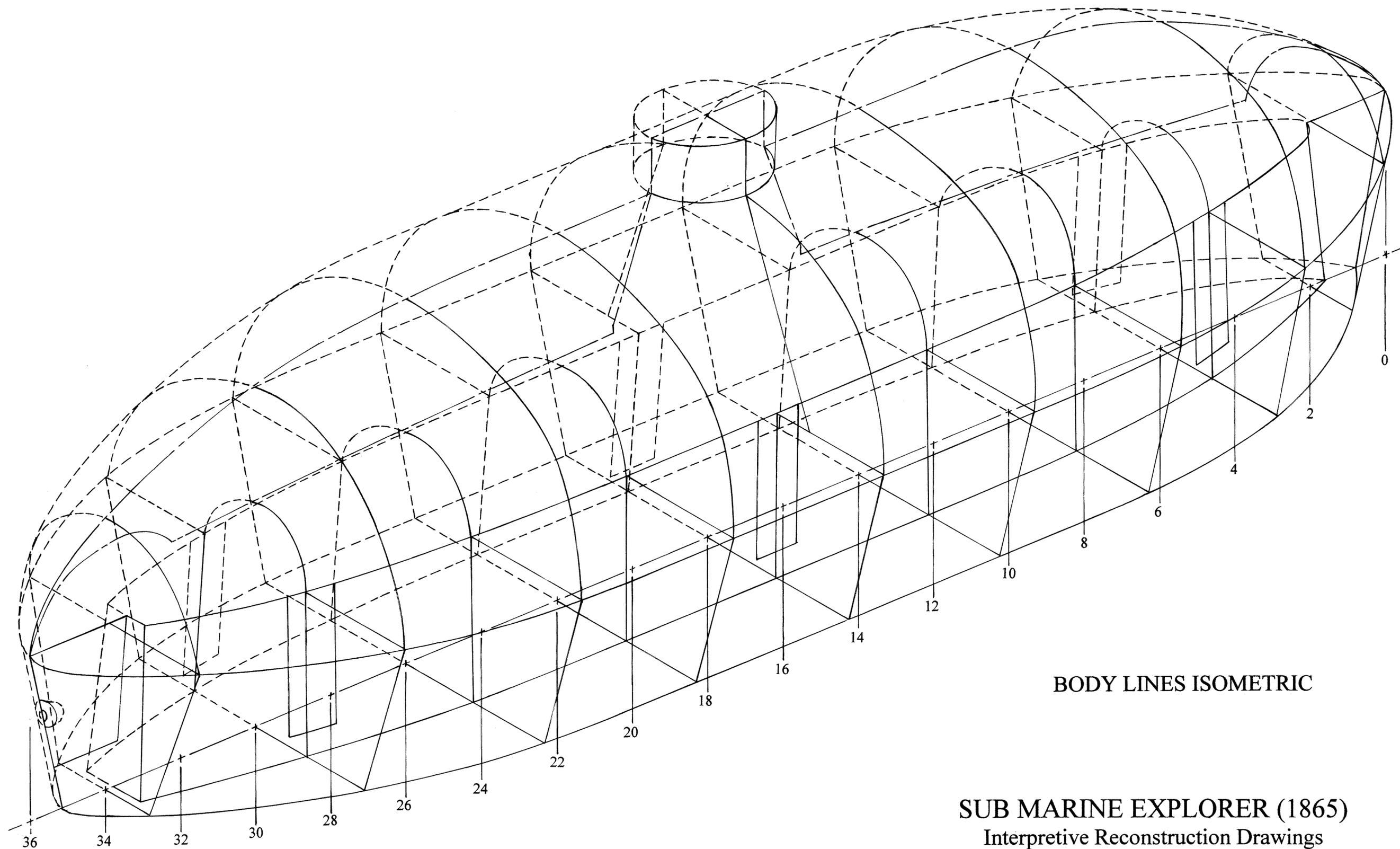


# SUB MARINE EXPLORER (1865)

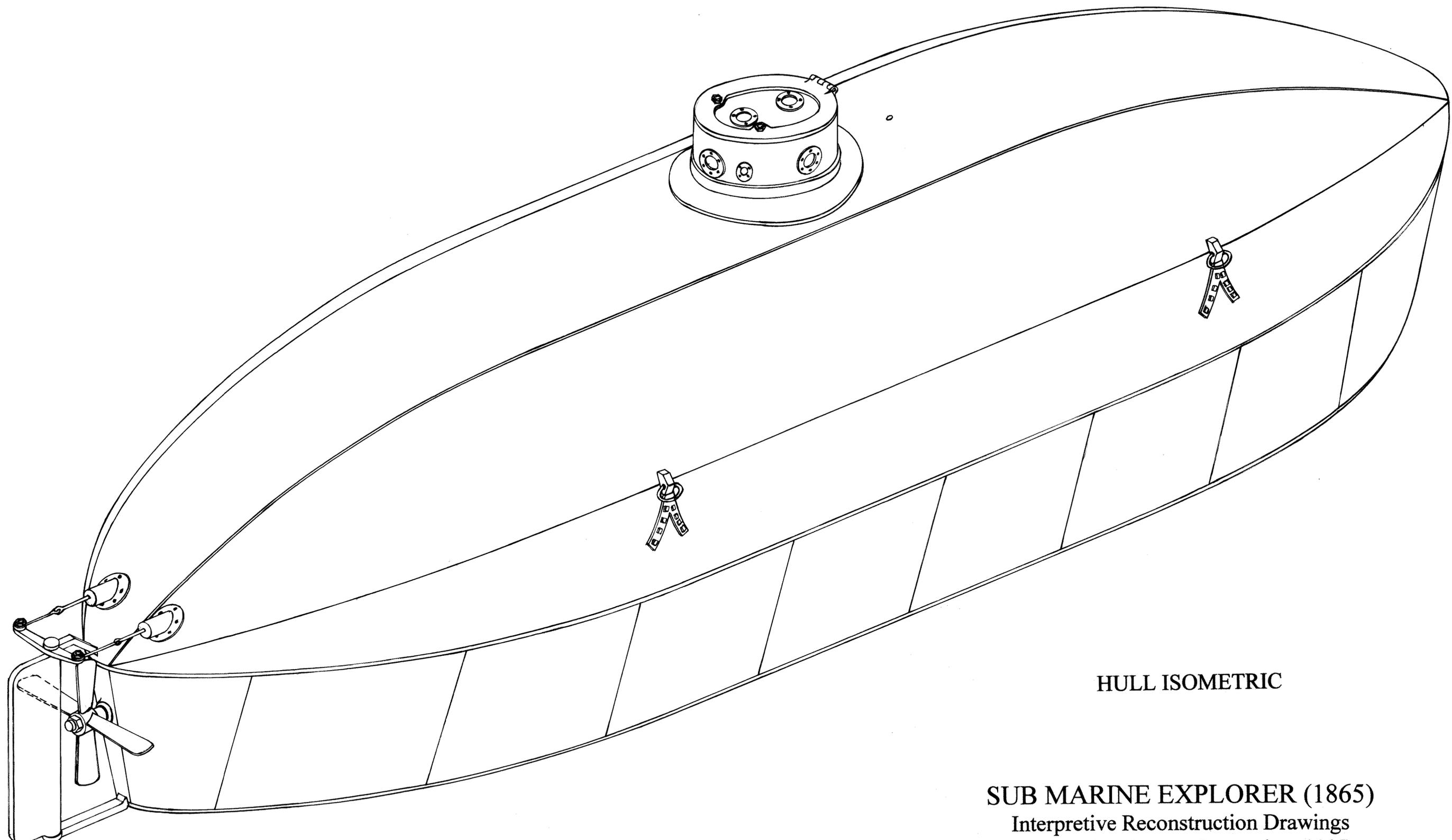
Interpretive Reconstruction Drawings

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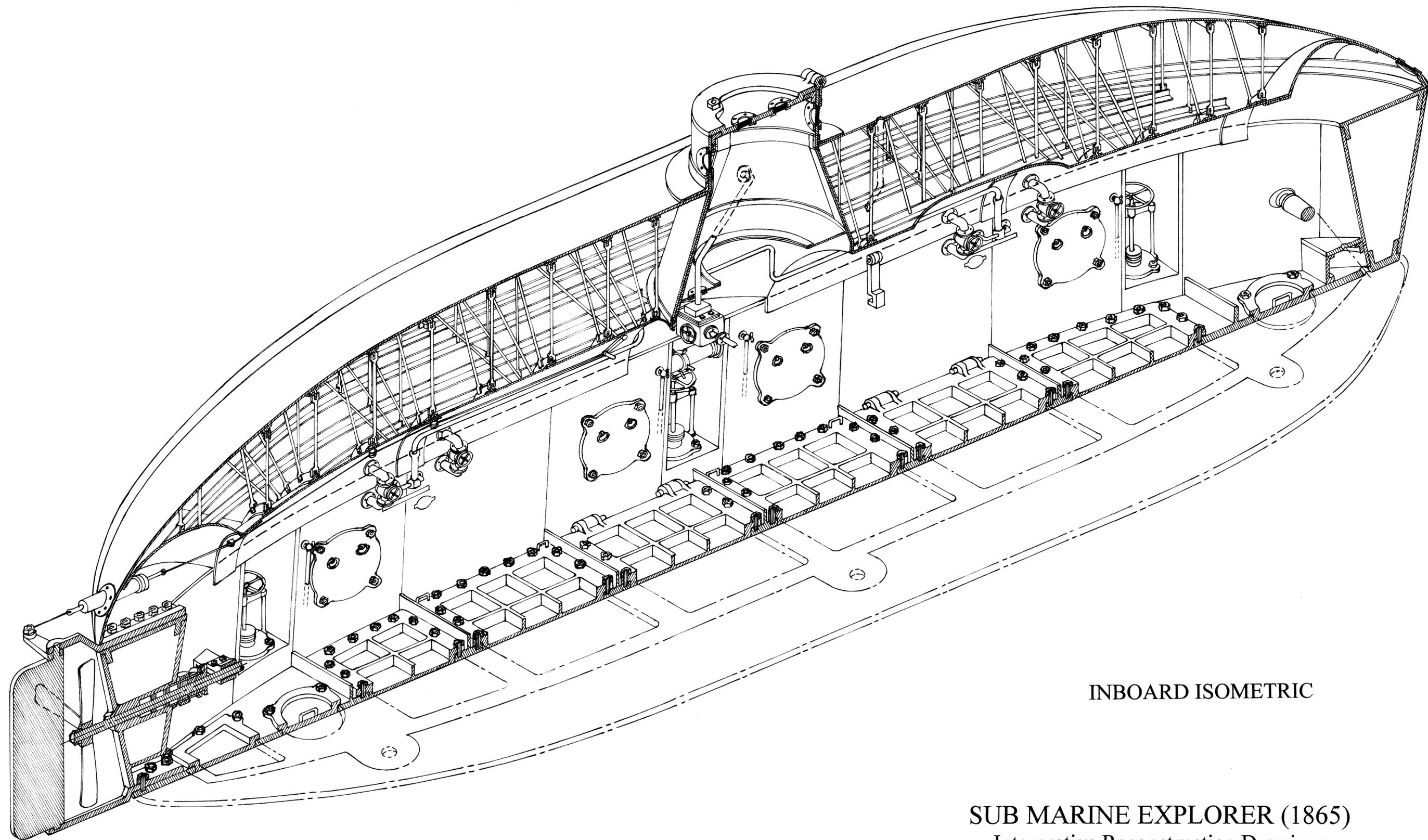
BODY LINES ISOMETRIC

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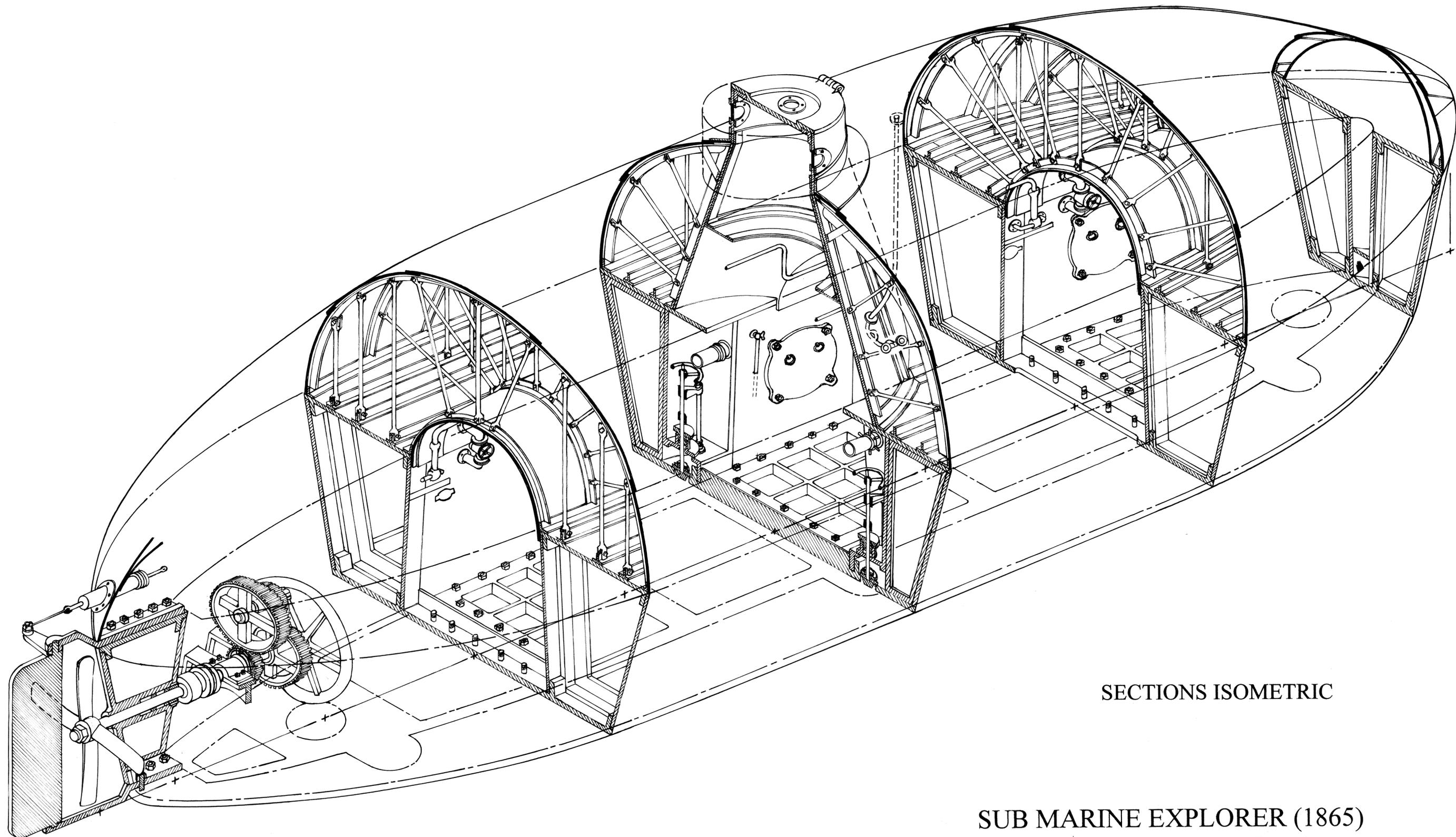
HULL ISOMETRIC

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INBOARD ISOMETRIC

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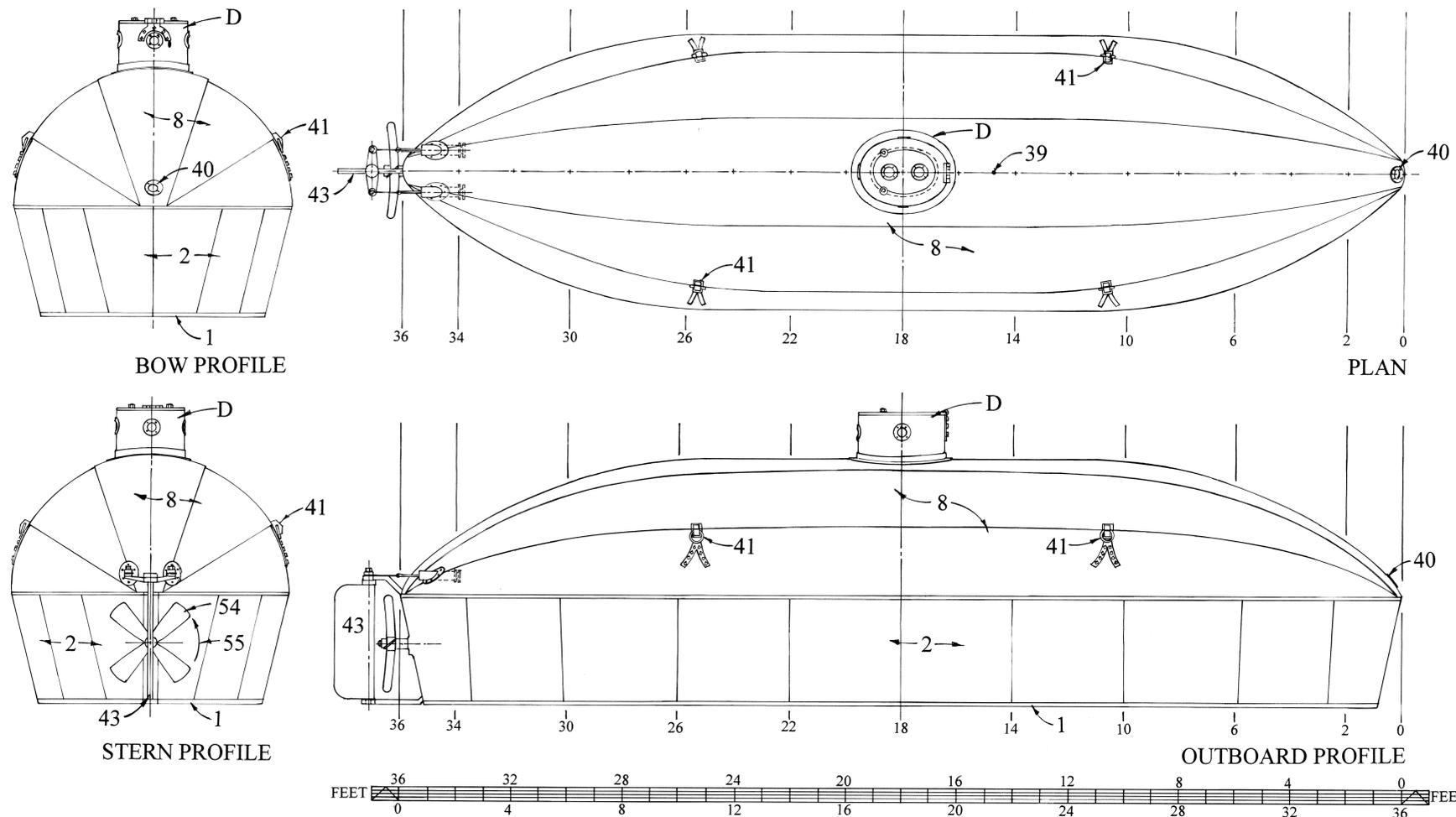


SECTIONS ISOMETRIC

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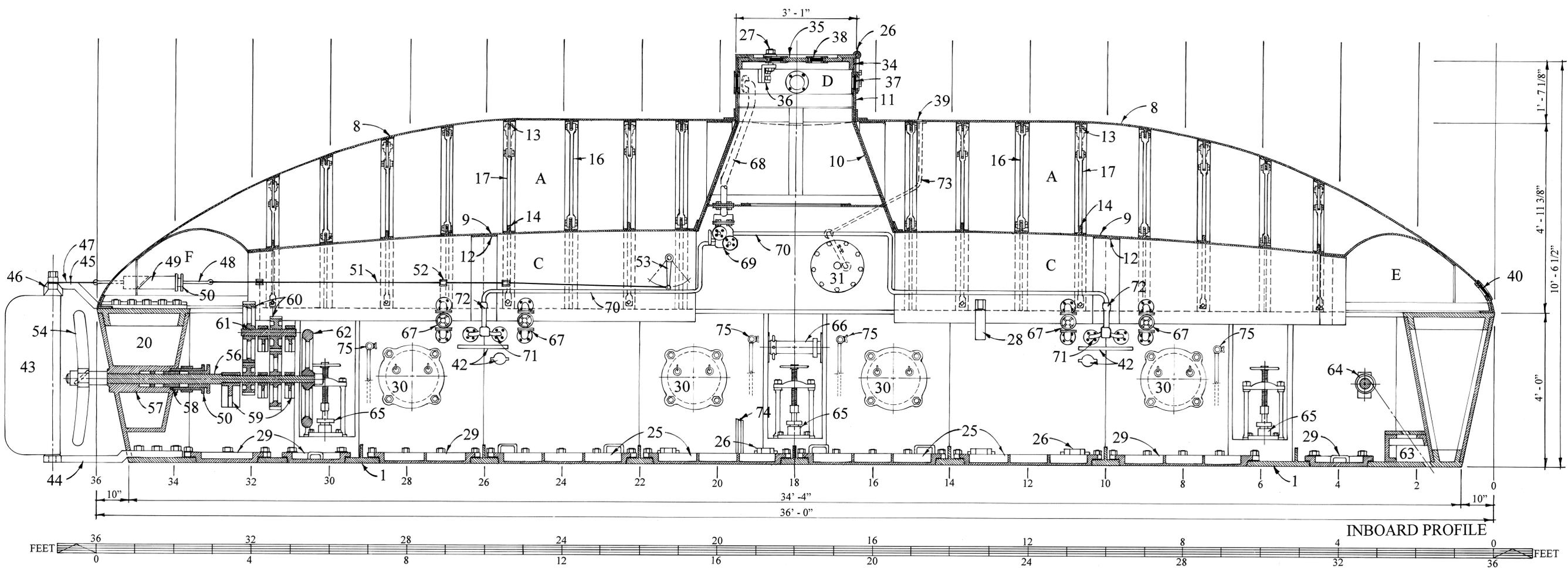
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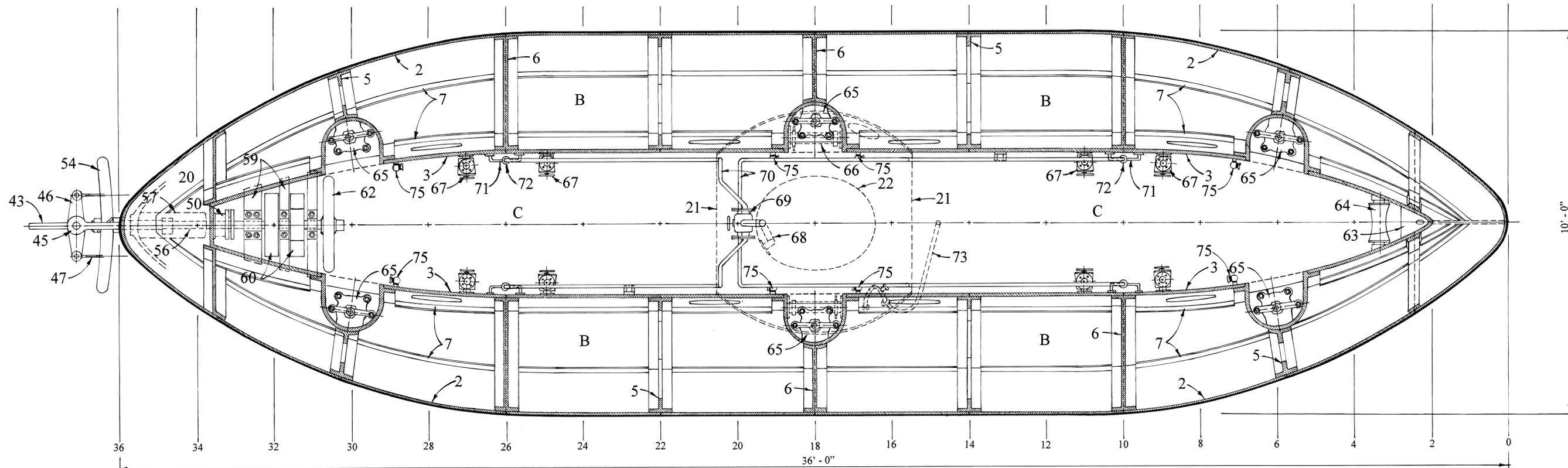


**Key List** (Note: This is a universal list so some of the numbers do not appear on all of the drawings. Contemporary terms are used when they are available and modern equivalents follow in parenthesis.)

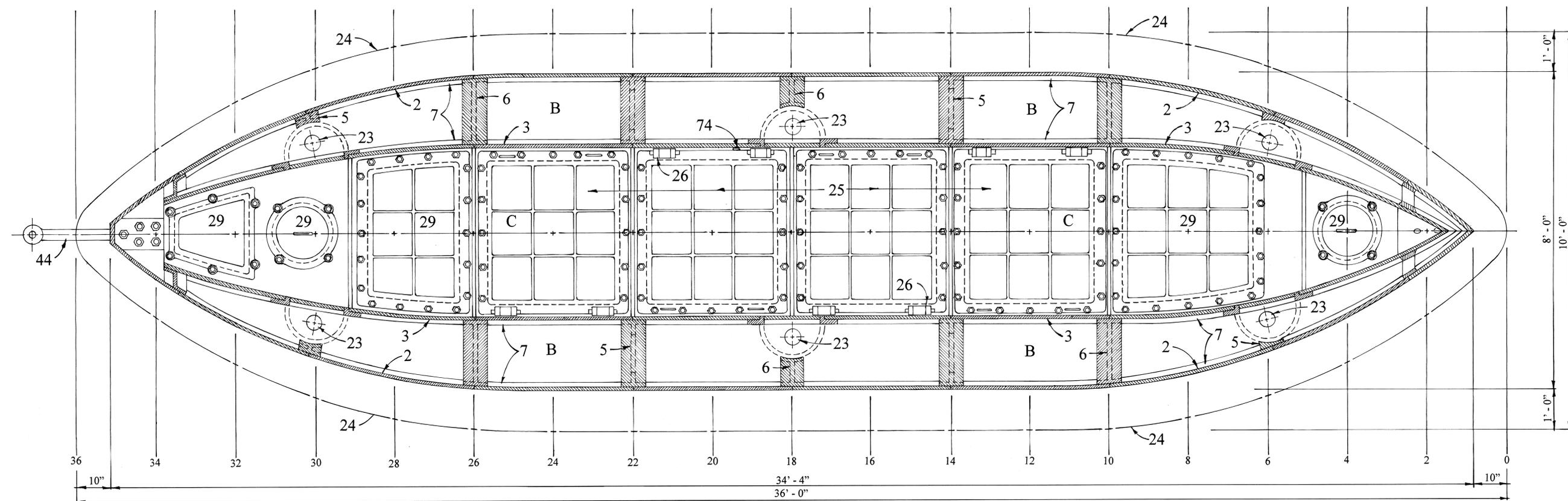
- A. Compressed Air Chamber
- B. Ballast or Water Chamber
- C. Working Chamber
- D. Dome (Conning Tower)
- E. Forward Chamber Enlargement
- F. Aft Chamber Enlargement
- 1. Bottom Plate - 1 3/4" thick cast iron
- 2. Outside Plate - 1" thick cast iron
- 3. Inside Plate - 1" thick cast iron
- 4. Top plate - 1 1/4" thick cast iron
- 5. Frame - 7" x 4" x 1" cast iron
- 6. Solid Frame (Webbed Frame) - 7" x 4" x 1" cast iron
- 7. Flange - 3 3/4" x 1 3/4" cast iron
- 8. Top Shell - Best boiler iron, 1/2" thick (wrought iron)
- 9. Working Chamber Top Shell - Best boiler iron, 1/2" thick (wrought iron)
- 10. Dome Funnel - Best boiler iron, 1/2" thick (wrought iron)
- 11. Dome Sleeve - Best boiler iron, 1/2" thick (wrought iron)
- 12. Doubling Plate
- 13. Rib - 3 1/2" x 3" x 1/2" Angle Iron (Compressed Air Chamber Frame - "Tee" section)
- 14. Rib - 3 1/2" x 3" x 1/2" Angle Iron (Working Chamber Top Frame - "Tee" section)
- 15. Ballast Tank Top Stiffeners - 3 1/2" x 3" x 1/2" angle iron ("Tee" section)
- 16. 1" Radial Braces
- 17. 1" Vertical Braces
- 18. Brace
- 19. Dome Braces
- 20. Sealed Tank
- 21. Break of Working Chamber over
- 22. Dome over
- 23. 4 1/2" dia. Hole for Ballast Fill / Blow Off Valve
- 24. Line of Top Plate at 4' - 0" Level
- 25. Wrought Iron Trap Doors
- 26. Hinge
- 27. Bolt
- 28. Trap Door Hold Open Clip
- 29. Cast Iron Man Hole Plate
- 30. Ballast Chamber Access Plate
- 31. Compressed Air Chamber Access Plate
- 32. Dome Sleeve Over
- 33. Manhole (at Dome Sleeve)
- 34. Iron Angle
- 35. Manhole Plate (Hatch)
- 36. Bolt Clip
- 37. Side Light
- 38. Dead Light
- 39. 1" Diameter Threaded Hole (Compressed Air Intake)
- 40. Bow Dead Light
- 41. Mooring Ring
- 42. Unidentified Fittings
- 43. Rudder
- 44. Bottom Rudder Carrier
- 45. Top Rudder Carrier
- 46. Yoke
- 47. Rudder Linkage
- 48. Steering Rod
- 49. Steering Rod Tube
- 50. Stuffing Box
- 51. Steering Cable
- 52. Steering Cable Guide
- 53. Steering Lever
- 54. Propeller
- 55. Ahead
- 56. Propeller Shaft
- 57. Propeller Shaft Casting
- 58. Bearings
- 59. Bridge and Pillow Block
- 60. Propulsion Gearing
- 61. Gear Shaft
- 62. Propulsion Wheel
- 63. Anchor Cable Stuffing Box
- 64. Anchor Windlass
- 65. 4 1/2" Diameter Ballast Fill and Blow Off Valve
- 66. Pipe Transfer Valve
- 67. 2" Diameter Compressed Air Transfer Valve
- 68. 2" Outside Diameter Main Exhaust Pipe (Starboard side)
- 69. Exhaust Air Control Valve
- 70. 1 1/4" Outside Diameter Exhaust Pipe
- 71. 3/4" Outside Diameter Exhaust Pipe
- 72. Exhaust Pipe Coupling
- 73. Compressed Air Intake (Forward)
- 74. Depth Gauge
- 75. Unidentified Fitting (Air Bleeder Valve?)



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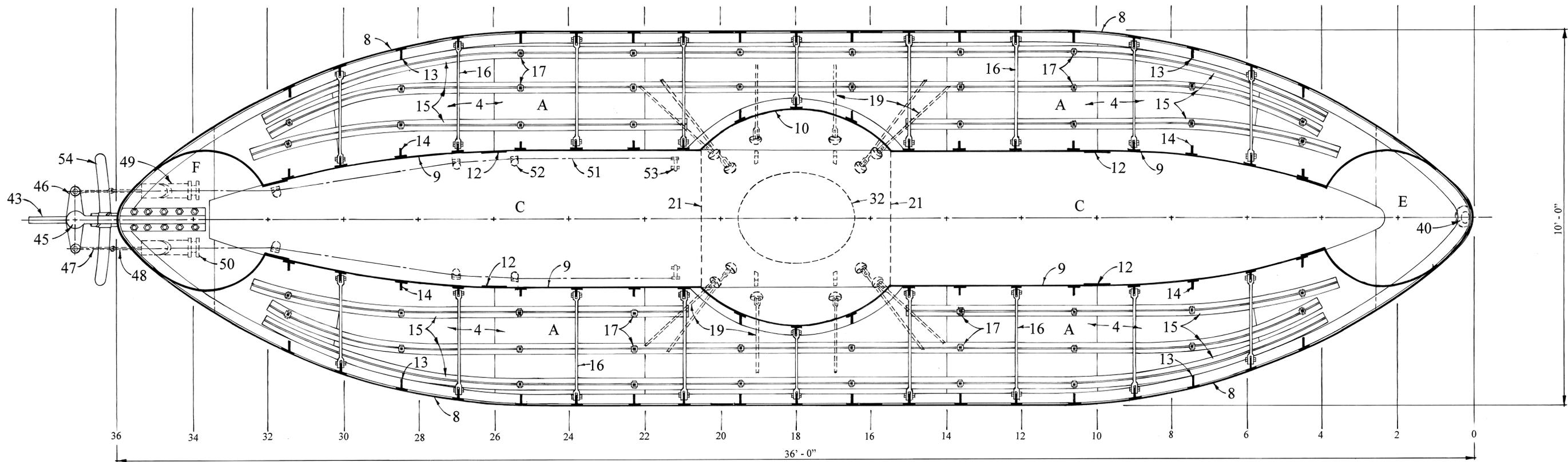
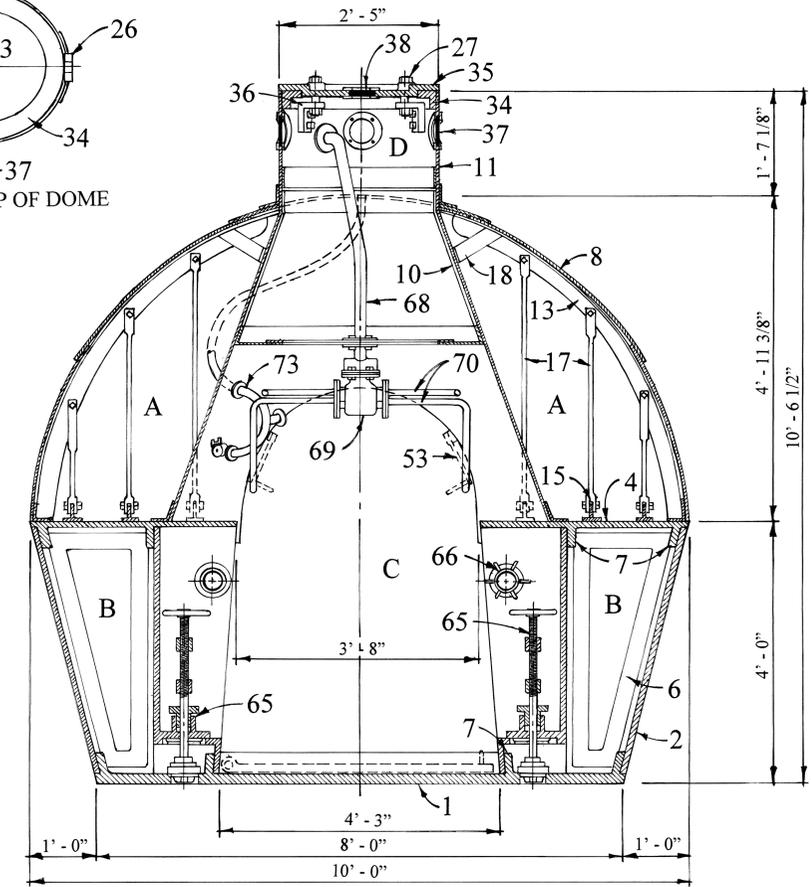
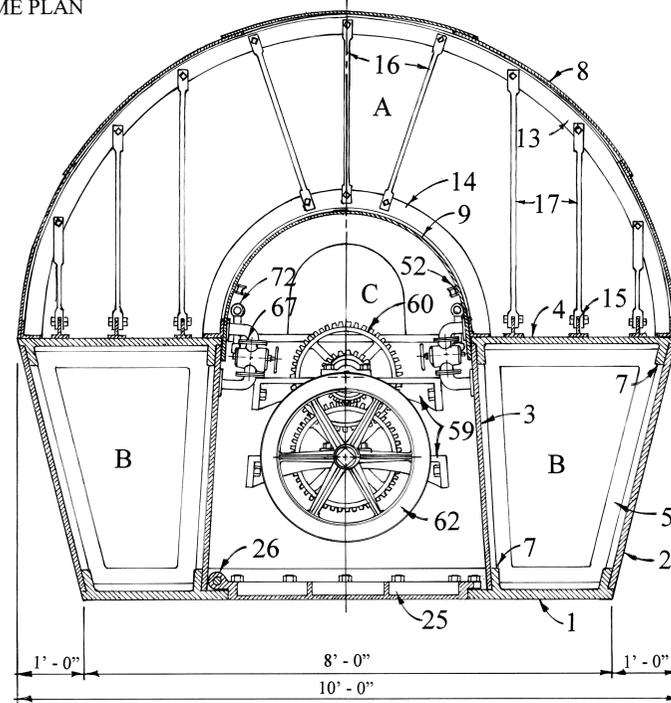
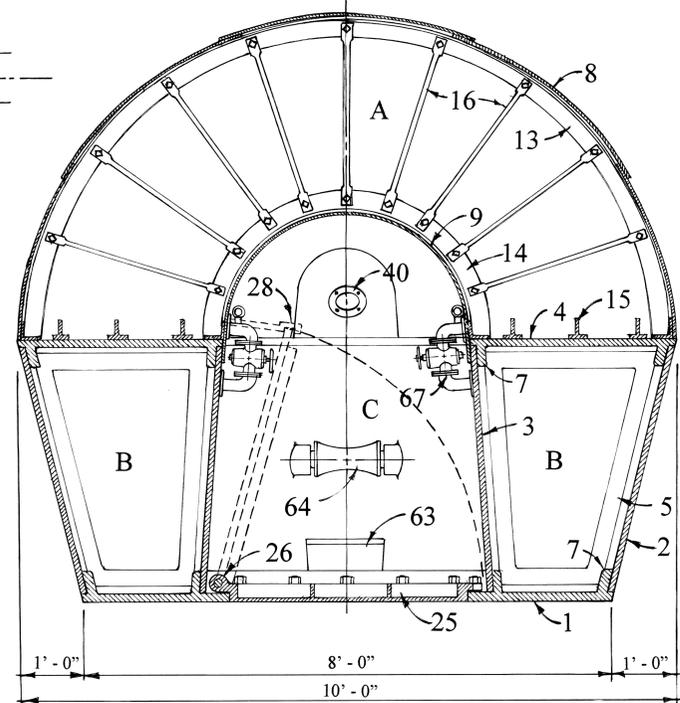
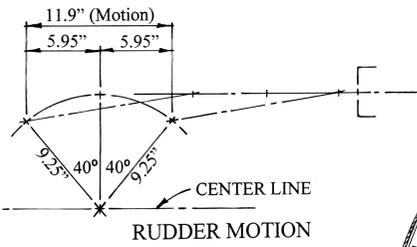
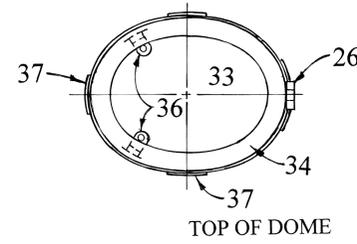
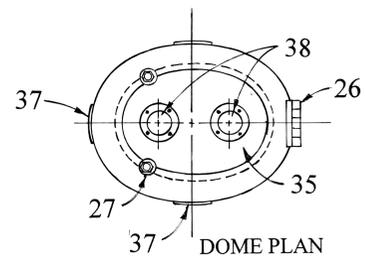
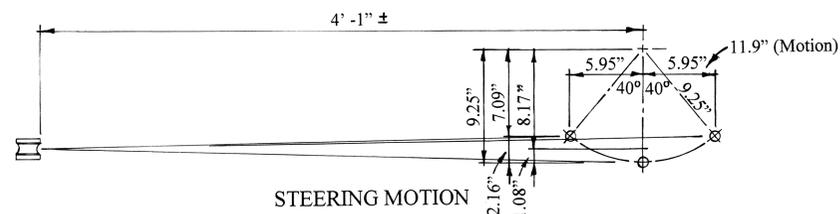
TANK PLAN



BOTTOM PLATE PLAN



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