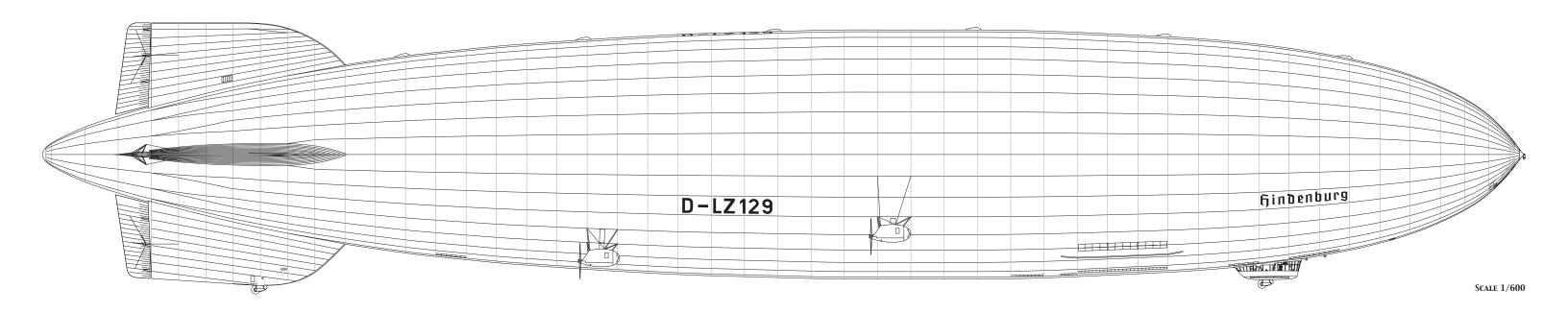
DETAILED TECHNICAL DRAWINGS OF THE

hindenburg

D-LZ129



A SET OF TECHNICAL DRAWINGS OF THE PASSENGER AIRSHIP HINDENBURG

SCALE IS 1/200 EXCEPT AS OTHERWISE NOTED

DRAWINGS BY DAVID FOWLER

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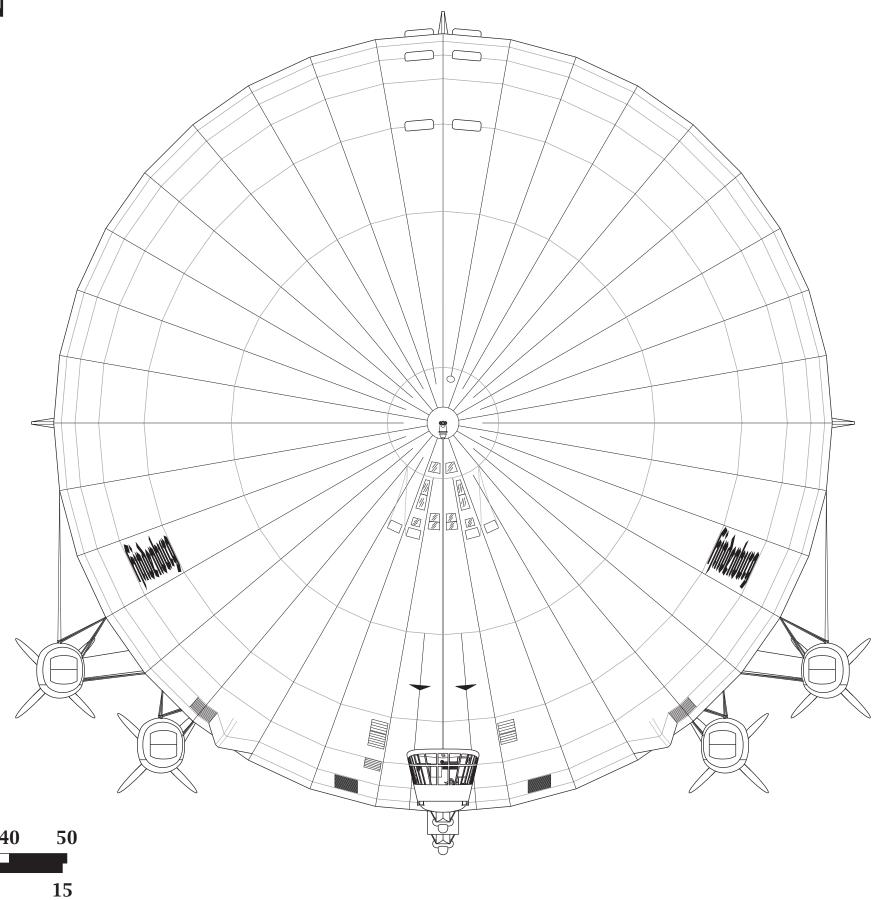
FRONT ELEVATION

FEET 0

METERS 0

10

5



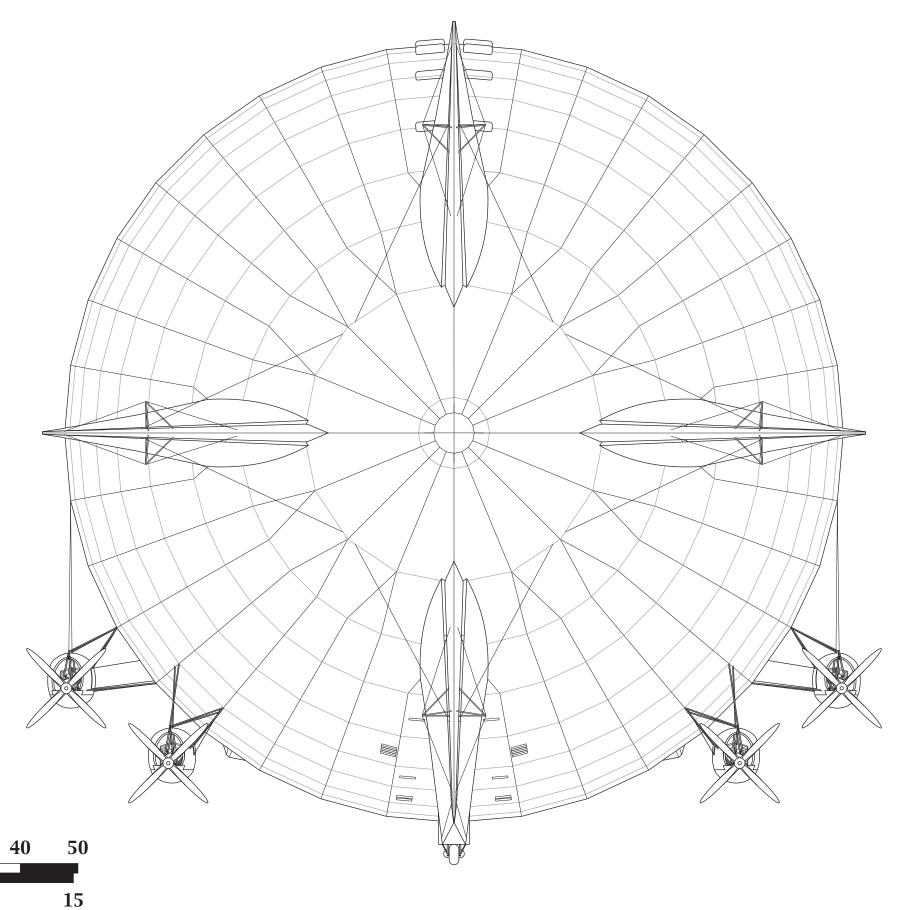
REAR ELEVATION

FEET 0

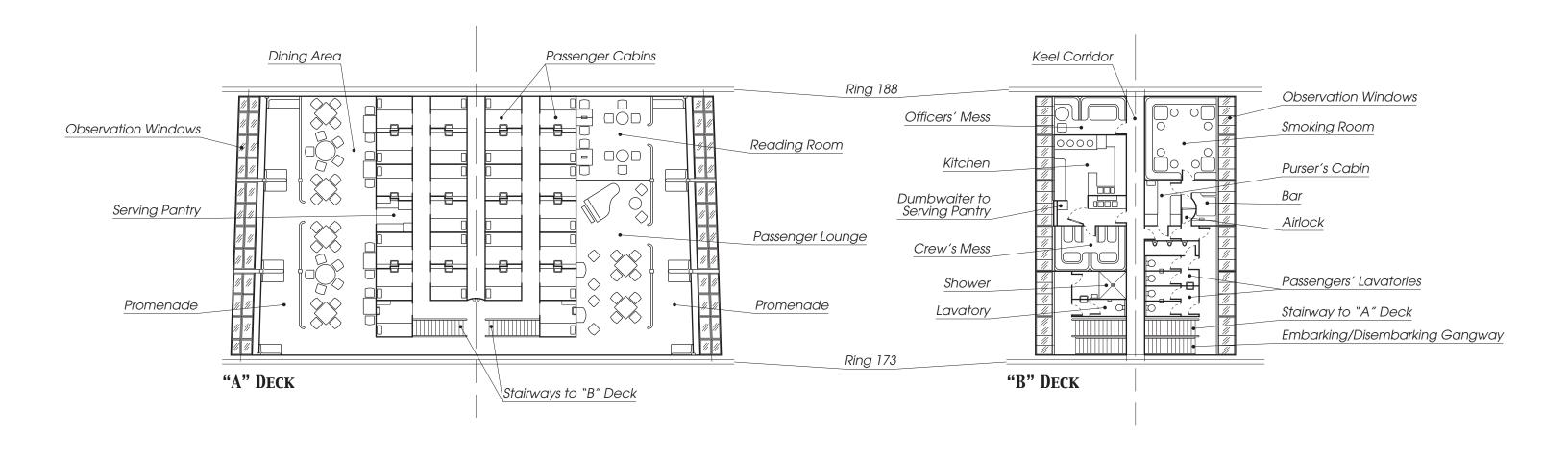
METERS 0

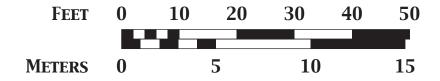
10

5

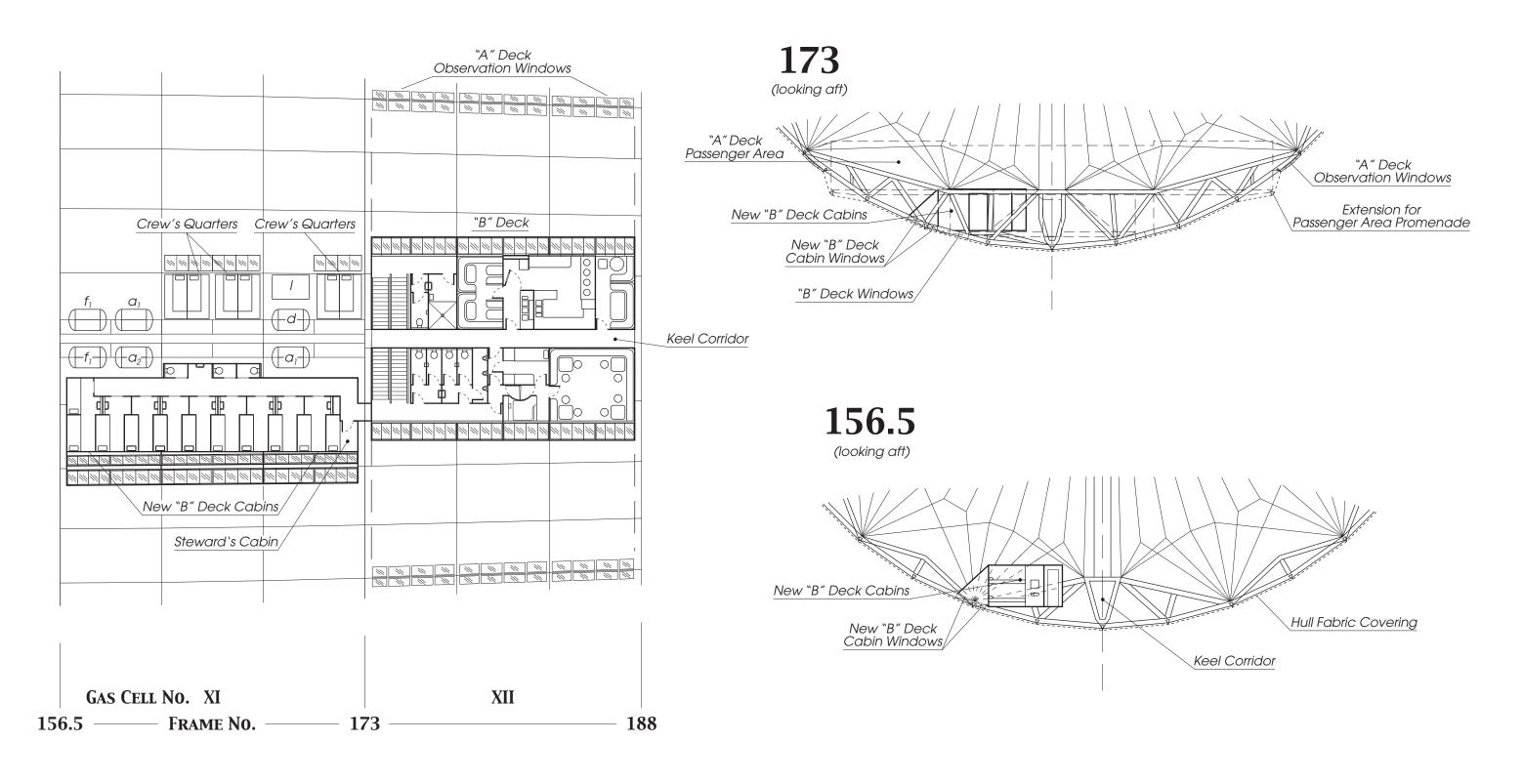


PASSENGER AREA





"B" DECK PASSENGER CABINS (ADDED 1937)



CONTROL GONDOLA

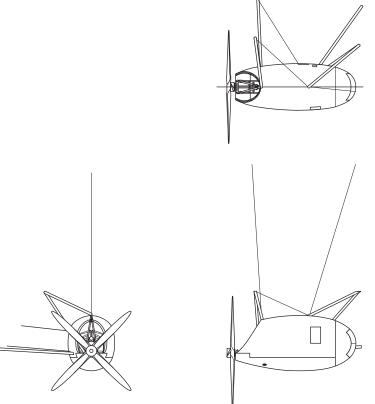
Navigator's Station Rudder Wheel Gas Cell Board Engine Telegraph

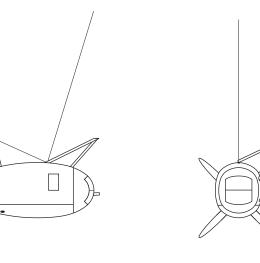
Landing Rail

Pneumatic Landing Wheel

FEET 0 10 20 30 40 50 METERS 0 5 10 15

ENGINE CAR (FORWARD)

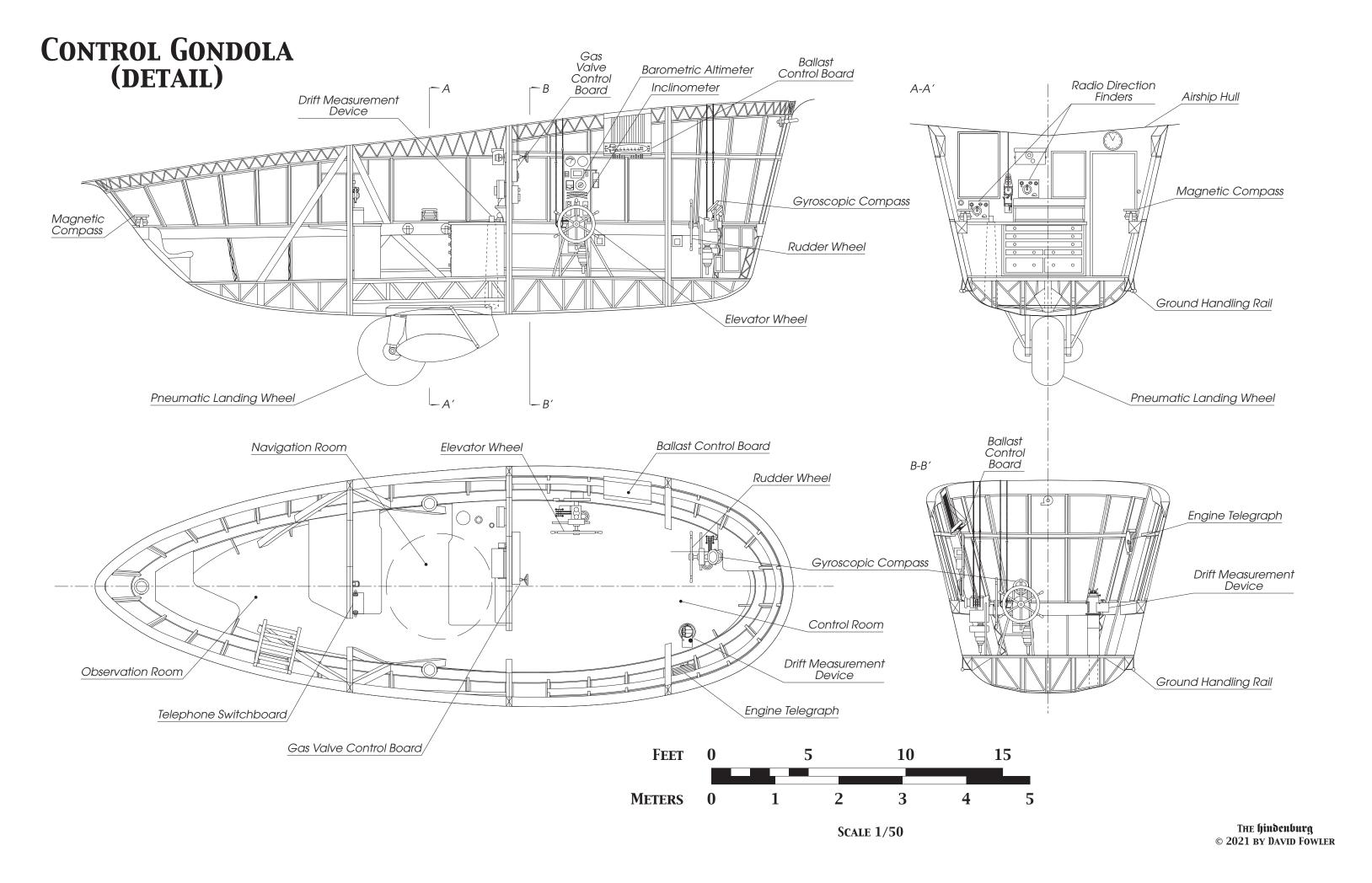


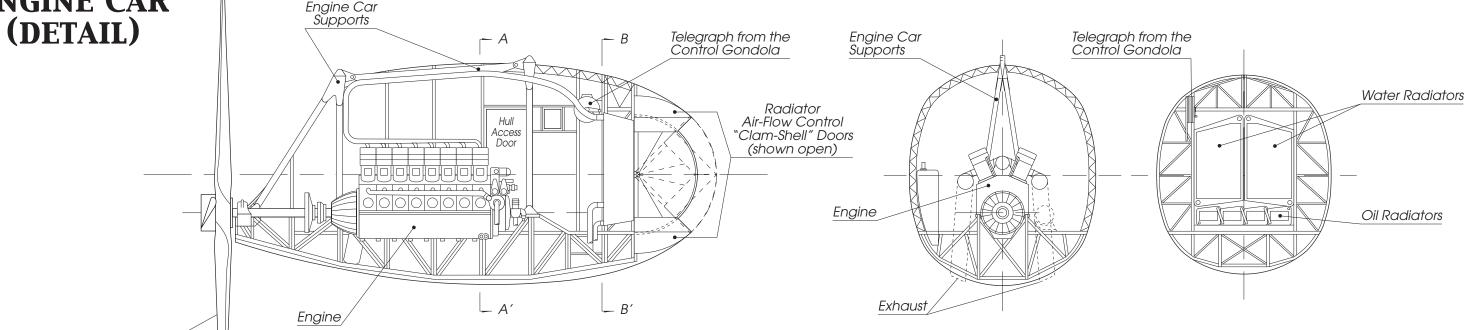


4 Engine Cars Forward Engine Cars mounted 4° outward from ship's axis Aft Engine Cars mounted at 3° outward from ship's axis

Engine specifications:
Daimler Benz LOF 6 diesel
V16, 4 valve per cylinder
770 kW (1050 hp) maximum at 1500 rpm
690 kW (940 hp) cruising at 1350 rpm
225 g/kWh (0.37 lbs./hp/h) fuel consumption (cruising)

Propeller diameter: 6.0 meters (19.7 feet) Propeller rpm (cruising): 625 rpm Maximum air speed: 137 kph (85 mph) Cruising air speed: 120 kph (75 mph)





Exhaust Engine Hull Access Door

Exhaust Engine Hull Access Door

Engine Car Supports

Propeller

4 Engine Cars

Forward Engine Cars mounted 4° outward from ship's axis Aft Engine Cars mounted at 3° outward from ship's axis

Engine specifications:

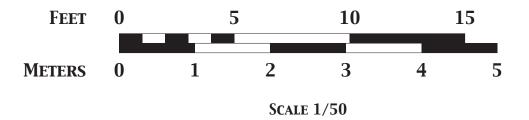
Daimler Benz LOF 6 diesel
V16, 4 valve per cylinder
770 kW (1050 hp) maximum at 1500 rpm
690 kW (940 hp) cruising at 1350 rpm
225 g/kWh (0.37 lbs./hp/h) fuel consumption (cruising)

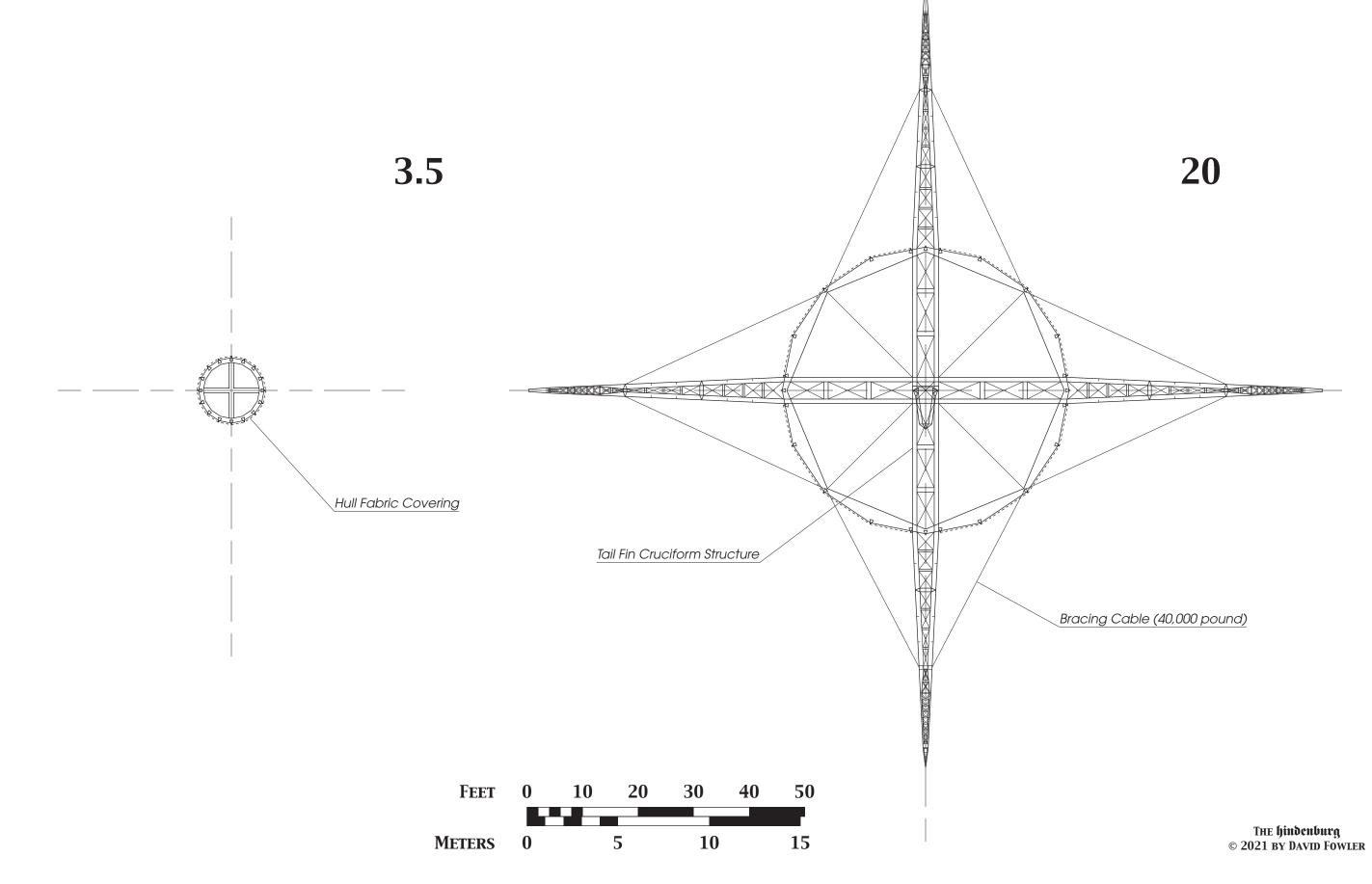
Two 2-blade propellers fixed together to create one 4-blade propeller

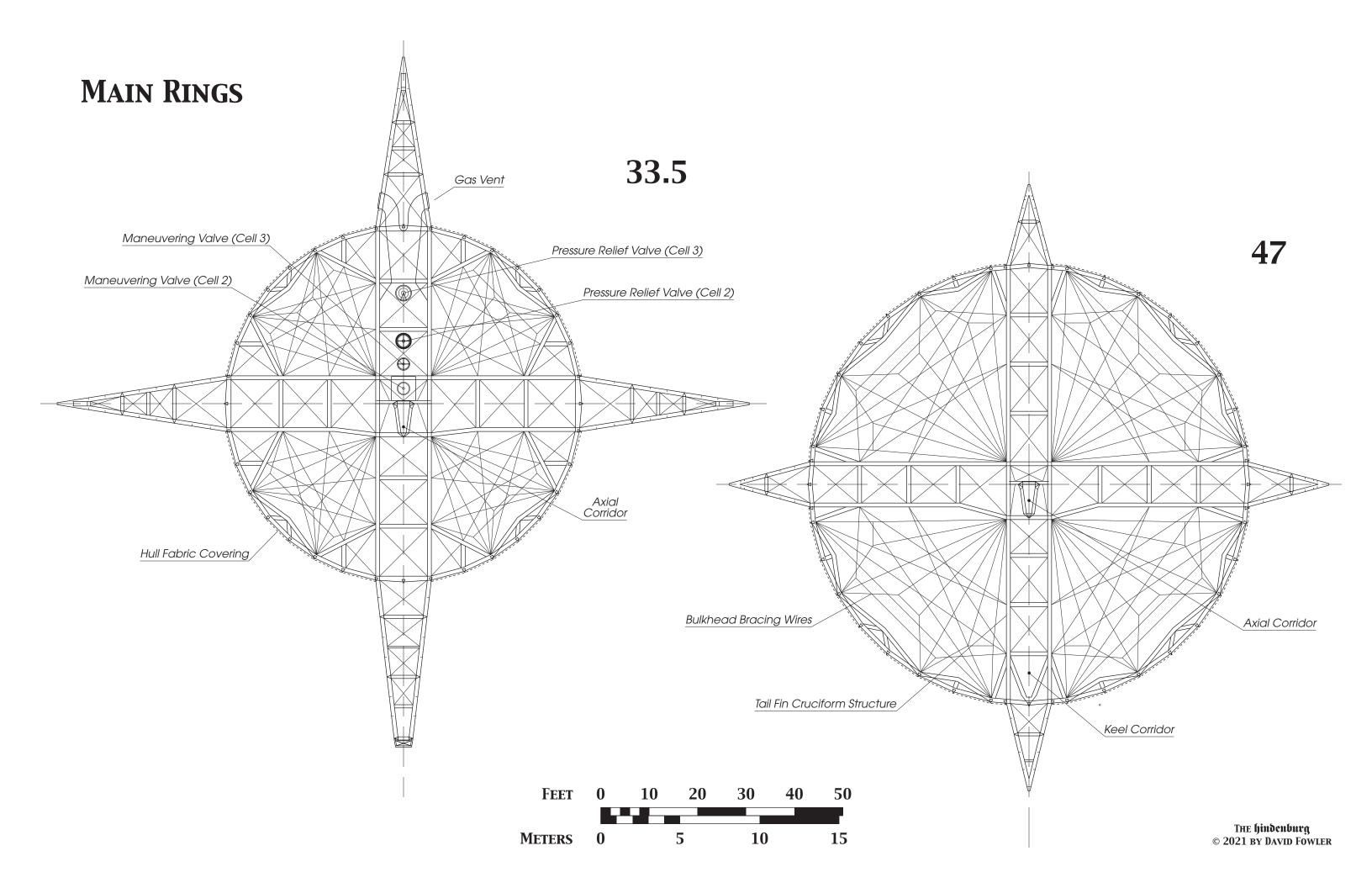
Propeller diameter: 6.0 meters (19.7 feet)

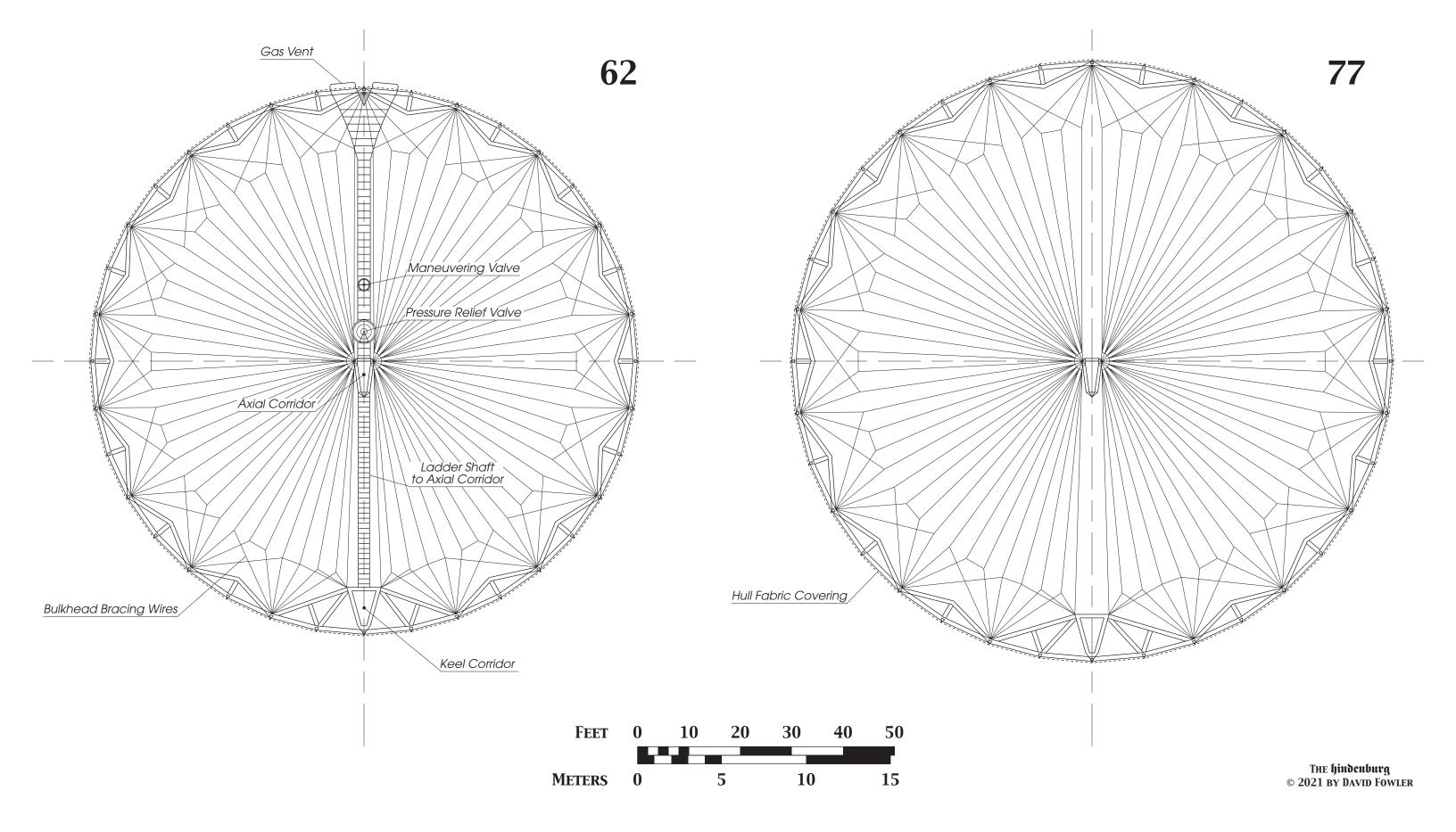
Propeller maximum tip velocity 848 kph (527 mph)

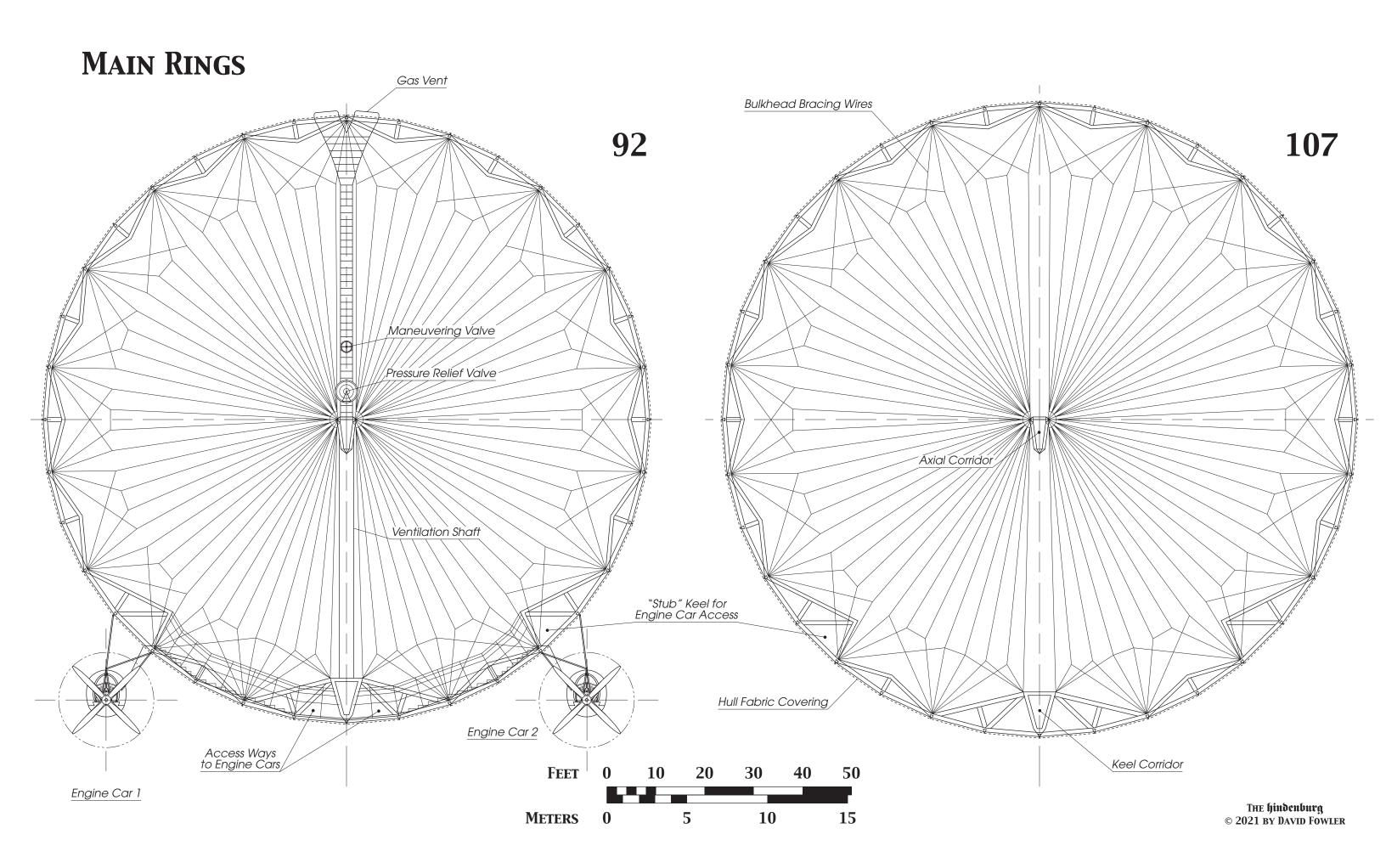
Propeller rpm (cruising): 675 rpm Maximum air speed: 137 kph (85 mph) Cruising air speed: 120 kph (75 mph)







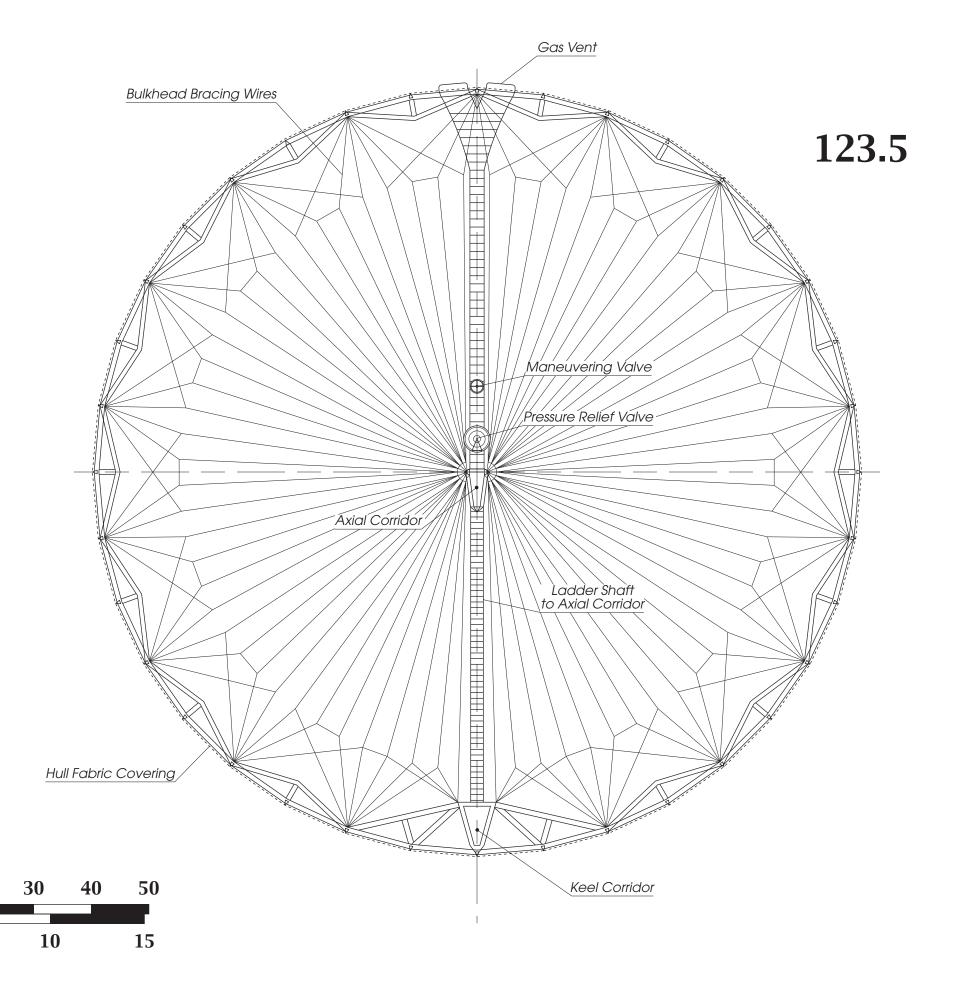


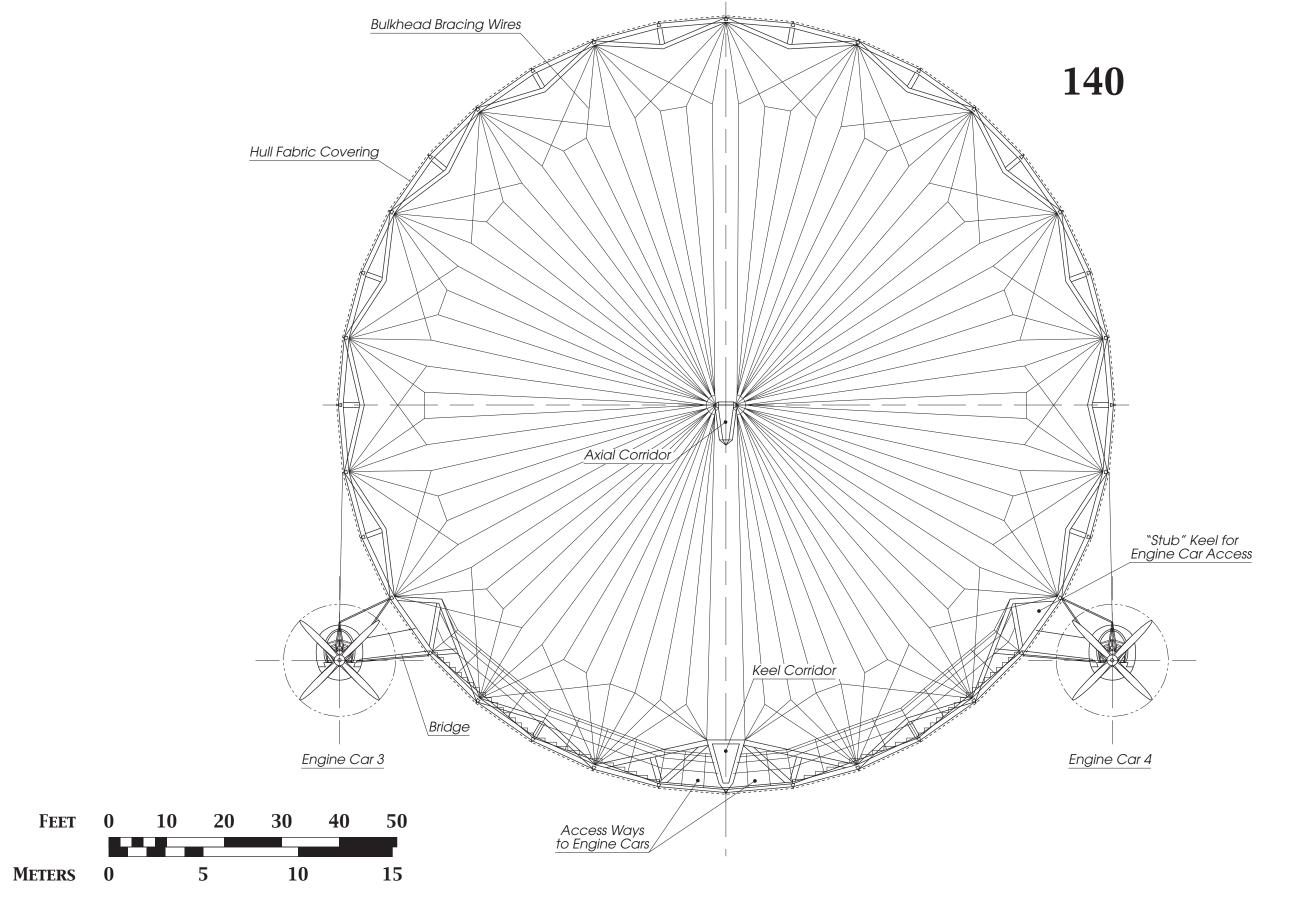


FEET 0

5

METERS





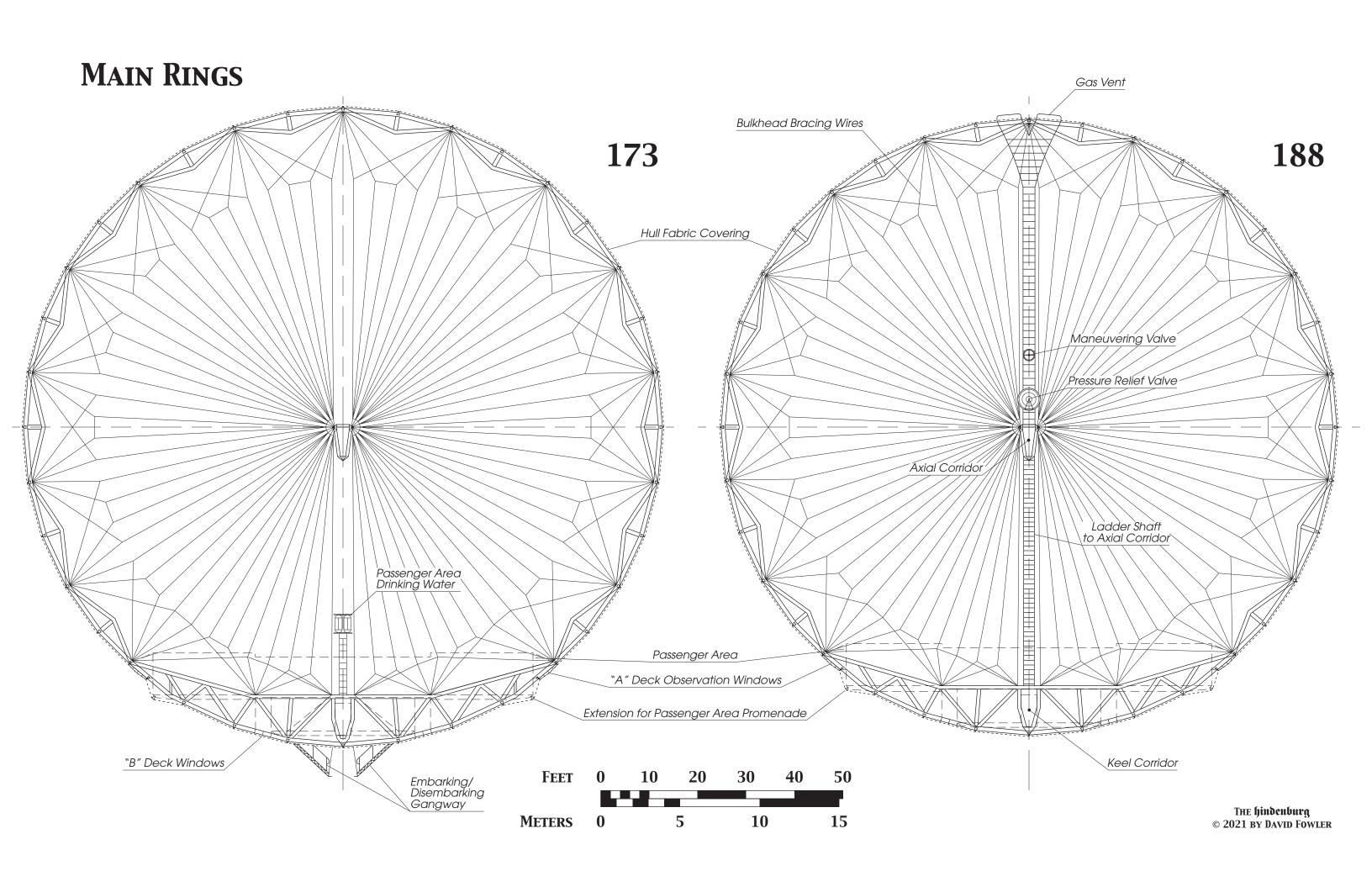
Gas Vent **MAIN RINGS** Bulkhead Bracing Wires **156.5** Maneuvering Valve Pressure Relief Valve Axial Corridor Ventilation Shaft "Stub" Keel for Engine Car Access Hull Fabric Covering FEET 0 **50**

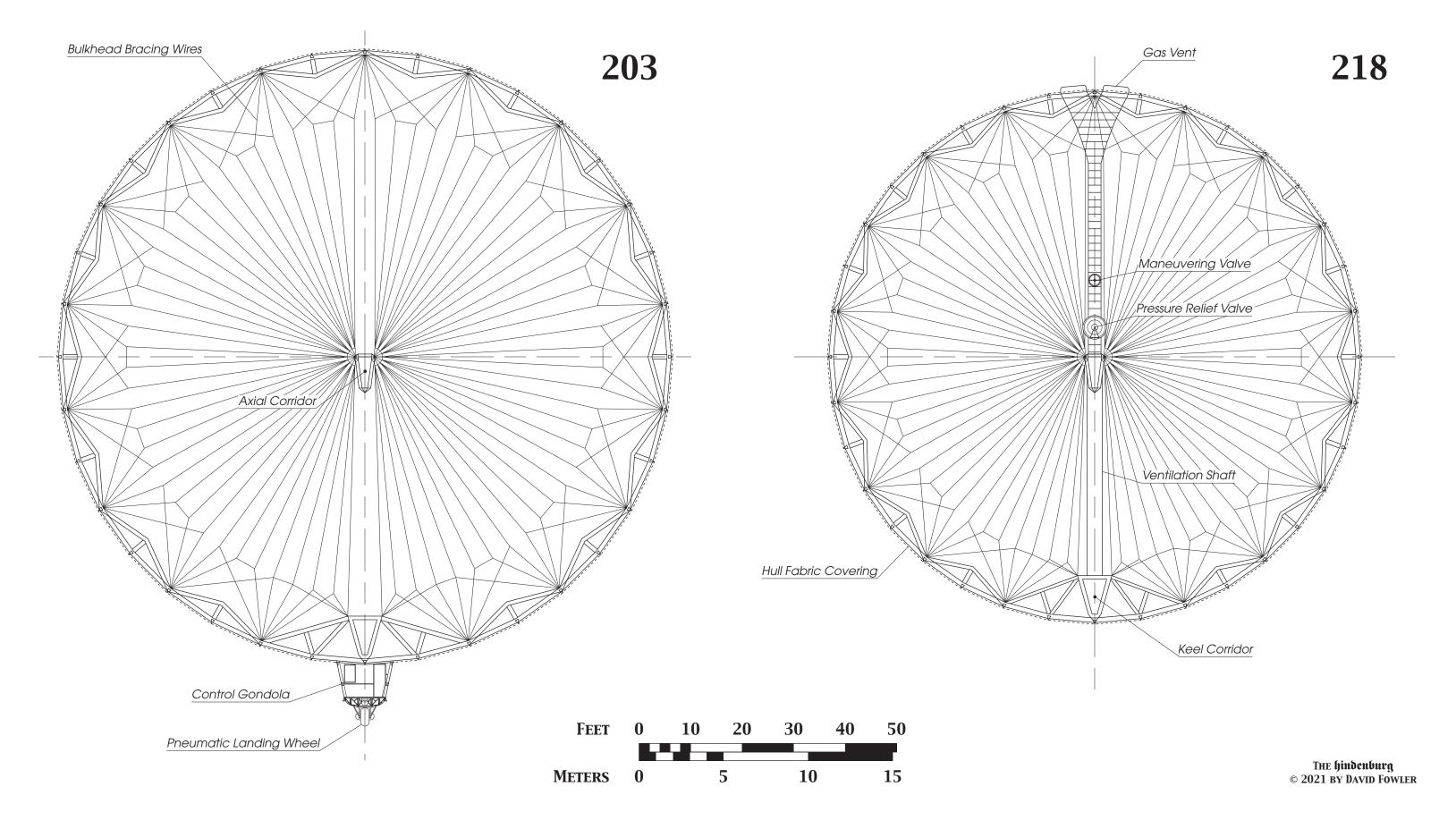
10

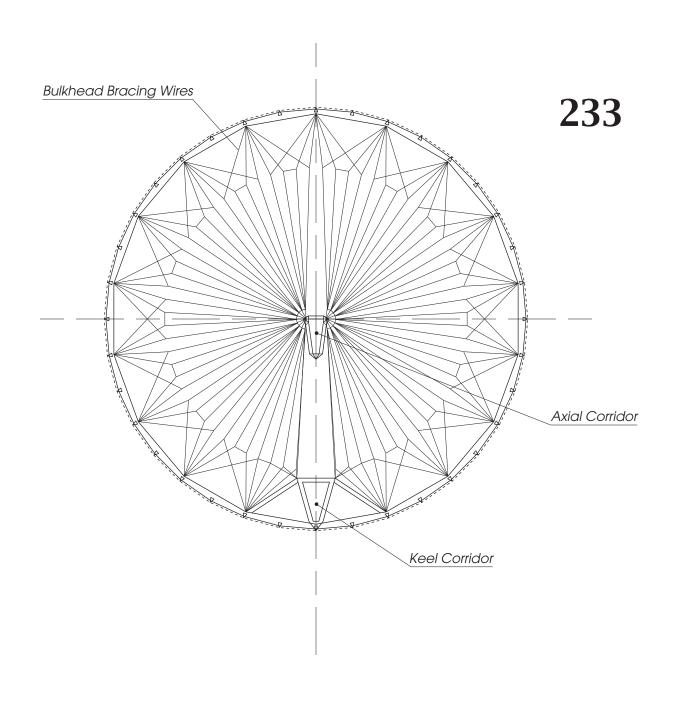
METERS 0

15

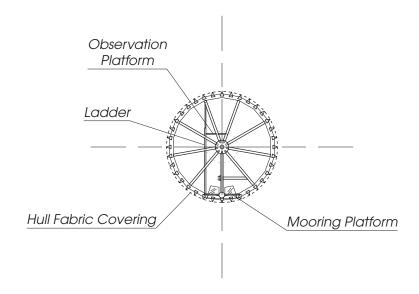
Keel Corridor

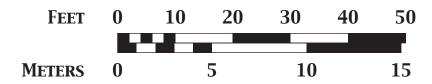




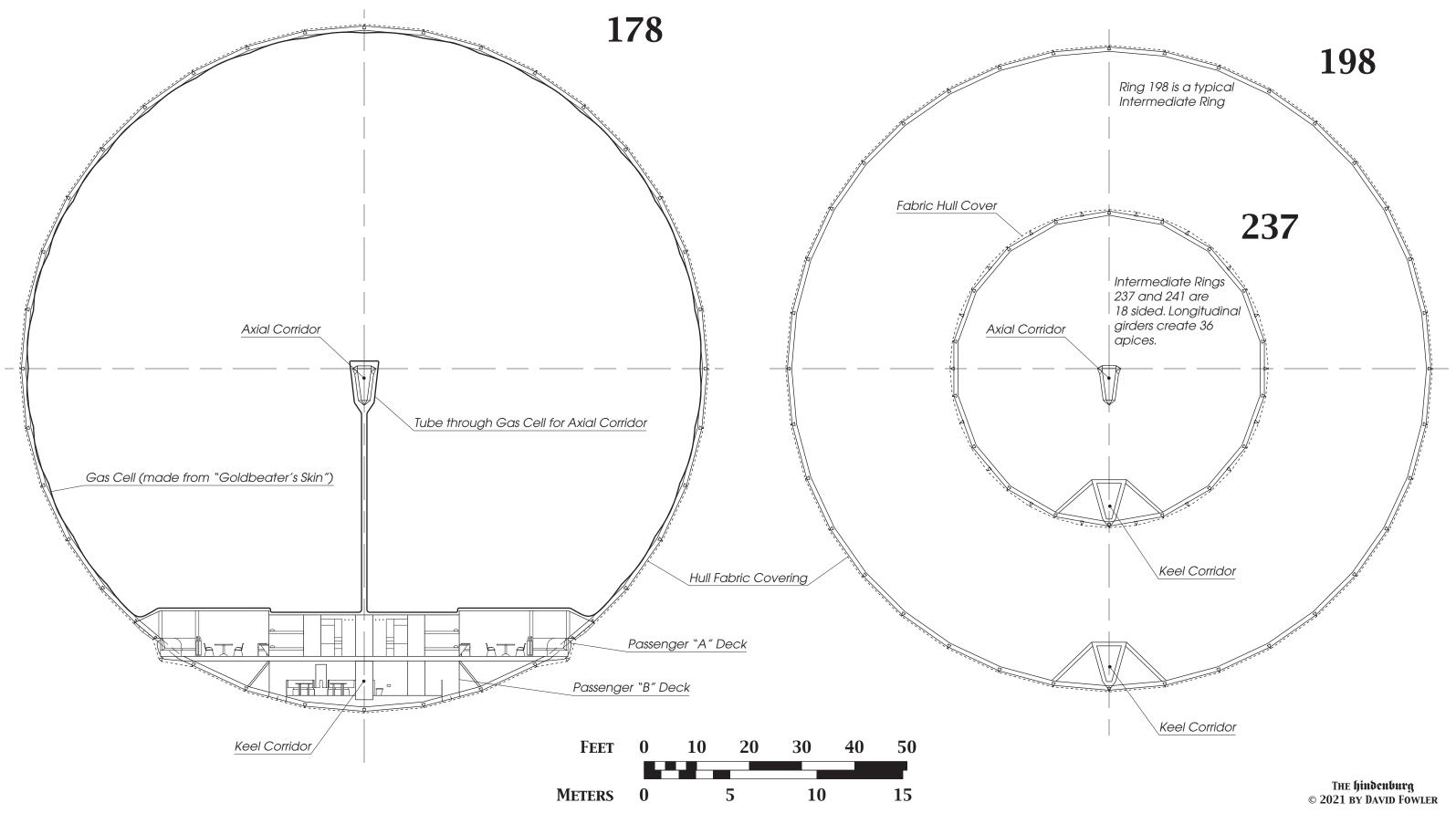




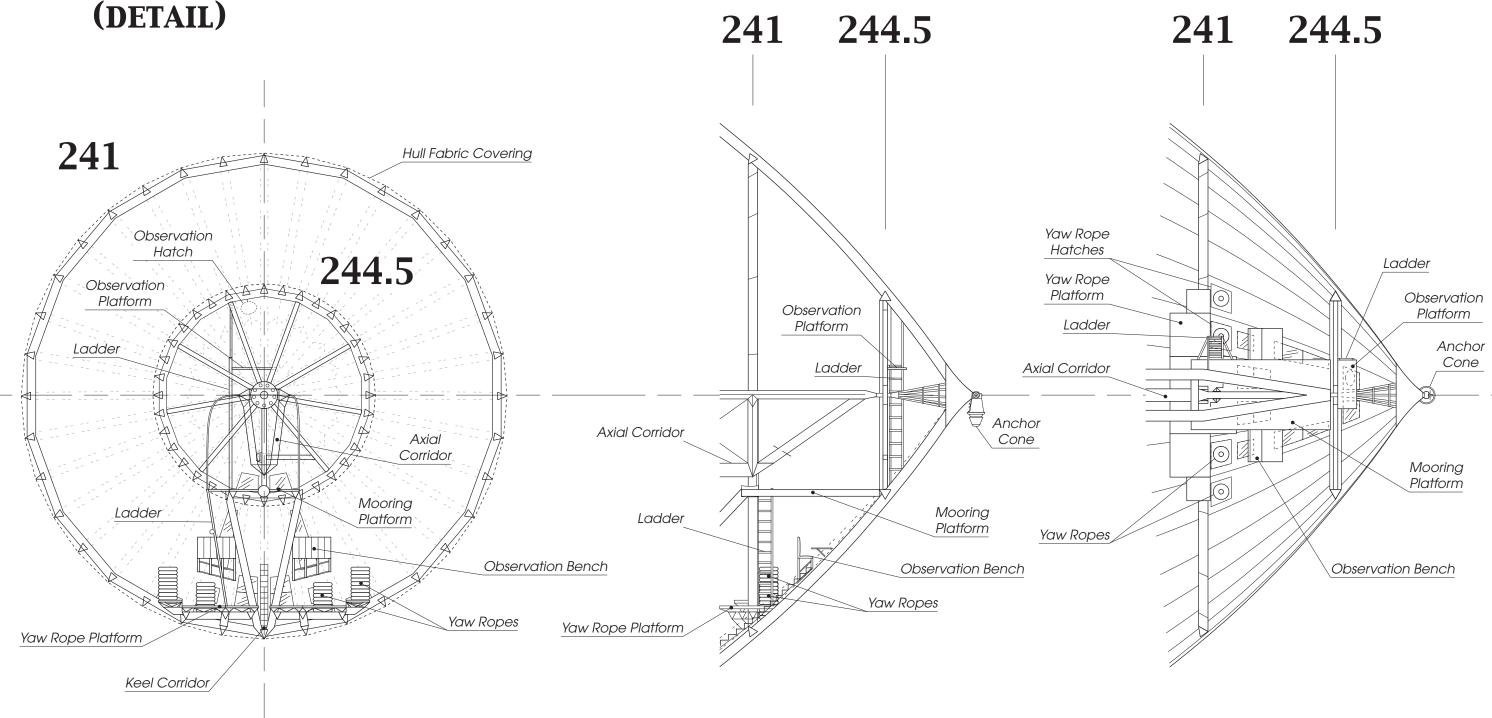


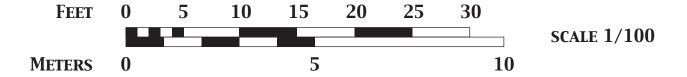


INTERMEDIATE RINGS



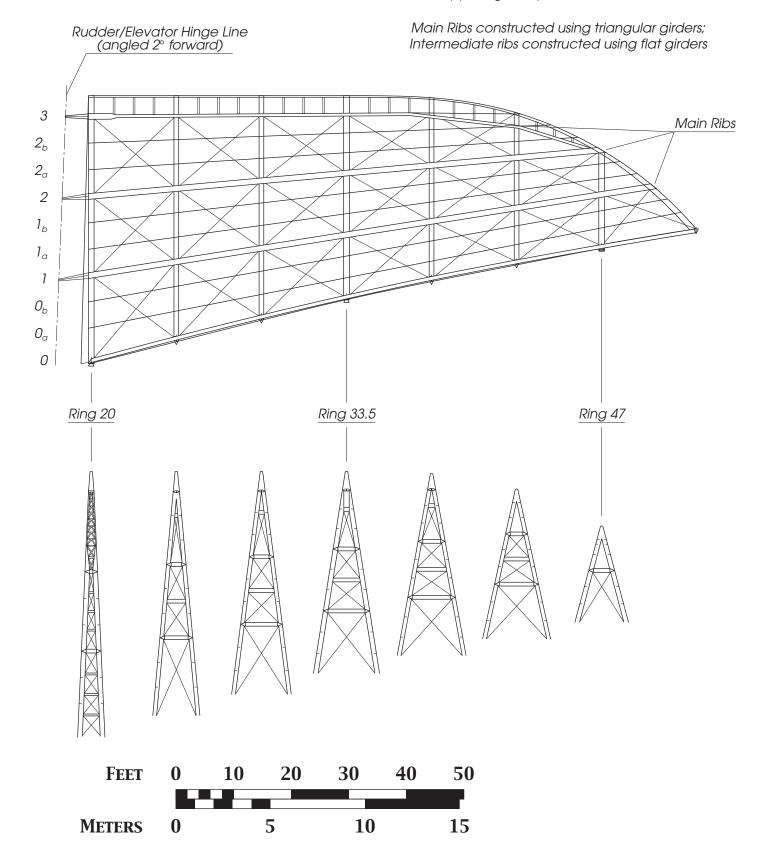


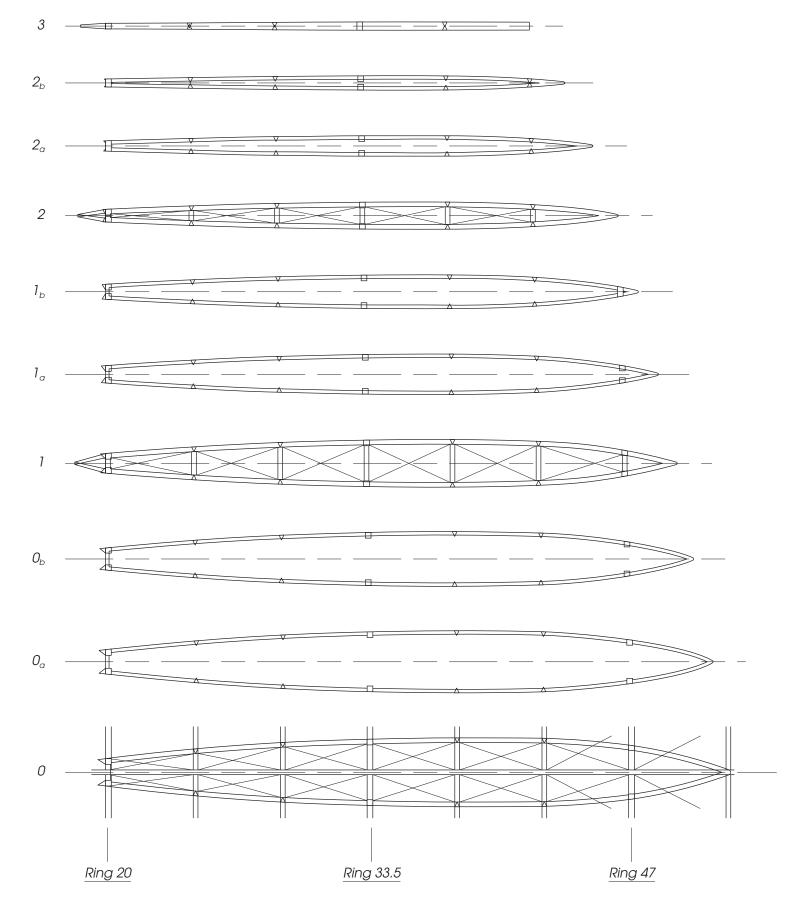




TAIL STRUCTURE

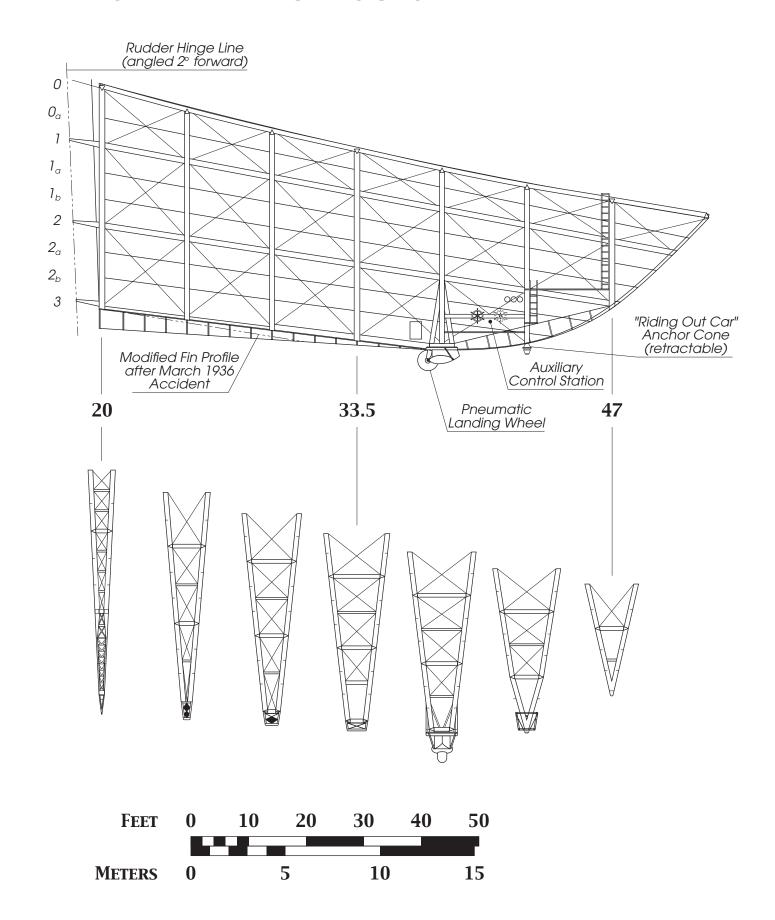
Main Ring construction of the Tail Fins is braced through the hull to the opposing Fin by the Tail Fin Cruciform Structure

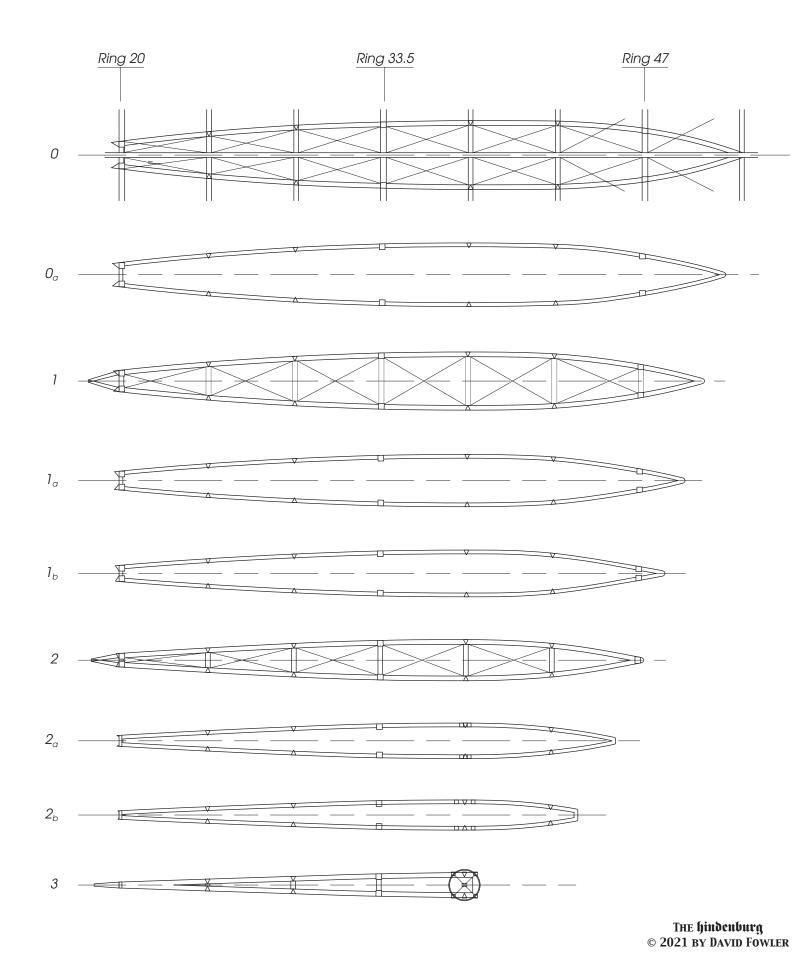




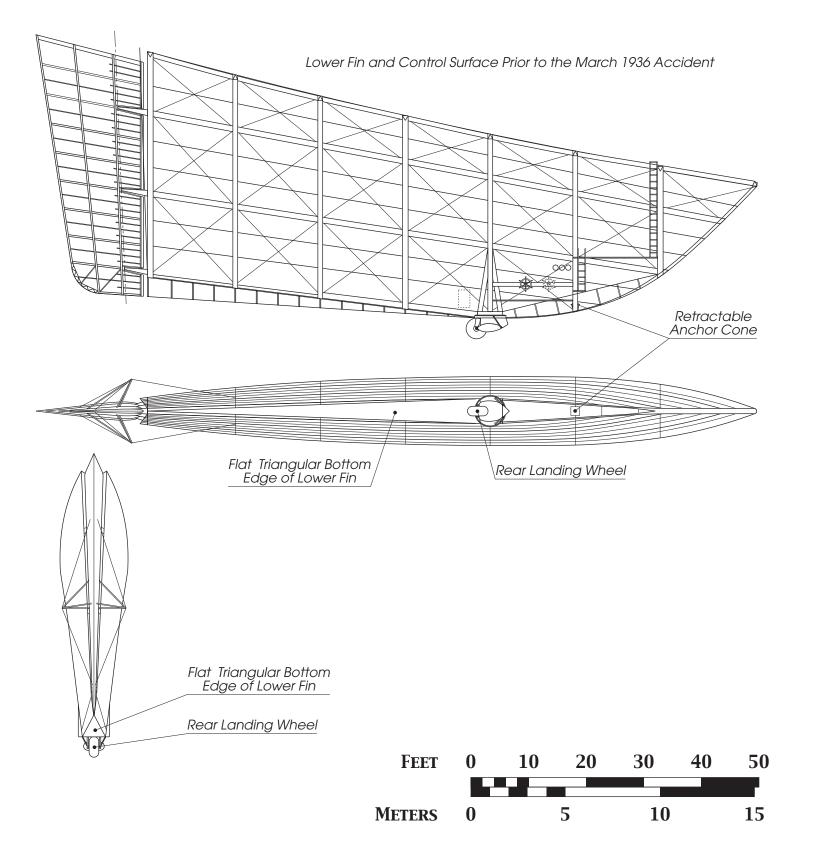
THE hindenburg © 2021 by David Fowler

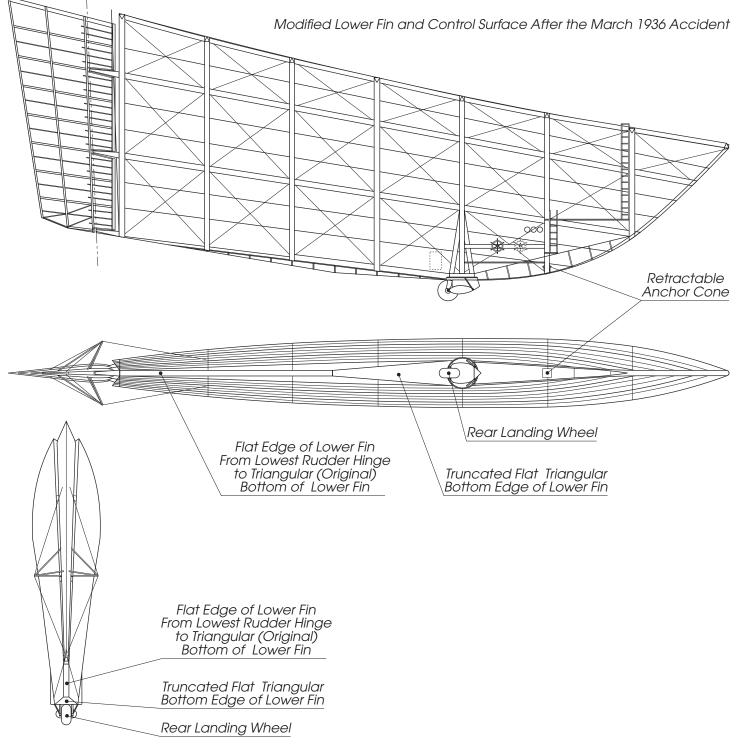
LOWER TAIL STRUCTURE





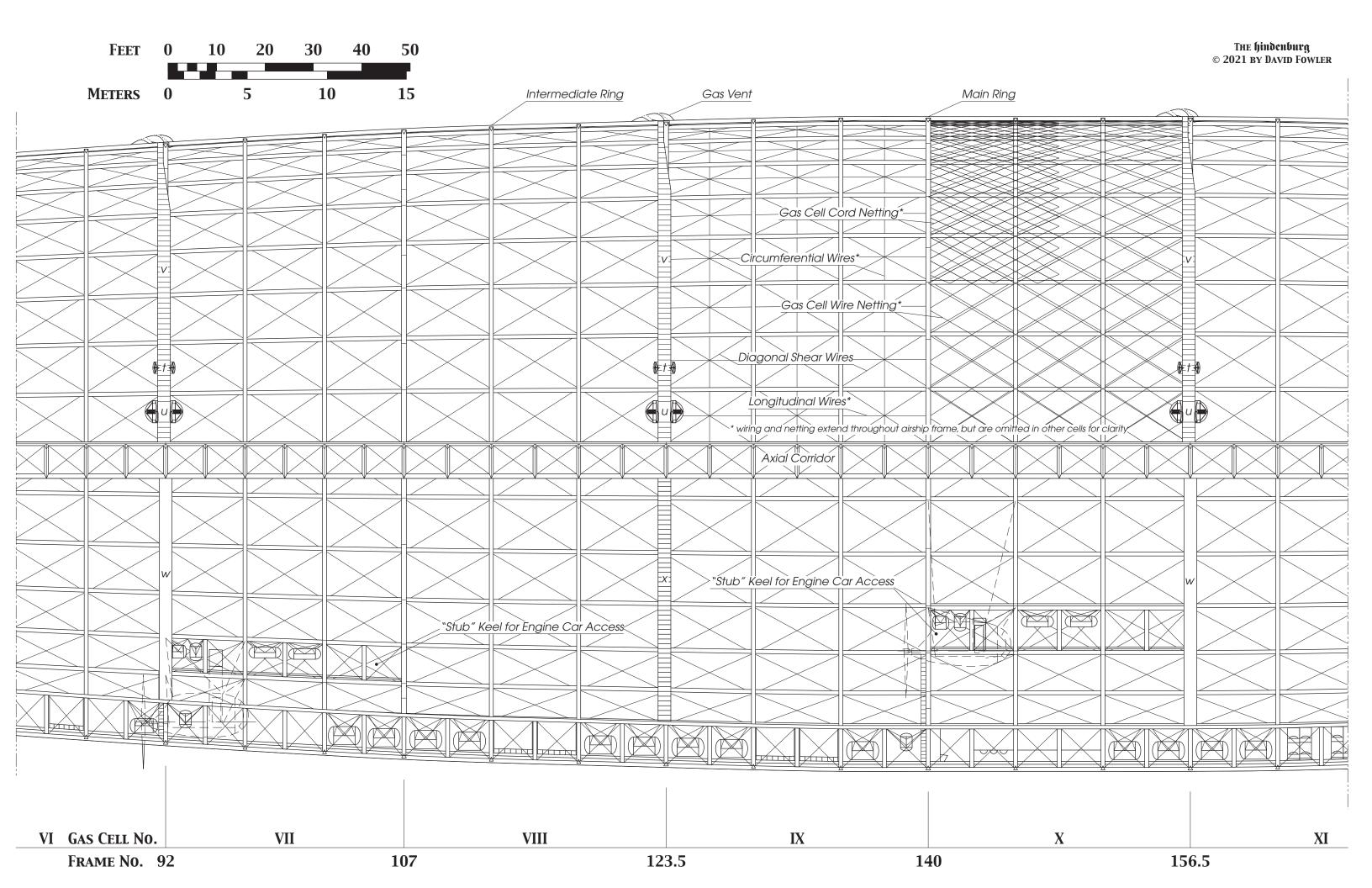
LOWER TAIL STRUCTURE (PRE- AND POST-MARCH 1936 MODIFICATION)

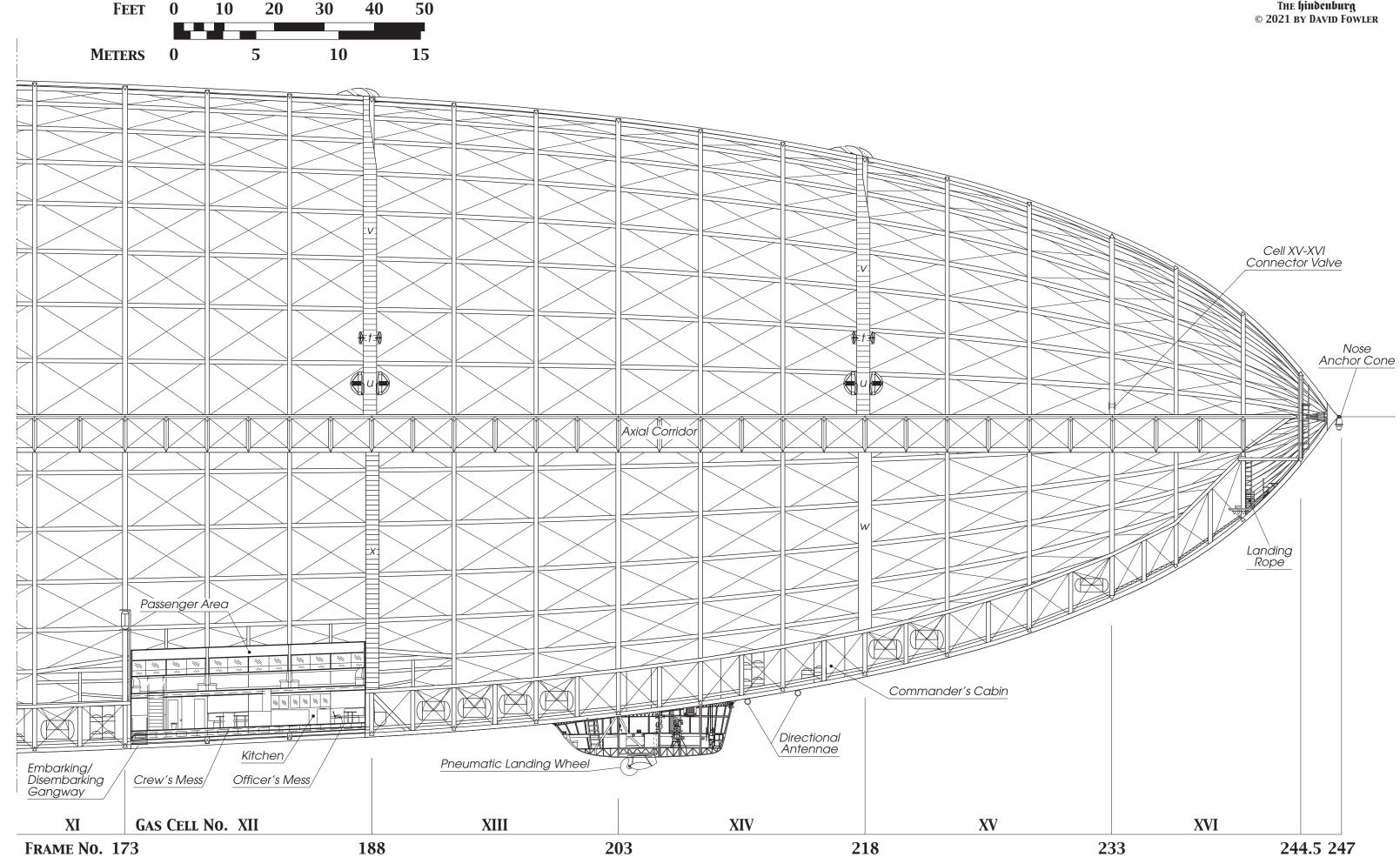


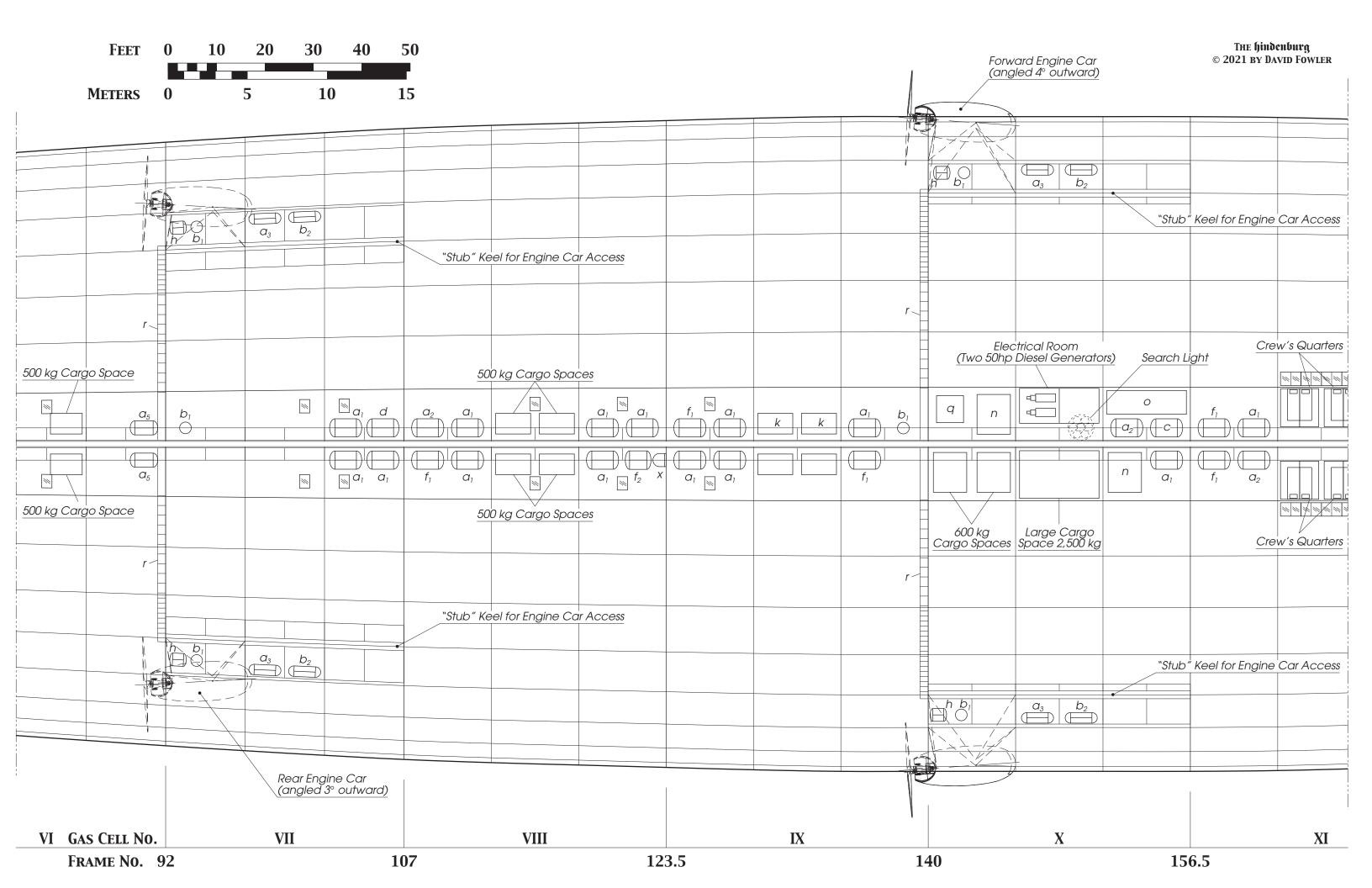


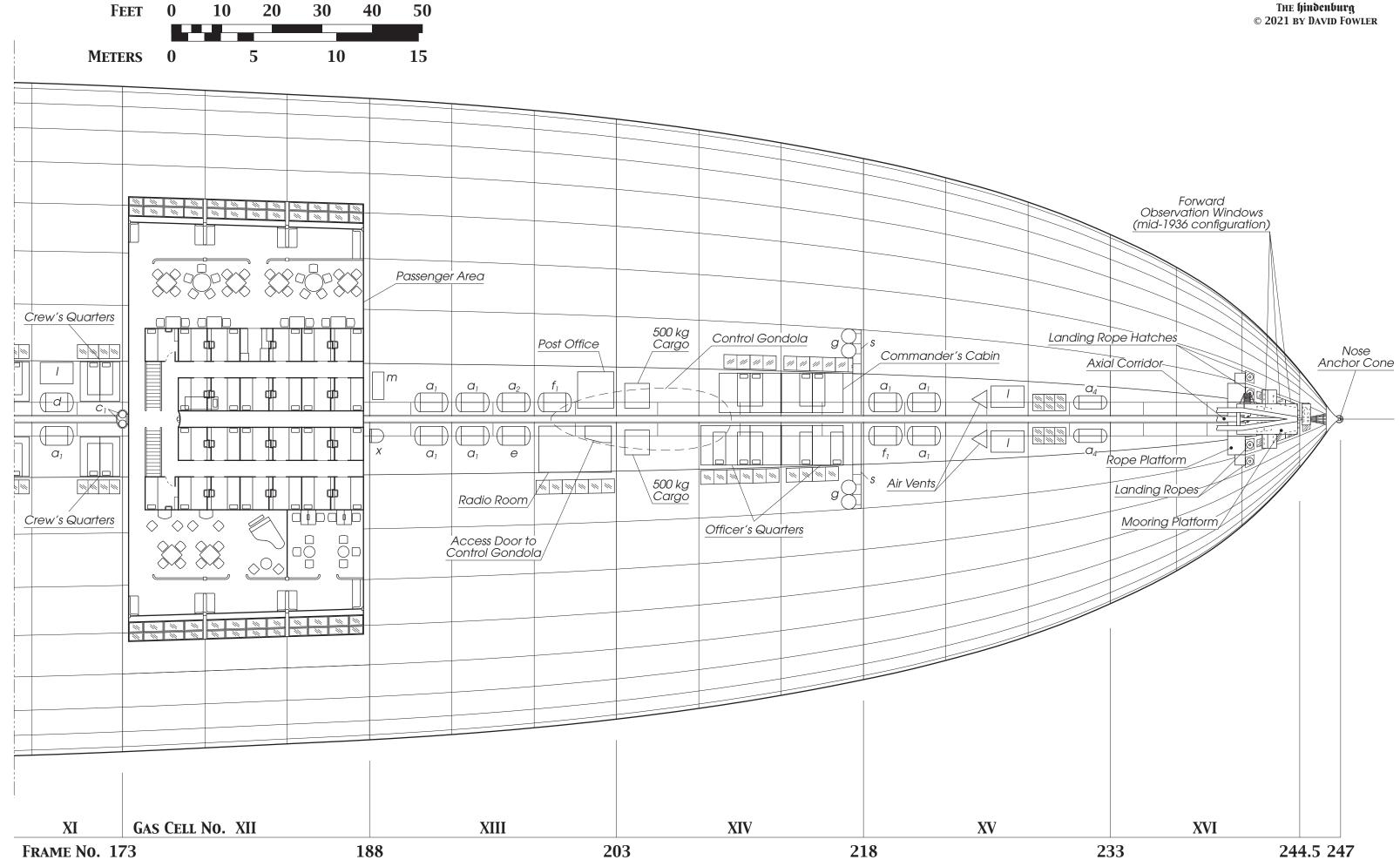
THE hindenburg

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Explanation of Letters on Longitudinal Cross Section and Plan Views

a_1 a_2 a_3 a_4 a_5 a_5 a_5 a_6 a_5 a_6	Fuel Oil Barrels (2,500 liters) (28) Fuel Oil Valve Barrels (2,500 Liters) (4) Fuel Oil Operation Barrels (800 liters) (4) Fuel Oil Barrels (1,250 liters) (4) Fuel Oil Barrels (850 liters) (2) Lubrication Oil Barrels (500 liters) (6) Lubrication Oil Barrels (380 liters) (4) Drinking Water Barrels (2,500 liters) Passenger Drinking Water Barrels (200 Liters) (2) (elevated to maintain faucet pressure) Fresh Water Barrels (2,500 liters) (2) Waste Water Barrels (2,500 liters) (2) Barrels for Recovered Ballast Water (2,500 liters) (9) Barrels for Recovered Ballast Water (2,000 liters) (2) Double Ballast Bags (500 liters) (4) Cooling Water Barrels (400 liters) (4) Baggage Room (500 kg) (2) Spare Parts Storage Room (500 kg) Food/Storage Room (500 kg) Food/Storage Room (500 kg) Engineer's Room Exhaust Washroom and Toilet Workshop Access Way to Engine Cars (4) Access Ways to Ballast Bags (4) Maneuvering Valve (14) Pressure Relief Valve (14) Gas Shaft (7) Ventilation Shaft (3)
	Ventilation Shaft (3) Ladder Shafts (3) Anchor Cones (2)

Ring No. (meters)	Diameter (meters)	Diameter (feet)
2 2.5 3.5 9 14.5 20 24.5 29 33.5 38 42.5 47 52 57 62 67 72 77 82 87 92 107 112.5 118 123.5 140 145.5 151 156.5 162 167.5 173 178 183 198 203 218 223 228 233 224 244.5 246.5 247	0 2.2 3.8 9.1 12.7 15.9 18.3 20.5 22.6 24.6 26.3 28.0 31.2 32.6 33.8 35.8 35.8 36.6 37.3 38.0 38.0 40.7 41.2 41.2 41.2 41.2 41.2 41.2 41.2 41.2	0 7.06 12.38 29.75 41.78 52.17 59.92 67.31 74.24 80.61 86.43 91.78 97.25 106.96 110.76 114.12 117.45 120.08 122.38 124.60 126.64 128.53 130.25 131.56 132.55 133.53 134.51 135.17
247	U	U