

RAPTOR DESIGN & ENGINEERING LLC

MANUFACTURER OF



RIVER RAPTOR SR-XD RESCUE RAPTOR 2072

1. General Specifications

- 1.1. Hull Material: Aluminum
- 1.2. Hull Shape: Modified V
- 1.3. Propulsion: Inboard Jet
- 1.4. Internal Layout: Walk-Around Center Console Forward
- 1.5. Overall Length: 20'2"
- 1.6. Bow Tip To Transom Length: 18'5"
- 1.7. Bottom Width: 72"
- 1.8. Beam: 98"
- 1.9. Side Height: 30"
- 1.10. Deadrise: 6 Degree
- 1.11. Static Draft: 6 – 7"
- 1.12. Draft On Plane: 3"
- 1.13. Top Speed 45 – 49 mph
- 1.14. US Coast Guard Compliant Construction

2. Hull Specifications

- 2.1. AL 5052 Sheet Material (Ultimate Tensile Strength 33,000 psi)
- 2.2. AL 6061 Extrusions
- 2.3. .190" Bottom (.250" Optional)



375 New
Holland
Drive
Suite A
Belleville,
PA
17004
USA

PHONE 717-935-2175
EMAIL info@riverraptorjetboats.com
WEBSITE www.riverraptorjetboats.com

- 2.4. .125" Sides, Step Bent For Structural Integrity
- 2.5. .125" Floor Panels
- 2.6. Raised Performance Jet Intake System (Dimensions: 13" Wide X 33" Long X 1.5" Deep)
- 2.7. Double Mig Welded (Inside & Outside) Hull Seams
- 2.8. Custom Build Heavy Duty Infrastructure
- 2.9. (8) Engineered, Laser Notched (To Reduce Weight & Provide Access To UHMW Hardware) C Channel Longitudinal Stringer Assemblies Resulting In (16) Continuously Welded Vertical Leg Stringers
- 2.10. Custom Build Floor Support Structure Welded To Stringers
- 2.11. Floor Panels Attached To Floor Support Structure Via 3M 540 & Aluminum Rivets
- 2.12. Extended Rear Swim Deck At Same Elevation As Rear Deck
- 2.13. Pump Protection Tubing (1 3/4" O.D., 0.125" WALL, AL) Connecting Swim Deck & Transom Reinforced With Cross Brace
- 2.14. Sliding Transducer Bracket Welded To Transom
- 2.15. Gunwale Grab Rails: Welded On (1 1/4" O.D. AL Tubing): 2 – 14.75", 4 – 36.75" (Optional)
- 2.16. Swim Deck Lip (Optional)
- 2.17. Swim Deck Railing (Optional)
- 2.18. Fold & Stow Boarding Ladder (Optional)
- 2.19. Self-Baling Front & Rear Deck System That Removes Water From The Hull Envelope
- 2.20. 2 Rear Deck Davit Crane Receptacles (Port & Starboard)
- 2.21. Rear Deck Tow Tower Receptacle (Center Aft)
- 2.22. 4 Rear Deck Tie-Down Tracks For D-Rings (4 D-Rings Included)
- 2.23. 4 Front Tie-Down Pods For D-Rings (4 D-Rings Included)
- 2.24. Cleats: 4 (Port & Starboard Front & Rear)
- 2.25. Hull is of rugged, heavy-duty design to minimize damage from impact and abrasion as a result of contacting subsurface objects.

3. Internal Layout

- 3.1. Center Forward Console Design
- 3.2. Walk Around Center Console With Windshield & Integrated Grab Rail (1 1/4" O.D. AL Tubing)
- 3.3. Fore Console Jump Seat With Grab Handles & Incorporated Storage
- 3.4. Bow Platform With Removeable Storage Bin – 76" X 21"
- 3.5. Bow Step Box With Storage
- 3.6. Quick Access Cockpit Gunwale Storage
- 3.7. Sit / Lean Helm Seat At Operator's Station
- 3.8. Rear Cockpit Bench Seat – 68" X 19"
- 3.9. Port & Starboard Gunwale Top Access Storage With Removable Storage Bins



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- 3.10. Large Rear Work Deck – 93" X 52"
- 3.11. 2 Rear Deck Storage Compartments With Removeable Storage Bins
- 3.12. Rear Deck Engine Compartment Lid With Lifting Shocks
- 3.13. 20.6" Swim Deck Extension With Grab Railing (1 ¼" O.D. AL Tubing)
- 3.14. Bow Cap Access Panel
- 4. Drive System Specifications:
 - 4.1. Engine: BRP Rotax 1630
 - 4.1.1. Horsepower: 300
 - 4.1.2. Supercharger
 - 4.1.3. External Intercooler
 - 4.2. Pump: BRP Rotax
 - 4.2.1. 160mm Diameter
 - 4.2.2. Axial Flow
 - 4.2.3. Cast Aluminum Reverse Bucket
 - 4.2.4. Stainless Steel Wear Ring
 - 4.2.5. Integrated Cooling Water Supply For Engine
 - 4.3. Wet Exhaust System
 - 4.4. 40 Gallon Aluminum Cross-Hull Fuel Tank To Maximize Fuel Capacity & Watercraft Stability
- 5. Electrical Specifications
 - 5.1. Rear Starboard Storage Located Electrical Center Containing:
 - 5.1.1. DEKA DKADP24 Starting Battery: 550 CCA, 120 Reserve Capacity At 25 Amps (Lithium OR AGM Battery Optional)
 - 5.1.2. Engine Fuse Box
 - 5.1.3. BRP Rotax JPS BUDS Engine Data & Diagnostic System With Diagnostic Plug
 - 5.1.4. Main Electrical Panel Containing:
 - 5.1.4.1. Main Electrical Disconnect
 - 5.1.4.2. Positive Terminal Stud / Disconnect Circuit
 - 5.1.4.3. Positive Terminal Stud / Always On
 - 5.1.4.4. Ground Terminal Stud
 - 5.1.4.5. ATO Fuse Box
 - 5.1.4.6. CZONE Digital Switching Power Distribution System
 - 5.2. BRP Rotax Helm Mounted Instrument Cluster
 - 5.2.1. Multifunction Touch Display: Clock, Fuel Level, Speed, Engine RPM, Engine Temperature, Fuel Consumption Rate (Instant), Compass, Hour Meter
 - 5.2.2. Indicator Lights: High Engine / Exhaust Temperature, High / Low Battery Voltage, Maintenance Required / Fault Code, Low Fuel, Low Oil Pressure, Check Engine
 - 5.2.3. INR Override



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- 5.2.4. INR Adjustment
- 5.2.5. Cole Hersee Key Switch
- 5.3. 1 – 2 Helm Mounted CZONE Switch Panel(s)
 - 5.3.1. Fused Switches:
 - 5.3.1.1. Blower
 - 5.3.1.2. Navigation Lights
 - 5.3.1.3. Manual Bilge
 - 5.3.1.4. Auxiliary/Lighting & Accessories As Needed
- 5.4. 12V Receptacle
- 5.5. Helm Mounted Kill Switch With Lanyard (Fell Marine MOB Wireless Option Available)
- 5.6. 4" Marine Bilge Blower
- 5.7. Dual 900gph Bilge Pumps
- 5.8. Side Hull Recessed LED Front Navigation Lights
- 5.9. Rear Post Anchor Light
- 5.10. Sealed Amphinol Electrical Connectors At Electrical Harness Junctions & Terminals
- 6. Controls Specifications
 - 6.1. 135 Degree Helm Steering
 - 6.2. Livorsi INR (Intelligent Neutral & Reverse) Throttle / Shift Control
 - 6.2.1. Single Lever/Dual Function
 - 6.2.2. Port Side Console Mount
 - 6.2.3. Start In Gear Protection
- 7. Deck Hardware
 - 7.1. Hatch Latches – Lockable "T-Handle"
 - 7.2. Stainless Steel Hardware
 - 7.3. Stainless Steel Deck Lid Hinges
- 8. Topside Finish
 - 8.1. Paint
 - 8.1.1. Sikkens Polyurethane Industrial Coating
 - 8.1.2. Paint Color – Customer Provided Paint Code
 - 8.1.3. All Walking Surfaces Have Form Coat Non-Slip Coating Except When Other Non-Slip Marine Flooring Is Requested (AquaTraction Available)
 - 8.2. Decals
 - 8.2.1. Rescue Raptor Side Decals
 - 8.2.2. River Raptor Console Logo
- 9. Additional Options & Accessories Are Available Upon Request
- 10. 3D Model & 2D Technical Drawings
 - 10.1. A 3D AutoCAD Inventor Model Will Be Made Available Upon Request For Project Approval Prior To Project Construction



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10.2. 2D Drawings Will Be Made Available For Project Approval Prior To Project Construction

11. Training

11.1. A qualified, manufacturer authorized and trained service representative can offer training at the request of the customer. This training will be at the cost of the customer.

12. Commercial Use Warranty

12.1. Scope – Entire Body & Accessories

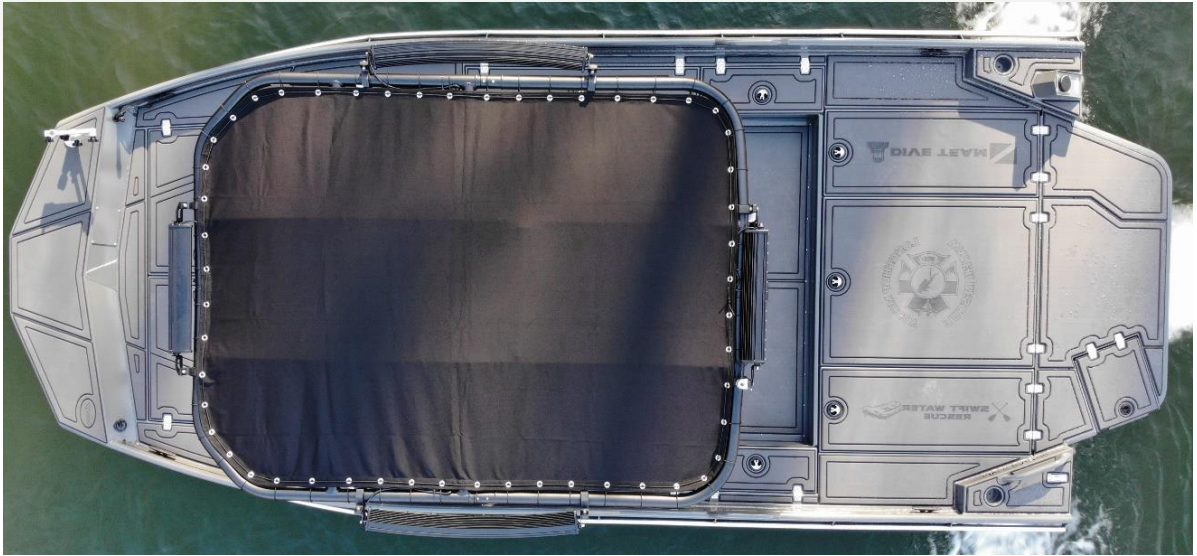
12.2. Time Period – 1 Year

12.3. Guarantee – Free Of Original Material & Workmanship Defects



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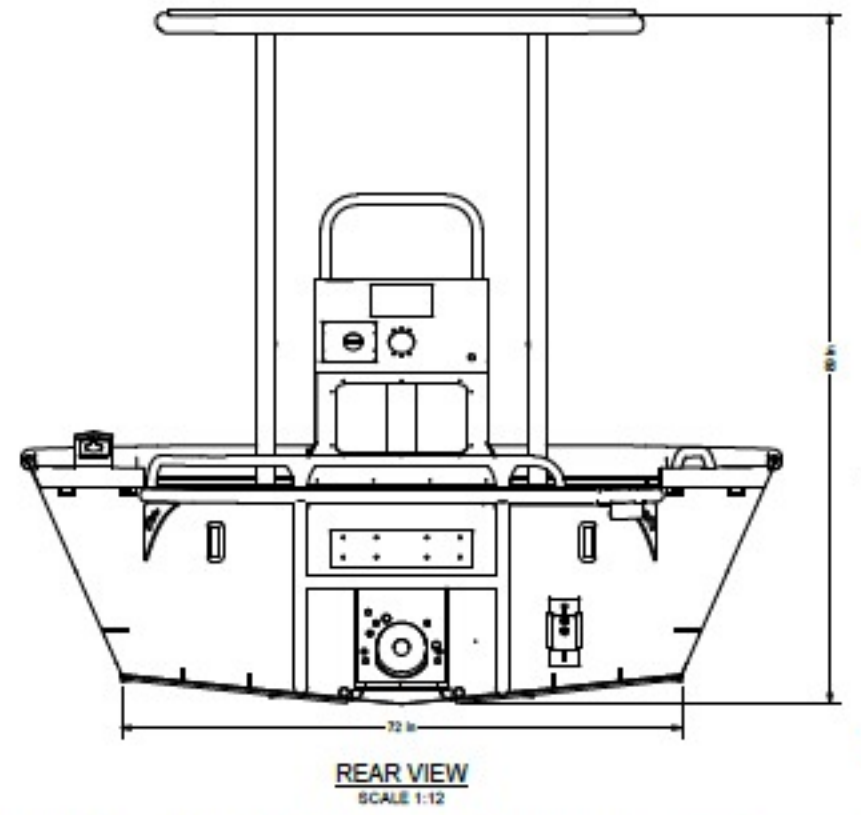
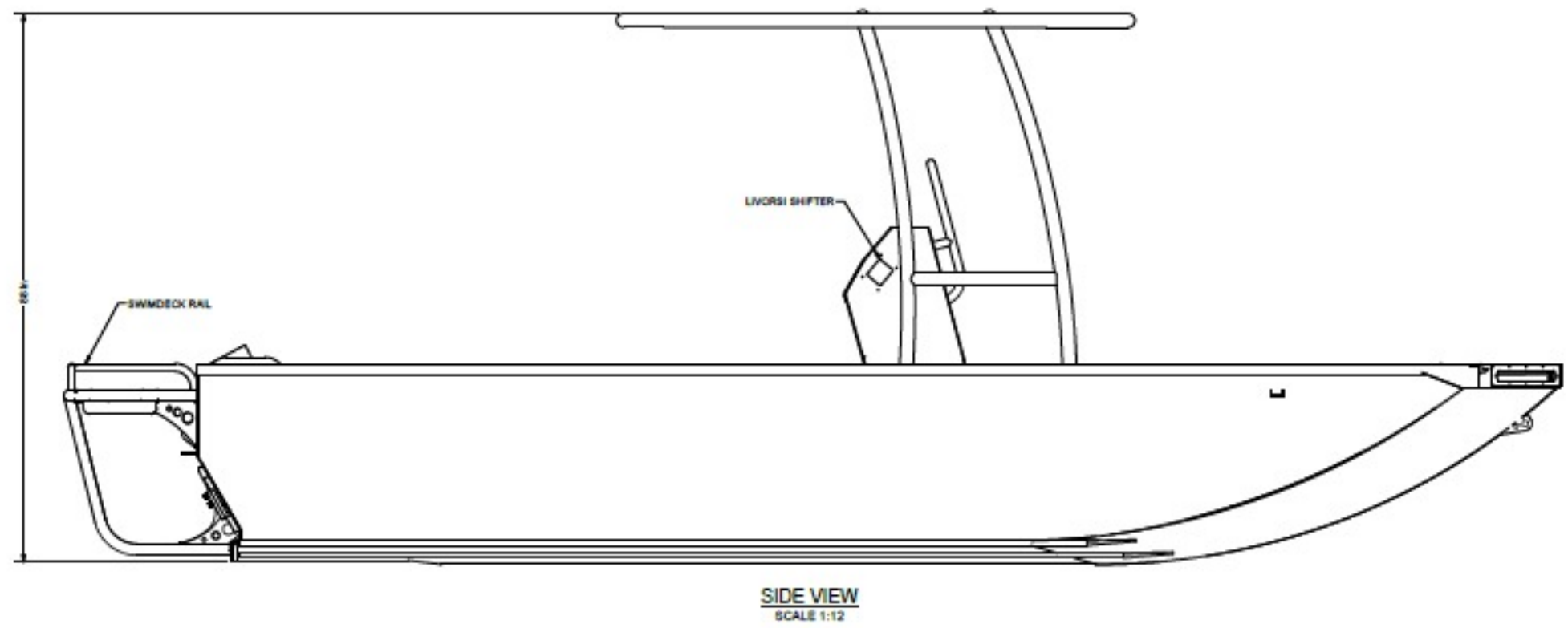
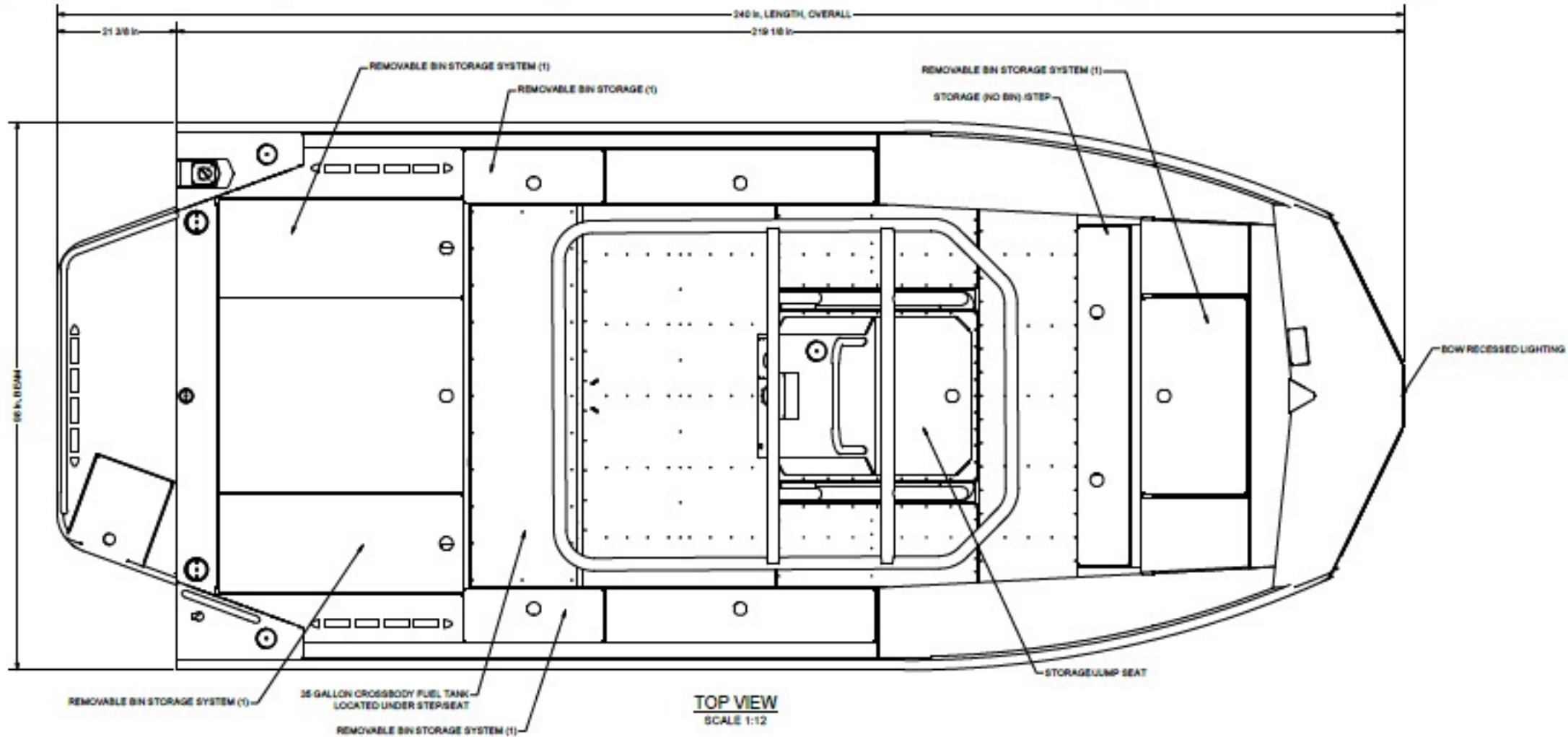


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BUILD DETAILS	
ITEMS	VALUE
MODEL	SR - RD
LENGTH	20'
WIDTH	72"
ENGINE	300 HP, ROTAX
BOTTOM THK	0.250
STAR. LOCK, ROD STORAGE	STANDARD
PORT LOCK, ROD STORAGE	STANDARD
CONSOLE GRAB RAIL	YES
GUNNEL RAILING	NO
STOMP GRATE	HELM
BOTTOM UP/W	YES
SIDE UP/W	YES
TRAILER	DUAL



DESIGNED BY R. P. LANK	CHECKED BY R. P. LANK	DATE 11/20/2014	SCALE AS SHOWN	PROJECT NO. D0124	LOCATION PERRYSBURG	REVISED BY R. P. LANK	DATE 11/20/2014	REVISIONS 2013 SR-12 SEARCH AND RESCUE HULLS WITH SELF-BAILING FRONT AND BACK DRINK SYSTEM	
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