

19-20 September 2024



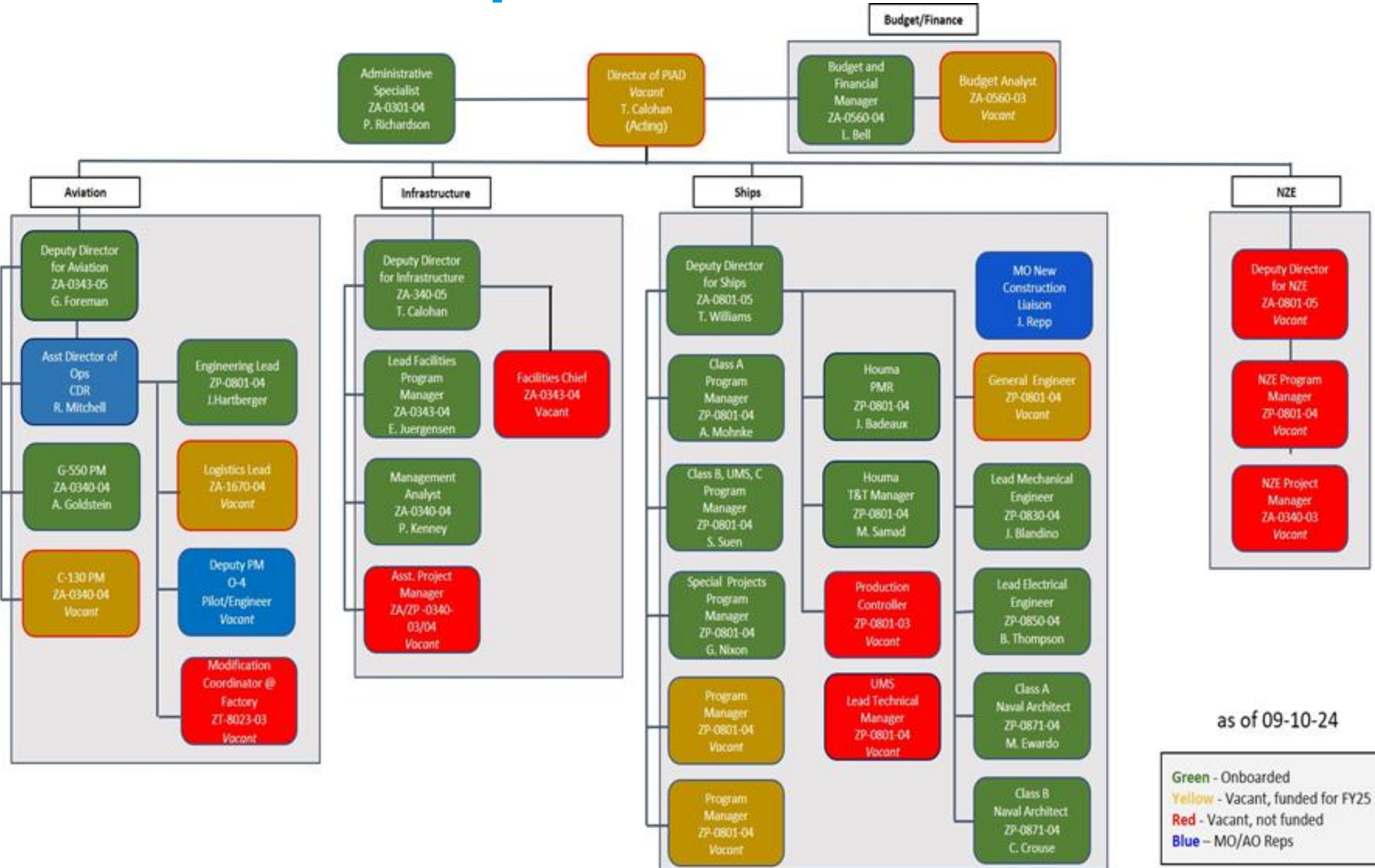
NOAA

Platform Infrastructure and Acquisition Division

Sin Suen
Program Manager



Platform Infrastructure and Acquisition Division



as of 09-10-24

Platform Infrastructure and Acquisition Division

Fleet Recapitalization – 2016 NOAA Fleet plan; updated in 2023

- Four active new construction programs
 1. Class A Oceanographic - 2 under construction
 - Awarded Thoma-Sea Marine Constructors
 2. Class B Charting and Survey - 2 award in Detail Design, 2 more options
 - Awarded Thoma-Sea Marine Constructors
 3. Uncrewed Maritime Systems (UMS) - 2 to 8 units FY25 award
 4. Class C Fisheries/Coastal Science – Pre MS1
- Class D Fisheries High Endurance (FSV Oscar Dyson Class) – entire class slated for Mid Life Repairs

Class A NOAA AGOR Variant (NAV)

Length overall - 244.50 feet
Breadth - 51.25 feet
Lightship weight - 2,062 tons
Total power - 4,176 kW
Range - 11,007 NM
Endurance - 65 days
Compliment - 44+4 people
Fuel - 150,051 gallons
Lube oil - 2,222 gallons
Potable water - 15,954 gallons
DEF - 15,874 gallons
Gray water - 28,173 gallons
Sewage - 1,368 gallons
Ballast - 150,411 gallons



Class A NOAA AGOR Variant (NAV)

- Primary Missions: Oceanographic monitoring, research, and modeling; ocean exploration
- Secondary Missions: Assessment of living marine resources (no trawl); charting and mapping
- Navy led acquisition
- Current Navy/NOAA projected delivery
 - *Oceanographer* Ship 1 – Jan 2026
 - *Discoverer* Ship 2 – June 2026 (without modifications)
- Challenge – Completing the ships without additional delays

Class A NOAA AGOR Variant (NAV)

- *Discoverer* to be modified for a new primary Mission of Deep Ocean Exploration
 - NOAAS Okeanos Exploration
- Two phase Special Study with TMC; conduct a feasibility study and then initial engineering for seven modifications
 - Pre-delivery modifications ECPs – minimize rework interior of vessel
 - Post-delivery modifications Work Packages – push mods that project significant schedule delay

Class A NOAA AGOR Variant (NAV)

Oceanographer

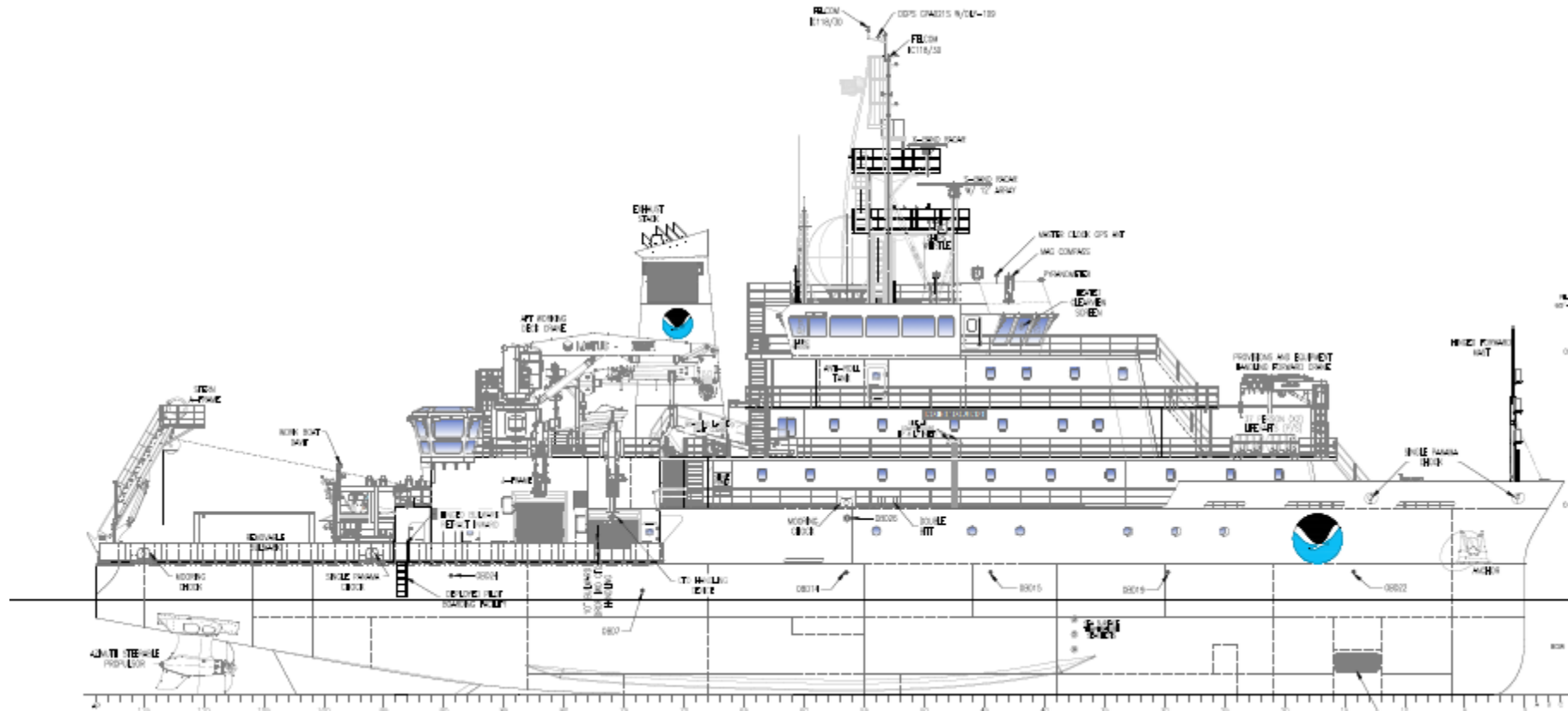
16 of 18 modules erected
2 of 18 modules ready for erection
98% Structurally erected
83% painted
83% spools installed
65% major equipment installed

Discoverer

14 of 18 modules erected
5 of 18 modules complete and ready for erection
82% Structurally erected
35% painted
74% spools installed
28% major equipment installed



Class A NOAA AGOR Variant (NAV)



OUTBOARD PROFILE STBD SIDE



Class A NOAA AGOR Variant (NAV)



Class B Charting and Survey

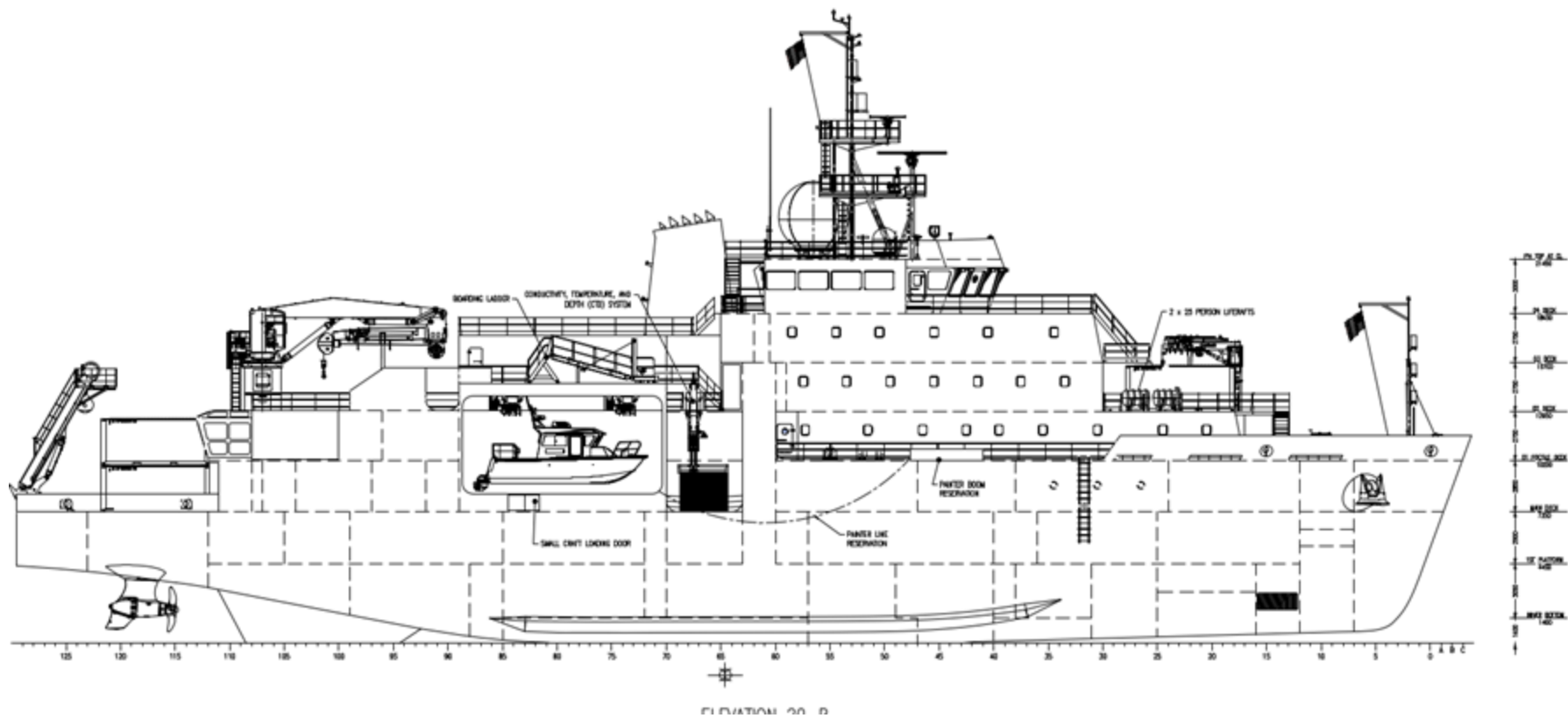
Length, BP: 267 ft
Beam, Max: 55.8 ft
Draft, Design 5.2 m
Displacement, Design:
3,500 tonnes
Sustained Speed: ~12.4
knots
Range: 9600++
Endurance: 30+ days
Compliment - 48
Single Staterooms - 30
Hangar - Stowage,
maintenance and Launch &
Retrieval of up to 4 craft
(crewed and/or uncrewed)



Class B Charting and Survey

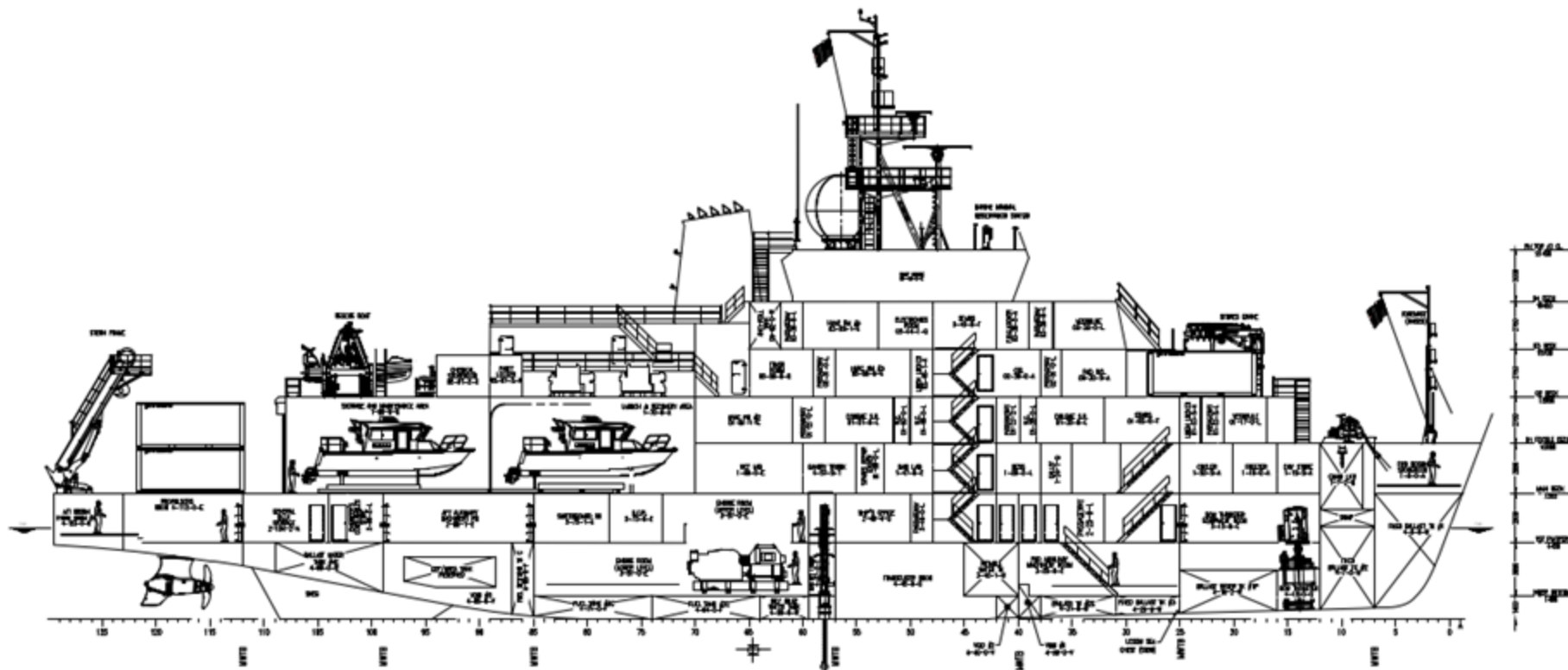
- Primary Missions: Charting and mapping
- Secondary Missions: Assessing living marine resources (no trawl); oceanographic monitoring
- NOAA led acquisition
- Current Contractor projected delivery
 - Ship 1 – April 2027
 - Ship 2 – October 2027
 - Ship 3 (option) – Exercise 54 mo after CA Dec 27
 - Ship 4 (option) – Exercise 78 mo after CA Dec 29
- NOAA Contracts (AGO) requests decision made ~12 months ahead for approving IAAs and funding transfers
- Challenge - Gondola/Blister to address Bubble Sweepdown and design considerations for seakeeping with the hangar

Class B Charting and Survey



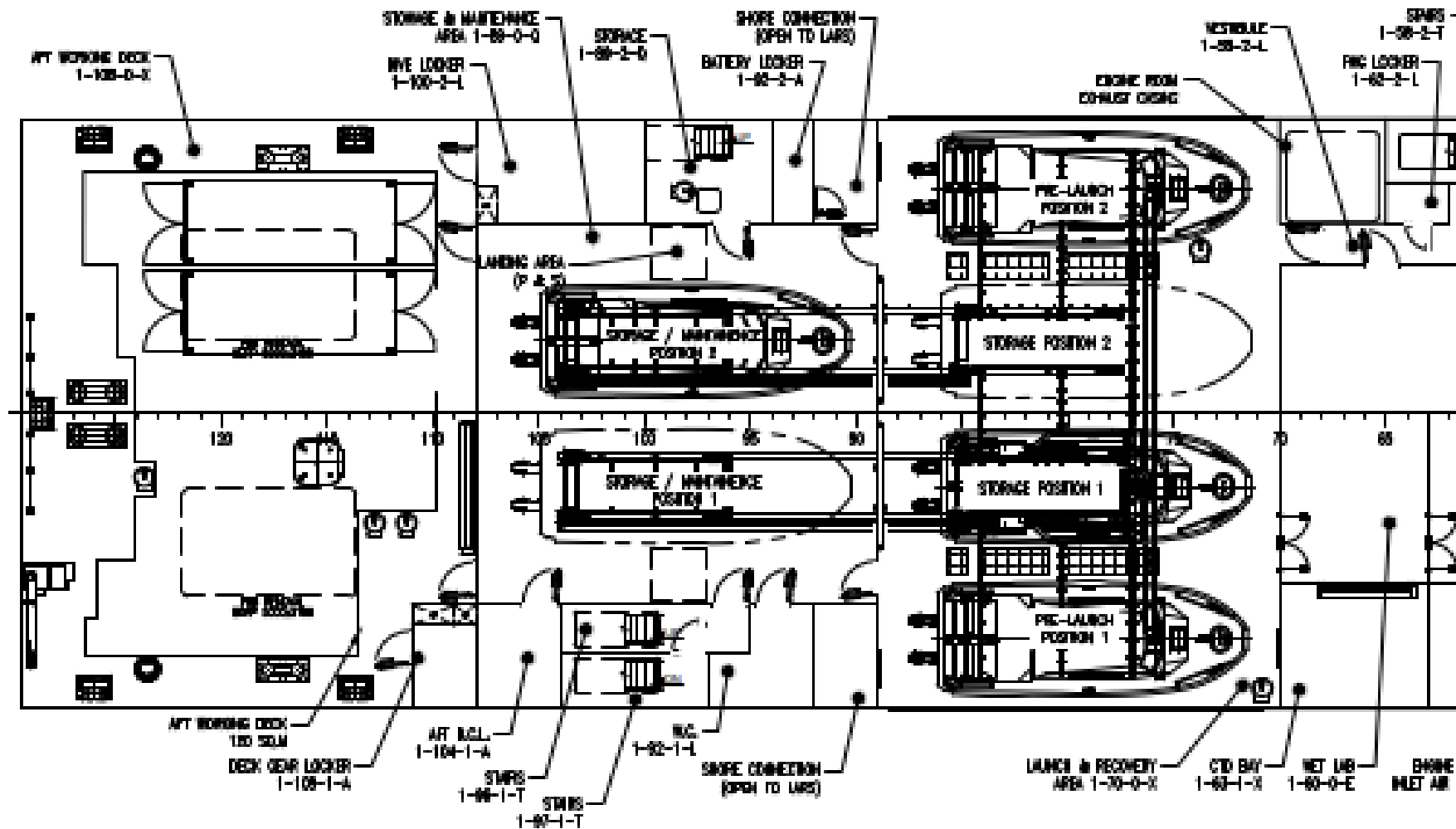
OUTBOARD PROFILE STBD SIDE

Class B Charting and Survey



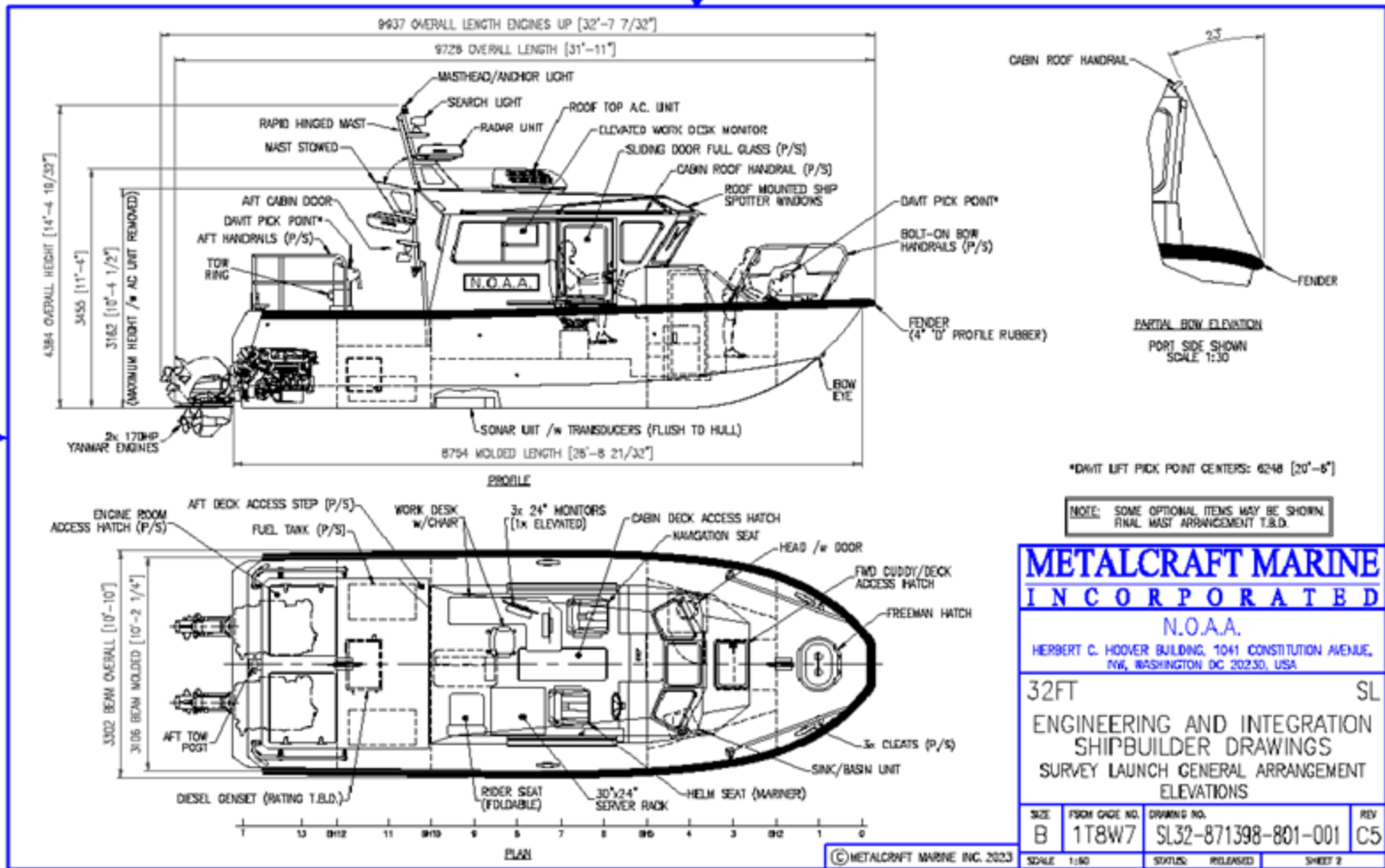
INBOARD PROFILE STBD SIDE

Class B Charting and Survey



MAIN DECK/HANGAR

Class B Charting and Survey



- One Crewed Survey Launch aka HSL with each Class B; options for six more
- NOAA maintaining communications with NAVOCEANO



Uncrewed Maritime Systems

- Launch and retrieved from the Class Bs;
- Interchangeable with the CSLs
- IDIQ Based Contract – Q1 FY25 RFP release
- Eight total Platforms/Data, Control Interface and Communications
- Five year ordering period includes multiple tasks:
 - UMS Platform and Data (NTE 2 per period)
 - Option CLINS
 - Special Equipment required for Launch and Recovery
 - Shipping and Storage Containers
 - ILS, including training
 - Control Interface and Communications (NTE 2 per period)
 - Local Movement Equipment
 - Vendor Recommended Spares
 - Provisions for Additional Government Requirements and Special Studies and Requirements

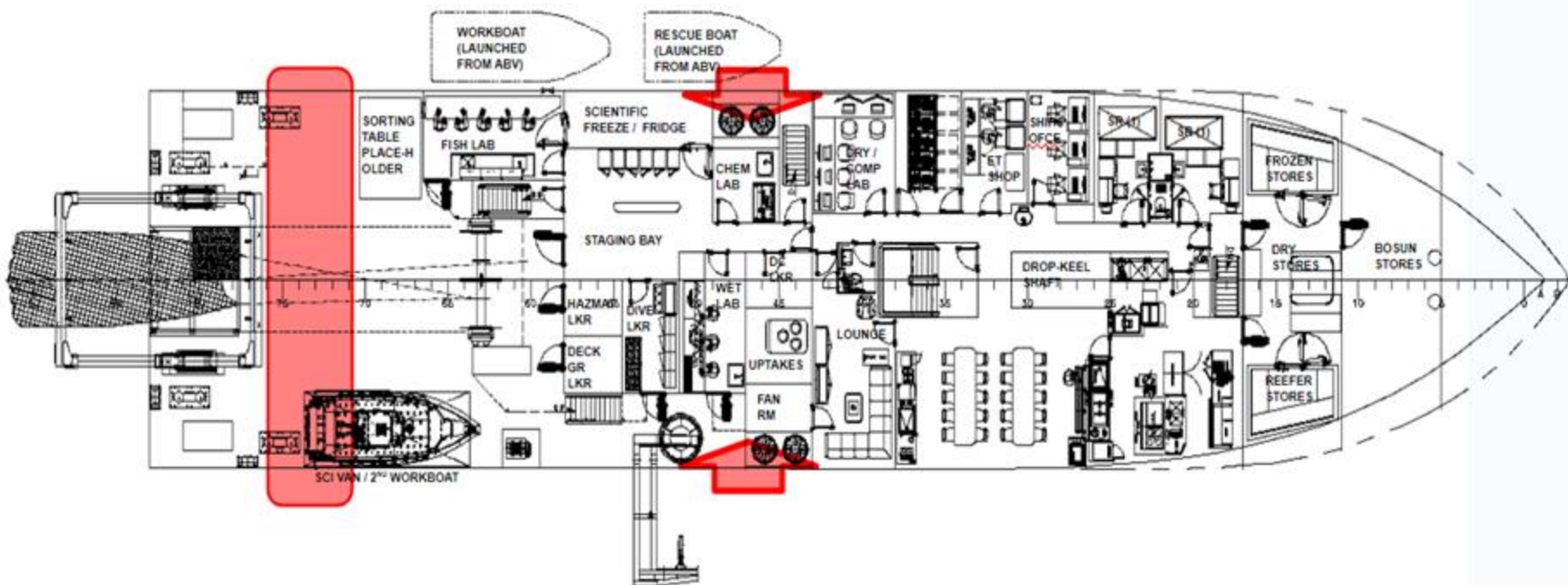
Class C Fisheries/Coastal Science

- NOAA Led Acquisition
 - Full and Open Competition
- Two Phase Acquisition
 - Phase I Preliminary/Contract Design
 - Phase II Detail Design and Construction
- Timeline pending funding in FY26-FY30
 - Award multiple Phase I contracts in FY26
 - Down select to a single winner for Phase II in FY28
- Three ships (2 base + 1 option)
 - Oregon II, Gordon Gunter, Oscar Elton Sette retiring

Class C Fisheries/Coastal Science

- Analysis of Alternatives completed in late November 2024
- OMAO decided in February 2024 on a single configuration, no variants
- Requirements Tradeoff Workshops March 2024
- Government Indicative Design 1.0 April-July 2024
- Government Indicative Design 1.5 August-October 2024
- Challenge – equal importance!
 - Reducing size/acquisition cost
 - Reducing operational cost

Class C Fisheries/Coastal Science



Ship Size Changes:

- Length: 161 ft; reduced by ~12 ft (Aft Deck by 8 ft)
- Beam: 26 ft; reduced by 4 ft
- Draft: 15 feet (estimated)
- Displacement: -150 tonnes

Other Arrangement Changes:

- Reduce number of scientists from 14 to 12
- Reduce number of Single SRs from 15 to 11
- Combine Mess / Lounge
- Reduce size/rearrange the Staging Bay/Ready Room area



How else can NOAA support the UNOLS community?