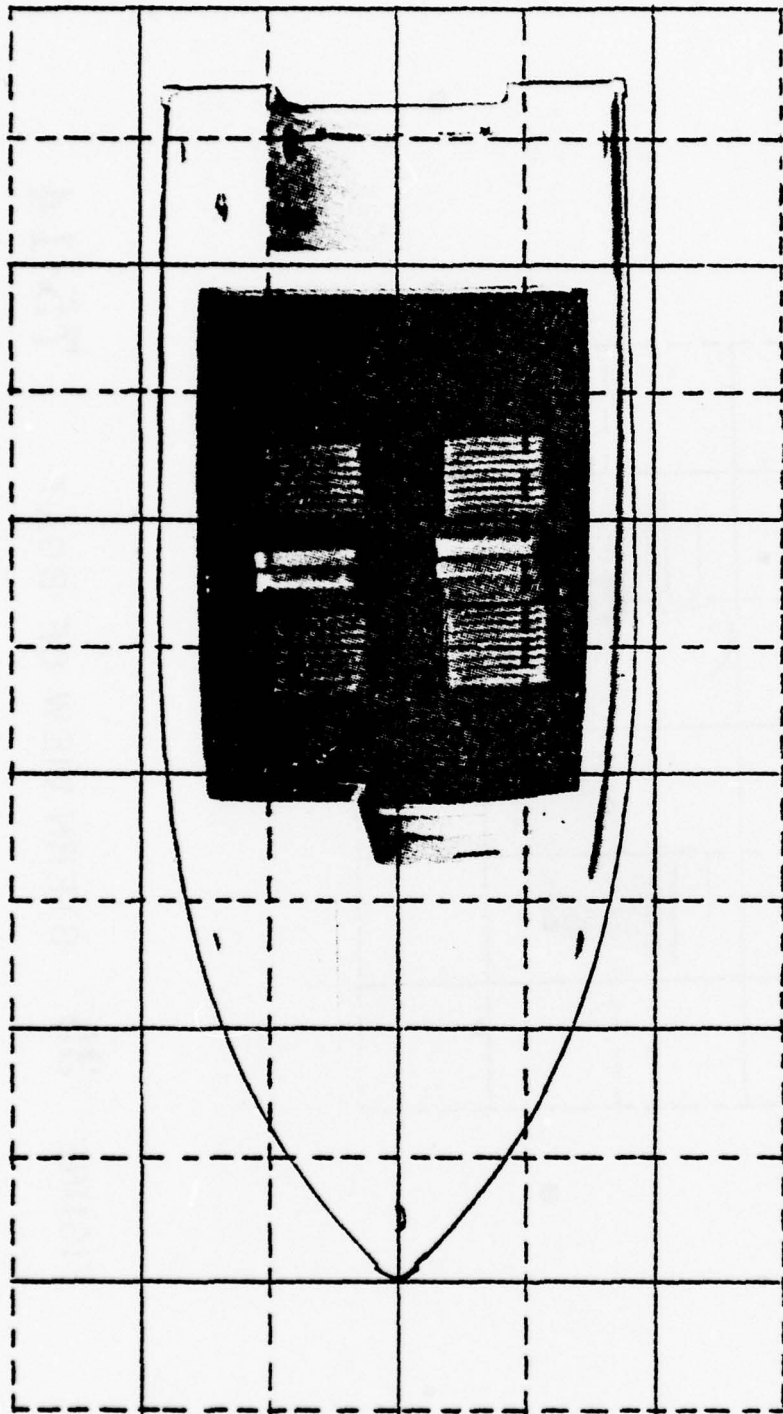
FIGURE 30 LOW VIEW OF BOAT Δ2-14

COVERING INS. METEY. DBIU



SCALE: 1/2 METER GRID

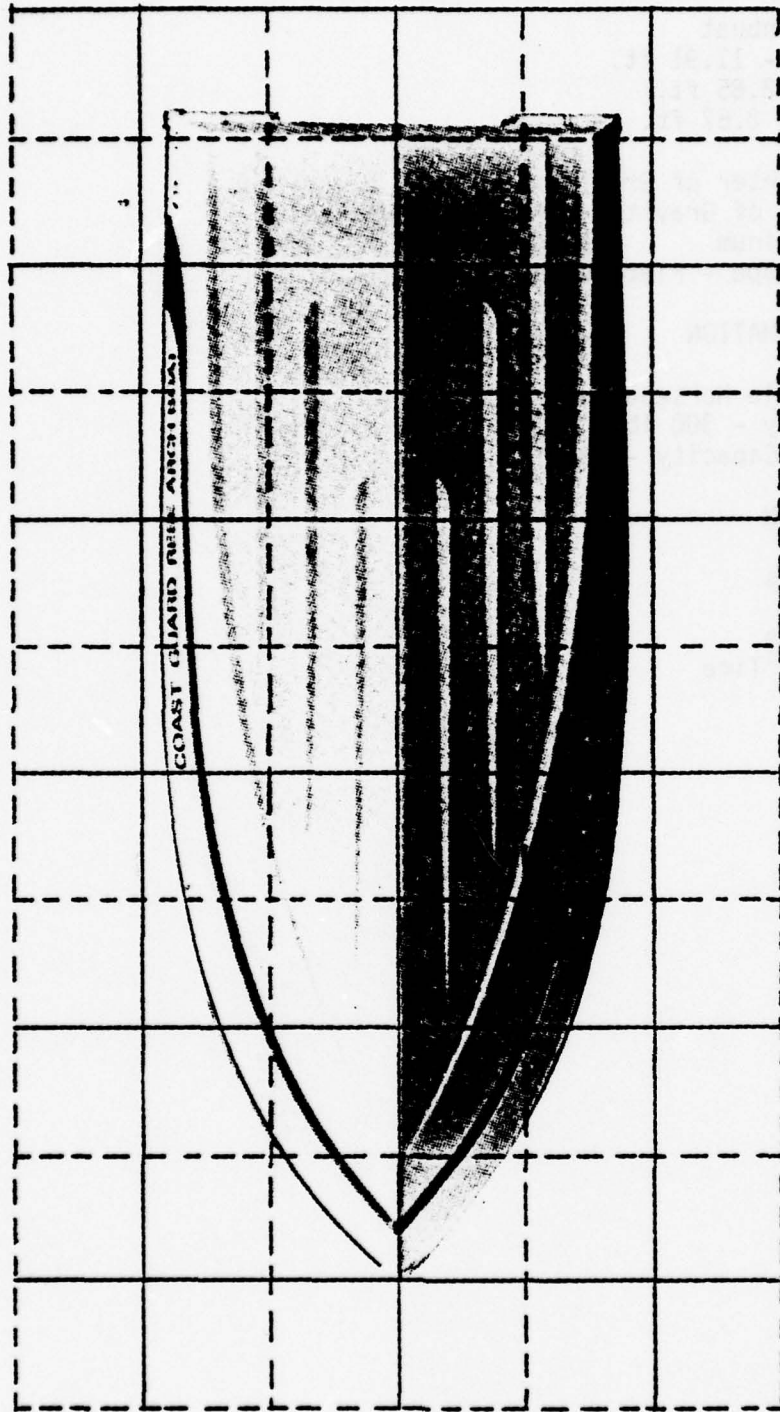
FIGURE 35 STERN VIEW OF BOAT 75-14



SCALE: 1/2 METER GRID

75-14

FIGURE 36 TOP VIEW OF BOAT



SCALE: 1/2 METER GRID

75-14

FIGURE 37 BOTTOM VIEW OF BOAT

R&DC BOAT NUMBER 75-15

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 11.91 ft.
Beam Overall - 3.85 ft.
Beam at Chine - 2.67 ft.
Weight - 80 lbs
Longitudinal Center of Gravity
Vertical Center of Gravity - .45 ft. above keel
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 5 hp
Persons Capacity - 300 lbs
Maximum Weight Capacity - 390 lbs

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

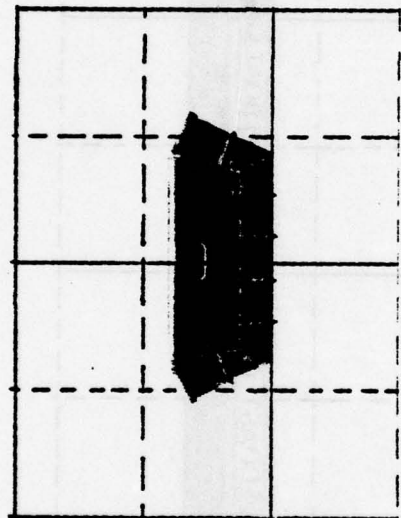
- 38. Bow
- 39. Side
- 40. Stern
- 41. Top

FIGURE 38

BOW VIEW OF BOAT

12-72

SCALE: 1/2 INCH = 1 METER



SCALE: 1/2 METER GRID

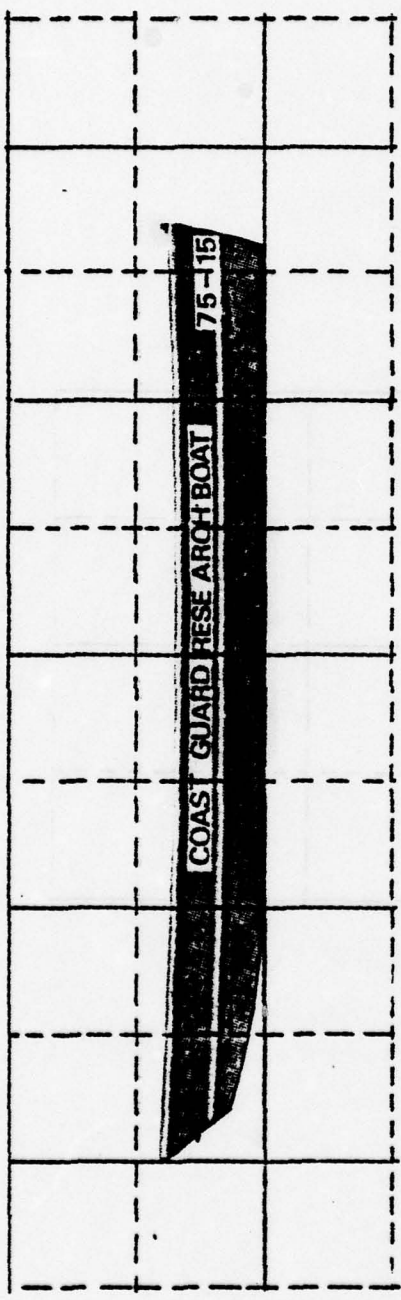
75-15

FIGURE 38

BOW VIEW OF BOAT

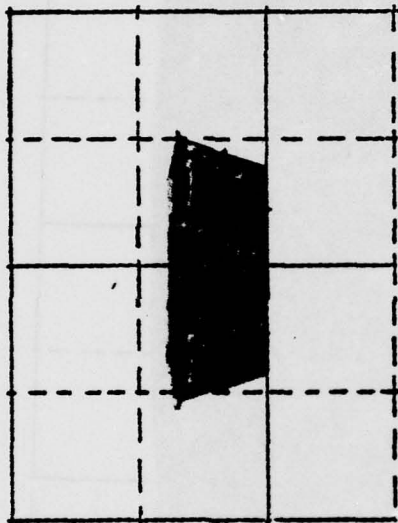
FIGURE 39 BOA AREA OF BOAT 39-12

SCALE: 1/2 METER GRID



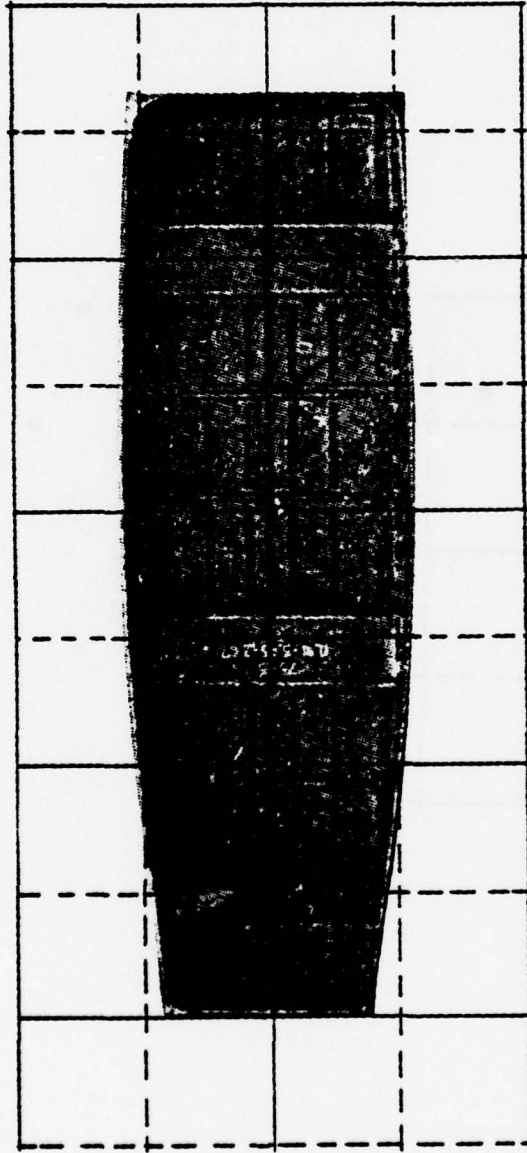
SCALE: 1/2 METER GRID

FIGURE 39 SIDE VIEW OF BOAT 75-15



SCALE: 1/2 METER GRID

FIGURE 40 STERN VIEW OF BOAT 75-15



SCAL: 1/2 METER GRID

75-15

TOP VIEW OF BOAT

41

FIGURE

R&DC BOAT NUMBER 75-16

GENERAL INFORMATION

Boat Type - Lightweight Skiff
Length Overall - 12.0 ft.
Beam Overall - 4.30 ft.
Beam at Chine - 3.20 ft.
Weight - 98 lbs
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Aluminum
General Hull Shape - Semi-Vee

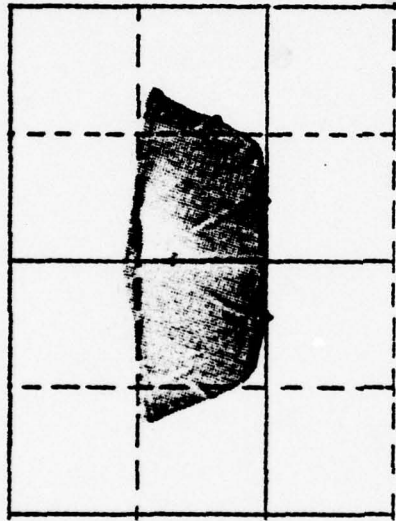
CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 10 hp
Persons Capacity - 325 lbs.
Maximum Weight Capacity - 465 lbs.

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

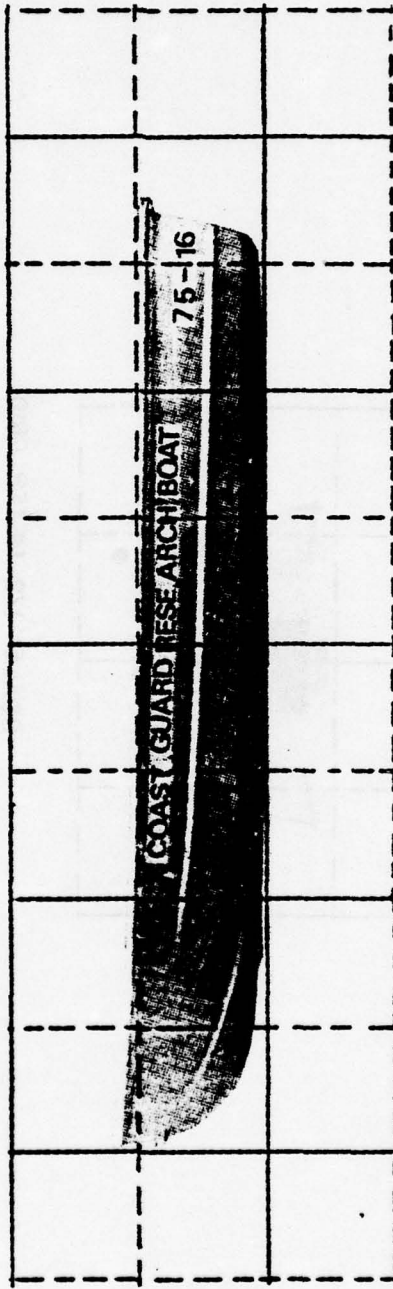
- 42. Bow
- 43. Side
- 44. Stern
- 45. Top



SCALE: 1/2 METER GRID

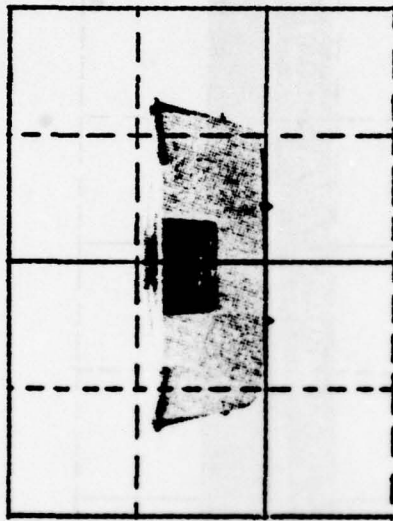
FIGURE 42 BOW VIEW OF BOAT 75-16

FIGURE 43 SIDE VIEW OF BOAT 75-16



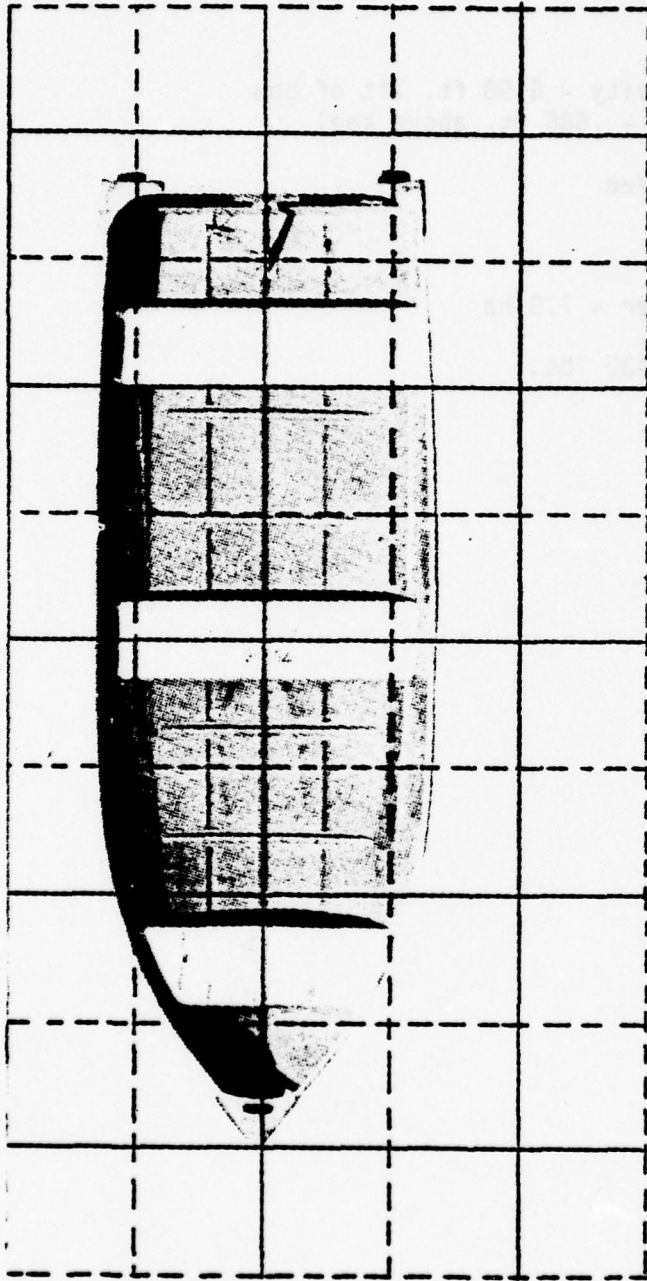
SCALE: 1/2 METER GRID

FIGURE 43 SIDE VIEW OF BOAT 75-16



SCALE: 1/2 METER GRID

FIGURE 44 STERN VIEW OF BOAT 75-16



SCALE: 1/2 METER GRID

75-16

TOP VIEW OF BOAT

FIGURE 45

R&DC BOAT NUMBER 75-17

GENERAL INFORMATION

Boat Type - Lightweight Skiff
Length Overall - 11.97 ft.
Beam Overall - 4.13 ft.
Beam at Chine - 3.20 ft.
Weight - 82 lbs.
Longitudinal Center of Gravity - 6.98 ft. aft of bow
Vertical Center of Gravity - .686 ft. above keel
Material - Aluminum
General Hull Shape - Semi-Vee

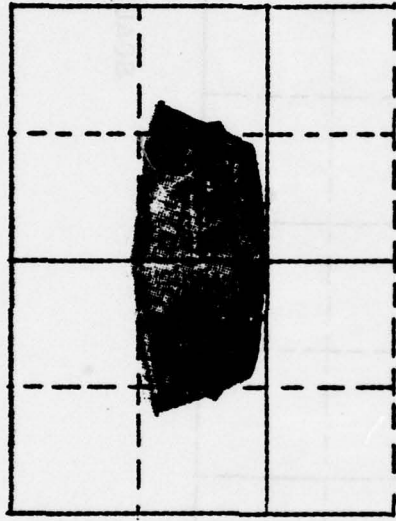
CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 7.5 hp
Persons Capacity - 290 lbs.
Maximum Weight Capacity - 430 lbs.

MOTORWELL INFORMATION

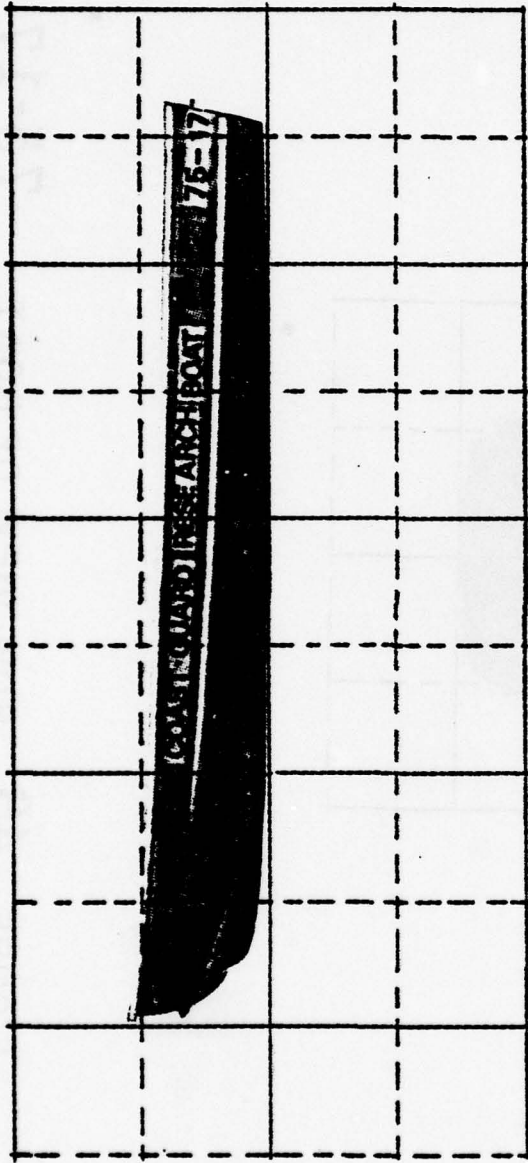
Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

- 46. Bow
- 47. Side
- 48. Stern
- 49. Top



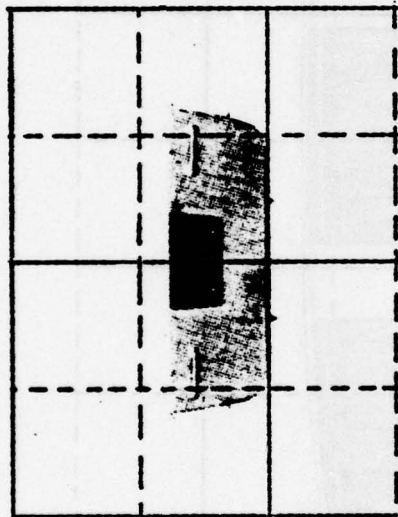
SCALE: 1/2 METER GRID

FIGURE 46 BOW VIEW OF BOAT 75-17



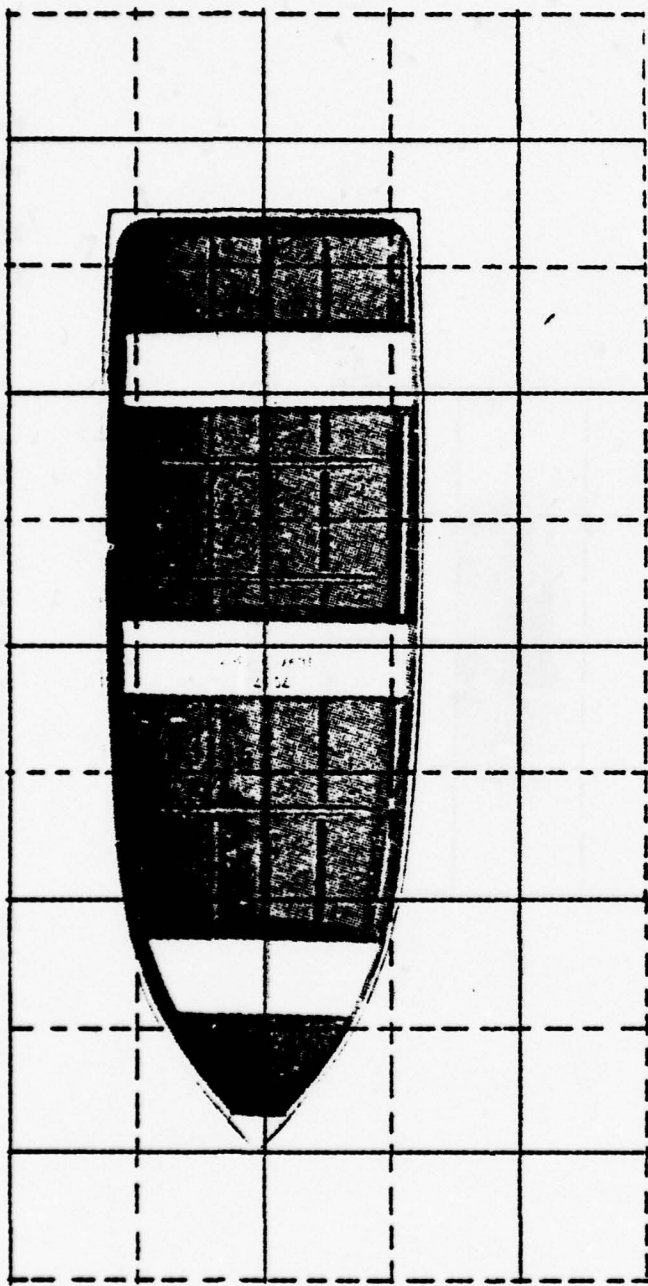
SCALE: 1/2 METER GRID

FIGURE 47 SIDE VIEW OF BOAT 75-17



SCALE: 1/2 METER GRID

FIGURE 48 STERN VIEW OF BOAT 75-17



SCAL: 1/2 METER GRID

FIGURE 49 TOP VIEW OF BOAT 75-17

R&DC BOAT NUMBER 75-18

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 11.85 ft.
Beam Overall - 3.64 ft.
Beam at Chine - 2.54 ft.
Weight - 71 lbs
Longitudinal Center of Gravity - 6.39 ft. Aft of Bow
Vertical Center of Gravity - .535 ft. Above Keel
Material - Aluminum
General Hull Shape - Flat Bottom

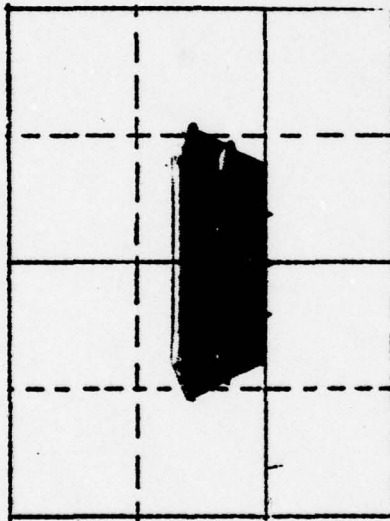
CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 3 hp
Persons Capacity - 150 lbs.
Maximum Weight Capacity - 300 lbs.

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

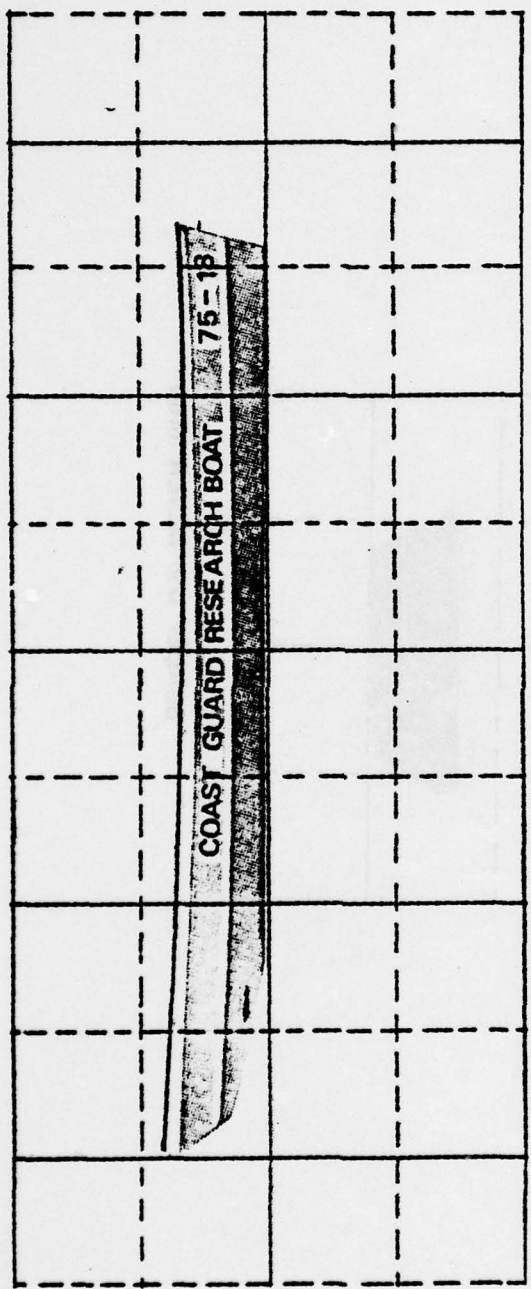
- 50. Bow
- 51. Side
- 52. Stern
- 53. Top



SCALE: 1/2 METER GRID

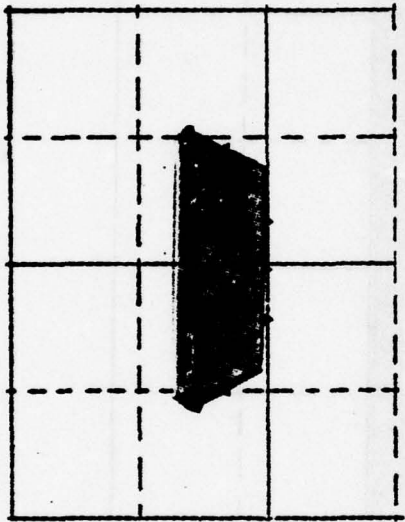
FIGURE 50 BOW VIEW OF BOAT 75-18

LICQUE 23 SLEEM AREA OR BOWL 75-18



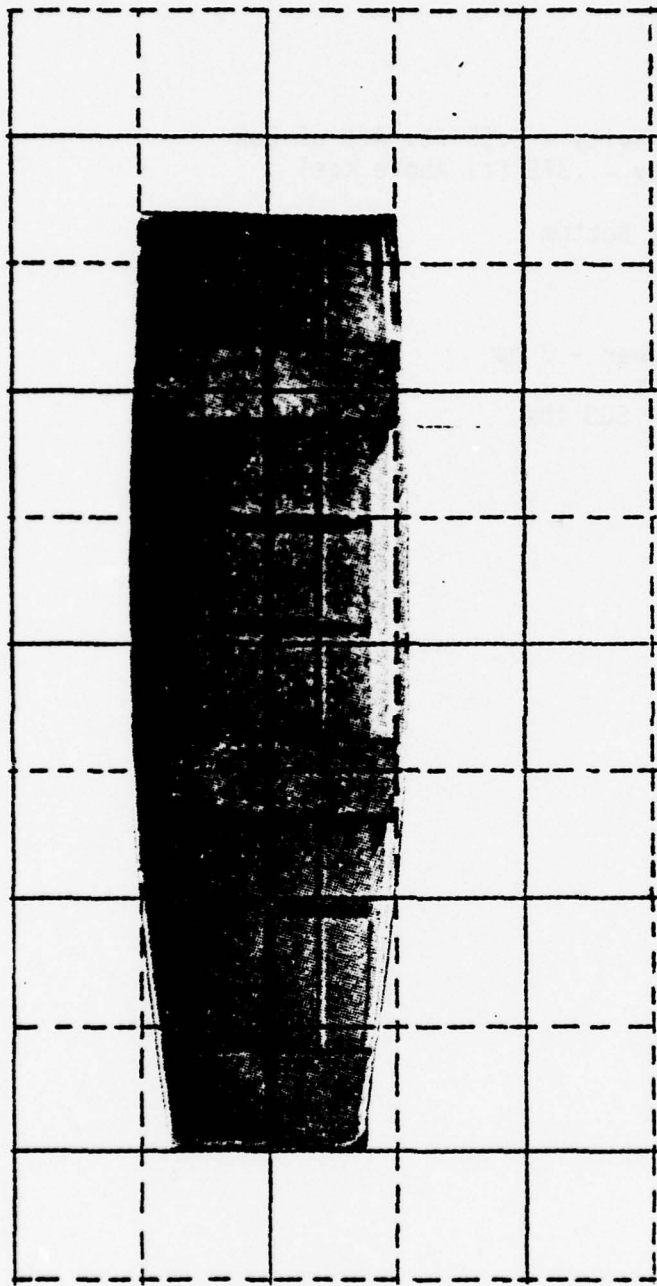
SCALE: 1/2 METER GRID

FIGURE 51 SIDE VIEW OF BOAT 75-18



SCALE: 1/2 METER GRID

FIGURE 52 STERN VIEW OF BOAT 75-18



SCAL: 1/2 METER GRID

FIGURE 53 TOP VIEW OF BOAT 75-18

R&DC BOAT NUMBER 75-22

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 11.82 ft.
Beam Overall - 3.41 ft.
Beam at Chine - 2.25 ft.
Weight - 64 lbs.
Longitudinal Center of Gravity - 6.55 ft. Aft of Bow
Vertical Center of Gravity - .375 ft. Above Keel
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

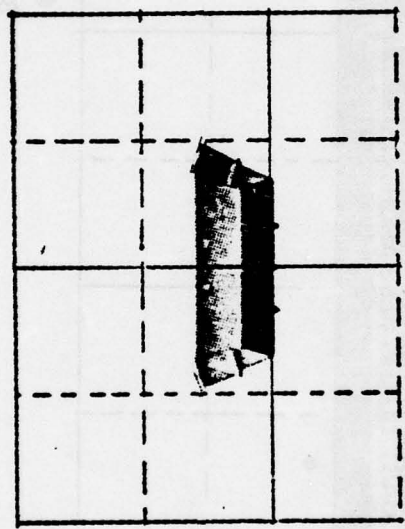
Maximum Allowable Horsepower - 3 hp
Persons Capacity - 265 lbs.
Maximum Weight Capacity - 300 lbs.

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

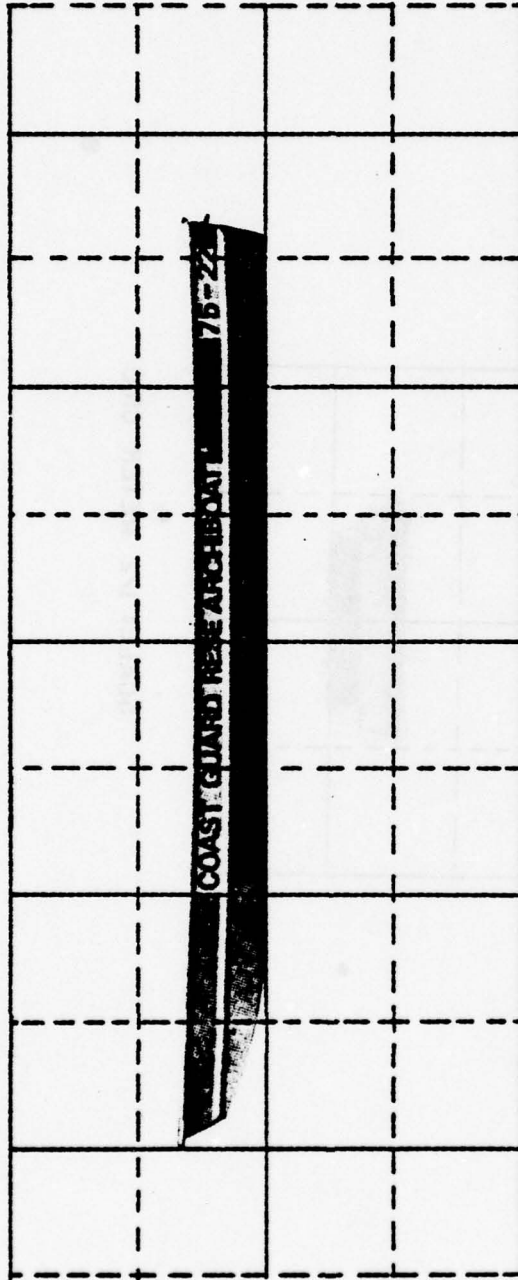
- 54. Bow
- 55. Side
- 56. Stern
- 57. Top

FIGURE 54 BOW VIEW OF BOAT 75-22



SCALE: 1/2 METER GRID

FIGURE 54 BOW VIEW OF BOAT 75-22



SCALE: 1/2 METER GRID

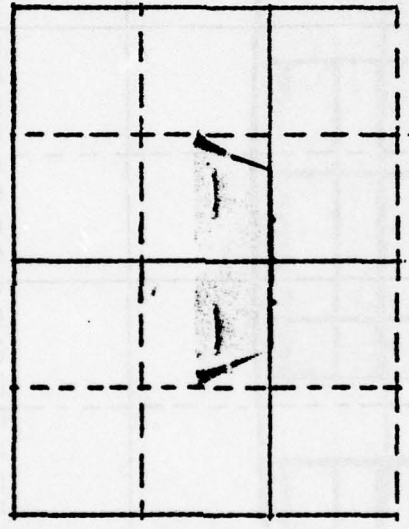
FIGURE 55 SIDE VIEW OF BOAT 75-22

12-33

106 AEM OF BOYL

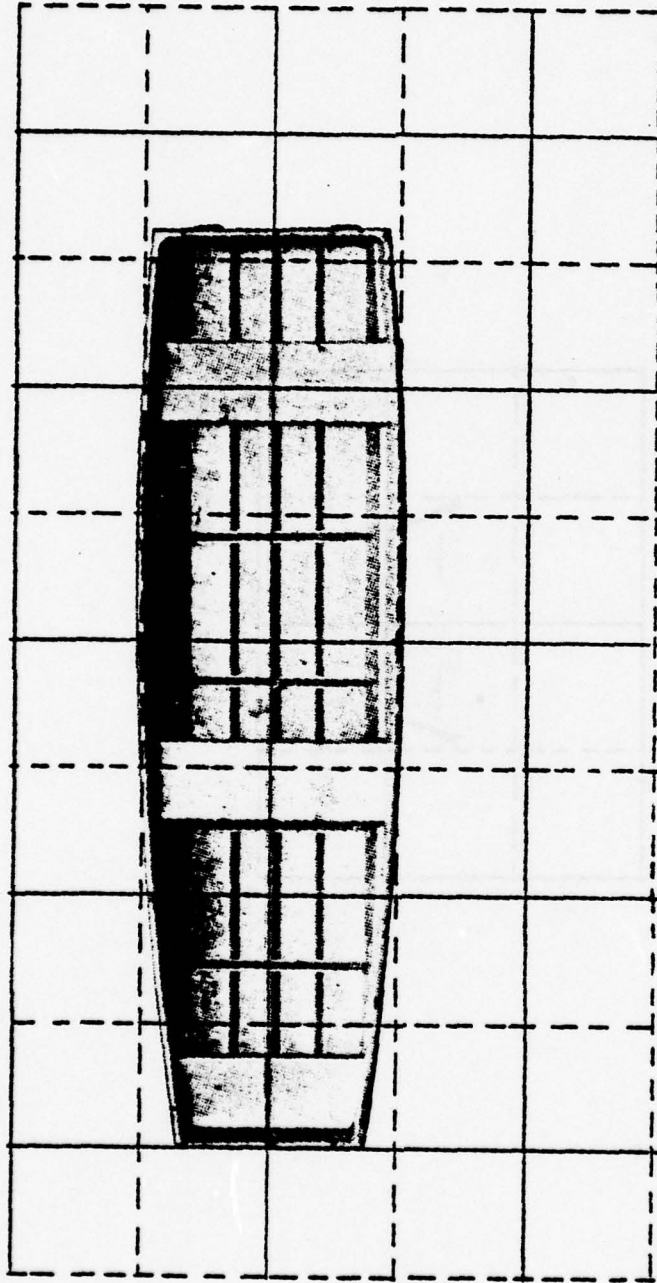
FIGURE 56

5 BOYD INS INCHES GRID



SCALE: 1/2 METER GRID

FIGURE 56 STERN VIEW OF BOAT 75-22



SCALE: 1/2 METER GRID

FIGURE 57 TOP VIEW OF BOAT 75-22

R&DC BOAT NUMBER 75-23

GENERAL INFORMATION

Boat Type - Lightweight SKiff
Length Overall - 12.02 ft.
Beam Overall - 4.76 ft.
Beam at Chine - 3.75 ft.
Weight - 142 lbs.
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Aluminum
General Hull Shape - Semi-Vee

CAPACITY PLATE INFORMATION

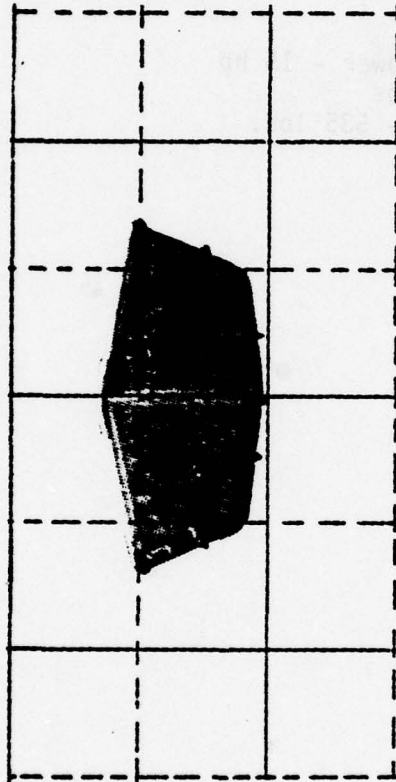
Maximum Allowable Horsepower - 15 hp
Persons Capacity - 335 lbs
Maximum Weight Capacity - 535 lbs.

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

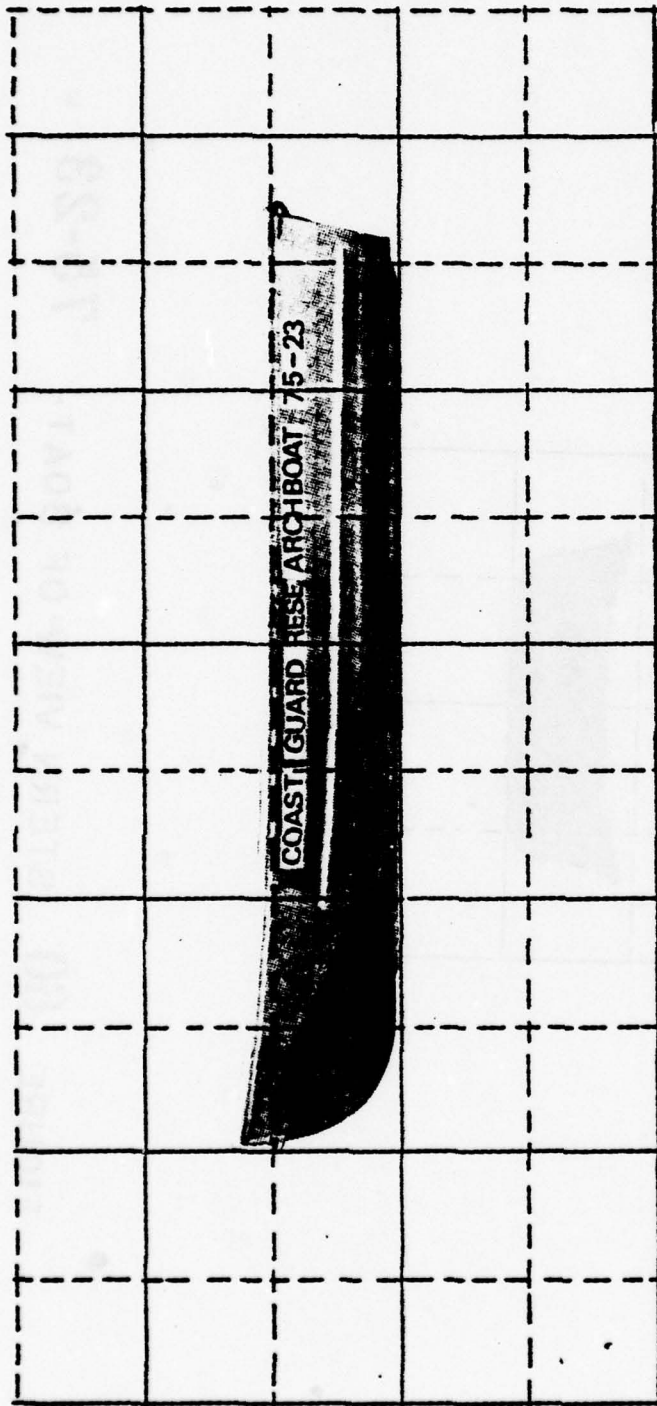
- 58. Bow
- 59. Side
- 60. Stern
- 61. Top
- 62. Bottom





SCALE: 1/2 METER GRID

FIGURE 58 BOW VIEW OF BOAT 75-23



SCALE: 1/2 METER GRID

FIGURE 59 SIDE VIEW OF BOAT 75-23

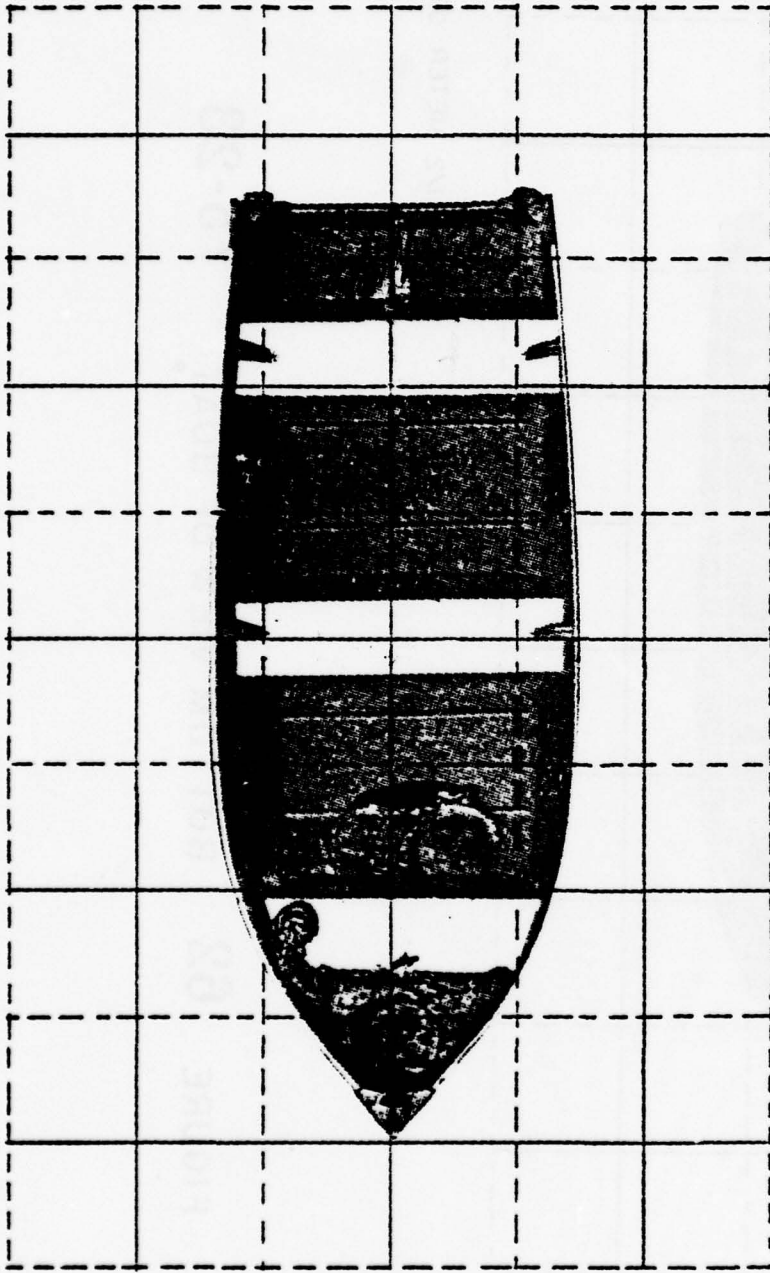
FIGURE 20 SIDE VIEW OF BOAT JR-33



SCALE: 1/2 METER GRID

75-23

FIGURE 60 STERN VIEW OF BOAT



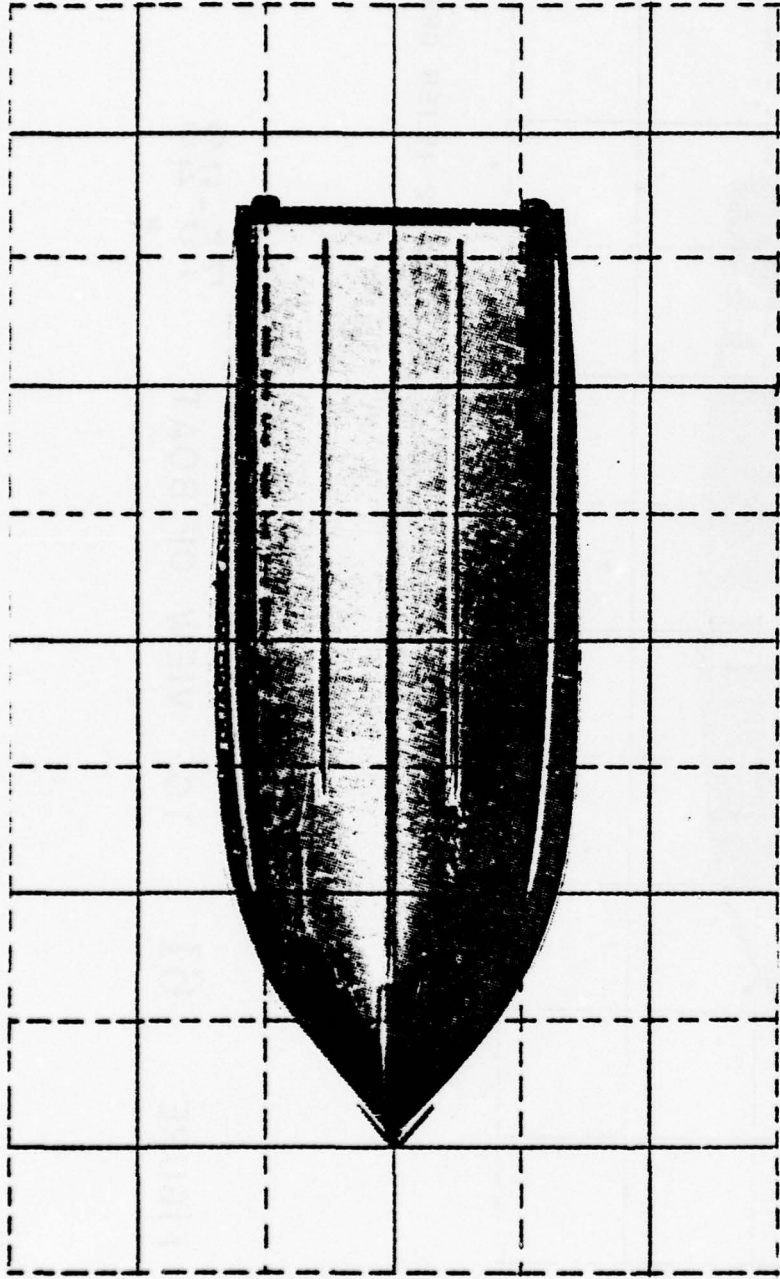
SCAL: 1/2 METER GRID

75-23

TOP VIEW OF BOAT

61

FIGURE



SCALE: 1/2 METER GRID

FIGURE 62 BOTTOM VIEW OF BOAT 75-23

R&DC BOAT NUMBER 75-24

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 13.94 ft.
Beam Overall - 3.81 ft.
Beam at Chine - 2.65 ft.
Weight - 92 lbs.
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

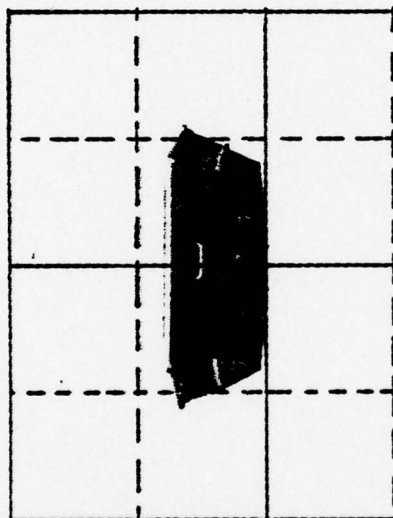
Maximum Allowable Horsepower - 10 hp
Persons Capacity - 335 lbs
Maximum Weight Capacity - 475 lbs.

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

- 63. Bow
- 64. Side
- 65. Stern
- 66. Top

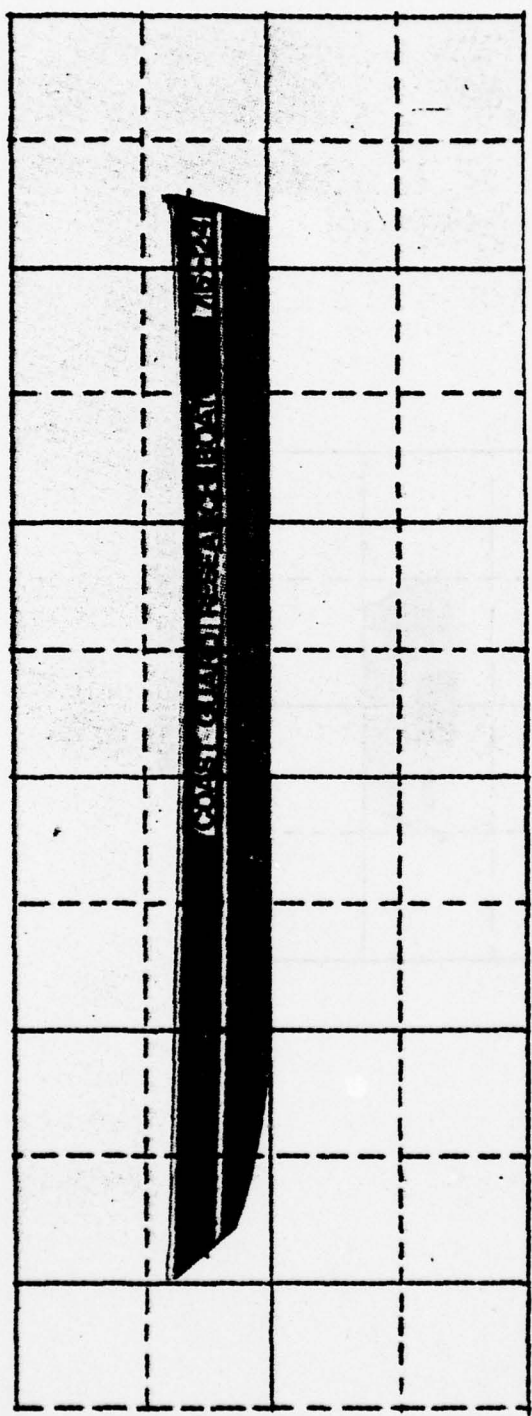




SCALE: 1/2 METER GRID

FIGURE 63 BOW VIEW OF BOAT 75-24

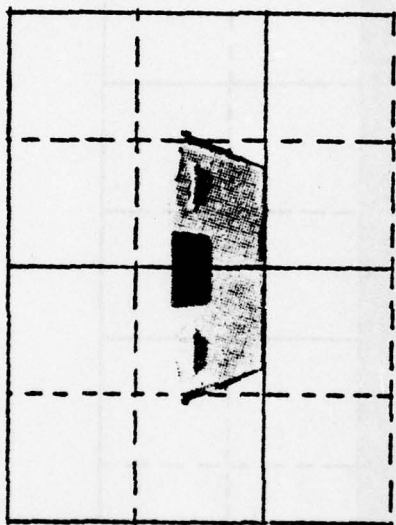
FIGURE 64 SIDE VIEW OF BOAT 75-24



SCALE: 1/2 METER GRID

FIGURE 64 SIDE VIEW OF BOAT 75-24

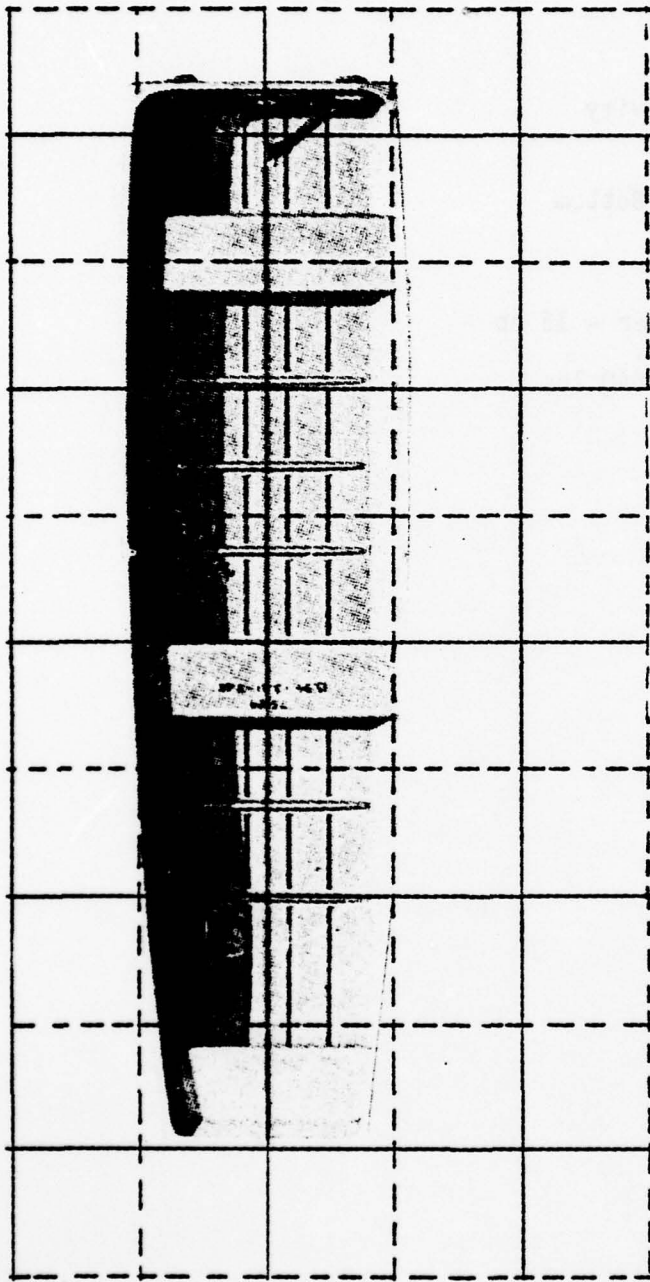
FIGURE 64 SIDE VIEW OF BOAT 12-54



SCALE: 1/2 METER GRID

SCOTT'S WELSH GRID

FIGURE 65 STERN VIEW OF BOAT 75-24



SCALE: 1/2 METER GRID

FIGURE 66 TOP VIEW OF BOAT 75-24

R&DC BOAT NUMBER 75-25

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 13.89 ft/
Beam Overall - 4.50 ft.
Beam at Chine - 3.02 ft.
Weight - 133 lbs.
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 15 hp
Persons Capacity - 440 lbs.
Maximum Weight Capacity - 640 lbs.

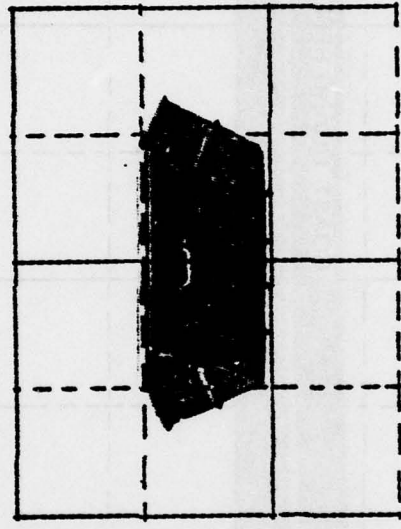
MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

- 67. Bow
- 68. Side
- 69. Stern
- 70. Bottom

FIGURE 67 SIDE VIEW OF BOAT 12-32

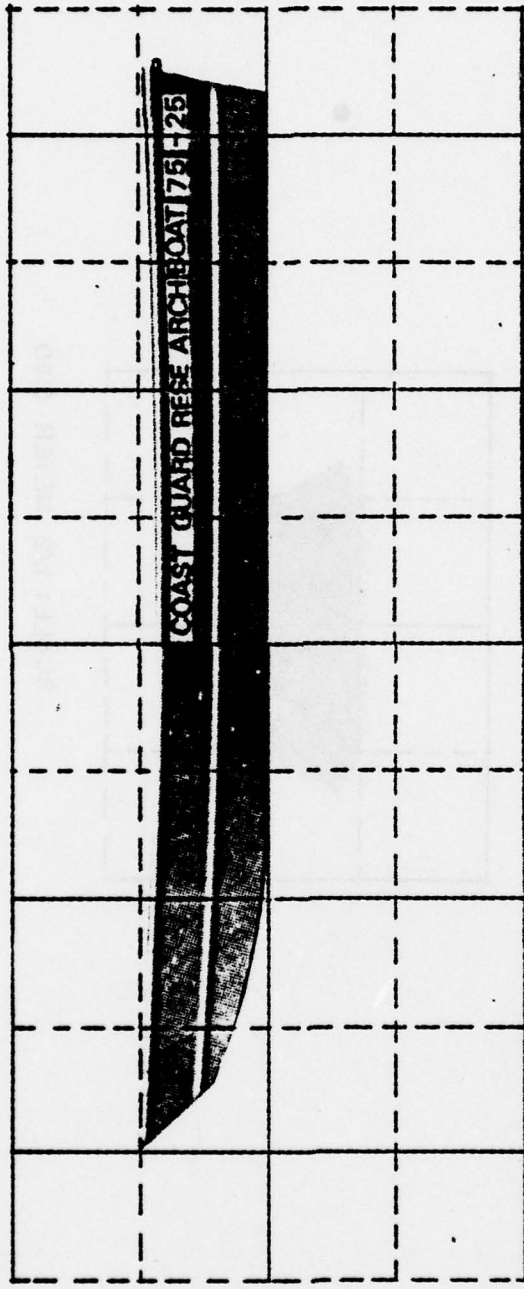
SCOTT'S INS. METER GRID



SCALE: 1/2 METER GRID

FIGURE 67 BOW VIEW OF BOAT 75-25

FIGURE 68 SIDE VIEW OF BOAT 12-52

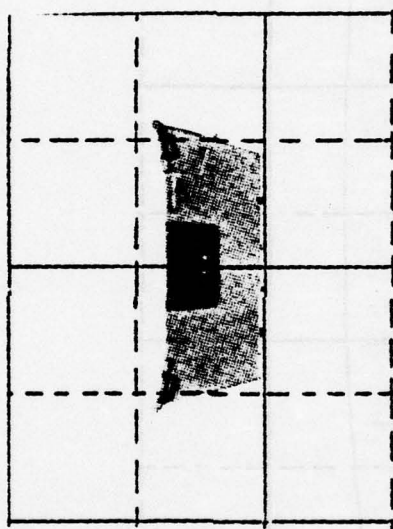


SCALE: 1/2 METER GRID

FIGURE 68 SIDE VIEW OF BOAT 75-25

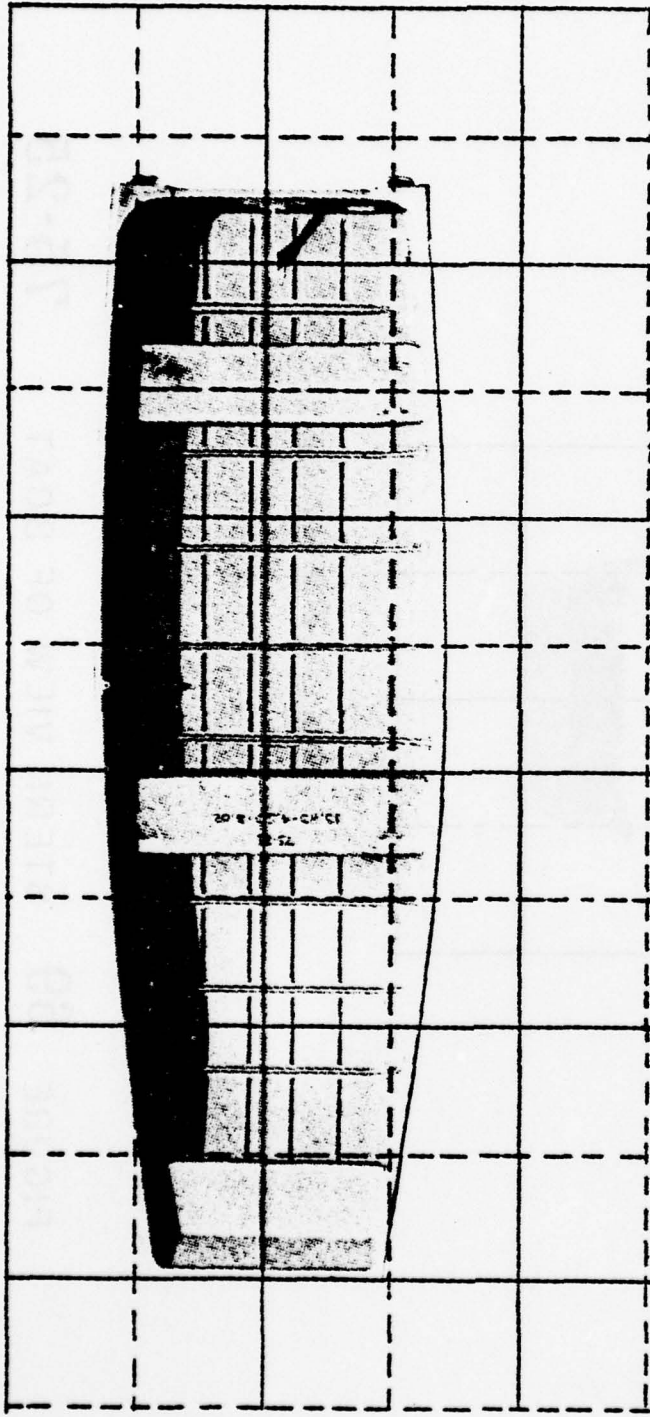
LICHTBE 10 106 ALEM DE BOVL 12-32

BOVL 1/5 METER GRID



SCALE: 1/2 METER GRID

FIGURE 69 STERN VIEW OF BOAT 75-25



SCALE: 1/2 METER GRID

FIGURE 70 TOP VIEW OF BOAT 75-25

R&DC BOAT NUMBER 75-26

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 11.90 ft.
Beam Overall - 4.40 ft.
Beam at Chine - 3.00 ft.
Weight - 120 lbs.
Longitudinal Center of Gravity - 6.75 ft.
Vertical Center of Gravity - .556 ft.
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

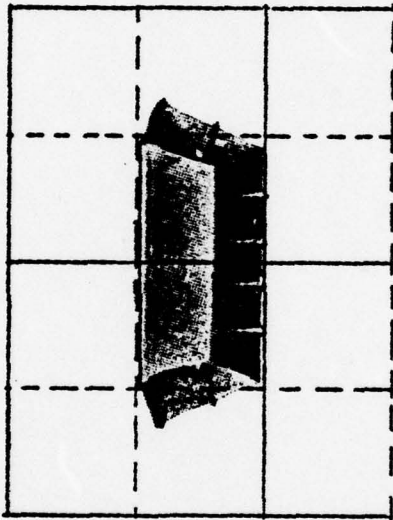
Maximum Allowable Horsepower - 10 hp
Persons Capacity - 360 lbs.
Maximum Weight Capacity - 500 lbs.

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

- 71. Bow
- 72. Side
- 73. Stern
- 74. Top

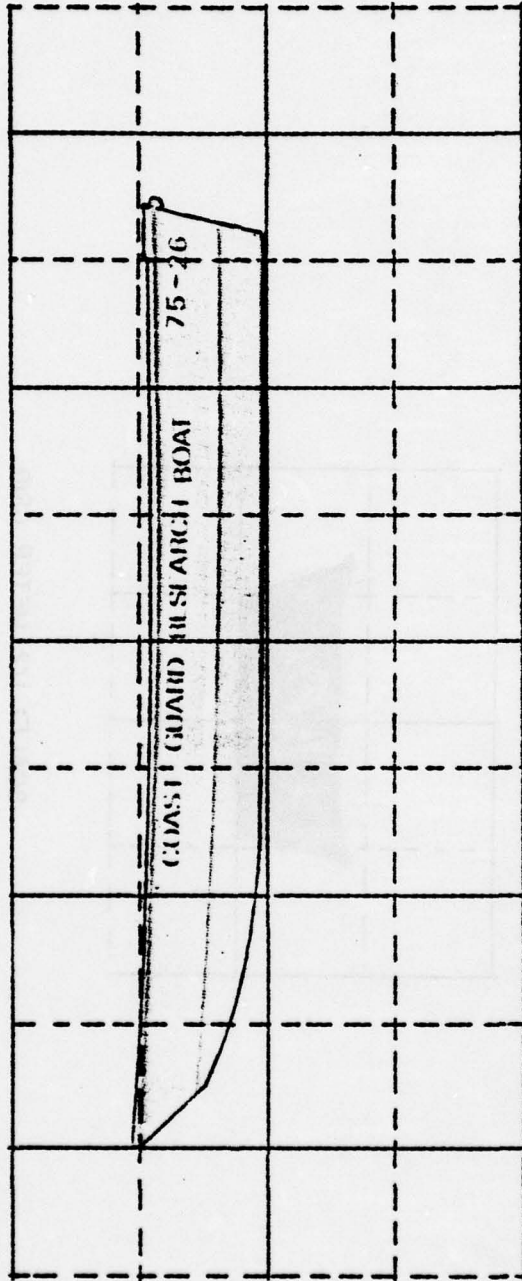




SCALE: 1/2 METER GRID

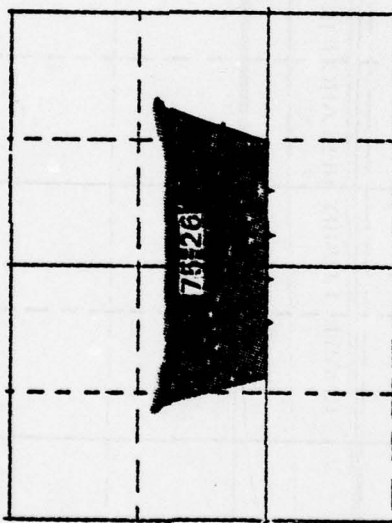
FIGURE 71 BOW VIEW OF BOAT **75-26**

FIGURE 72 SIDE VIEW OF BOAT 75-26



SCALE: 1/2 METER GRID

FIGURE 72 SIDE VIEW OF BOAT 75-26



SCALE: 1/2 METER GRID

FIGURE 73 STERN VIEW OF BOAT 75-26

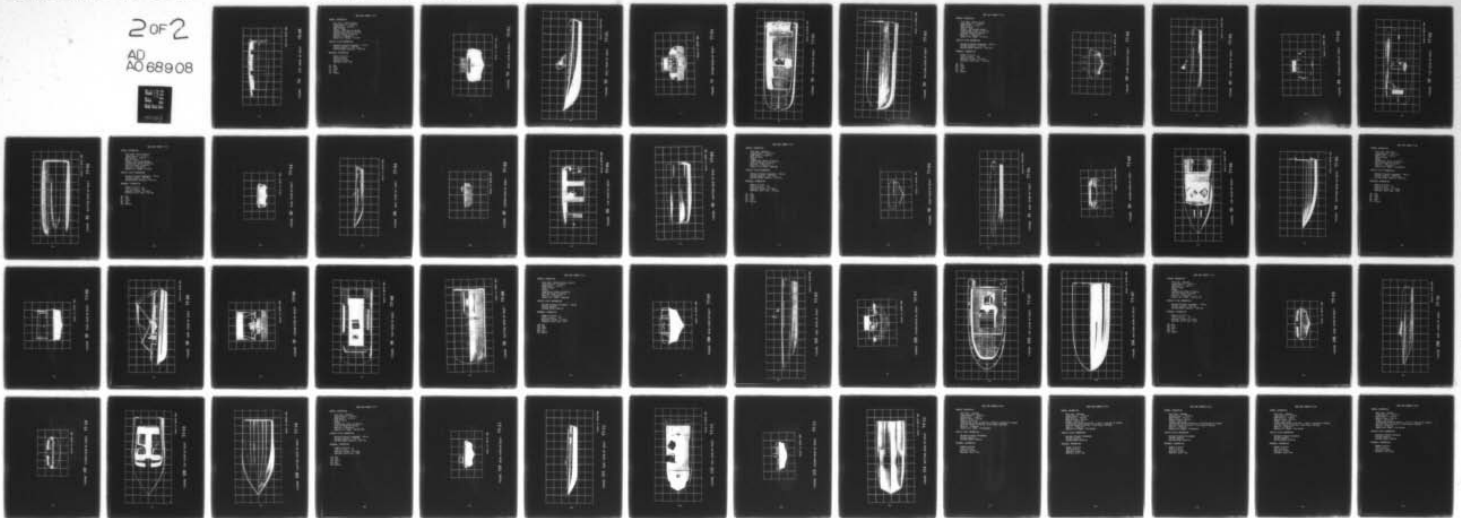
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USCG R AND D CENTER RECREATIONAL BOATING SAFETY TEST BOAT DOCUM--ETC(U)
NOV 78 R SECREST, R YOUNG, R CASTRONOVA
CGR/DC-3/79 USCG-D-11-79 NL

UNCLASSIFIED

2 OF 2

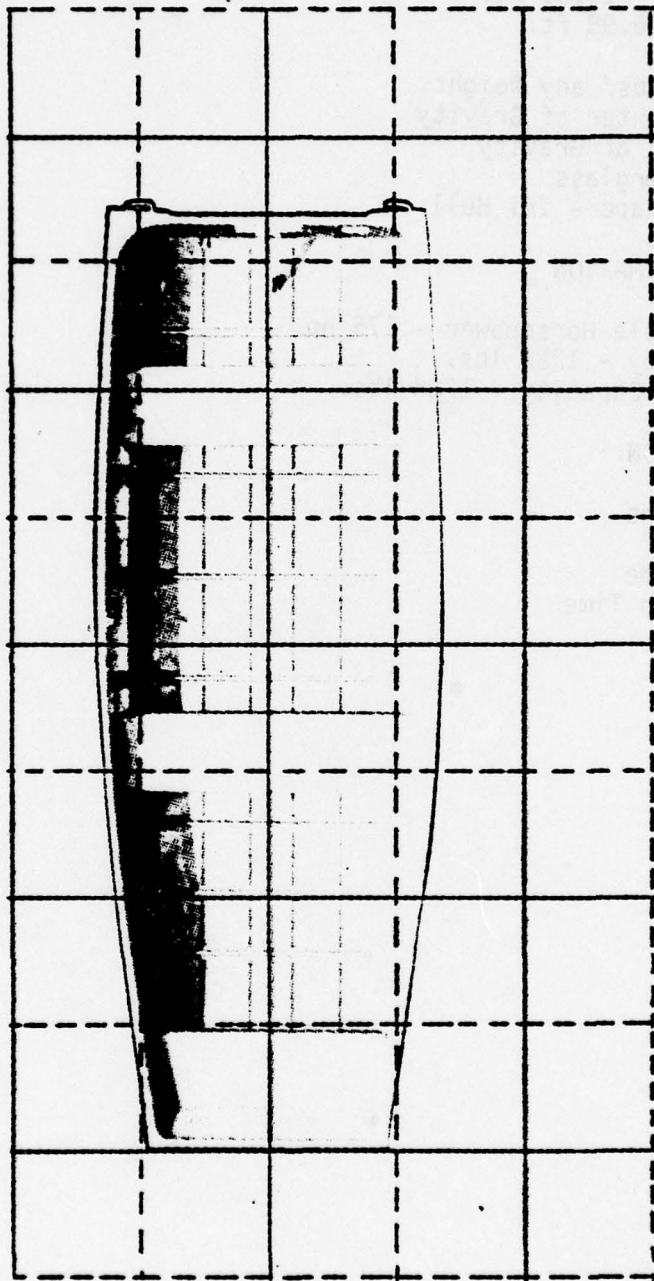
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AD 68908



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6 --79

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SCAL: 1/2 METER GRID

FIGURE 74 TOP VIEW OF BOAT 75-26

R&DC BOAT NUMBER 77-01

GENERAL INFORMATION

Boat Type - Center Console
Length Overall - 19.09 ft.
Beam Overall - 6.98 ft.
Beam at Chine
Weight - 1500 lbs/ any weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Tri Hull

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 175 hp
Persons Capacity - 1286 lbs.
Maximum Weight Capacity - 1286 lbs.

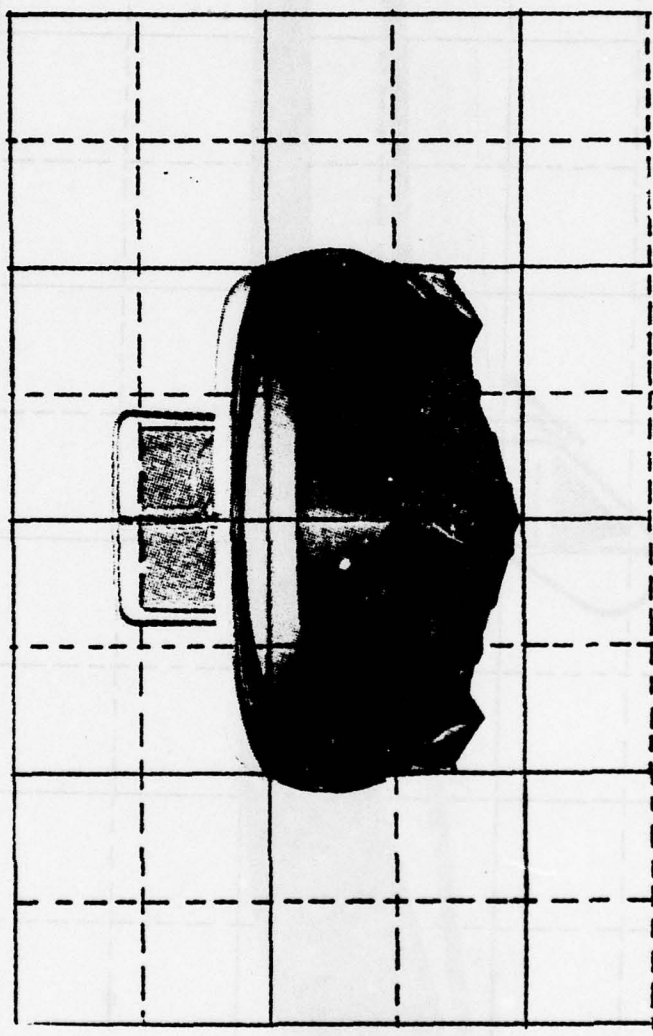
MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

- 75. Bow
- 76. Side
- 77. Stern
- 78. Top
- 79. Bottom

LIGNE 10 BIDE ALEM DE BOVI 10-01

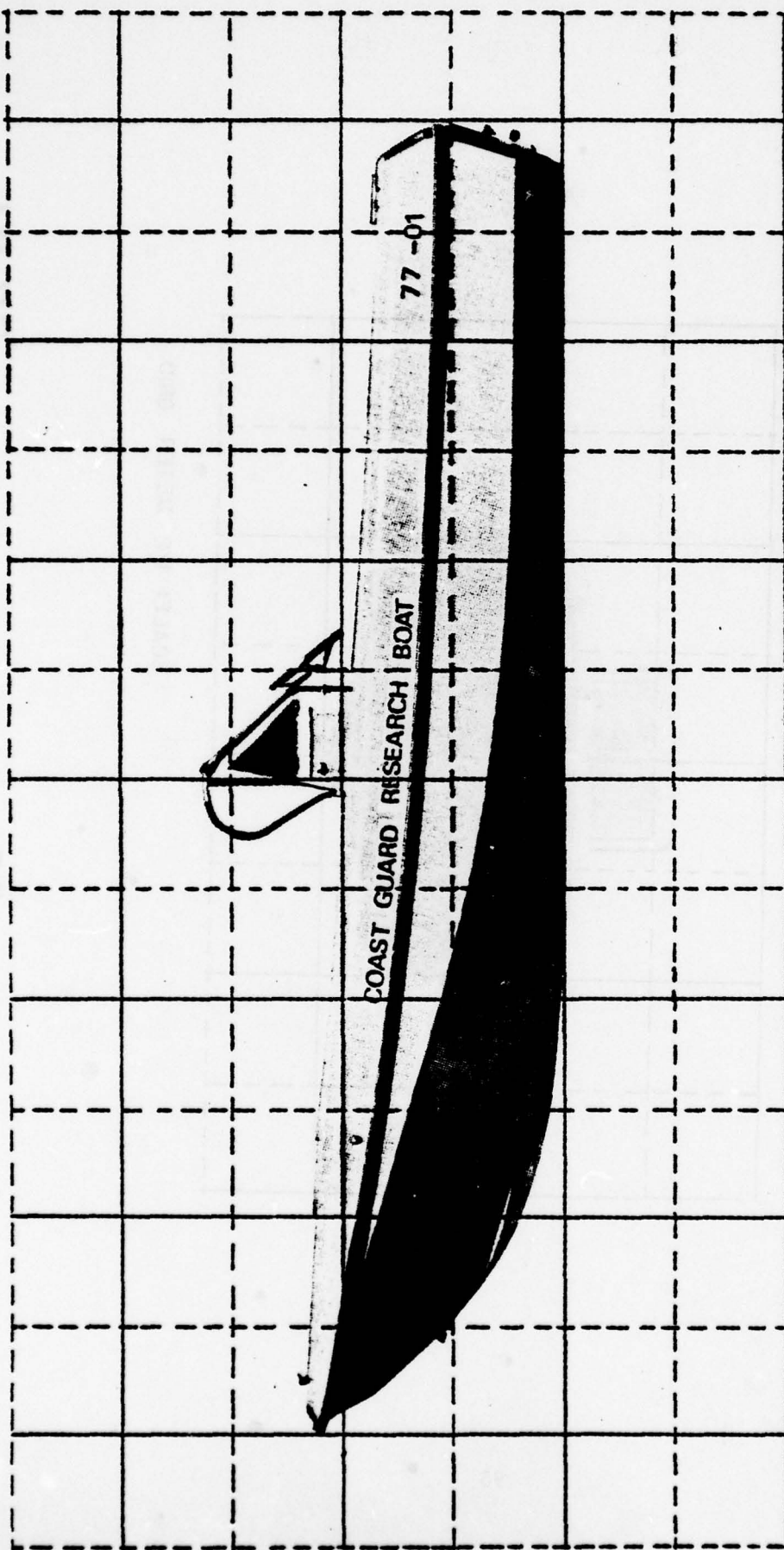
SCALE 1/2 METER GRID



SCALE: 1/2 METER GRID

FIGURE 75 BOW VIEW OF BOAT 77-01

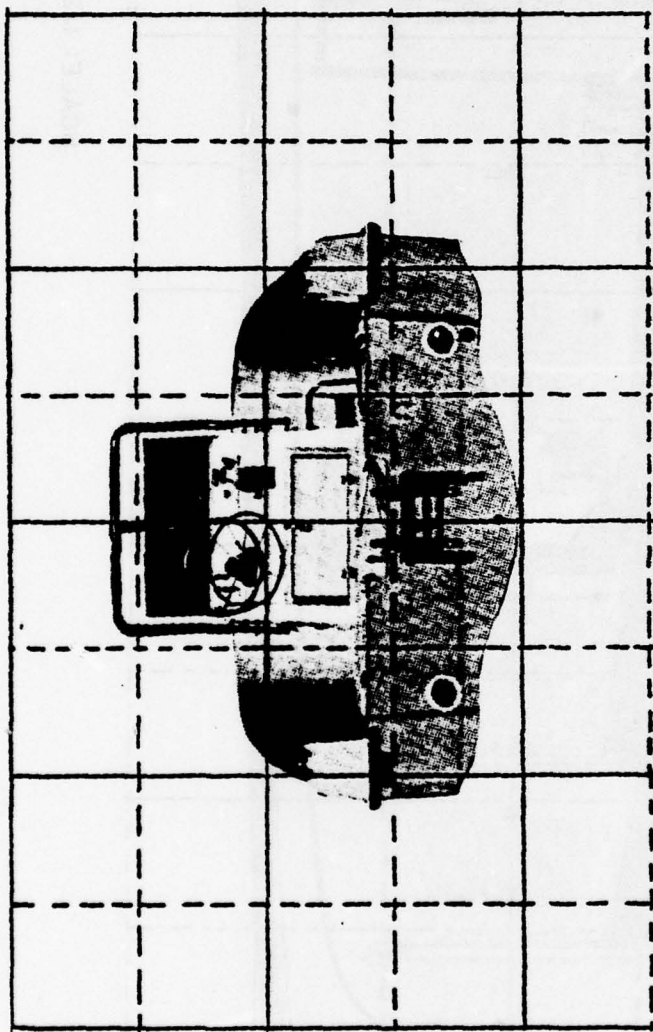
FIGURE 76 - BOW VIEW OF BOAT



SCALE: 1/2 METER GRID

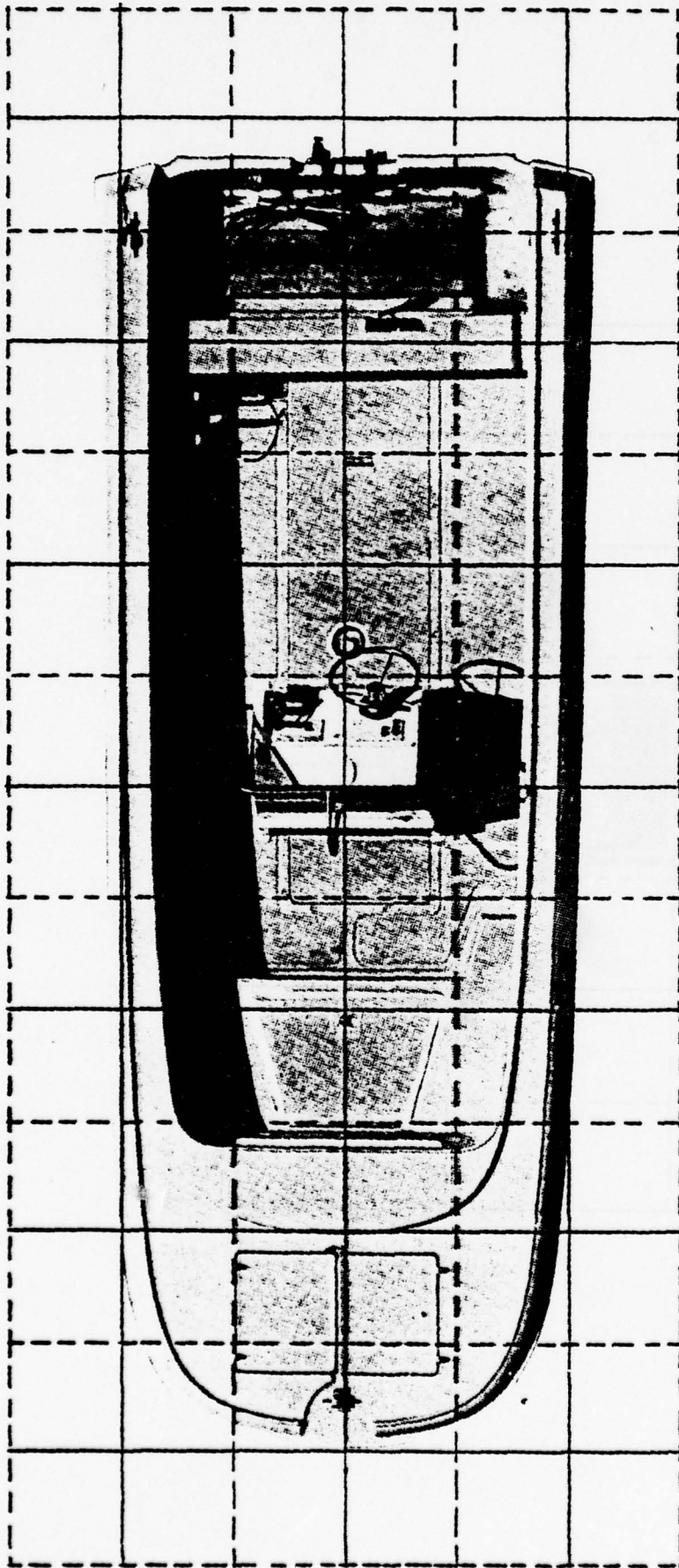
77-01

FIGURE 76 SIDE VIEW OF BOAT



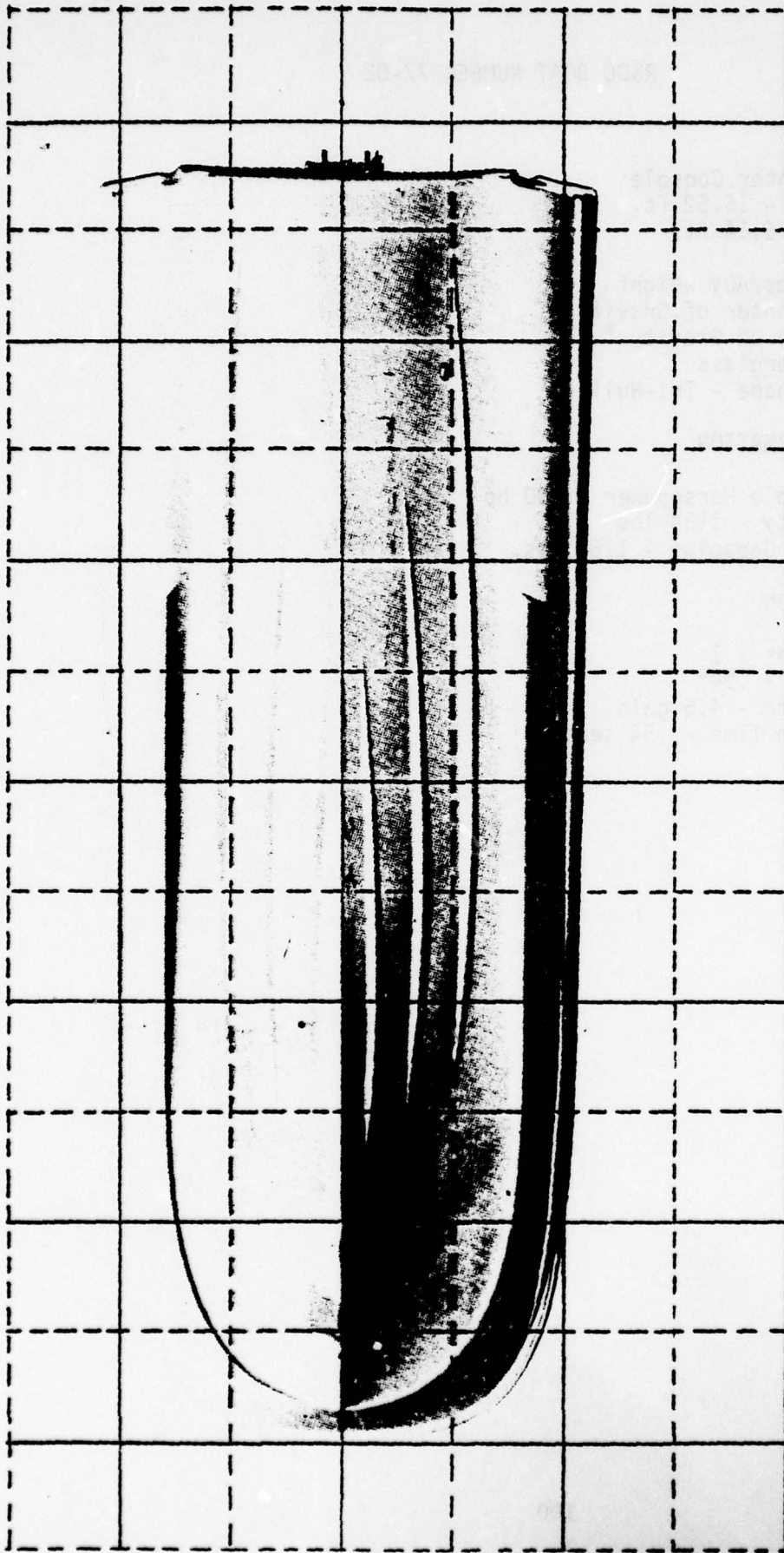
SCALE: 1/2 METER GRID

FIGURE 77 STERN VIEW OF BOAT 77-01



SCALE: 1/2 METER GRID

FIGURE 78 TOP VIEW OF BOAT 77-01



SCALE: 1/2 METER GRID

FIGURE 79 BOTTOM VIEW OF BOAT 77-01

R&DC BOAT NUMBER 77-02

GENERAL INFORMATION

Boat Type - Center Console
Length Overall - 16.52 ft.
Beam Overall - 6.14 ft.
Beam at Chine
Weight - 900 lbs/ADV weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Tri-Hull

CAPACITY PLATE INFORMATION

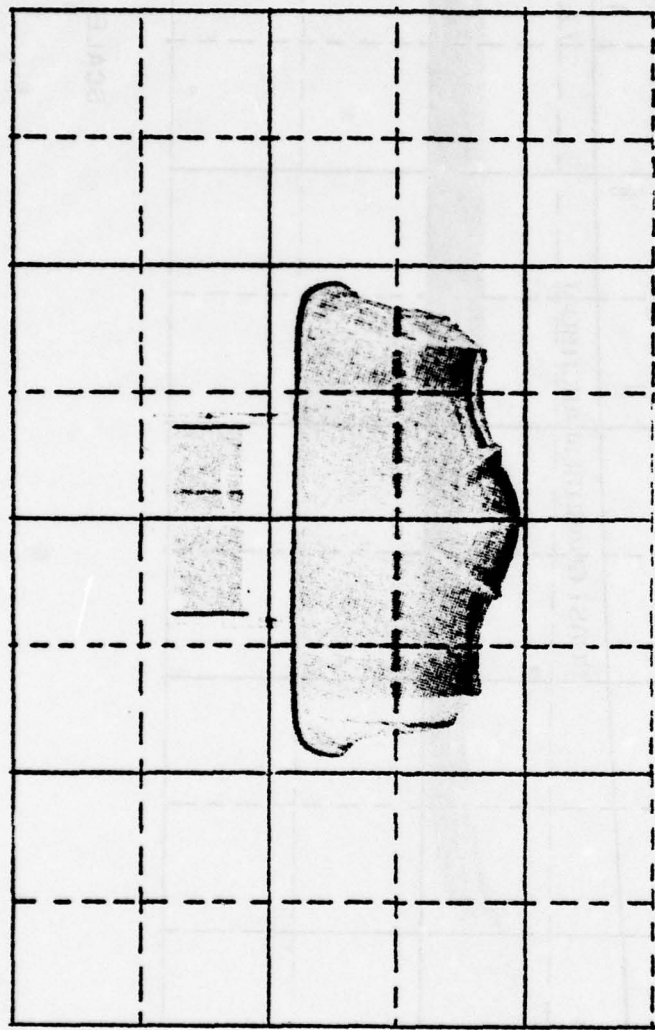
Maximum Allowable Horsepower - 100 hp
Persons Capacity - 1154 lbs
Maximum Weight Capacity - 1154 lbs.

MOTORWELL INFORMATION

Number of Drains - 1
Size of Drains - .94"
Motorwell Volume - 4.6 gals
Motorwell Drain Time - .54 secs

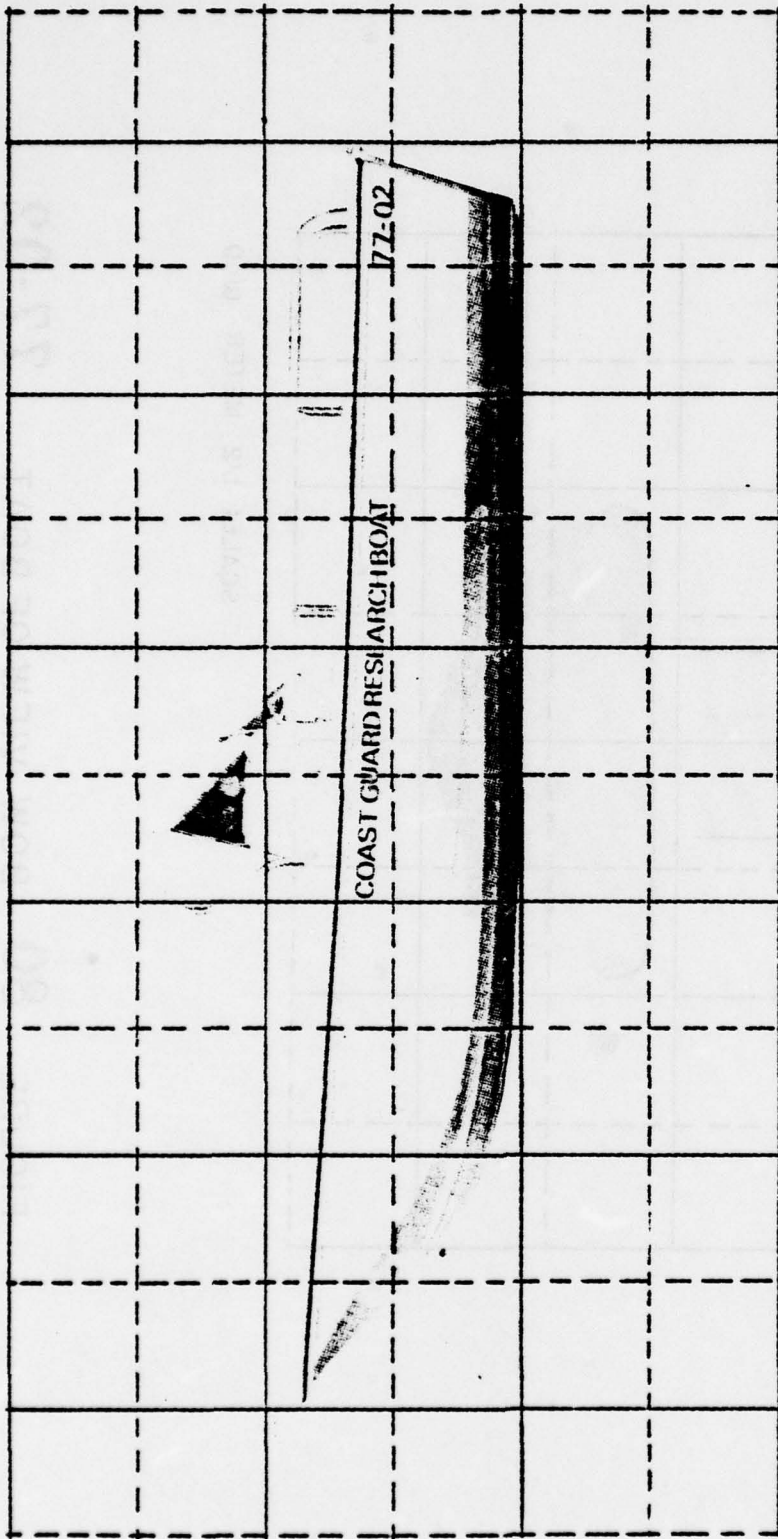
- 80. Bow
- 81. Side
- 82. Stern
- 83. Top
- 84. Bottom

FIGURE 81 SIDE VIEW OF BOAT 11-05



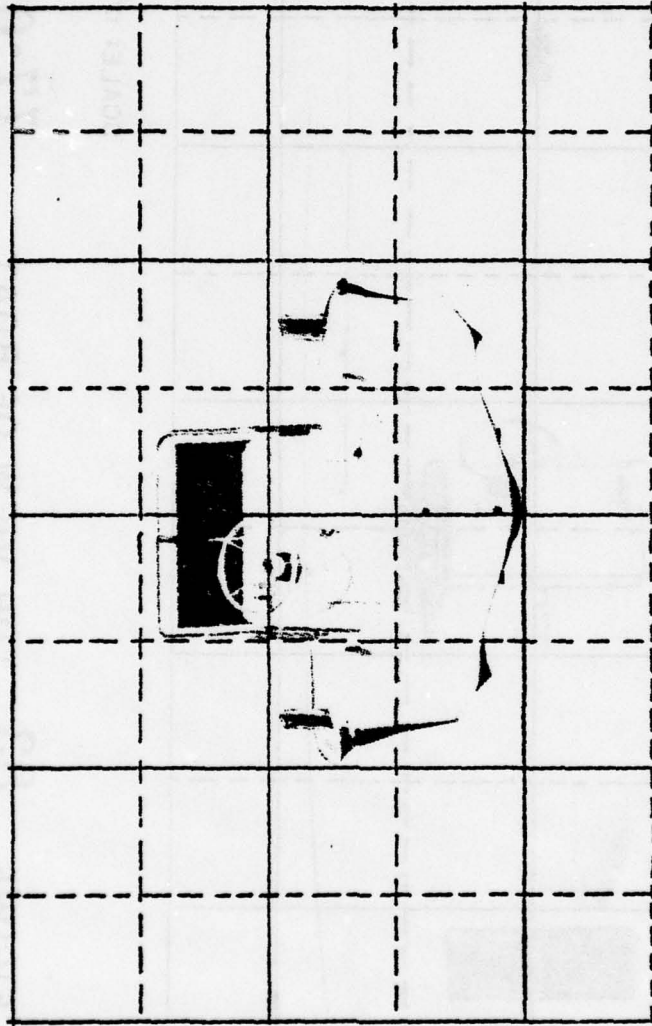
SCALE: 1/2 METER GRID

FIGURE 80 BOW VIEW OF BOAT 77-02



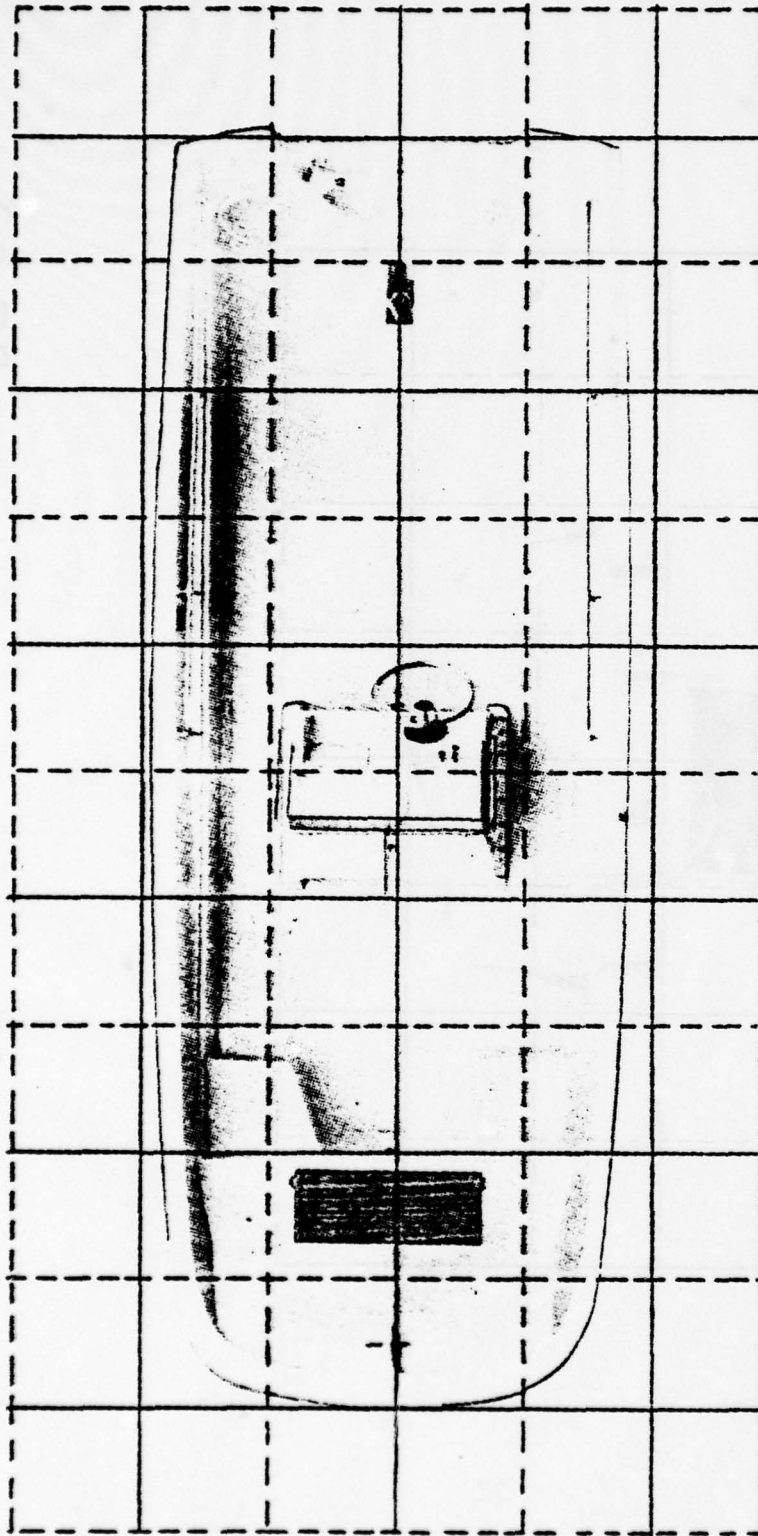
SCALE: 1/2 METER GRID

FIGURE 81 SIDE VIEW OF BOAT 77-02



SCALE: 1/2 METER GRID

FIGURE 82 STERN VIEW OF BOAT 77-02

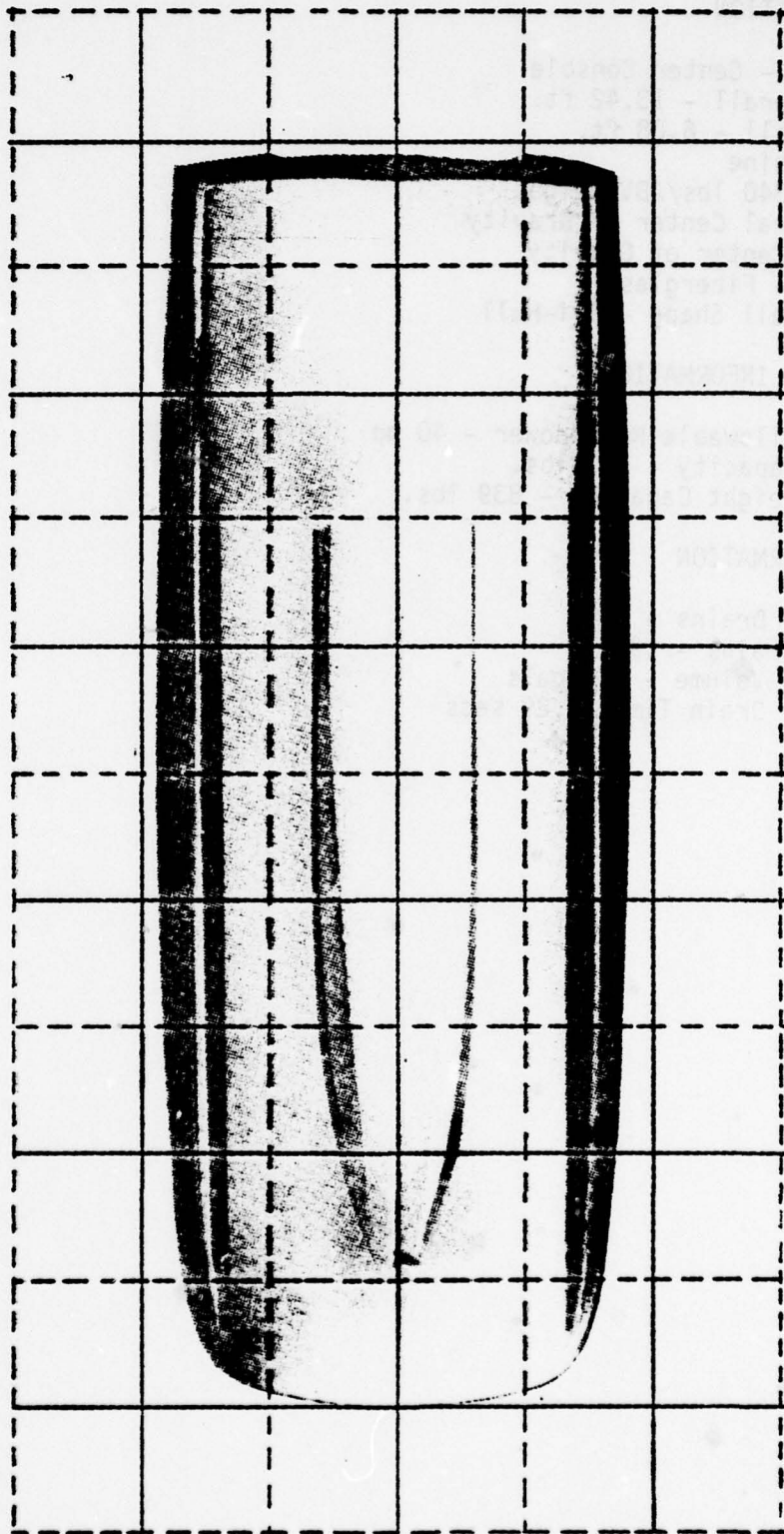


SCALE: 1/2 METER GRID

77-02

FIGURE 83 TOP VIEW OF BOAT

83



SCALE: 1/2 METER GRID

FIGURE 84 BOTTOM VIEW OF BOAT 77-02

R&DC BOAT NUMBER 77-04

GENERAL INFORMATION

Boat Type - Center Console
Length Overall - 13.42 ft.
Beam Overall - 6.08 ft.
Beam at Chine
Weight - 340 lbs/ADV Weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Tri-Hull

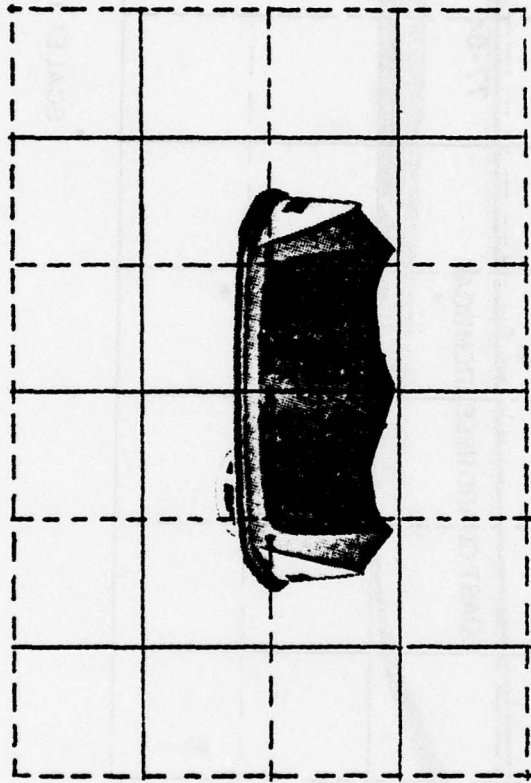
CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 40 hp
Persons Capacity - 827 lbs.
Maximum Weight Capacity - 839 lbs.

MOTORWELL INFORMATION

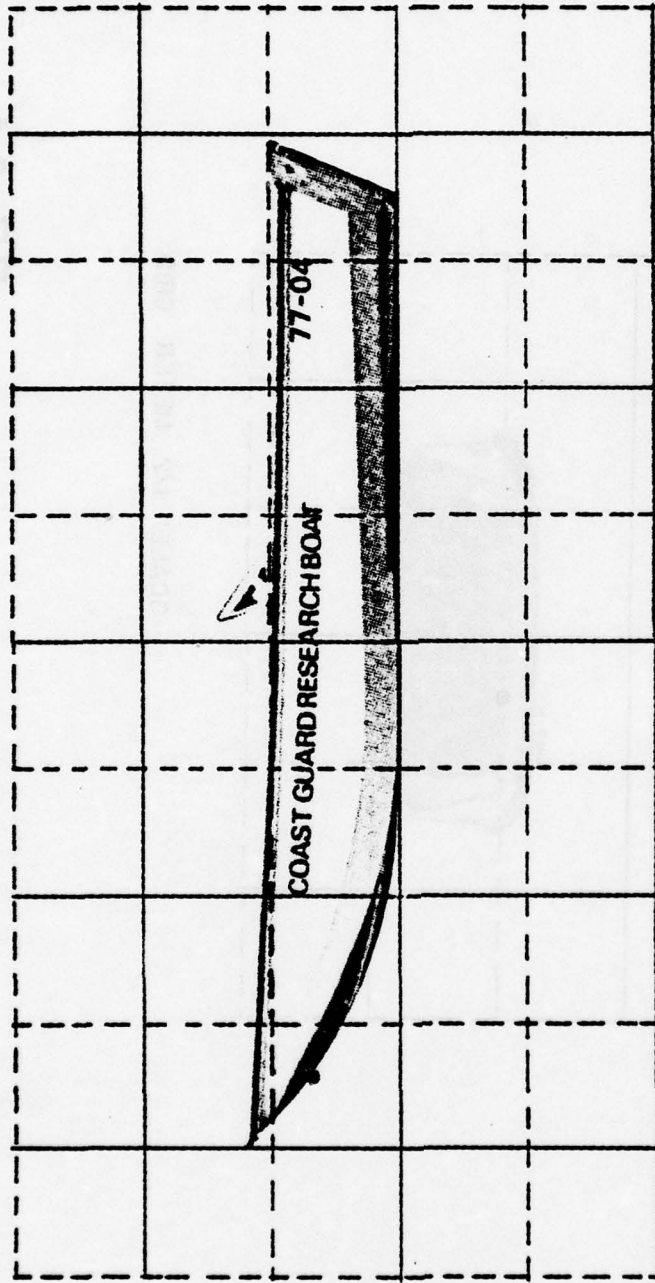
Number of Drains - 1
Size of Drains - .94"
Motorwell Volume - 4.6 gals
Motorwell Drain Time - .29 secs

- 85. Bow
- 86. Side
- 87. Stern
- 88. Top
- 89. Bottom



SCALE: 1/2 METER GRID

FIGURE 85 BOW VIEW OF BOAT 77-04



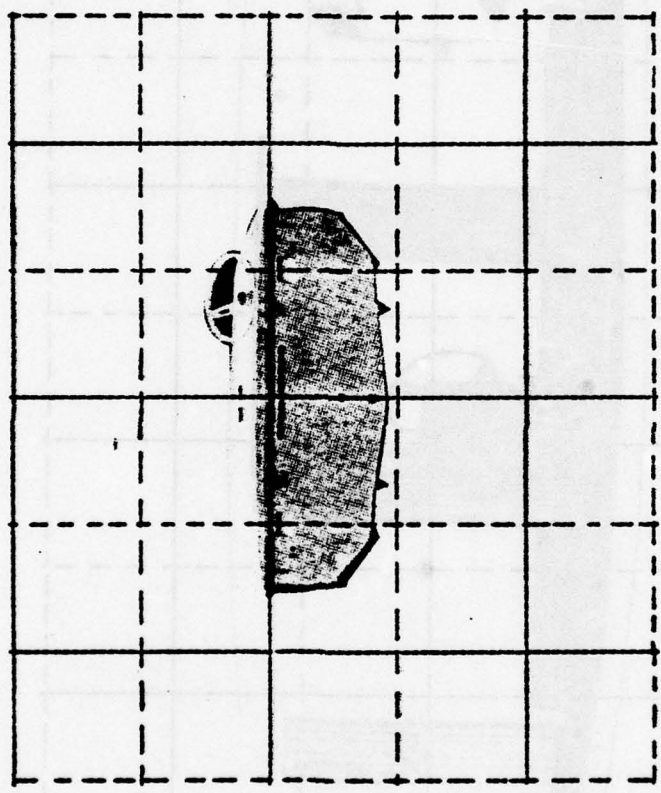
SCALE: 1/2 METER GRID

FIGURE 86 SIDE VIEW OF BOAT 77-04

LICENSE 88 JOB VIEW OF BOAT

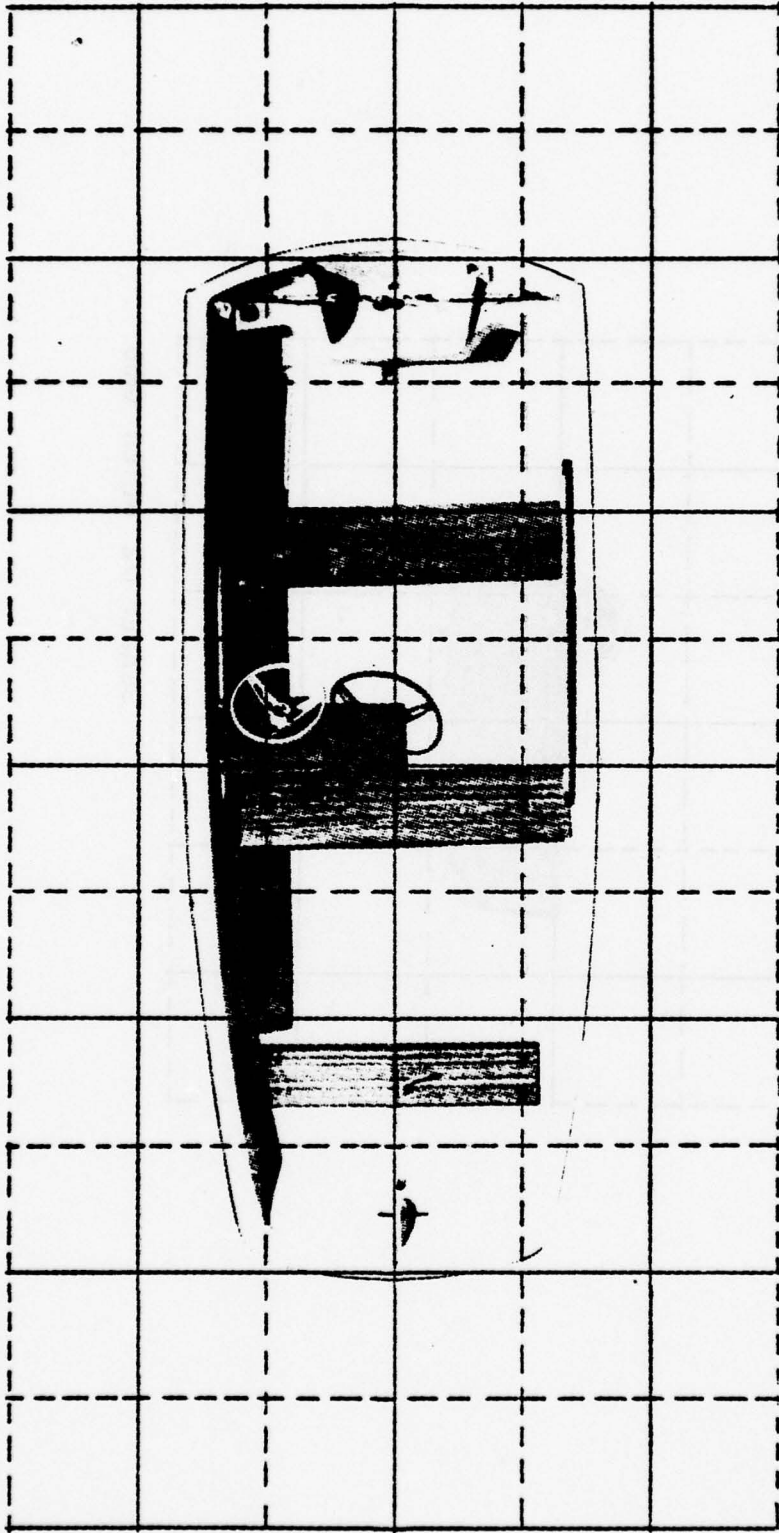
77-04

COFFEE AND MILK GRID



SCALE: 1/2 METER GRID

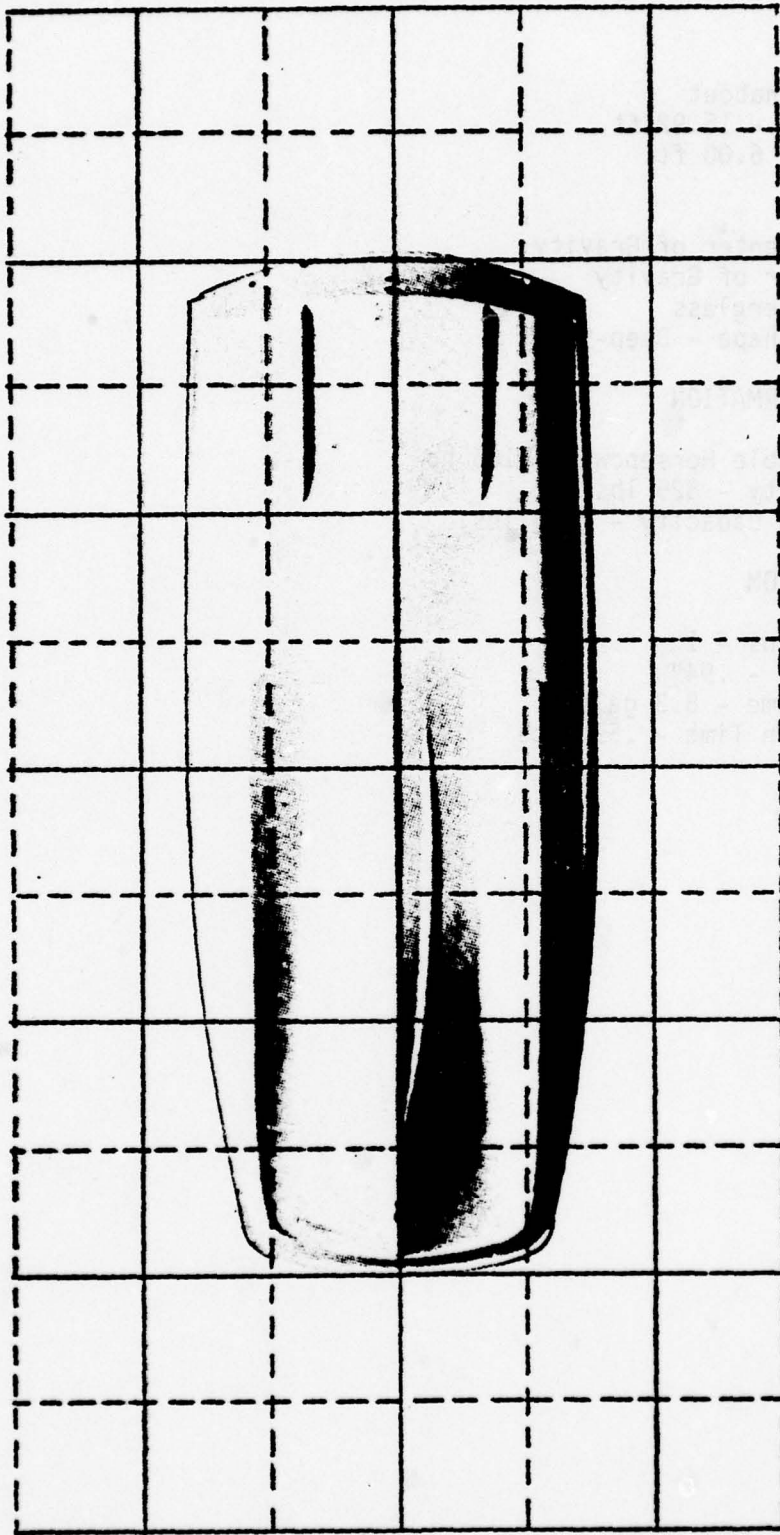
FIGURE 87 STERN VIEW OF BOAT 77-04



SCALE: 1/2 METER GRID

77-04

FIGURE 88 TOP VIEW OF BOAT



SCALE: 1/2 METER GRID

77-04

FIGURE 89 BOTTOM VIEW OF BOAT

R&DC BOAT NUMBER 77-05

GENERAL INFORMATION

Boat Type - Runabout
Length Overall - 15.92 ft.
Beam Overall - 6.08 ft.
Beam at Chine
Weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Deep-Vee

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 105 hp
Persons Capacity - 825 lbs.
Maximum Weight Capacity - 1275 lbs.

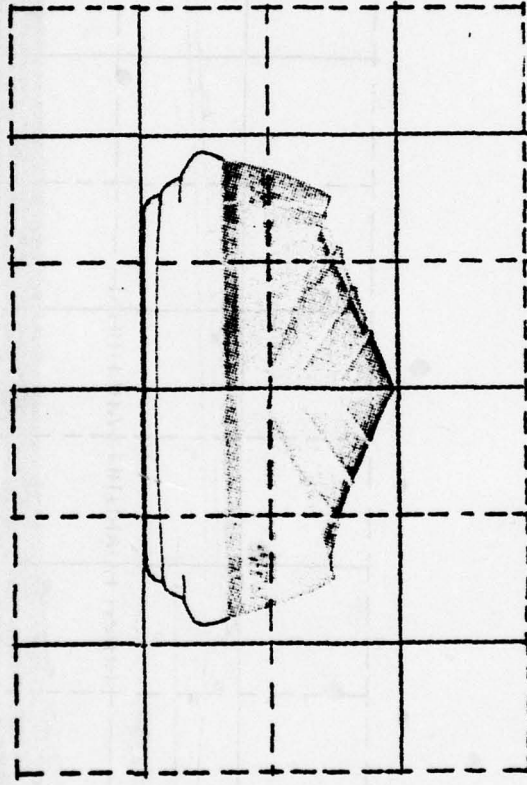
MOTORWELL INFORMATION

Number of Drains - 1
Size of Drains - .94"
Motorwell Volume - 8.3 gals
Motorwell Drain Time - .59 secs

- 90. Bow
- 91. Side
- 92. Stern
- 93. Top
- 94. Bottom

FIGURE 90 BOW VIEW OF BOAT

SCALE: 1/2 METER GRID

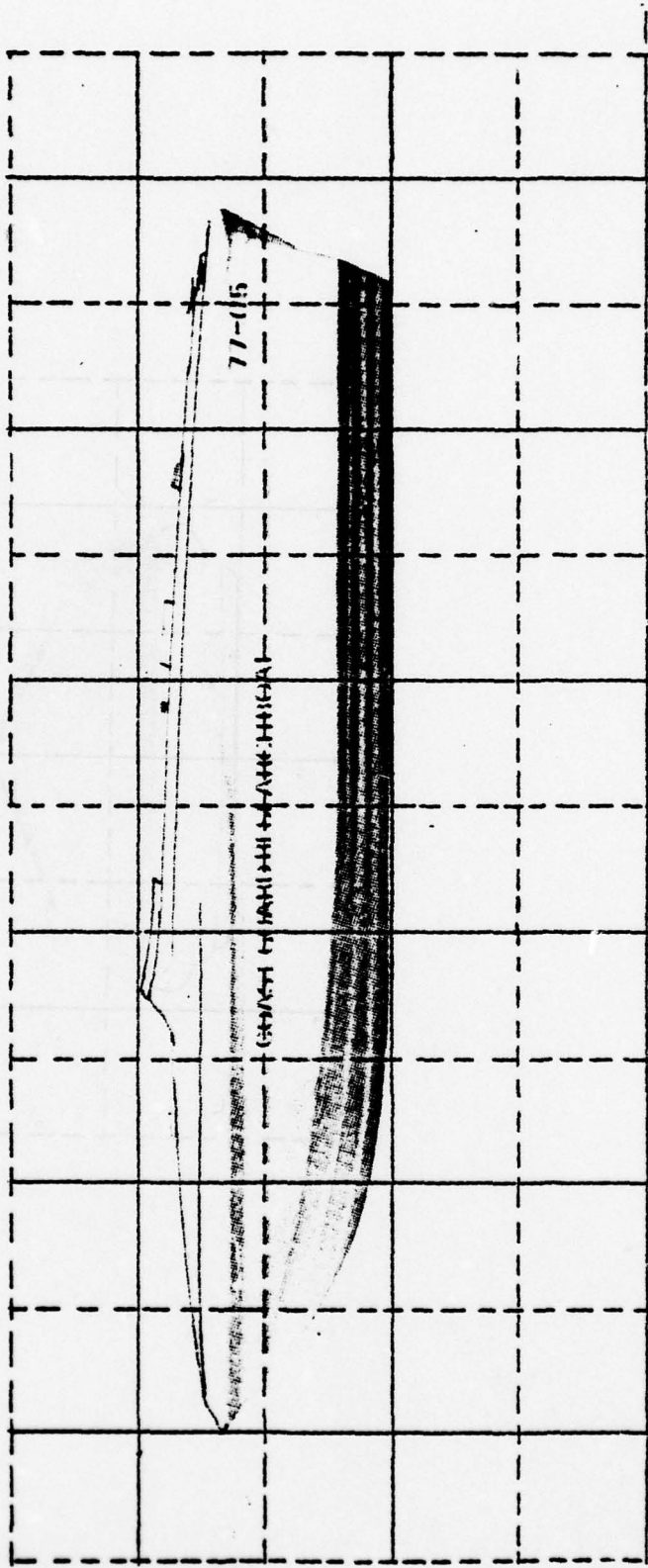


SCALE: 1/2 METER GRID

FIGURE 90 BOW VIEW OF BOAT 77-05

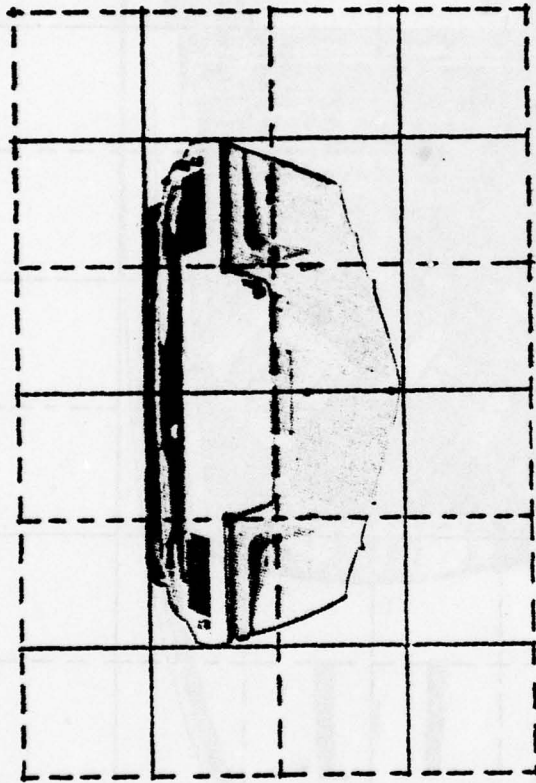
FIGURE 90 BOW VIEW OF BOAT 77-05

BOAT 77-05 METRIC GRID



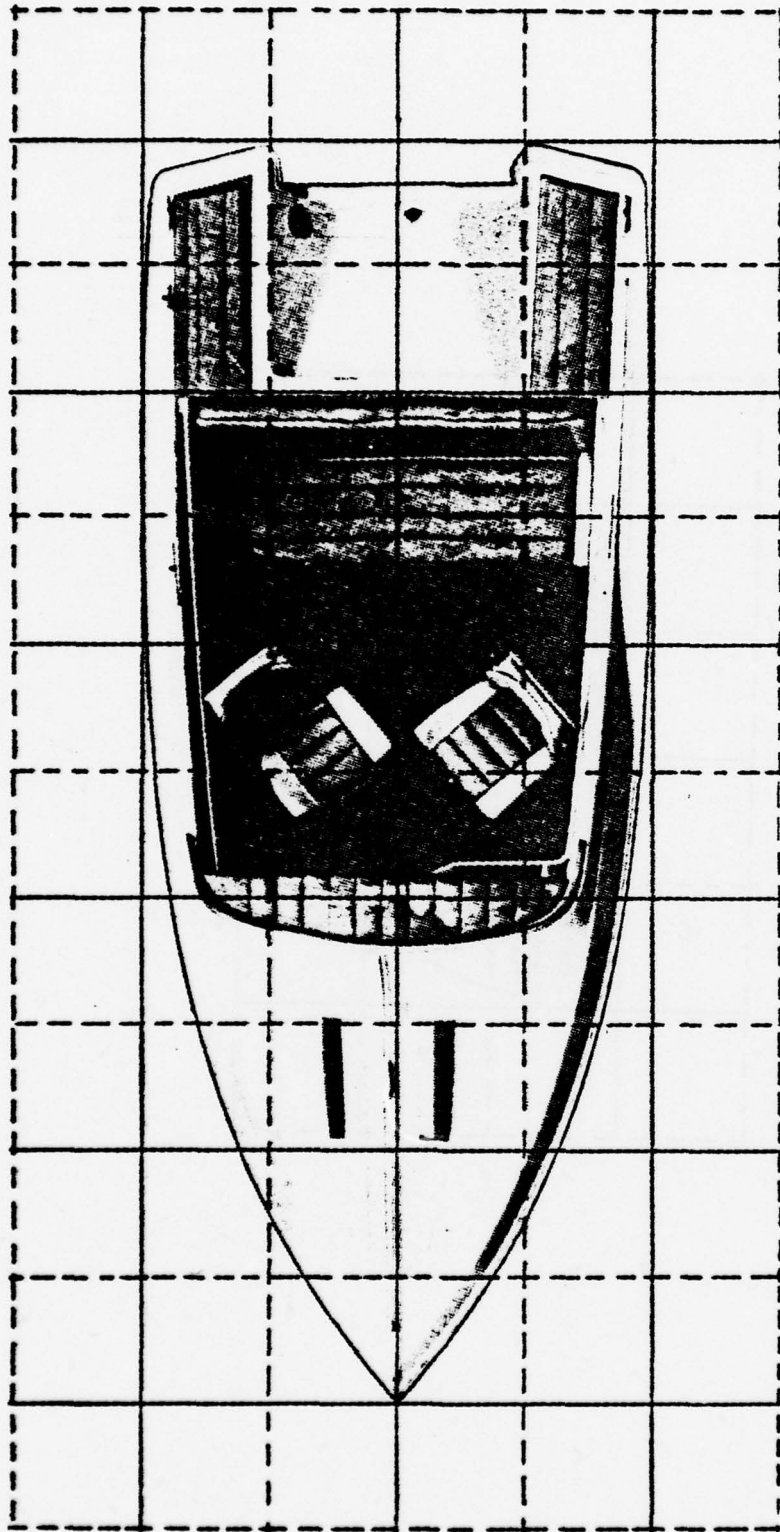
SCALE: 1/2 METER GRID

FIGURE 91 SIDE VIEW OF BOAT 77-05



SCALE: 1/2 METER GRID

FIGURE 92 STERN VIEW OF BOAT 77-05



SCALE: 1/2 METER GRID

77-05

FIGURE 93 TOP VIEW OF BOAT



SCALE: 1/2 METER GRID

FIGURE 94 BOTTOM VIEW OF BOAT 77-05

R&DC BOAT NUMBER 77-06

GENERAL INFORMATION

Boat Type - Deck Boat
Length Overall - 16.11 ft.
Beam Overall - 6.62 ft.
Beam at Chine
Weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Flat Bottom

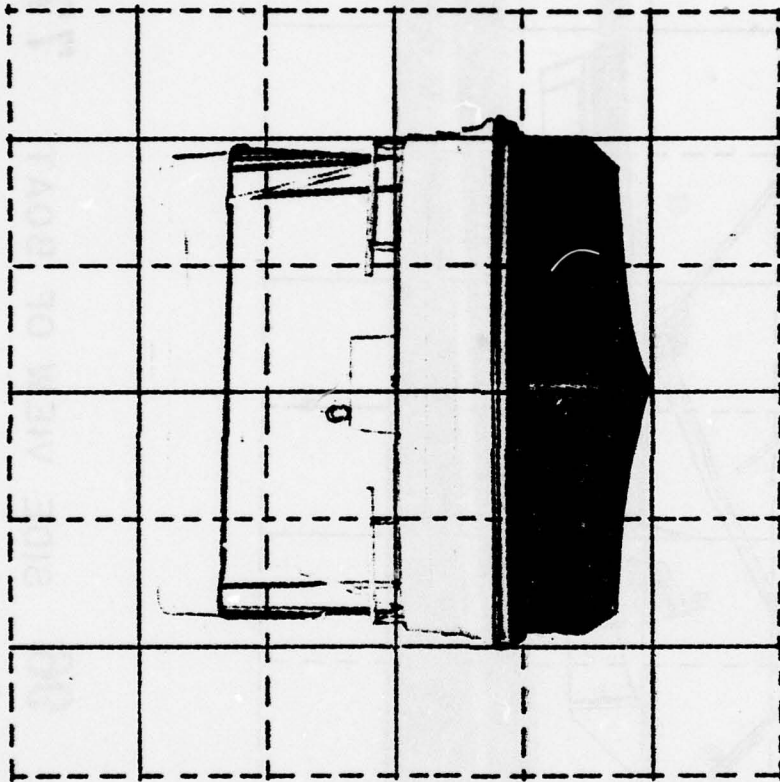
CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 135 hp
Persons Capacity - 1065 lbs.
Maximum Weight Capacity - 1636 lbs

MOTORWELL INFORMATION

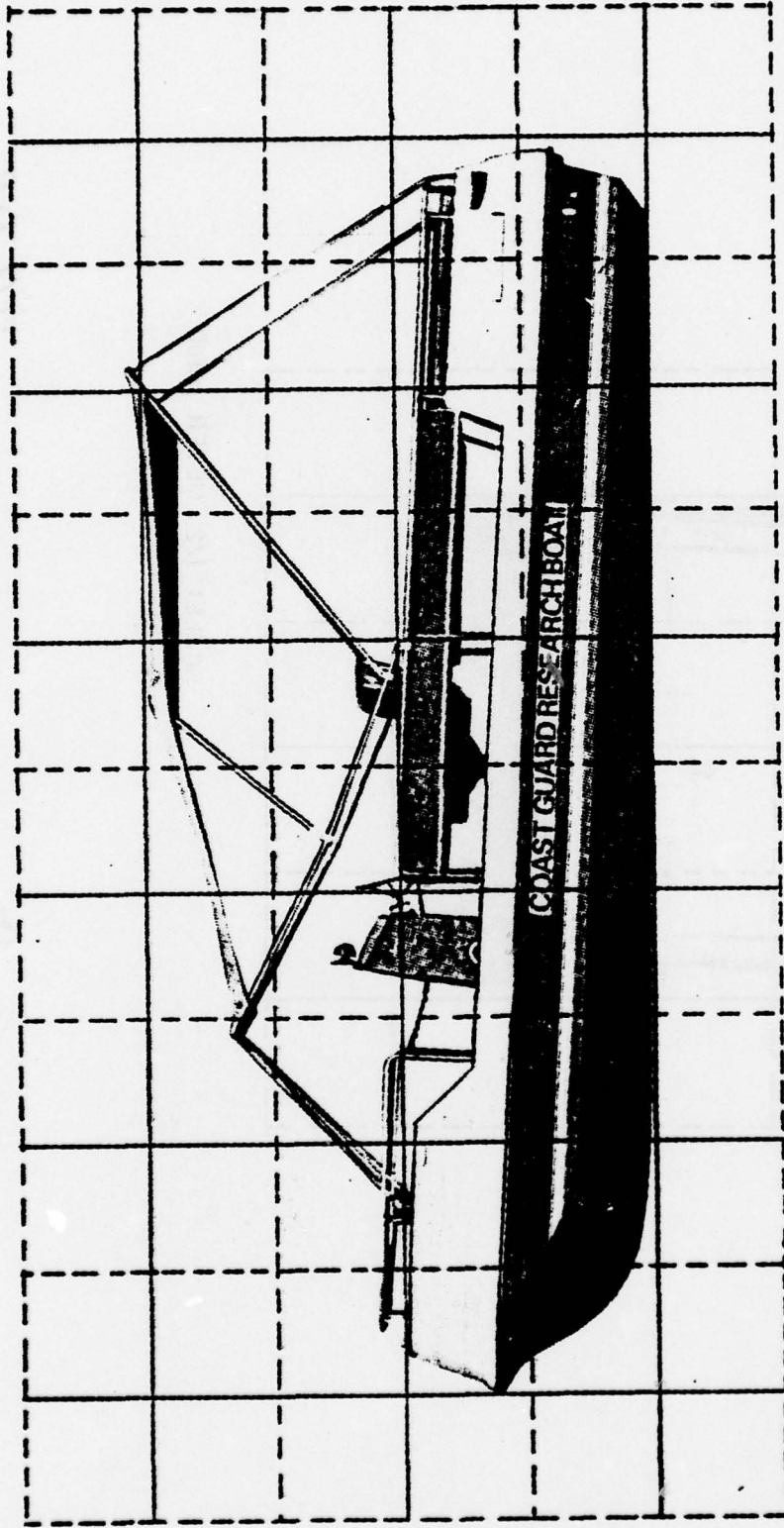
Number of Drains - 1
Size of Drains - .75"
Motorwell Volume - 18.5 gals.
Motorwell Drain Time - 5.45

- 95. Bow
- 96. Side
- 97. Stern
- 98. Top
- 99. Bottom



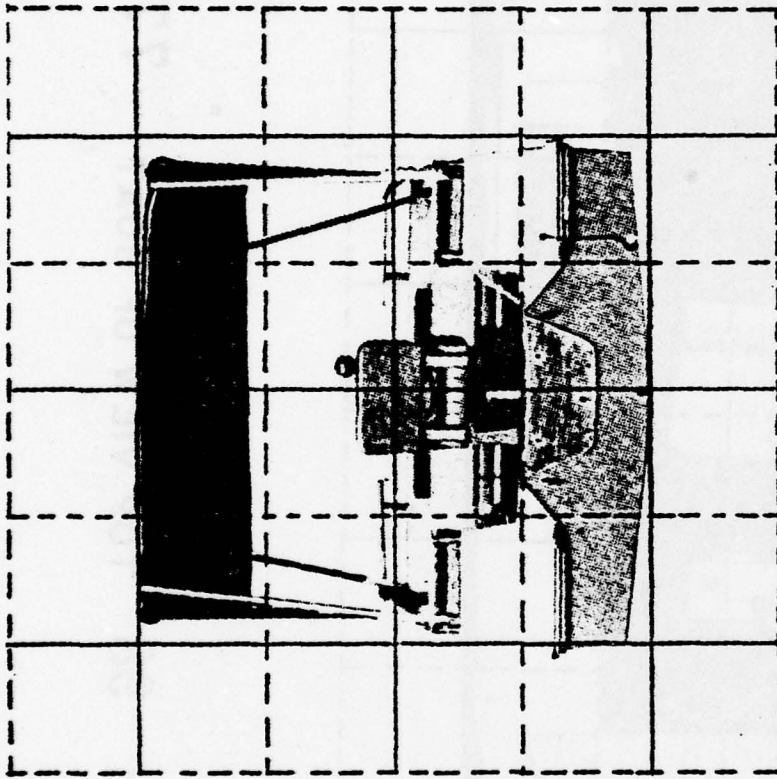
SCALE: 1/2 METER GRID

FIGURE 95 BOW VIEW OF BOAT 77-06



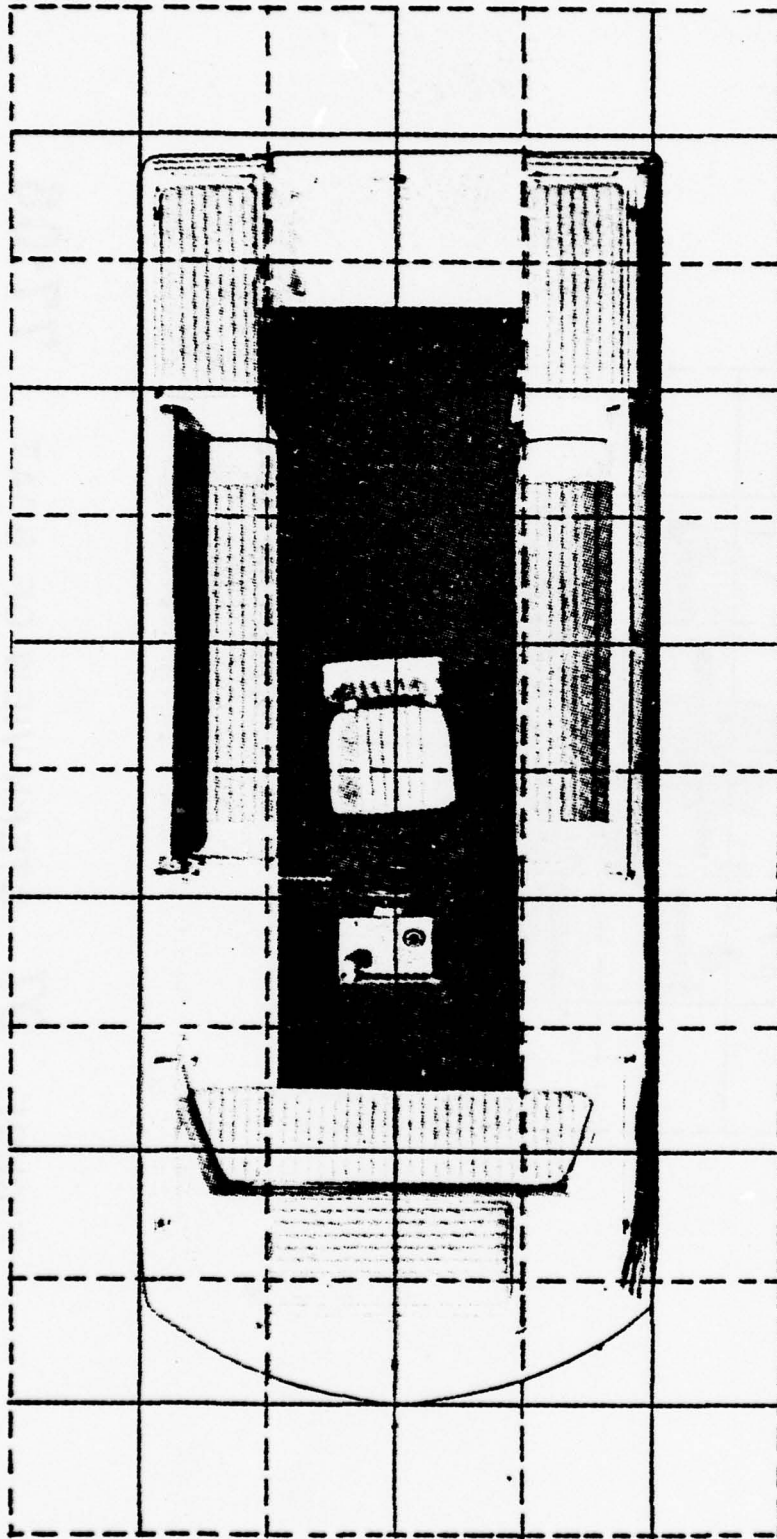
SCALE: 1/2 METER GRID

FIGURE 96 SIDE VIEW OF BOAT 77-06



SCALE: 1/2 METER GRID

FIGURE 97 STERN VIEW OF BOAT 77-06

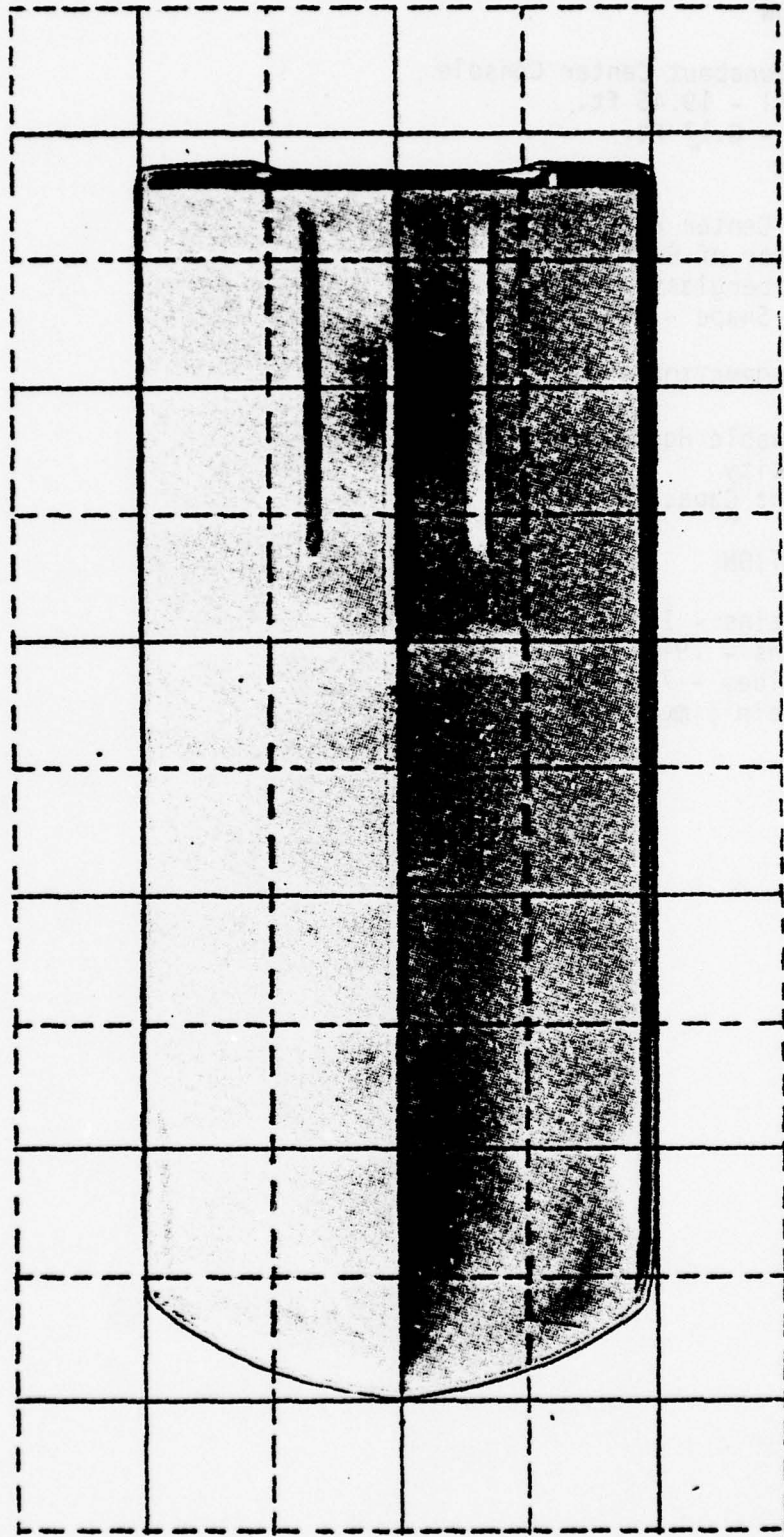


SCALE: 1/2 METER GRID

77-06

TOP VIEW OF BOAT

FIGURE 98



SCALE: 1/2 METER GRID

77-06

FIGURE 99 BOTTOM VIEW OF BOAT

R&DC BOAT NUMBER 77-07

GENERAL INFORMATION

Boat Type - Runabout Center Console
Length Overall - 19.45 ft.
Beam Overall - 8.17 ft.
Beam at Chine
Weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Deep-Vee

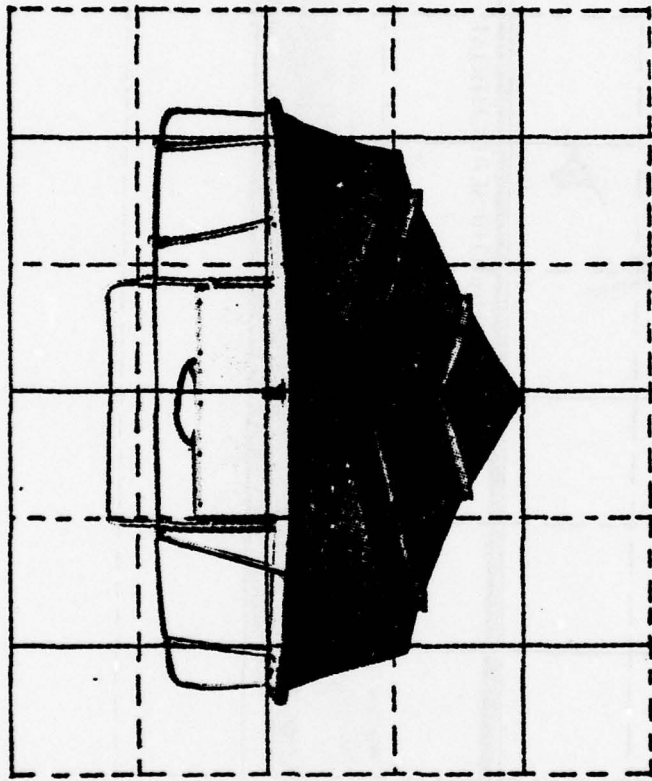
CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 150 hp
Persons Capacity
Maximum Weight Capacity

MOTORWELL INFORMATION

Number of Drains - 1
Size of Drains - .94"
Motorwell Voluem - 7.9 gals
Motorwell Drain Time - 1:11

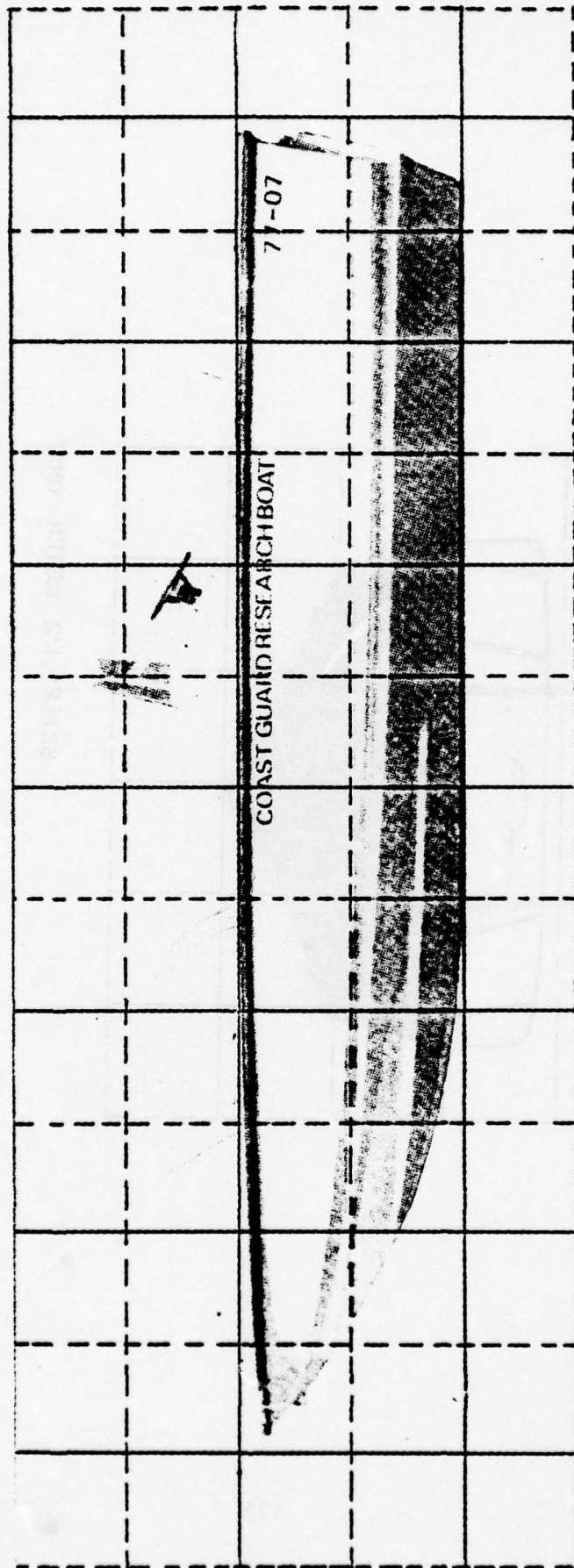
- 100. Bow
- 101. Side
- 102. Stern
- 103. Top
- 104. Bottom



SCALE: 1/2 METER GRID

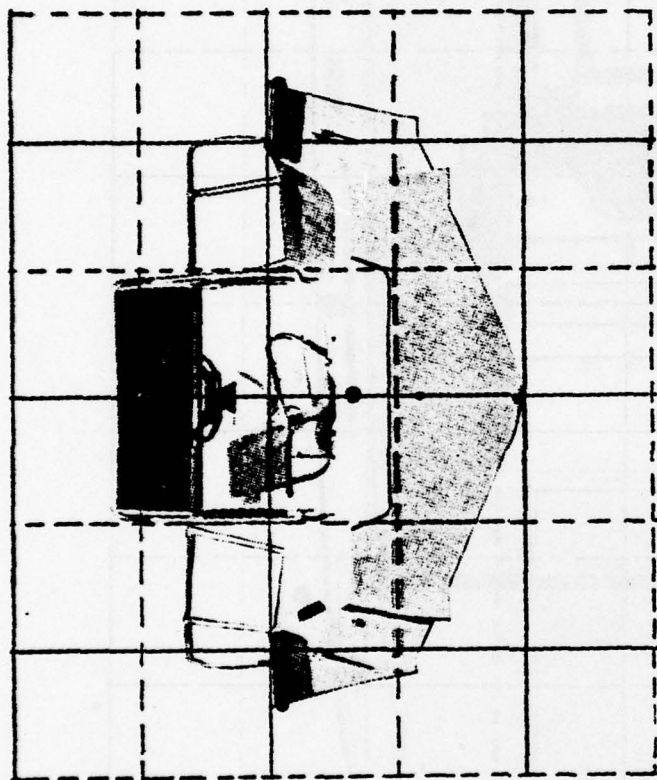
FIGURE 100 BOW VIEW OF BOAT 77-07

FIGURE 100 BOM AREA OF BOAT 77-07



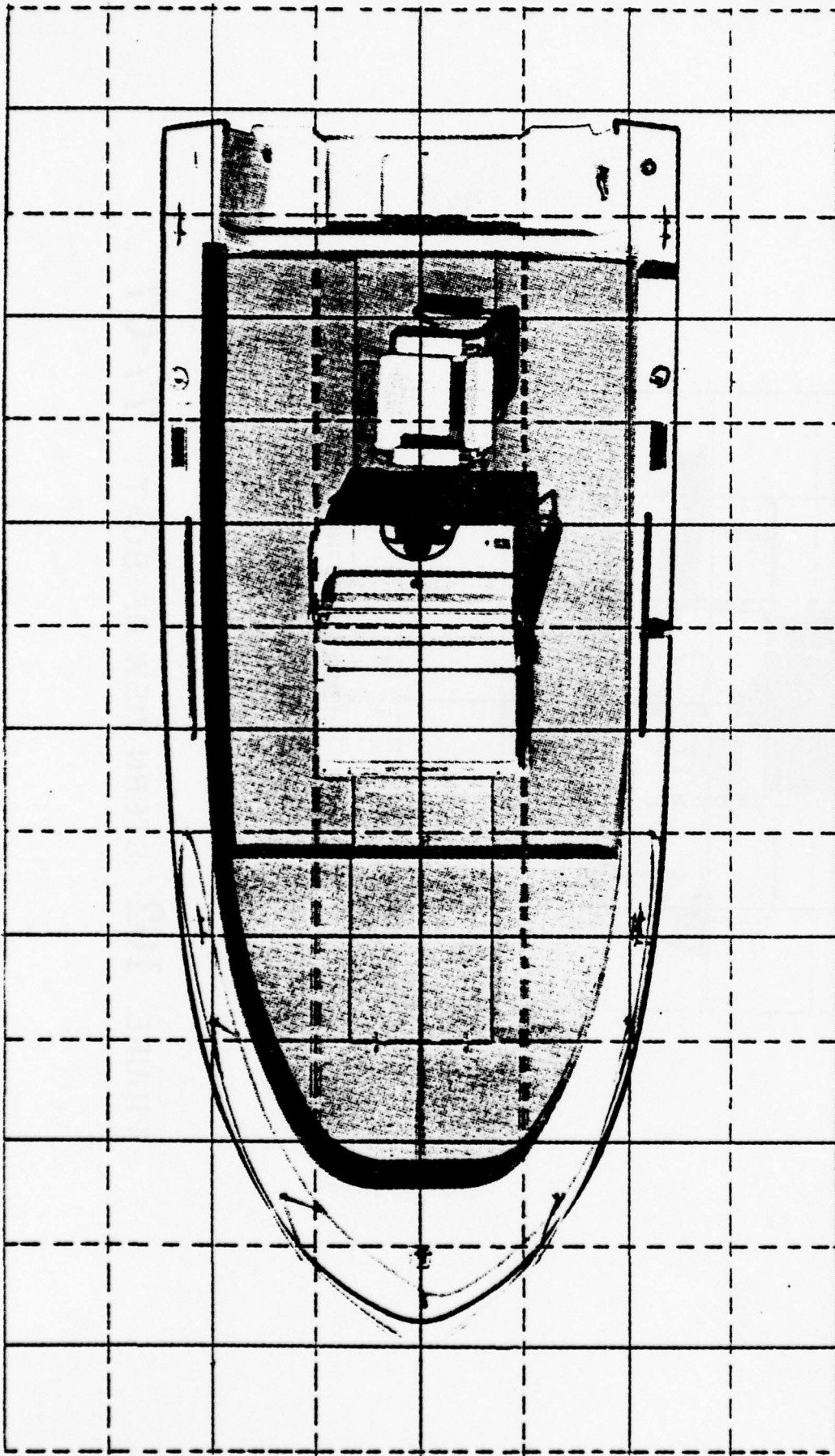
SCALE: 1/2 METER GRID

FIGURE 101 SIDE VIEW OF BOAT 77-07



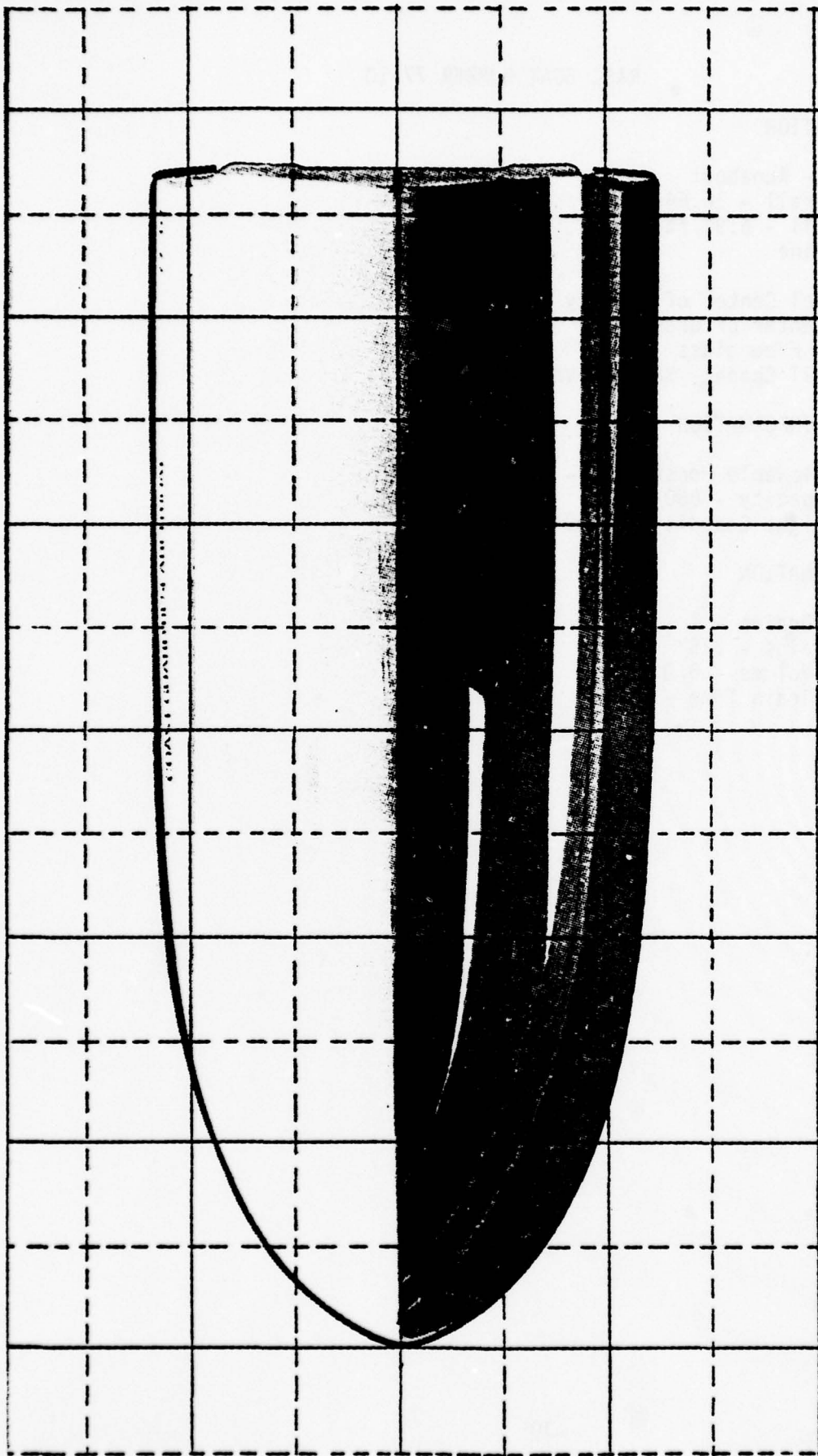
SCALE: 1/2 METER GRID

FIGURE 102 STERN VIEW OF BOAT 77-07



SCALE: 1/2 METER GRID

FIGURE 103 TOP VIEW OF BOAT 77-07



SCALE: 1/2 METER GRID

FIGURE 104 BOTTOM VIEW OF BOAT 77-07

R&DC BOAT NUMBER 77-10

GENERAL INFORMATION

Boat Type - Runabout
Length Overall - 16.64 ft.
Beam Overall - 6.92 ft.
Beam at Chine
Weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Shallow Vee

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 125 hp
Persons Capacity - 860 lbs.
Maximum Weight Capacity - 1300 lbs.

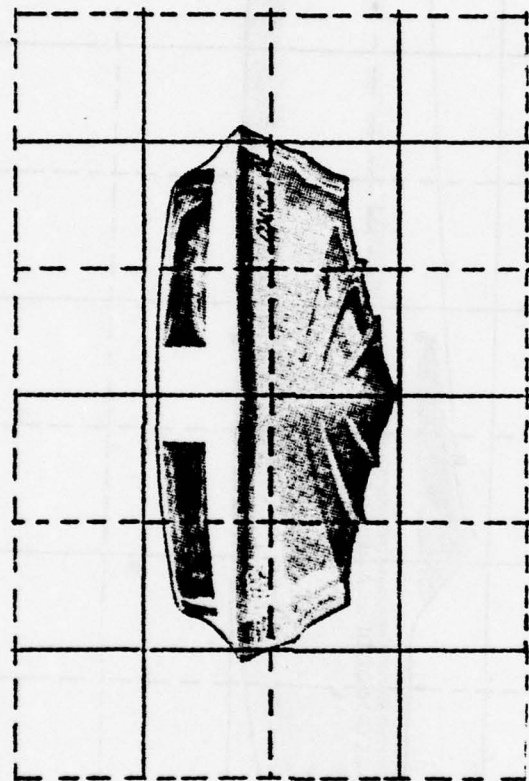
MOTORWELL INFORMATION

Number of Drains - 1
Size of Drains - .75"
Motorwell Volume - 6.0 gals
Motorwell Drain Time - 1:39

- 105. Bow
- 106. Side
- 107. Stern
- 108. Top
- 109. Bottom

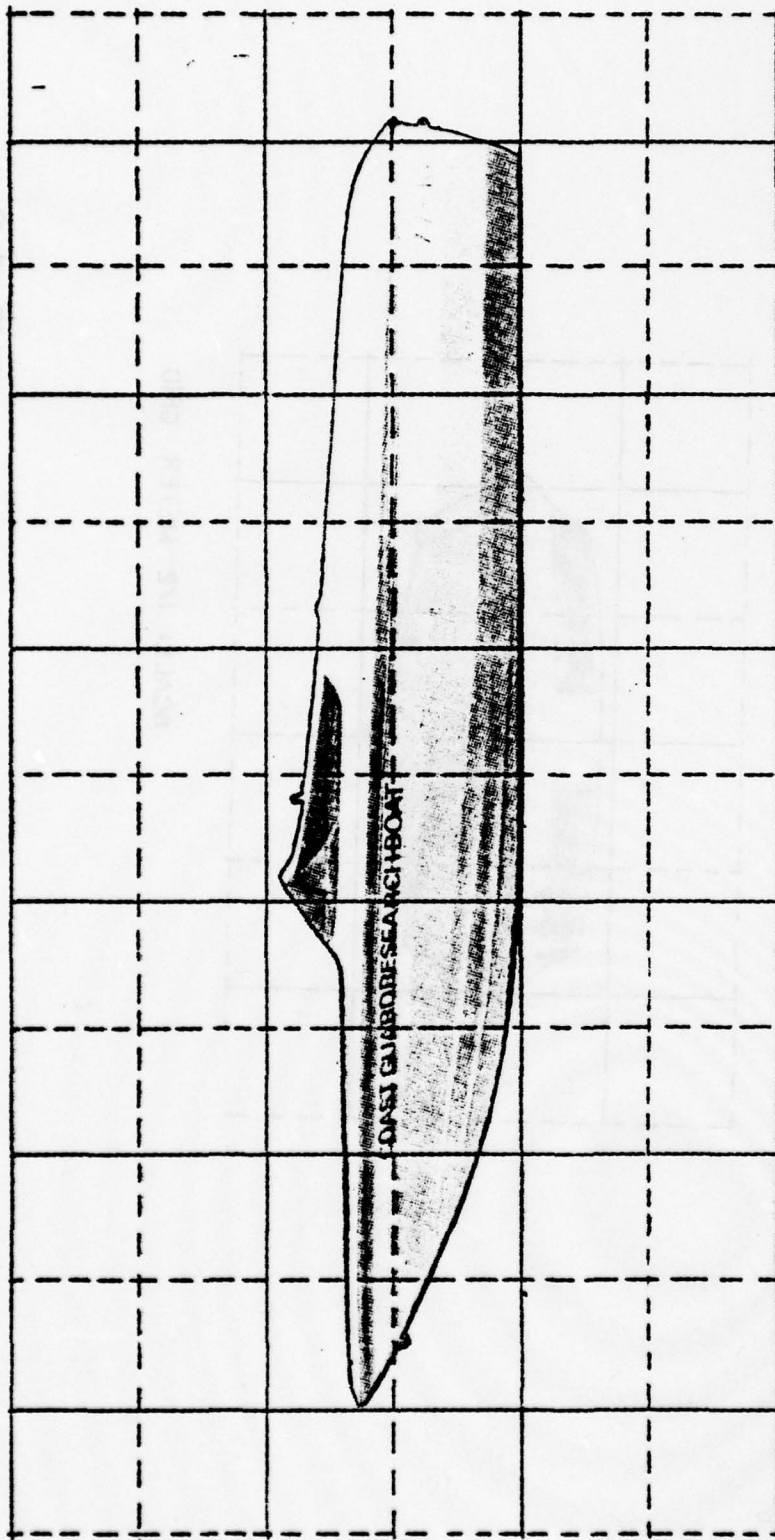
FIGURE 105 BOW VIEW OF BOAT 77-10

SCALE: 1/2 METER GRID



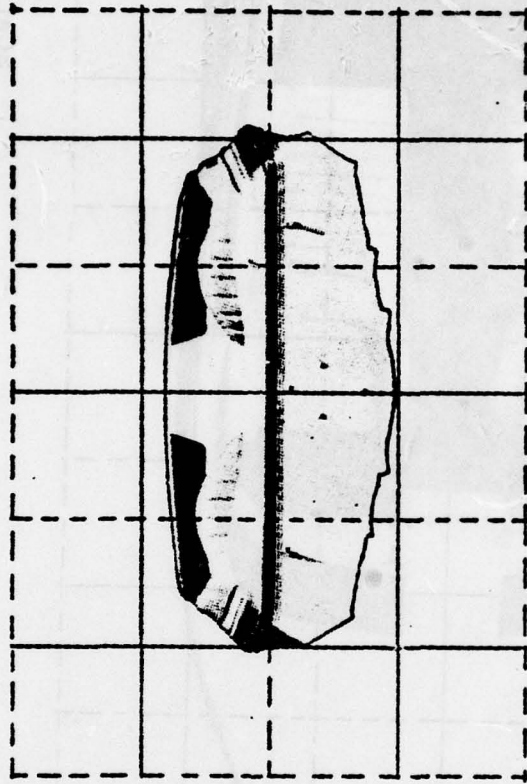
SCALE: 1/2 METER GRID

FIGURE 105 BOW VIEW OF BOAT 77-10



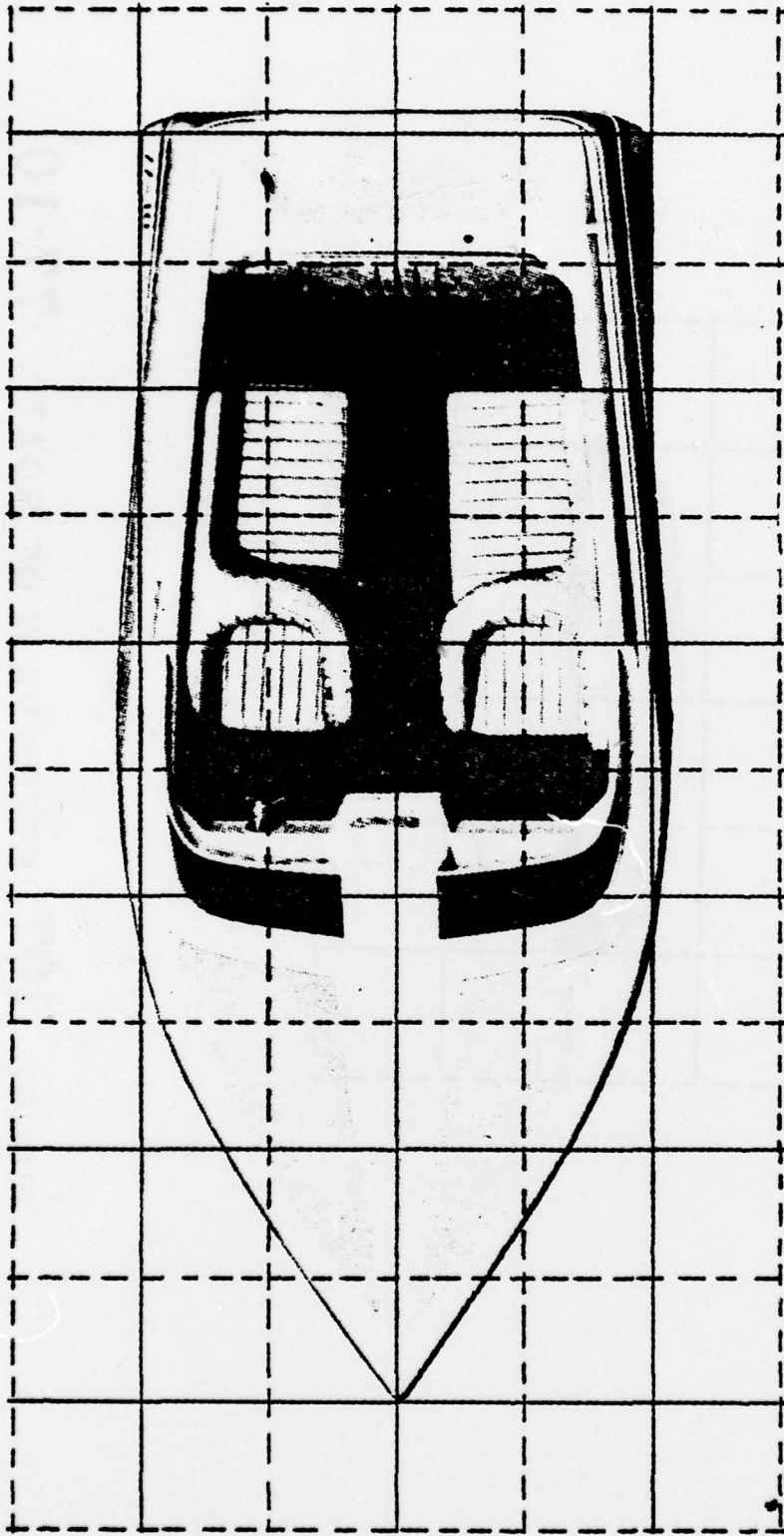
SCALE: 1/2 METER GRID

FIGURE 106 SIDE VIEW OF BOAT 77-10



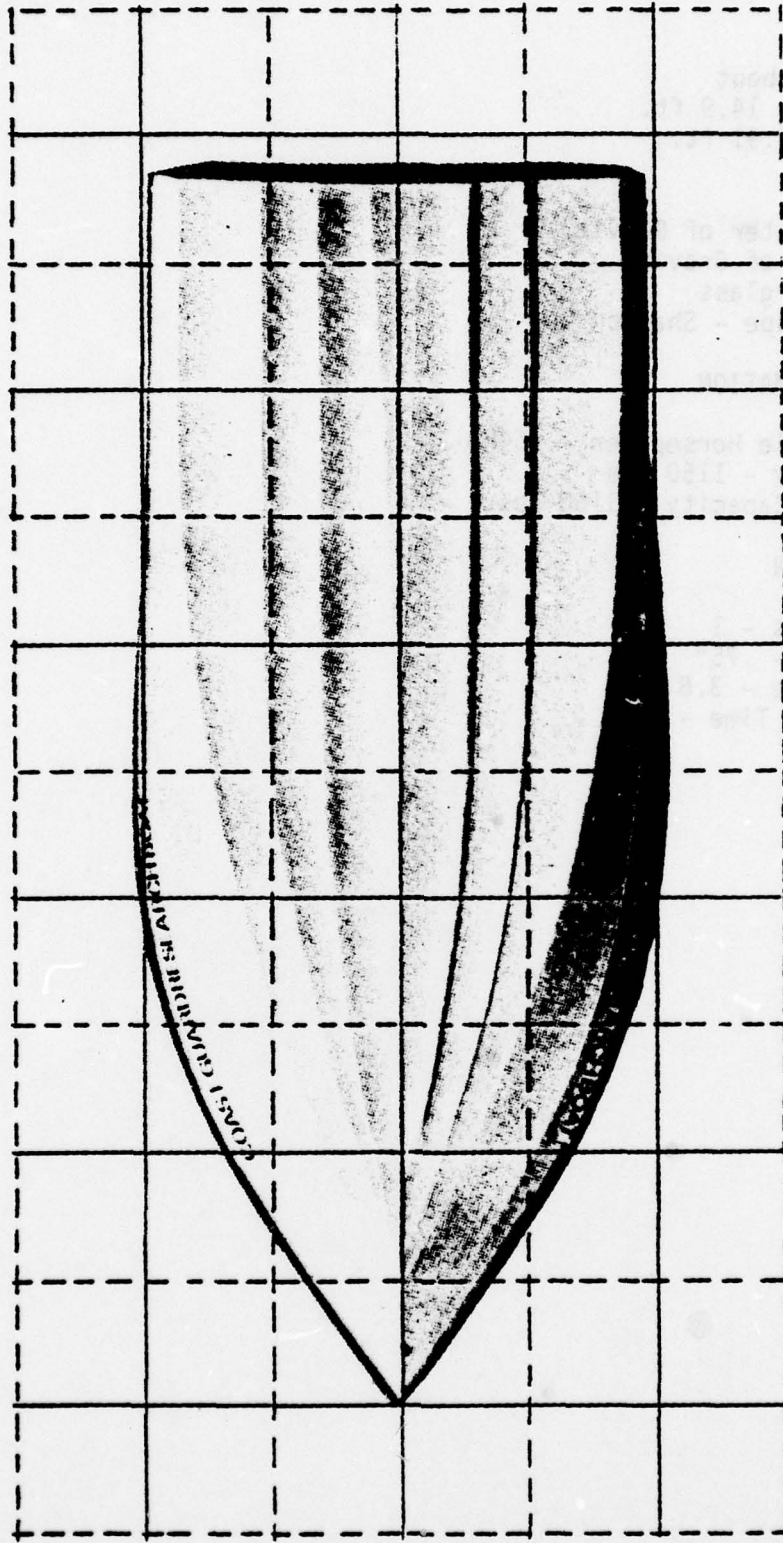
SCALE: 1/2 METER GRID

FIGURE 107 STERN VIEW OF BOAT 77-10



SCALE: 1/2 METER GRID

FIGURE 108 TOP VIEW OF BOAT 77-10



SCALE: 1/2 METER GRID

FIGURE 109 BOTTOM VIEW OF BOAT 77-10

R&DC BOAT NUMBER 77-11

GENERAL INFORMATION

Boat Type - Runabout
Length Overall - 14.9 ft.
Beam Overall - 5.91 ft.
Beam at Chine
Weight
Longitudinal Center of Gravity
Vertical Center of Gravity
Material - Fiberglass
General Hull Shape - Shallow Vee

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower - 85 hp
Persons Capacity - 1150 lbs
Maximum Weight Capacity - 1150 lbs.

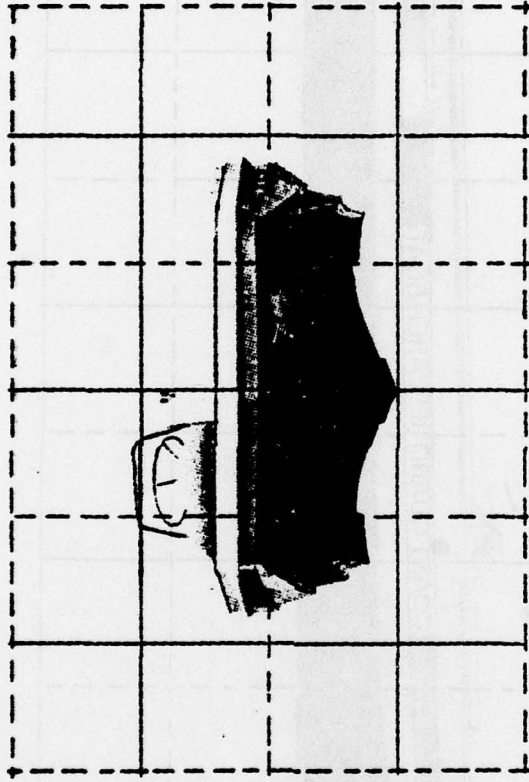
MOTORWELL INFORMATION

Number of Drains - 1
Size of Drains - .75"
Motorwell Volume - 3.6 gals
Motorwell Drain Time - 1:05

- 110. Bow
- 111. Side
- 112. Stern
- 113. Top
- 114. Bottom

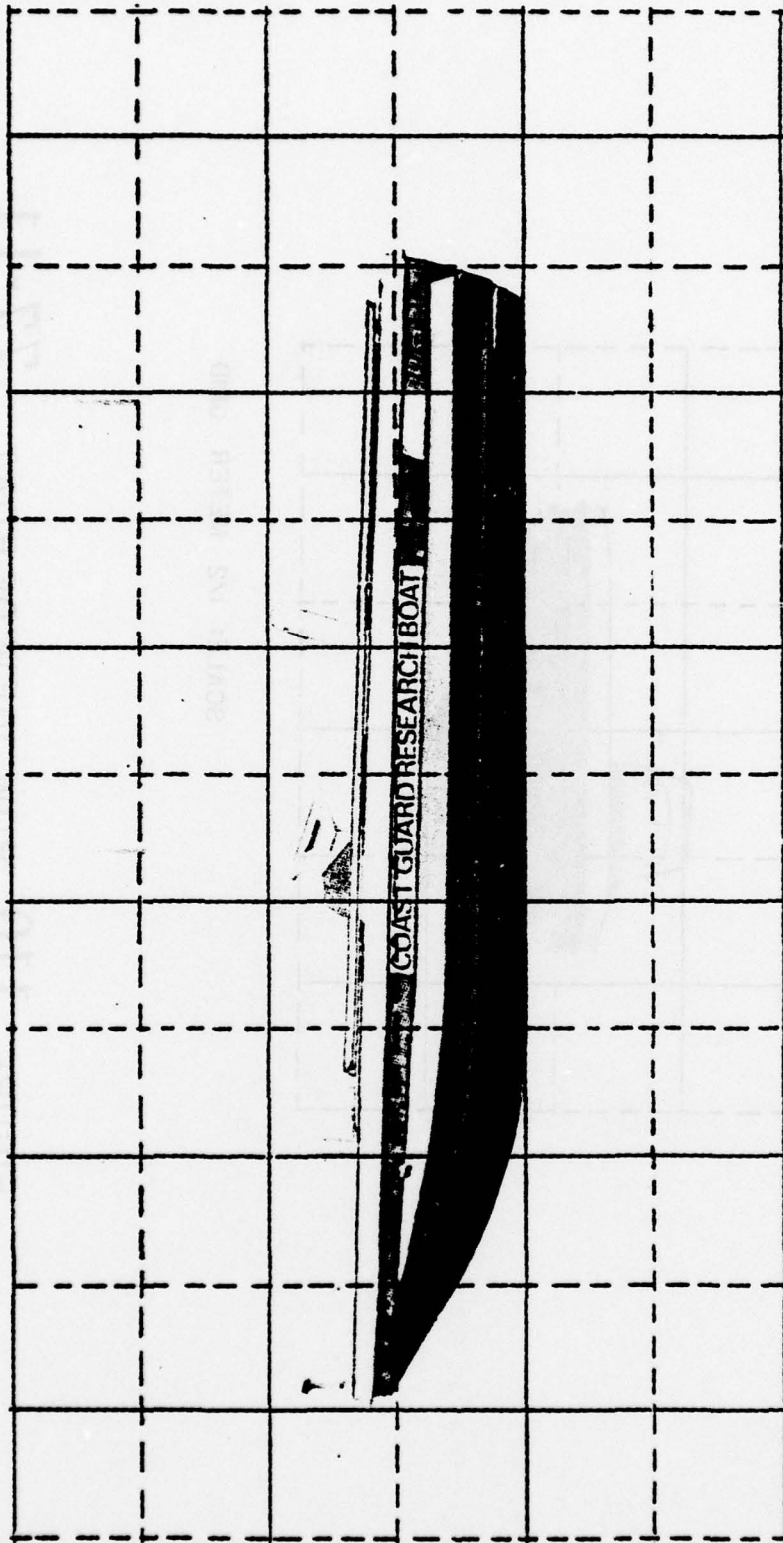
FIGURE 111 SIDE VIEW OF BOAT 77-11

SCALE: 1/2 INCH = 1 METER GRID



SCALE: 1/2 METER GRID

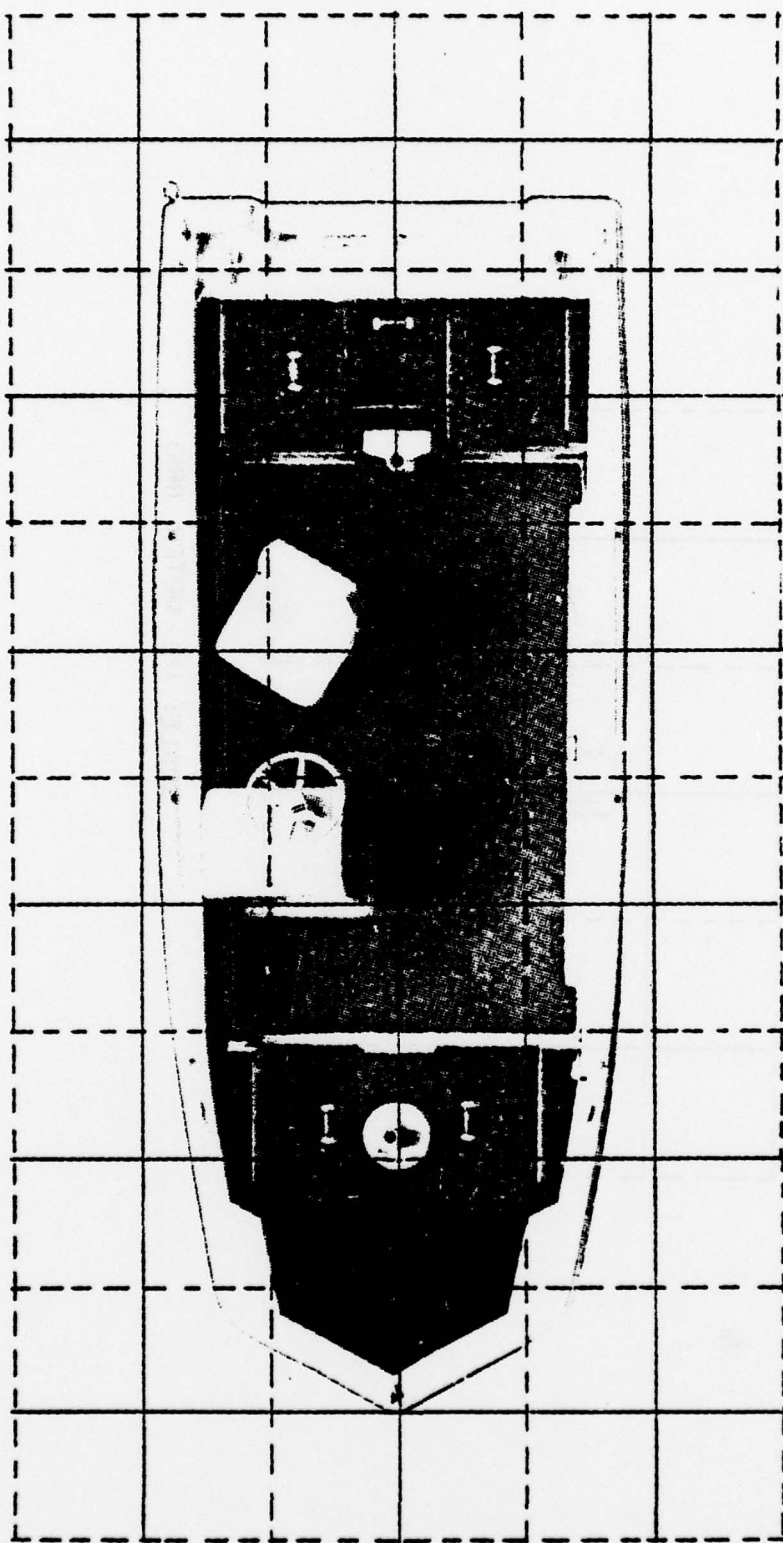
FIGURE 110 BOW VIEW OF BOAT 77-11



SCALE: 1/2 METER GRID

FIGURE 111 SIDE VIEW OF BOAT 77-11

FIGURE 112: PLAN VIEW OF BOAT 77-11

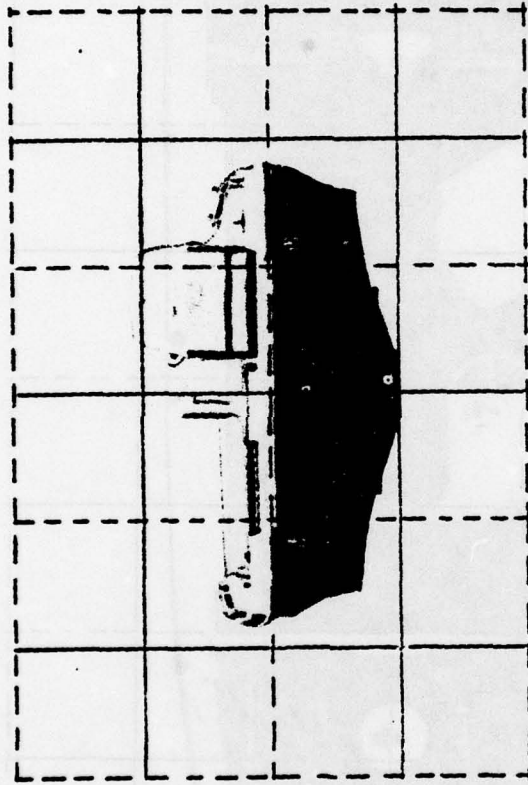


SCALE: 1/2 METER GRID

FIGURE 112 TOP VIEW OF BOAT 77-11

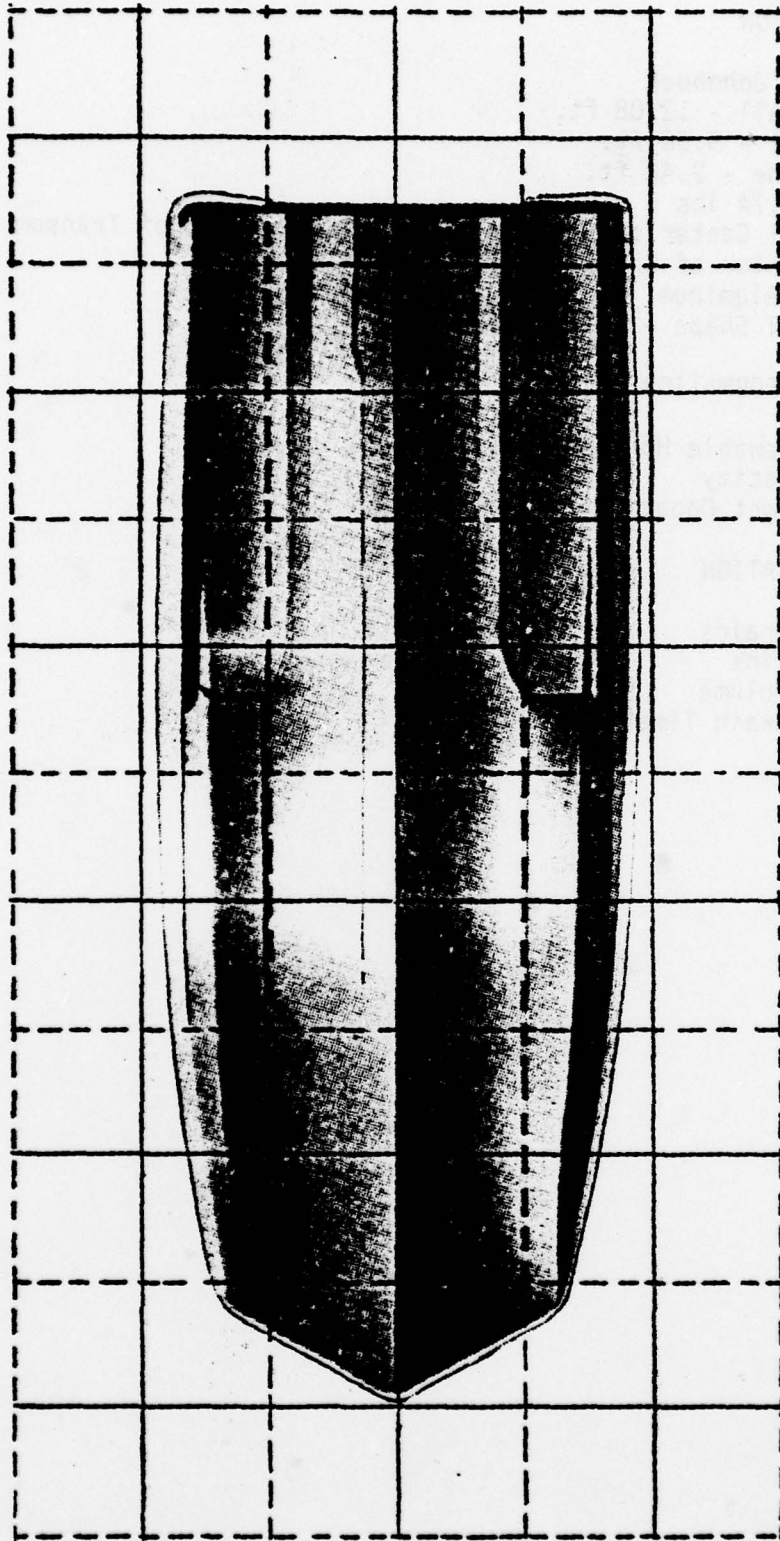
FIGURE 113 STERN VIEW OF BOAT 77-11

SCALE: 1/2 METER GRID



SCALE: 1/2 METER GRID

FIGURE 113 STERN VIEW OF BOAT 77-11



SCALE: 1/2 METER GRID

FIGURE 114 BOTTOM VIEW OF BOAT 77-11

R&DC BOAT NUMBERS 78-02

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 12.08 ft.
Beam Overall - 3.58 ft.
Beam at Chine - 2.42 ft.
Weight - 82.74 lbs
Longitudinal Center of Gravity - 5.58 ft. from Top of Transom
Vertical Center of Gravity - 6.75 Inches from Deck
Material - Aluminum
General Hull Shape - Flat-Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower
Persons Capacity
Maximum Weight Capacity

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

R&DC BOAT NUMBERS 78-03

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 12.01 ft.
Beam Overall - 3.62 ft.
Beam at Chine - 2.42 ft.
Weight - 159.57 lbs.
Longitudinal Center of Gravity - 5.42 ft. from Top of Transom
Vertical Center of Gravity - 5.56 Inches from Deck
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower
Persons Capacity
Maximum Weight Capacity

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

R&DC BOAT NUMBERS 78-04

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 12.04 ft.
Beam Overall - 4.15 ft.
Beam at Chine - 3.92 ft.
Weight - 122.34 lbs.
Longitudinal Center of Gravity - 5.42 from Top of Transom
Vertical Center of Gravity - 5.75 Inches from Deck
Material - Aluminum
General Hull Shape - Flat-Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower
Persons Capacity
Maximum Weight Capacity

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

R&DC BOAT NUMBERS 78-05

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 12.02 ft.
Beam Overall - 4.60 ft.
Beam at Chine - 3.42 ft.
Weight - 83.73 lbs.
Longitudinal Center of Gravity - 5.99 ft. from Top of Transom
Vertical Center of Gravity - 6.25 Inches from Deck
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower
Persons Capacity
Maximum Weight Capacity

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time

R&DC BOAT NUMBERS 78-06

GENERAL INFORMATION

Boat Type - Johnboat
Length Overall - 12.02 ft.
Beam Overall - 4.75 ft.
Beam at Chine - 3.42 ft.
Weight - 161.91 lbs.
Longitudinal Center of Gravity - 5.71 ft. from Top of Transom
Vertical Center of Gravity - 5.00 Inches from Deck
Material - Aluminum
General Hull Shape - Flat Bottom

CAPACITY PLATE INFORMATION

Maximum Allowable Horsepower
Persons Capacity
Maximum Weight Capacity

MOTORWELL INFORMATION

Number of Drains
Size of Drains
Motorwell Volume
Motorwell Drain Time