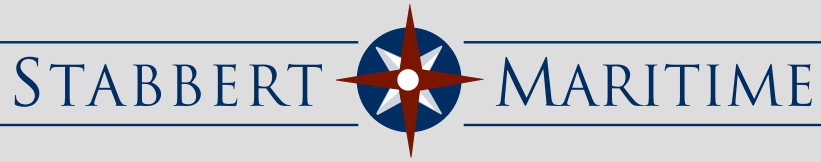


**APPENDIX B
REPRESENTATIVE SURVEY VESSELS**

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M/V PACIFIC STAR



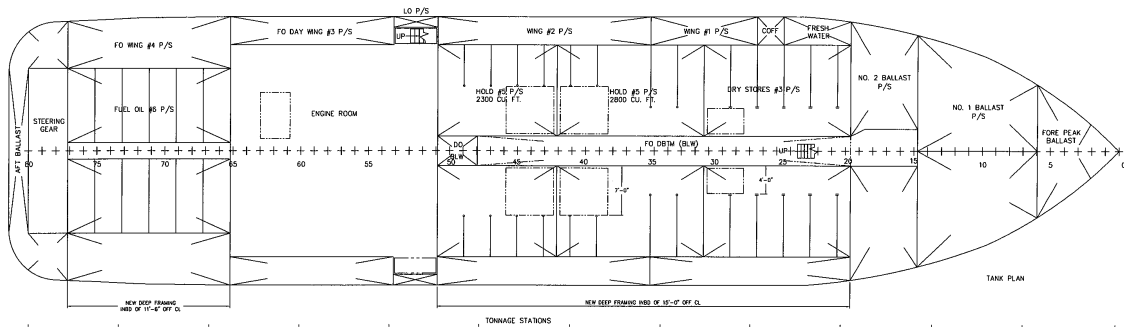
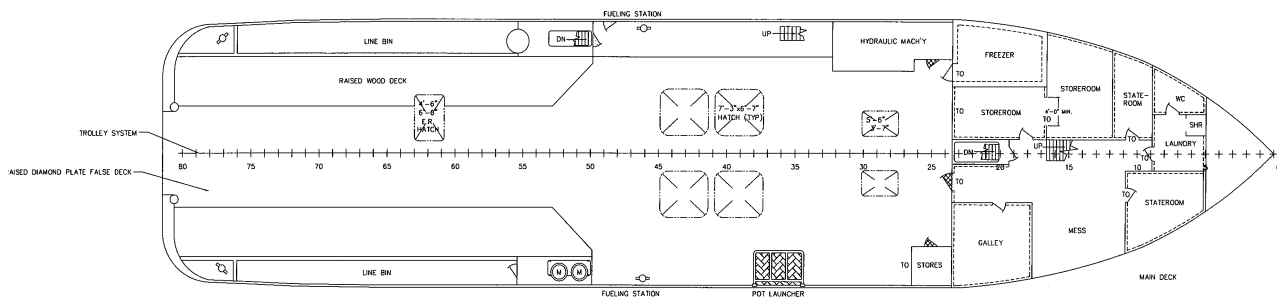
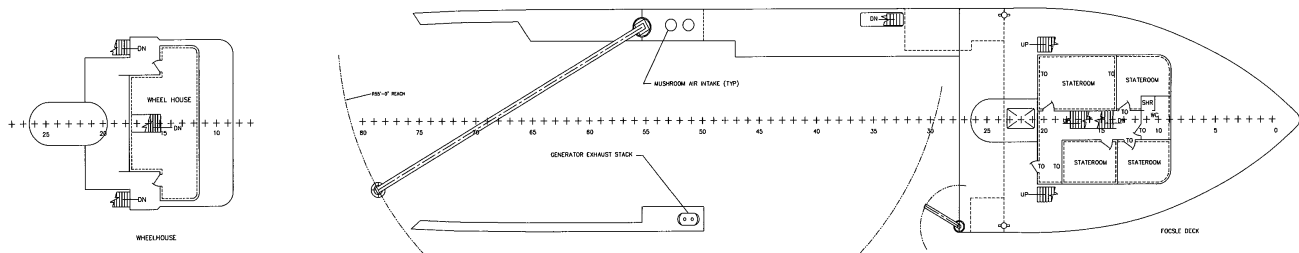
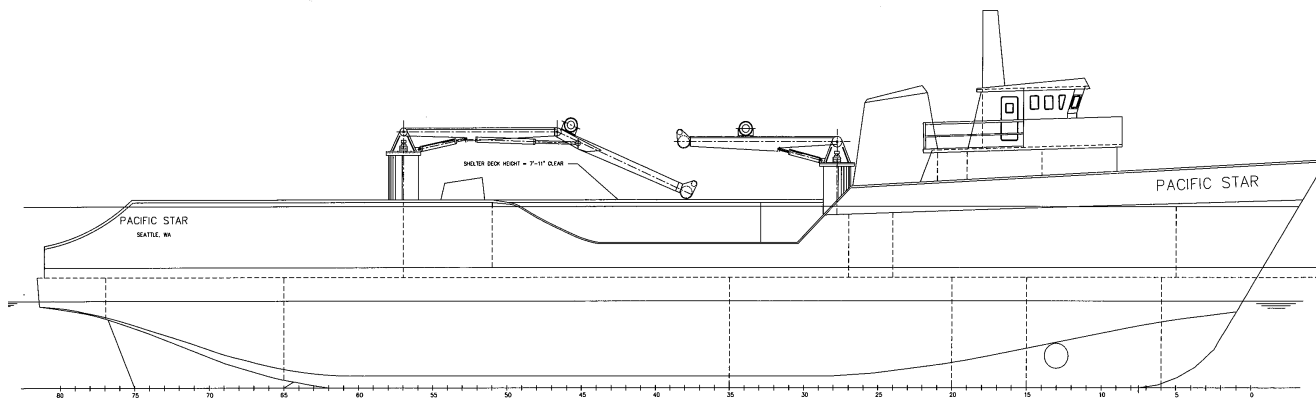


SPECIFICATIONS

Year Built	1974
Class	ABS
Length	176 ft. LOA
Breadth	38 ft.
Depth	10.2 ft.
IMO	7367005
Main engines	(2) Detroit Diesel EMD 12-567-c
Total Horsepower	3000
Reduction Gear	Haely Marine R12728 4.12:1
Generators	(1) Detroit Diesel 400 KW (2) Mitsubishi 360 KW
Bow Thruster	Bird Johnson 10/35/fp
Consumption	10 Knots / 75 GPH
Fuel Oil	90,112 USG
Lube Oil	1,836 USG
Potable water	24,399 USG
Hydraulic Oil	1,200 USG
Waste Oil	1000 USG
Gear Oil	350 USG
Certified to Carry	12 + Crew
Gross tonnage	195 GRT



SPECIFICATIONS





THE SHIP



M/V BLUEFIN

Representative Survey Vessels

BUILD	
Year:	1980/Refit 1989 and 2006
Flag:	USA
Class:	ABS Load Line SOLAS/ISM
Official Number:	620431
USCG	COI Subchapter I Oceans/ Expires 15 October 2012
DIMENSIONS	
LOA:	176'
Beam:	38'
Extreme Draft	13'
Tonnage	GRT496 ITC 1080
MACHINERY	
Main Engines:	2 x 16V-149 GMC 950 HP each
Gears:	Twin Disc 540, Ratio 6.18; 1
Propellers:	2 x 4 blade fixed pitch
Generators:	2 x CAT 3406 325 KW each
Bow Thruster:	300 HP Hydraulic
Speed:	10 KTS/12KTS MAX
Endurance	40 days

CAPACITIE	
Fuel Oil:	60,000 USG
Lube Oil:	829 USG
Fresh Water:	10,916 USG
Water Makers:	2 X 1000 gpd
ACCOMMODATIONS	
Staterooms;	11
Berths:	26
DECK EQUIPMENT	
Stern A-Frame Gantry: 30,000 lbs. (5 foot extension yields 20,000lbs.)	
18 ton Knuckle crane 55'	
Two cargo booms @ 10 tons	
18" Capstan Deep Sea Research Winch (Equivalent to Markey DESH-5)	
Tugger winches	
COMMUNICATION	
2 x Radars, GMDSS, 3 x SSB, 3 x VHF, E-Mail, Gyro, 2 x Fathometers, 2 x GPS, AIS, Autopilot, Kongsberg EA600 Sounder	

F/V North Wind Inc.
1441 N Northlake Way
Seattle WA 98103

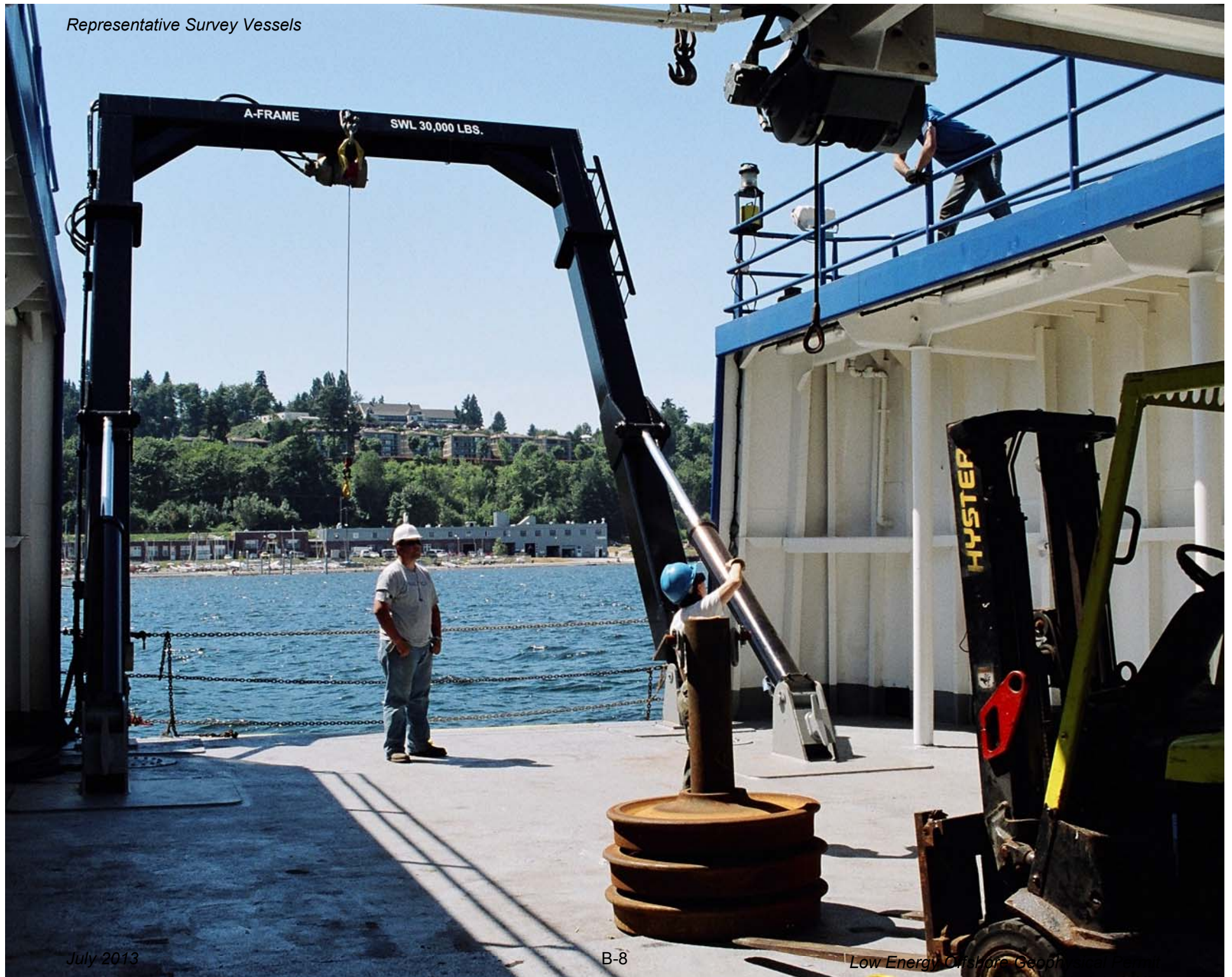
206.632.1441

nsinc7@qwestoffice.net

Low Energy Offshore Geophysical Permit
Program Update MND

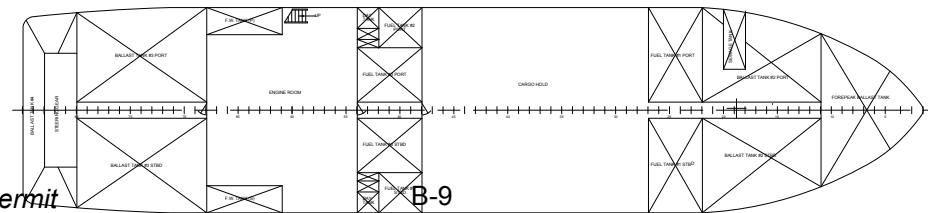
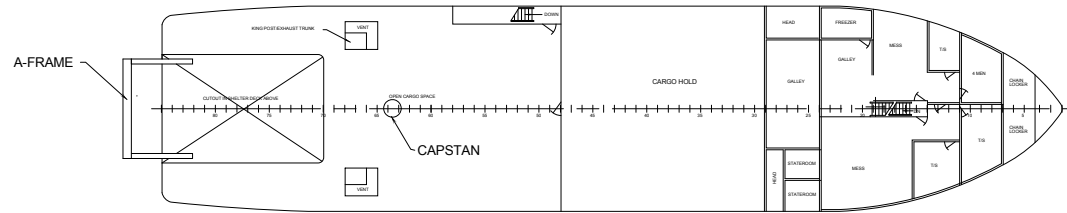
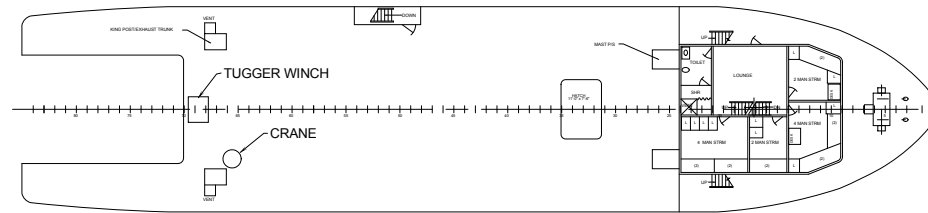
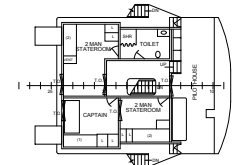
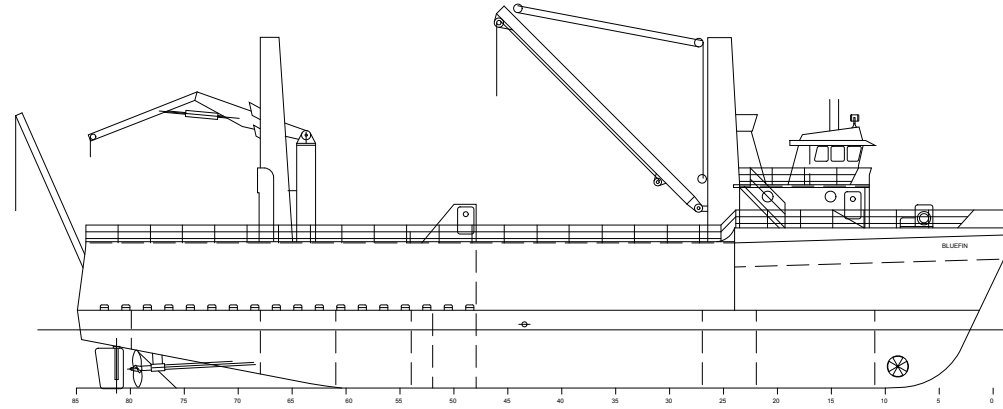
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July 2013



F/V NORTHWIND, INC.
 1441 N. NORTHLAKE WAY
 SEATTLE, WASHINGTON 98103-8920
 PHONE: (206) 632-1441
 FAX: (206) 632-8628
 EMAIL: nsinc7@qwest.net

Representative Survey Vessels







Theory Marine

Geophysical Survey Vessel "JAB"



VESSEL SPECIFICATIONS:

Length:	43 Feet
Beam:	15.5 Feet'
Draft:	2.0 Feet'
Electrical:	Two 8KW Westerbeke Marine Generators40
Bridge Equip:	Radar, Autopilot, DGPS, AIS, Satellite Weather
Fuel Capacity:	600 Gallons
Top Speed:	34 Knots
Main Engines:	2 Cummins QSC 8.3 Liter 500 HP
Generator:	8 KW Northern Lights
Crane:	Hydraulic Actuated Stern Mounted A-Frame 2000 lbs Rated Stern Mounted A-Frame with 2000 Pound Pullmaster Winch
Safety Equip:	All USCG Required Equipment, EPIRB
Galley:	Microwave, Refrigerator, Sink with Pressure Water



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