



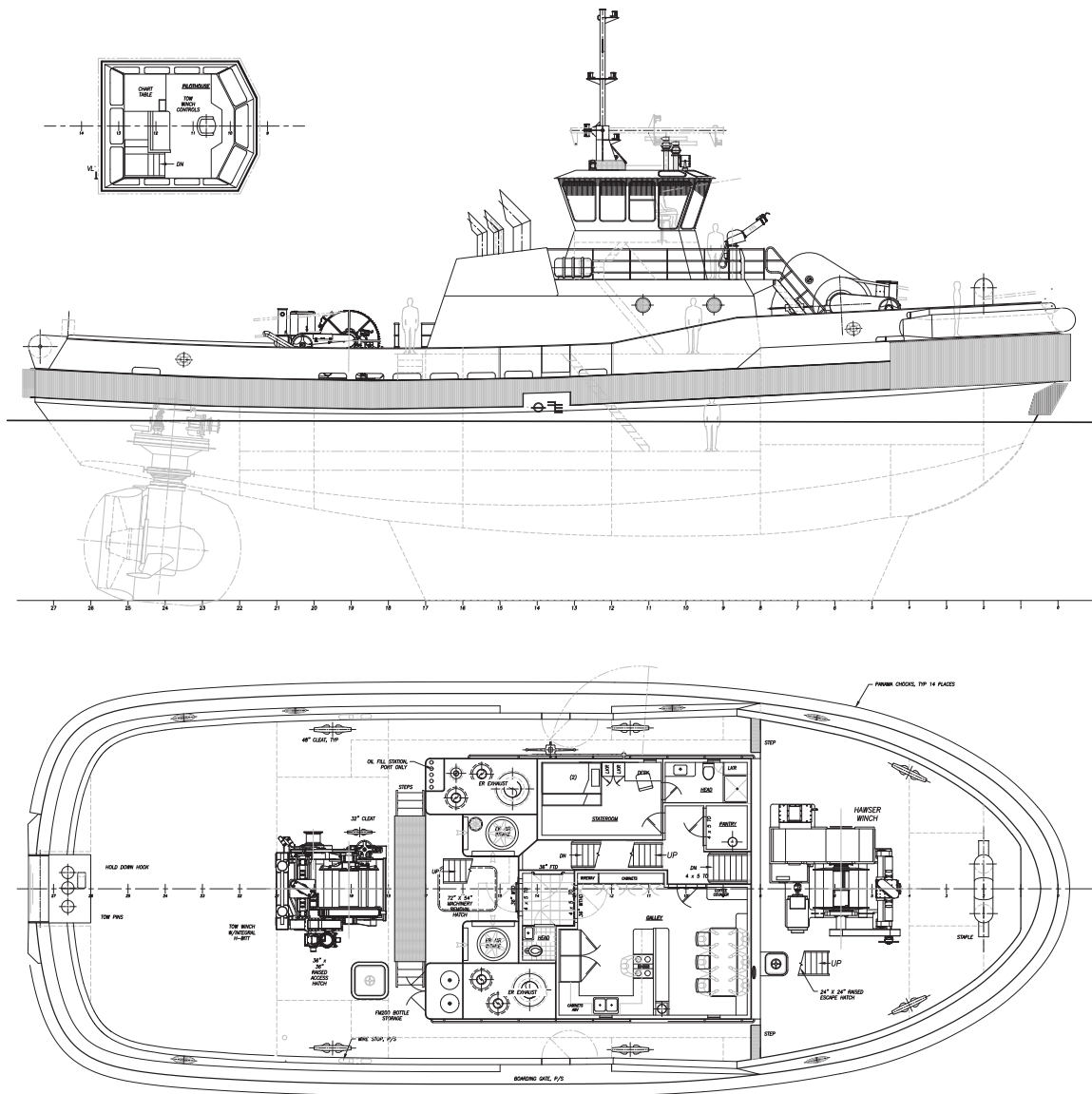
TES-10040

100' x 40' Hybrid Tug

Jensen was selected to provide the design for Baydelta Maritime's new 100-foot, Z-Drive hybrid tugboat. It uses Rolls-Royce hybrid technology and represents the first hybrid tug designed by Jensen to enter the construction phase.

Delivered in the first quarter of 2019, the tug features the same ship assist and tanker escort capabilities of existing Valor class harbor tugs, but with multiple operational modes. The Rolls-Royce hybrid system allows for the vessel to operate direct-diesel, diesel-electric or fully-electric while assisting the large containerships and tankers that operate in U.S. West Coast ports. This concept will save fuel and reduce emissions, needed for their operations, while supplying Baydelta with the same power and vessel characteristics as her sister vessels. The flexibility provided by the drive system will allow loitering and transit at up to 7-8 knots in electric-only mode, then a bollard pull of 90 short tons (81.7 metric tons), in combined diesel-electric mode.

The tugboat is ABS Load Line and Classed, as well as compliant with U.S. Coast Guard Sub-Chapter M regulations.



Vessel Specifications

Overall Dimensions

Length	100'-0" (30.5 m)	Z-Drives	2 x Rolls Royce 255FP
Breadth	40'-0" (12.1 m)	Fuel	3 x Cat C9.3 Generators 300 kW each
Depth	17'-0" (5 m)	Winch	Rapp-Electric hawser winch and Single Drum Tow Winch
Bollard Pull	90 short-ton (81.7 mT)	Fuel	68,650 gal
Main Propulsion	2 x Cat 3516 Diesel Engines each rated 1995 kW at 1600 rpm 2 x 420 kW motors	Fresh Water	4,300 gal
		Berths	7

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