



**CHATHAM AREA TRANSIT AUTHORITY
INVITATION FOR BIDS**

PROJECT NO. 2024-06

CAT HYBRID FERRY VESSEL

February 6, 2024

PUBLIC NOTICE
CHATHAM AREA TRANSIT AUTHORITY

Invitation for Bids No. 2024-06
CAT HYBRID FERRY VESSEL

Notice is hereby given that the CHATHAM AREA TRANSIT AUTHORITY (CAT) is seeking responses for the following:

- Description:** Chatham Area Transit Authority (CAT) is soliciting responses from qualified vendors to manufacture of hybrid ferry vessels
- Proposals:** Proposal Packages are available at 900 E. Gwinnett Street, Savannah, Georgia, 31401, online at <https://www.catchacat.org/about-cat/doing-business/procurement/procurement-opportunities/>, or by email at victor.colon@catchacat.org.
- Questions:** All questions must be submitted in writing by: **Friday, March 08, 2024** to Victor Colon, Procurement Manager, Chatham Area Transit Authority, 900 East Gwinnett Street, Savannah, GA 31401, or by email at victor.colon@catchacat.org
- Submittal Deadline:** **Friday, April 05, 2024 at 2 p.m. EST**, CAT Central, 900 E. Gwinnett Street, Savannah, Georgia, 31401

Disadvantaged Business Enterprise (DBE) Requirements:

CAT, in accordance with 49 Code of Federal Regulations (CFR) Part 26, has an obligation to ensure nondiscrimination of DBE's in all aspects of competition, award and administration of federally funded contracts. Notice to all proposers is hereby provided, that in accordance with State and Federal laws, CAT will ensure that disadvantaged business enterprises are afforded full opportunity to submit offers and responses to this solicitation, and to participate in any contract consummated pursuant to this advertisement. Compliance with Federal and State laws on Equal Opportunity will also be asserted in consideration for the award of this contract. No proposer will be discriminated against because of age, sex, race, color, religion, national origin, or handicapping conditions.

CAT reserves the right to accept or reject any and all responses submitted. CAT also reserves the right to award a contract based on the submissions alone.

2023-04 Schedule of Events

<u>EVENT</u>	<u>DATE</u>
IFB Issued and Advertised	February 6, 2024
Vendor Inquiry Deadline	March 8, 2024
IFB Submission Deadline	April 5, 2024, 2:00 p.m. EST
Evaluation Committee's Recommendation To Board of Directors	April 23, 2024
Notification of Award to Proposer	April 24, 2024

Chatham Area Transit Authority
IFB 2023-04 CAT HYBRID FERRY VESSEL

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**CHATHAM AREA TRANSIT AUTHORITY
INVITATION FOR BIDS**

1.1 INTRODUCTION

Chatham Area Transit Authority (CAT) is soliciting bids from qualified professionals to provide Manufacture of Hybrid Ferry Vessels. Award of any contract will be made to the firm whose bid is most advantageous to CAT. CAT reserves the right to reject any or all bids or any parts thereof, when necessary for the protection of the interest of CAT. All proposers are notified that Disadvantaged Business Enterprises (DBE's) are encouraged to submit responses to this request. The vendor will be required to comply with all applicable Equal Employment Opportunity laws and regulations.

1.2 RESPONSE SUBMISSION

CAT will receive responses until **2 pm EST, Friday, April 05, 2024**. Any response delivered to CAT after the time specified will not be considered.

One (1) unbound original, three (3) copies, and an electronic copy of the response must be mailed or hand delivered to:

Victor Colon, Procurement Manager
Chatham Area Transit Authority
900 E. Gwinnett St.
Savannah, GA 31401
(912) 651-0453

If there are inconsistencies in the copies provided, the controlling document will be the original response submitted by proposer.

1.3 RESPONSE FORM REQUIREMENTS

All responses must state the full and correct name, address, and capacity of the proposer. If the proposer is an individual doing business under another name, the response shall so state. Partnerships, joint ventures, and corporations shall sign as is appropriate for their type of business. Any erasures, corrections, or other changes appearing on the response forms must be initialed by the persons signing the response.

Except as otherwise provided herein, CAT cannot accept any material marked confidential, trade secret or proprietary. Proposer understands that any material pertaining to this procurement is likely subject to disclosure through the Georgia Open Records Act, O.C.G.A. § 50-18-70.

1.4 INQUIRIES

Should a proposer have questions, please contact in writing:

Victor Colon, Procurement Manager
Chatham Area Transit Authority
900 E. Gwinnett St.

Savannah, GA 31401
(912) 651-0453
victor.colon@catchacat.org

Questions should be submitted to CAT by **Friday, March 08, 2024**. Communication via email will be considered a written inquiry. ANY VERBAL COMMUNICATION WILL NOT BE CONSIDERED BY CAT AS AN INQUIRY. All received inquiries will be responded to in writing after the question submission deadline and will be presented as an addendum to the solicitation and distributed to respondents.

1.5 ETHICS AND LOBBYING STATEMENT

CAT maintains a written code of ethics that governs the conduct of its employees and subcontractors. Any debarment and suspension pertaining to the proposer must be disclosed by attaching a copy of each to the response. Additionally, the successful proposer must complete the appropriate certifications relating to lobbying activities.

1.6 INDEMNIFICATION

(1) Contractor shall indemnify, defend, and hold harmless CAT and its officers, directors, and employees from and against all allegations, claims, actions, suits, demands, damages, liabilities, obligations, losses, settlements, judgments, costs and expenses (including without limitation attorneys' fees and costs) which arise out of, relate to, or result from any act or omission of Contractor.

(2) Contractor acknowledges that it is prohibited under the Laws of Georgia for a governmental entity to indemnify Contractor for any loss arising out of the provisions of this Contract. Accordingly, CAT does not make any indemnification to Contractor whatsoever under this Contract.

1.7 INTEREST OF MEMBERS OF, OR DELEGATES TO, CONGRESS

In accordance with 18 U.S.C. Subsection 431, no member of, or delegates to, the Congress of the United States shall be permitted to a share or part of this contract or to any benefit arising there from.

1.8 ETHICS

It is CAT's policy that all contractors shall be expected to have complied, and in the future to comply, with all ethics laws of the State of Georgia and to be free of conflicts of interest (as described in the following section) if awarded a CAT contract. Each proposer shall be deemed have acknowledged said policy. Any indication that a proposer has violated or given the appearance of violating an ethics law or is not free of actual or potential conflicts of interest will cause rejection of that bid. Any indication that, once awarded a contract, a contractor has violated or has given the appearance of violating an ethics law or is not free of actual or potential conflicts of interest may, in the sole discretion of CAT, constitutes grounds for termination of the contract.

1.9 CONFLICT OF INTEREST

No Board Member, employee, officer or agent, or employee of such agent of CAT shall participate in the selection, the award of, or the administration of a contract if a conflict of interest, real or apparent, would be involved. Such a conflict would arise when:

- a. A Board Member, employee, officer or agent, or employee of such agent;
- b. Any immediate family member of those listed in (a) above;
- c. A partner; or an organization which employs, or is about to employ any of the above, has a direct or indirect, present or future financial or other interest in the firm selected for award.

CAT Board Members, officer, employees or agents shall neither solicit nor accept gratuities, favors or anything of monetary value from contractors, potential subcontractors or parties of sub-agreements.

1.10 PRIVACY ACT REQUIREMENTS

The following requirements apply to the Contractor and its employees that administer any system of records on behalf of the Federal Government under any contract:

- a. The Contractor agrees to comply with, and assures the compliance of its employees with, the information restrictions and other applicable requirements of the Privacy Act of 1974, 5 U.S.C. § 552a. Among other things, the Contractor agrees to obtain the express consent of the Federal Government before the Contractor or its employees operate a system of records on behalf of the Federal Government. The Contractor understand that the requirements of the Privacy Act, including the civil and criminal penalties for violation of that Act, apply to those individuals involved, and that failure to comply with the terms of the Privacy Act may result in termination of the underlying contract.
- b. The Contractor also agrees to include these requirements in each subcontract to administer any system of records on behalf of the Federal Government financed in whole or in part with Federal assistance provided by FTA.

1.11 EXCLUSIONARY OR DISCRIMINATORY SPECIFICATIONS

Apart from inconsistent requirements imposed by federal statute or regulations, CAT will comply with the requirements of 49 U.S.C. § 5323(h) (2) by refraining from using any Federal assistance awarded by FTA to support procurements using exclusionary or discriminatory specifications.

1.12 GEOGRAPHIC RESTRICTIONS

Except as expressly mandated, encouraged, or permitted by FTA or Federal Statute, CAT will refrain from using state or local geographic preferences.

1.13 CONTRACTOR ASSURANCE

The contractor, sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of DOT-assisted

contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to: (1) Withholding monthly progress payments; (2) Assessing sanctions; (3) Liquidated damages; and/or (4) Disqualifying the contractor from future bidding as non-responsible

1.14 CONFIDENTIALITY

Contractor agrees that any and all information, in oral or written form, whether obtained from CAT, its agents or assigns, or other sources, or generated by Contractor pursuant to this contract shall not be used for any purpose other than fulfilling the requirements of this contract.

Contractor further agrees to keep in absolute confidence all data relative to the business of CAT, its agents or assigns. No news release, including but not limited to photographs and film, public announcement, denial or confirmation of any part of the subject matter of any phase of any program hereunder shall be made by Contractor without written approval of CAT.

1.15 GOVERNMENT WIDE DEBARMENT AND SUSPENSION

This contract is a covered transaction for purposes of 49 CFR Part 29. As such, the contractor is required to verify that none of the contractors, its principals, as defined at 49 CFR 29.995, or affiliates, as defined at 49 CFR 29.905, are excluded or disqualified as defined at 49 CFR 29.940 and 29.945. If this contract is less than \$25,000 this clause does not apply.

The contractor is required to comply with 49 CFR 29, Subpart C and must include the requirement to comply with 49 CFR 29, Subpart C in any lower tier covered transaction it enters into. By signing and submitting its bid or response, the bidder or proposer certifies as follows:

The certification clause contained in Attachment B is a material representation of fact relied upon by Chatham Area Transit Authority. If it is later determined that the bidder or proposer knowingly rendered an erroneous certification, in addition to remedies available to Chatham Area Transit Authority, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment. The bidder or proposer agrees to comply with the requirements of 49 CFR 29, Subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

1.16 SUBCONTRACTS

The contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as the FTA may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with all the clauses contained in 29 CFR 5.5.

1.17 CONTRACT TERMINATION: DEBARMENT

A breach of the contract clauses in 29 CFR Section 5.5 may be grounds for termination on contract, and for Debarment as a contractor and a subcontractor as provided in 29 CFR Section 5.12.

1.18 STATE AND LOCAL LAW DISCLAIMER

The use of many of the Clauses herein are not governed by federal law, many of the clauses contained herein contain FTA suggested language in certain instances these clauses may be affected by State Law.

- a. If contractor is to physically perform services on CAT's premises, contractor will be required to affirmatively represent it's use of the federal work authorization program commonly known as E-Verify as required by O.C.G.A. §13-10-91(b)(1).

1.19 SUBMITTAL OF PROTESTS

Protests concerning these instructions, contract requirements, or the RFP procedures must be submitted in writing to the Procurement Manager not less than five (5) days before the scheduled receipt of responses. The protest must:

- 1) The name and address of the protestor.
 - 2) The name and number of the procurement solicitation.
 - 3) A detailed statement of the grounds for the protest, including all relevant facts and a citation to the Federal or State law, the provision of CAT procurement procedures, or specific term of the solicitation alleged to have been violated.
 - 4) Any relevant supporting documentation the protesting party desires CAT to consider in making its decision.
 - 5) The desired relief, action, or ruling sought by the protestor.
- b. Post-Award Protests
- Protests concerning the award of this response must be submitted in writing to the Procurement Manager within no later than 72 hours after the protestor's receipt of CAT's written notice of its decision or intended decision to award a contract. CAT will have ten (10) working days after receipt of the formal protest package to evaluate, and issue a response, except in cases where the original response has been awarded by the Board of Directors. In such cases, the resolution of protest will be handled at the next regularly scheduled Board meeting, following completion of the staff review of the protest. The protest must:

- 1) The name and address of the protestor.
- 2) The name and number of the procurement solicitation.
- 3) A detailed statement of the grounds for the protest, including all relevant facts and a citation to the Federal or State law, the provision of CAT procurement procedures, or specific term of the solicitation alleged to have been violated.
- 4) Any relevant supporting documentation the protesting party desires CAT to consider in making its decision.
- 5) The desired relief, action, or ruling sought by the protestor.

1.20 RESPONSE OFFER

Each response must be in CAT's possession by the deadline for submission noted above. It is the proposer's responsibility to ensure timely receipt by CAT of the response. The submitted response shall irrevocable offer for ninety (90) days from the solicitation due date.

1.21 RESPONSE AWARD

CAT reserves the right to reject any and all responses, and part or parts of a response, waive any -technicalities, and award any or the entire contract in a manner that is in the best interest of CAT. Contracts will be awarded to the highest ranked proposer when it is in the best interest of CAT.

1.22 RESPONSE WITHDRAWAL

Responses may be withdrawn by submitting a written request to CAT before the time fixed for response opening. Withdrawal of an offer will not prejudice the right of the proposer to submit a new response, provided that the latter is timely received as provided above.

1.23 SINGLE RESPONSE SITUATIONS

In the event a single response is received, CAT will conduct a price analysis or a cost analysis of the response. The sole proposer must cooperate with CAT if a price or cost analysis is conducted.

1.24 CERTIFICATIONS & DBE POLICY STATEMENT

CAT reserves the right to accept or reject any and all responses submitted. CAT also reserves the right to award a contract based on the submissions alone. The proposer, by signing the response forms, certifies that the response is offered by a business that is fully licensed to do the work relating to the specifications herein.

CAT, in accordance with 49 Code of Federal Regulations (CFR) Part 26, has an obligation to ensure nondiscrimination of DBE's in all aspects of competition, award and administration of federally funded contracts. Notice to all proposers is hereby provided, that in accordance with State and Federal laws, CAT will ensure that disadvantaged business enterprises are afforded full opportunity to submit offers and responses to this solicitation, and to participate in any contract consummated pursuant to this advertisement. Compliance with Federal and State laws on Equal Opportunity will also be asserted in consideration for the award of this contract. No proposer will be discriminated against because of age, sex, race, color, religion, national origin, or handicapping conditions.

CAT encourages the utilization of minority owned financial institutions, a list is provided below:

- Carver State Bank (Savannah);
- Citizens Trust Bank (Atlanta);
- Metro City Bank (Doraville);
- Quantum National Bank (Suwanee).

1.25 TAXES

CAT is exempt from payment of federal excise and transportation tax and Georgia Sales and Use taxes. These taxes are not to be included in the response price. Tax exemption information, upon request, will be provided to the successful proposer upon award of the contract.

1.26 CONTRACT TERMINATION

CAT may terminate this solicitation and any corresponding contract, in whole or in part, at any time by written notice to the Contractor when it is in CAT's best interest.

1.27 ASSIGNMENTS

The proposer shall not assign this contract, wholly or in part, without the prior written consent of CAT. No assignment shall relieve the contractor of any obligations under the contract.

1.28 ADDENDA

Any changes in these instructions or other requirements will be accomplished by a written addendum sent to all prospective proposers. All such addenda shall become a part of the contract. Failure to acknowledge receipt of all addenda may cause the response to be considered non-responsive, and therefore rejected.

1.29 PROHIBITED INTERESTS

No member, officer, or employee of CAT and/or member of, delegate to, the Congress of the United States shall, during his/her tenure, or for one year thereafter, have either a direct or an indirect interest in this contract or the proceeds thereof.

1.30 AUDIT & INSPECTION

The proposer agrees to allow CAT, the Comptroller General of the United States, or any of their duly authorized representatives, for the purpose of audit and examination:

- 1.31.1 Inspect all work, materials, payrolls, and other data/records associated with the project; and
- 1.31.2 Audit the books, records, and accounts associated with the project.
- 1.31.3 In addition, the contractor must also agree to maintain all required records for a minimum of three (3) years after CAT makes final payments and all other pending matters are closed.

1.31 NOTICE TO PROCEED

The successful proposer shall not commence work under this Invitation for Bids until a written contract is awarded, proof of insurance has been received, and a Notice to Proceed is issued. If the successful proposer does commence any work or deliver items prior to receiving official notification, the proposer does so at its own risk.

1.32 SCOPE OF SERVICES

The proposer shall provide a solution to the scope of the request described in detail in Attachment A – Scope of Services.

In the case of goods, equipment, or services identified by a “brand name or equal” description, no preference will be given to responses offering to furnish the name brands over those offering accepted equal value and quality, and vice versa. Wherever in the specifications the name of a certain brand, make, manufacturer, or definite specification is utilized, these specifications are used only to denote the quality standard of product, style type, and character of product desired and do not restrict proposers to the specific brand, make, manufacturer or specification named. Equivalent products, which have been designated "approved equals" by CAT or its agents, shall be acceptable. Proposer must submit to CAT a written request for approval of all equivalent products by the inquiry deadline.

1.33 EVALUATION OF RESPONSES

Responses received that are determined to be responsive and responsible will be evaluated by members of a CAT Evaluation Committee in accordance with the criteria set forth below. The criteria are weighted by their relative degree of importance.

Evaluation Criteria:

For any DBE subcontractor use, please provide a summary of the percentage of use that you are committing to the DBE contractor in your price proposal

1.34 FEDERAL REGULATORY REQUIREMENTS

Federal Regulatory Requirements applicable to this request are listed in Attachment G. Proposer must sign the individual clauses that require separate signatures as well as sign the certification at the beginning of Attachment G. Proposer must return these signed federal clauses with its response.

1.35 ADDITIONAL RESPONSE REQUIREMENTS

Any response delivered to CAT that does not contain the following documents and/or information will be considered an unresponsive submission.

- 1.35.1 Most recent three (3) years comprehensive financial statements, audited version if your business structure requires such. These documents may be marked as “Trade Secret – Confidential Financial Data”, but must be accompanied by an attached affidavit affirmatively declaring that the specific information in the records constitute trade secrets pursuant to Article 2 of Chapter 1 of Title 10, Official Code of Georgia.
- 1.35.2 Statement regarding the staffing availability of your business to handle the scope of services in this solicitation.
- 1.35.3 Evidence of current Commercial General/Professional Liability insurance providing insurance for bodily injury, property damage, personal injury and advertising injury, with limits of not less than \$1,000,000.
- 1.35.4 Complete, sign, and return the pertinent portions of Attachments B – G.

Attachment A
SCOPE OF SERVICES

SEE PAGES 21 – 67

**ADDITIONAL TO THE SCOPE OF SERVICES WE ARE REQUESTING TO ADD
SCREENS INSIDE THE PASSENGER AREA OF THE VESSEL, THAT WE CAN
PROGRAM AND PROVIDE INFORMATION TO OUR CUSTOMERS.**

DBE, Non-Debarment, and EPA Certification

The firm submitting this response _____ IS or _____ IS NOT a Disadvantaged Business Enterprise.

The firm submitting this response _____ DOES or _____ DOES NOT use Disadvantaged Business Enterprise subcontractors.

For any DBE subcontractor use, please provide a summary of the percentage of use that you are committing to the DBE subcontractor in your price proposal.

All offerors must certify that they are not on the Comptroller General’s list or any DOT List of Ineligible Proposers, List of Persons or Firms Currently Debarred for Violations of Various Contracts Incorporating Labor Standards Provisions, or that the facilities to be utilized in the performance of this project have not been listed on the Environmental Protection Agency’s List of Violating Facilities. By signing the Certification Form, this certification is completed.

The signature below attests that the offeror’s response is made with full understanding and acceptance of the provisions contained in this response.

Signature

Witness Signature

Print or Type:

Name & Title of Signing Officer

Company

Mailing Address

Date

City, State, Zip

Telephone

E-Mail Address

**Attachment C
References**

CAT may contact references in an effort to obtain more information about the proposer. The references listed should be companies and individuals with whom the proposer has supplied equipment and/or performed services similar to those specified herein.

1. Company Name: _____

 Contact Name: _____

 Phone Number: _____

 Description of Work: _____

2. Company Name: _____

 Contact Name: _____

 Phone Number: _____

 Description of Work: _____

3. Company Name: _____

 Contact Name: _____

 Phone Number: _____

 Description of Work: _____

Attachment D
Addendum Acknowledgment

The undersigned acknowledges receipt of the following addenda to the response documents.

NO ADDENDA WERE RECEIVED _____

(Give number and date of each):

Addendum No. 1 Dated _____

Addendum No. 2 Dated _____

Addendum No. 3 Dated _____

Addendum No. 4 Dated _____

Addendum No. 5 Dated _____

Failure to acknowledge receipt of all addenda may cause the response to be considered non-responsive.

Signature

Title

Attachment E
OFFEROR’S CHECKLIST
 (To verify that all necessary documents are included)

This form **must be completed** and returned with the response. Failure to return the completed form may be cause for considering your response non-responsive.

Responses must be clearly marked with the response number and title, date and time of response opening, and company name. Below is a list of all materials and responses required for this response.

	<u>Proposer</u> <u>Check off</u>	<u>CAT</u> <u>Check off</u>
Proposer Contact Information	_____	_____
Financial Statement/Tax Return	_____	_____
Evidence of Gen. Liability Insurance	_____	_____
Attachment B – DBE Certification Form	_____	_____
Attachment C – Proposer’s References	_____	_____
Attachment D – Addendum Acknowledgment	_____	_____
Attachment E – Offeror’s Checklist	_____	_____
Attachment F – Proposer Information Form	_____	_____
Attachment G – Federal Clause Certification	_____	_____
Buy America Certification	_____	_____
Lobbying Certification	_____	_____

Signature

Title

Attachment F
PROPOSER INFORMATION FORM

All offerors are required to submit this information as a condition of submitting an offer to CAT. Offerors must insure that ALL sub-contractors at all tiers, which are proposed to be used under any agreement issued by CAT, have also submitted an executed copy of this form. CAT is required to maintain this information by the Federal Transit Administration and it is not subject to waiver.

Firm Name _____

Firm Address _____

Telephone Number _____

Fax Number _____

DUNS Number _____

E-Mail Address _____

Firm's status as Disadvantaged Business Enterprise
(DBE) or Non- DBE _____

Year Firm Founded _____

Annual gross receipts of the firm:
___ < \$500K; ___ \$500K - \$1 million; ___ \$1-2 million; ___ \$2-5 million; ___ > \$5 million

Prime or Sub-Contractor _____

NAICS code(s) _____

I certify to the best of my knowledge that the above information is true and correct:

Signature: _____

Name/Title: _____

Date: _____

CAT Project No.: _____

**FAILURE TO PROVIDE A COMPLETED COPY OF THIS FORM AS STIPULATED
HEREIN MAY PRECLUDE YOUR OFFER FROM CONSIDERATION FOR AWARD.**

**Attachment G
Federal Regulatory Requirements**

**CONTRACTOR MUST REVIEW THESE REQUIREMENTS, SIGN THE
CERTIFICATION & APPLICABLE FEDERAL REGULATIONS, AND SUBMIT THIS
SECTION AS PART OF THE RESPONSE.**

FEDERAL CLAUSE CERTIFICATION

I have read and understand the federal clauses that are applicable to this solicitation and I am duly authorized to execute this Certification on behalf of the entity submitting this response.

Proposer Name

By Its: _____
Title

Sign Name

Printed Name

Date

State of _____
County of _____

Signed and sworn to before me on _____, 20____
by _____ the _____ of Contractor and
duly authorized to execute this instrument on Contractor's behalf.

Notary Public

My Commission Expires

Outline Specifications
65'x21'-4" Passenger Vessel

- | | |
|----------------------------------|---|
| 1. Principal Dimension | 17. Hatches & Manholes |
| 2. Capacity | 18. Pilothouse Finishes |
| 3. Tankage | 19. Paint |
| 4. Certification | 20. Railings |
| 5. Gross Tonnage | 21. Windows |
| 6. Propulsion System | 22. Doors |
| 7. Generators | 23. Thermal Insulation |
| 8. Steering | 24. Engine Room Sound Insulation |
| 9. Hybrid System | 25. Machinery Space Ventilation |
| 10. Pumps & Piping | 26. Pilothouse Electronics & Navigation |
| 11. Structure | 27. General Electrical |
| 12. Anchor | 28. Lighting |
| 13. Fire Suppression | 29. HVAC |
| 14. Fire & Safety Equipment | 30. Miscellaneous |
| 15. Primary Lifesaving Equipment | 31. Engineering |
| 16. Public Space Interior | 32. Lofting and NC Data |

1. Principal Dimensions:

- Length Overall: 67'-10"
- Length (Waterline): 63'-10"
- Beam (molded): 21'-4"
- Beam (over guards): 23'-1"
- Depth at side Lowpoint of Sheer (to Keel): 5'-6½"
- Depth at side Lowpoint of Sheer (inside hull): 5'-6"
- Draft Amidships: 3'-0"
- Speed (maximum): 11 knots

2. Passenger Capacity: 150
Crew Capacity: 2

3. Tankage:

- Fuel 800 gallons
- Potable Water None
- Sewage None
- Lube Oil None
- Dirty Oil None
- Fuel tanks to have USCG acceptable sight glass per USCG requirements.

4. Certification: U.S. Coast Guard, Subchapter T, Partially Protected Waters & ASTM F3353-19 Shipboard Lithium-Ion Batteries

5. Gross Tonnage: Less than 100 GRT

6. Propulsion System:

- Waterjet (2): Single stage, 12" impeller., weight not to exceed 415 Lbs (Dry), maximum input power 450 BHP, maximum drive speed 3,000 RPM w/controls, hydraulic pump, and PTO.
- Propulsion Electric Motor: Permanent Magnet Traction Motor, IP67, 500 to 750V, 3-Ph, Peak Power 300 kW, Peak Torque 3,700 Nm (2729 ft/lbs) Continuous Power 205 kW, Continuous Torque 2,000 Nm (1475 ft/lbs)

7. Generators:

- Engine (2): 6.7L Marine Diesel, 305MHP @2600RPM, rated for Hybrid Service by Engine Manufacturer.
- Generator (2): Permanent Magnet Traction Motor, IP67, 500 to 750V, 3-Ph, Peak Power 300 kW, Peak Torque 3,700 Nm (2729 ft/lbs) Continuous Power 205 kW, Continuous Torque 2,000 Nm (1475 ft/lbs) Tier 3 EPA Compliant

- Keel Cooled
 - Dry exhaust mufflers, Marine rated
 - 12 V DC Start
 - Switchboard manufactured to USCG Specifications
 - Non-paralleling operation
 - Shore Power: 100 amps, 240 V, 1-phase, plug and receptacle
8. Hybrid System, to meet USCG Regulations & ASTM F3353-19
 Consisting of:
 Battery Packs (4): 98kWh each, Lithium-Ion, with BMS, Horizontal Mounted, not rack mount.
 Modular Power Control System Integration Units (1) Port Side (1) Stbd. Side
 Modular Accessories Power System Units (1) Port Side (1) Stbd. Side
 Charger: 11kA
 700V Propulsion Cables
 Battery Cabinets
 Chiller Units (2): MTDX36 36,000 BTU/hr for electronic propulsion system
9. Steering:
- WaterJet Hydro-Electronic Controls
 - Integrated Wheel, follow Up, w/ multiple potentiometers
 - Independent thruster position indicator
10. Pumps & Piping:
- Fire Pump, (5HP, 50 GPM @ 70 PSI, Self Priming)
 - Bilge Pump (6): 3700GPH with Float Switches (2 each per pump)
 - Chilled Water Circ. Pump (2): 1/3HP centrifugal, 29GPM @ 20ft head
 - Condenser Circ Pump (2): 1/3HP centrifugal, 29GPM @ 20ft head
 - Exhaust Cooling Mixer (2): 1/3HP centrifugal, 6GPM
 - USCG approved CPVC piping systems where acceptable by USCG, DWV fittings for gravity drains. Stainless steel drain piping where CPVC not practical.
 - Aluminum piping at deck penetrations for CPVC piping.
 - All piping systems and materials to meet USCG requirements.
11. Structure:
- Welded 5086/6061 Aluminum hull structure per Aluminum Construction Manual for Allowable Stresses.
 - 1'-6" Transverse Frame Spacing, 3'-0" Tonnage Frame Spacing
 - 16" Longitudinal Panel Stiffener Spacing
 - 15" Bulkhead Stiffener Spacing
 - 1/4" Bottom Plate
 - 1/4" W.T. Bulkheads

- Main Deck Aluminum Deck Extrusion
- 1/4" Side Shell Plate and Tank Bulkheads
- 2nd deck canopy 3/16" Plate w/ double L3x3x1/4" truss
- 3/16" Main Deckhouse Sides
- 3/16" Pilothouse
- 3/16" Main Deck Fwd. Bulwark
- D-Type Solid Fenders sides and fwd, D-Type Hollow Fenders at corners
- 1/2"x4" plate keel
- Engine girders I-beam (AA) 10x10.28
- Grind weld butts and seams on deckhouse and hull above waterline

12. Anchor:

- (1) 100# Danforth –Style Workboat Anchor.
- 15 ft. of 1/2" galvanized anchor chain with 200' 3/4" Nylon Anchor Line.

13. Fire Detection and Suppression System:

- Per USCG Subchapter T & ASTM F3353-19 requirements: located inside the Generator Compartments, Waterjet Compartments, and Energy Storage Compartments.
- Commercial Fire Communications and Monitoring System: dual path communicator that allows a fire panel to use the internet or cellular means to connect to a land based fire station.

14. Fire & Safety equipment per USCG Subchapter T requirements.

- Life Jackets stowed in FRP deck boxes distributed throughout vessel in designated areas.

15. Primary Lifesaving Equipment: none required

16. Public Space Interior:

- Walls: 3/8" aluminum honeycomb panels with Vinyl finish surface and anodized trim and joiners. Owner to specify color.
- Ceiling: 2x2 Lay-In Ceiling Tiles.
- Floor coverings for interior and Pilothouse: Vinyl Safety flooring or equal.

17. Hatches & Manholes:

- Escape and Access Hatches: Mechanically Latched (hinged & pullout) watertight hatch, flush with knife-edge seal
- Fuel Tank Access: Bolt-on, raised manhole
- Soft patches above generator and waterjet: Yard fabricated

18. Pilothouse Finishes:

- Console: metal frame with removable access panels.
- Commercial Grade Helm Chair.
- Ceiling similar to deckhouse.

19. Paint:

- The following coating system shall be supplied by Builder and applied to the vessel:

1) Hull Keel to Underside of Spray Rail:

A universal anticorrosive epoxy scheme providing long term corrosion protection, with antifouling being applied directly. A high performance Copper and TBT free polishing scheme. Surface Preparations: Where necessary remove all weld splatter, smooth weld seams and sharp edges. Fresh water wash to remove all dirt and contamination, as necessary. Degrease according to SSPC-SP1 solvent cleaning. Ensure area is clean and dry prior to application. Blast to ISO 8501-1 Sa2½ or SSPC SP10. Apply the material before visible oxidation occurs. If oxidation does occur, the entire oxidised surface should be re-blasted to the standard specified above.

Coats	Colour	% Loss factor	Volume Solids (%)	VOC (lb/G)	WFT (mil)	DFT (mil)	PSR (ft²/G)	Overcoating 77°F		Volume (G)	Before Flooding 50°F
								Min	Max		
FC	Red	30	80	1.6	6.3	5	182.54	10hrs	8wks	5.50	
FC	Light Grey	30	80	1.6	6.3	5	182.54			5.50	
FC	Black	30	58	3.2	8.6	5	132.42	6hrs	ext.	7.60	20hrs
FC	Red	30	58	3.2	8.6	5	132.42	6hrs	ext.	7.60	20hrs
					29.8	20				26.20	

2) Spray Rail to Main Deck:

An epoxy anticorrosive scheme with Polysiloxane finish. Surface Preparations: Where necessary remove all weld splatter, smooth weld seams and sharp edges. Fresh water wash to remove all dirt and contamination, as necessary. Degrease according to SSPC-SP1 solvent cleaning. Ensure area is clean and dry prior to application. Blast to ISO 8501-1 Sa2½ or SSPC SP10. Apply the material before visible oxidation occurs. If oxidation does occur, the entire oxidised surface should be re-blasted to the standard specified above.

Coats	Colour	% Loss factor	Volume Solids (%)	VOC (lb/G)	WFT (mil)	DFT (mil)	PSR (ft²/G)	Overcoating 77°F		Volume (G)	Before Flooding 50°F
								Min	Max		
FC	Red	30	80	1.6	6.3	5	182.54	10hrs	8wks	5.50	
FC	Light Grey	30	80	1.6	6.3	5	182.54			5.50	
FC	White	30	76	1.8	6.6	5	173.58	4hrs	ext.	5.80	
					19.2	15				16.80	

3) External Decks:

A lightweight nonskid decking system. Fresh water wash to remove all dirt and contamination, as necessary. Degrease according to SSPC-SP1 solvent cleaning. Ensure area is clean and dry prior to application. Blast to ISO 8501-1 Sa2½ or SSPC SP10.

Coats	Colour	% Loss factor	Volume Solids (%)	VOC (lb/G)	WFT (mil)	DFT (mil)	PSR (ft²/G)	Overcoating 77°F		Volume (G)	Before Flooding 50°F
								Min	Max		
FC	Red	30	80	1.6	6.3	5	182.54	24hrs	7days	5.50	
FC	Buff	30	100	0	20	20	57.04	12hrs	14days	17.50	
FC	Dark Grey	30	83	1.2	60.2	50	18.74			53.40	
					86.5	75				76.40	

4) Wheelhouse Roof:

A universal anticorrosive epoxy scheme overcoated with polyurethane finish. Broadcast aggregate into 2nd coat until refusal. Surface Preparations: Where necessary remove all weld splatter, smooth weld seams and sharp edges. Fresh water wash to remove all dirt and contamination, as necessary. Degrease according to SSPC-SP1 solvent cleaning. Ensure area is clean and dry prior to application. Blast to ISO 8501-1 Sa2½ or SSPC SP10. Apply the material before visible oxidation occurs. If oxidation does occur, the entire oxidised surface should be re-blasted to the standard specified above.

Coats	Colour	% Loss factor	Volume Solids (%)	VOC (lb/G)	WFT (mil)	DFT (mil)	PSR (ft²/G)	Overcoating 77°F		Volume (G)	Before Flooding 50°F
								Min	Max		
FC	Red	30	80	1.6	6.3	5	182.54	10hrs	8wks	5.50	
FC	Light Grey	30	80	1.6	6.3	5	182.54	10hrs	8wks	5.50	
FC	Light Grey	30	80	1.6	6.3	5	182.54	10hrs	7days	5.50	
FC	White	30	57	3.5	5.3	3	216.77	6hrs	ext.	4.60	
					24.2	18				21.10	

5) Superstructure:

A universal anticorrosive epoxy scheme overcoated with polysiloxane finish. Surface Preparations: Where necessary remove all weld splatter, smooth weld seams and sharp edges. Fresh water wash to remove all dirt and contamination, as necessary. Degrease according to SSPC-SP1 solvent cleaning. Ensure area is clean and dry prior to application. Blast to ISO 8501-1 Sa2 or SSPC SP6.

20. Railings:

- Aluminum square tube construction.

21. Windows:

- aluminum frames marine windows.
- Pilothouse windows opening, (1) on each side
- Tint to be Owner approved.

22. Doors:

- Aluminum exterior doors with half height glass windows, Aluminum hinges and hardware
- Interior Doors to be aluminum
- Keying to be approved by Owner prior to purchasing hardware

23. Thermal Insulation:

- All exterior boundaries to climate controlled spaces to be insulated with .8 PCF fiberglass thermal insulation, USCG approved under CG 164.009, nominal 4” thickness

24. Sound Insulation to be 8” thickness, with lead composite septum.

- Installed on under side of access hatches and soft patches.

25. Mechanical Spaces Ventilation (Generator Compartment and Waterjet Compartment):

- Generator compartment: 12”dia. 610CFM inline fan
- Waterjet compartment: 8”dia. 250CFM inline fan
- Energy Storage System compartment: Non-sparking (per ASTM F3353-19) 8”dia. 250CFM inline fan
- Closures as required for CO2 System discharge per USCG requirements

26. Pilothouse Electronics & Navigation:

- Chart Plotter and GPS
- VHF Radio (2)
- Waterjet Controls:
 - Bucket Position, Thruster Reverse, Thruster Control, Status Indicator
- Bilge High Water Alarm
- ESS/Propulsion Monitors
- Steering Control: Wheel, Follow Up Control w/ multiple potentiometers
- Steering Angle Indicators (2)
- Two Trumpet air horn

- Navigation Lights per USCG requirements

27. General Electrical:

- See D&L Dwg. #22-1477-5001 & 5002 for Electrical System

28. Lighting:

- Explosion Proof Lights in ESS Space.
- LED ceiling can lights (8 ft. o.c.) in passenger spaces
- Standard LED Fluorescent-style tube lighting in Pontoon Generator Compartment, Waterjet Compartment, & Chiller Compartment, USCG acceptable
- Exterior fixtures on Main Deck, USCG acceptable

29. HVAC:

- Approx. 10.75 tons required
 - Main Cabin: 8 tons
 - Electronics Room (2): 0.75 tons each
 - Pilothouse: 1.25 tons
- Mini-split System, consisting of (2) 4 Ton Exterior Compressors, (1) 4 Ton Exterior Compressor, (9) Cassette Interior AHUs, and (1) Floor Mount AHU in Pilot House
- Fancoil units mounted in overheads and closets
- Electric Heat Strips

30. Miscellaneous:

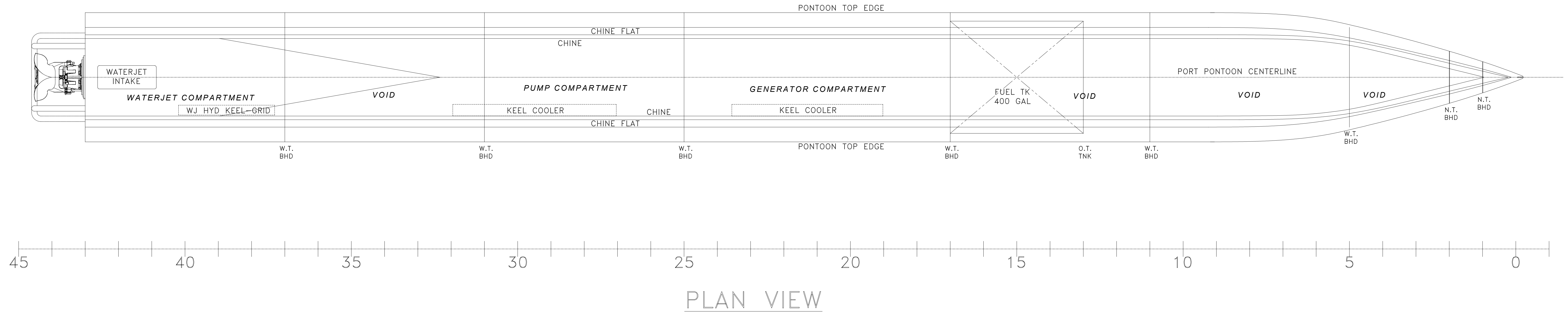
- (15) 12 Pound bolt-on aluminum anodes with angle bracket mounts. Additional anodes at Seachests.

31. Engineering:

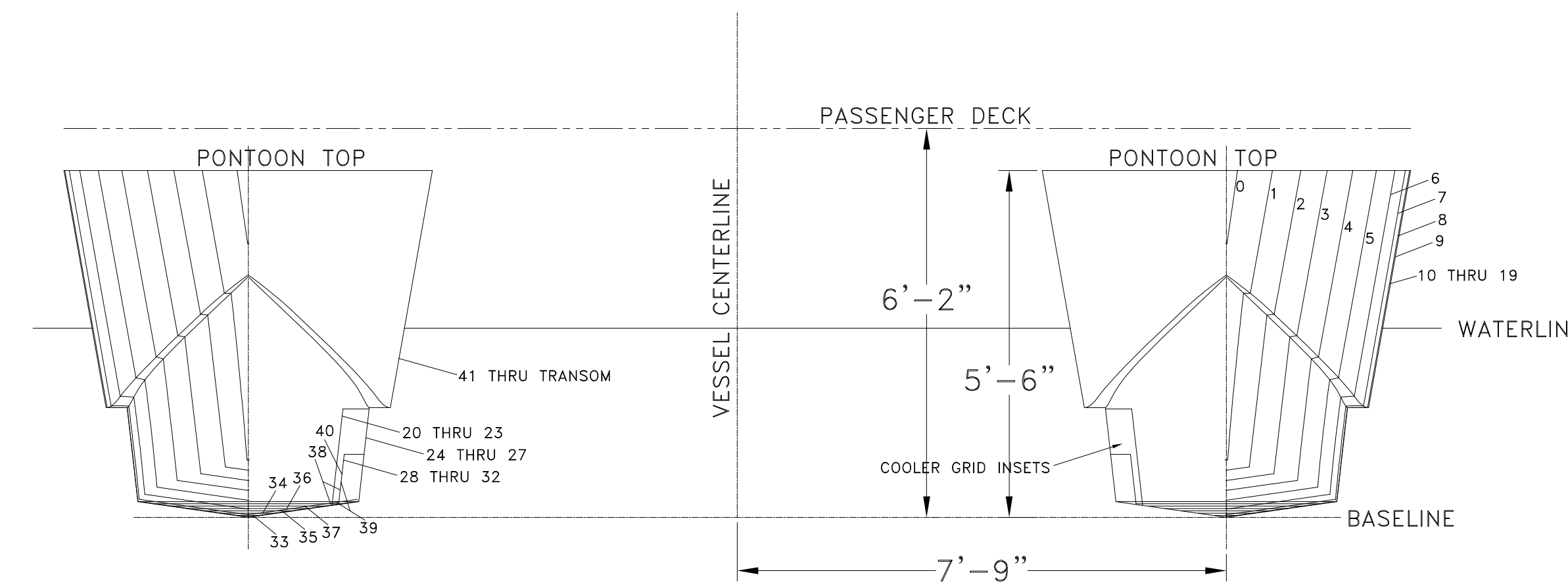
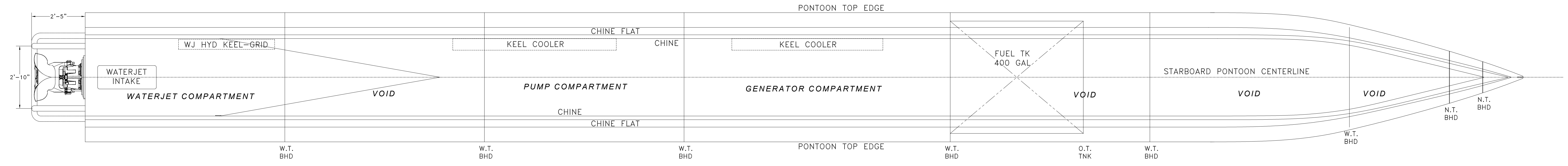
- Engineering will be provided by the Owner to include plans and calculations as required to be approved by the USCG Marine Safety Center, except plans normally furnished by the Vendor for MSC approval such as switchboard, CO2 system, fire/smoke alarm & detection system, DVTP analysis for engine controls, etc. Any further engineering required should be provided by the shipyard. Naval will be responsible for calculations for the vessel to admeasure under 100 gross tons. The cost of the admeasurement fees and survey fees will be to the shipyard.

32. Lofting and NC Data:

- The shipyard will be responsible for final digital lines fairing and NC cutting data.



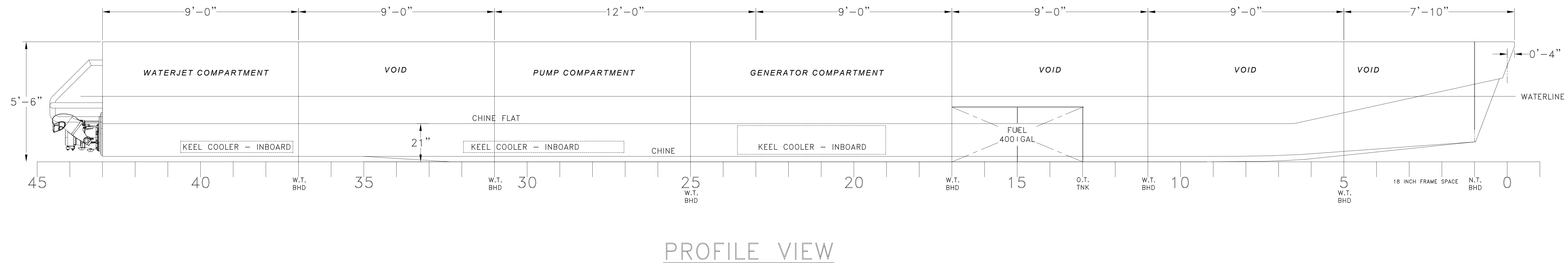
PLAN VIEW



VESSEL PARTICULARS
 SMALL PASSENGER CATAMARAN VESSEL (T)
 LENGTH: 65FT
 BEAM: 22FT
 DISPLACEMENT: 45LT

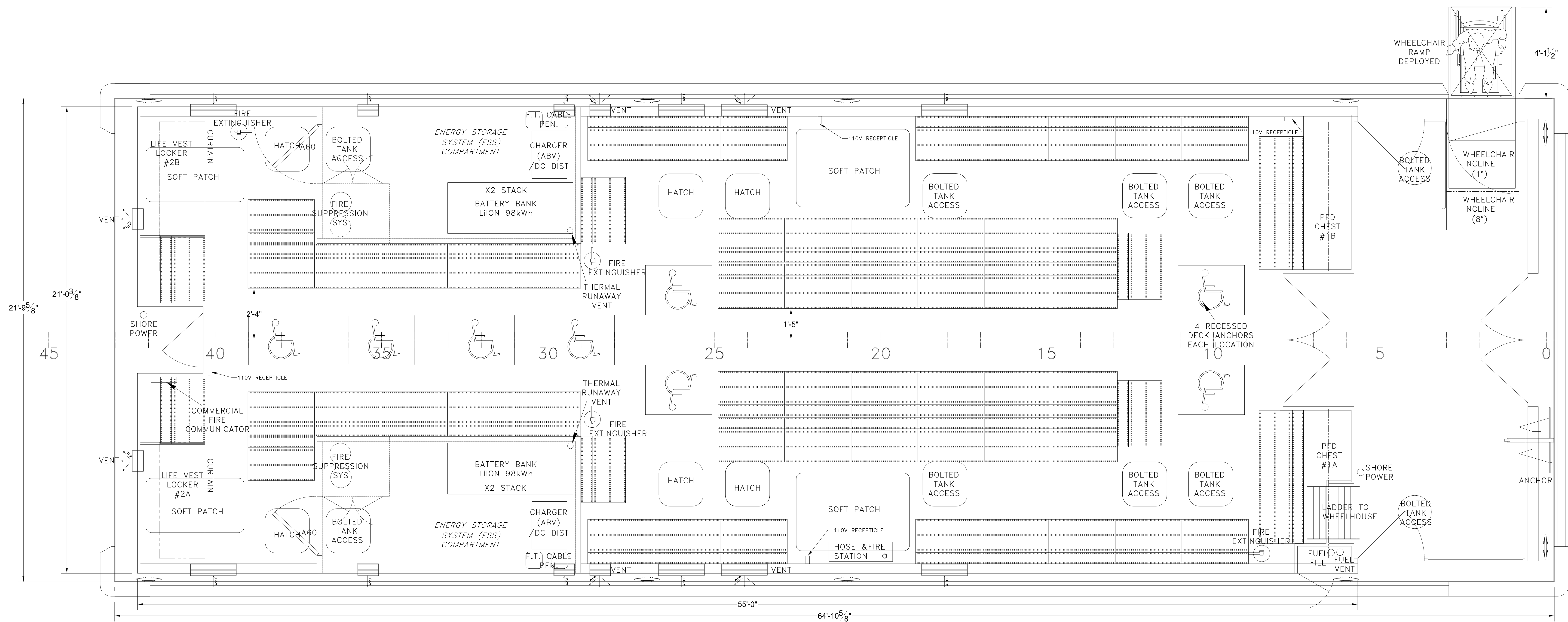
PASSENGERS: 150
 CREW: 2

- NOTES:
 1. ALL MEASUREMENTS IN FEET & INCHES
 2. FRAME SPACING IS 18 INCHES
 3. KEEL COOLER INSETS INBOARD

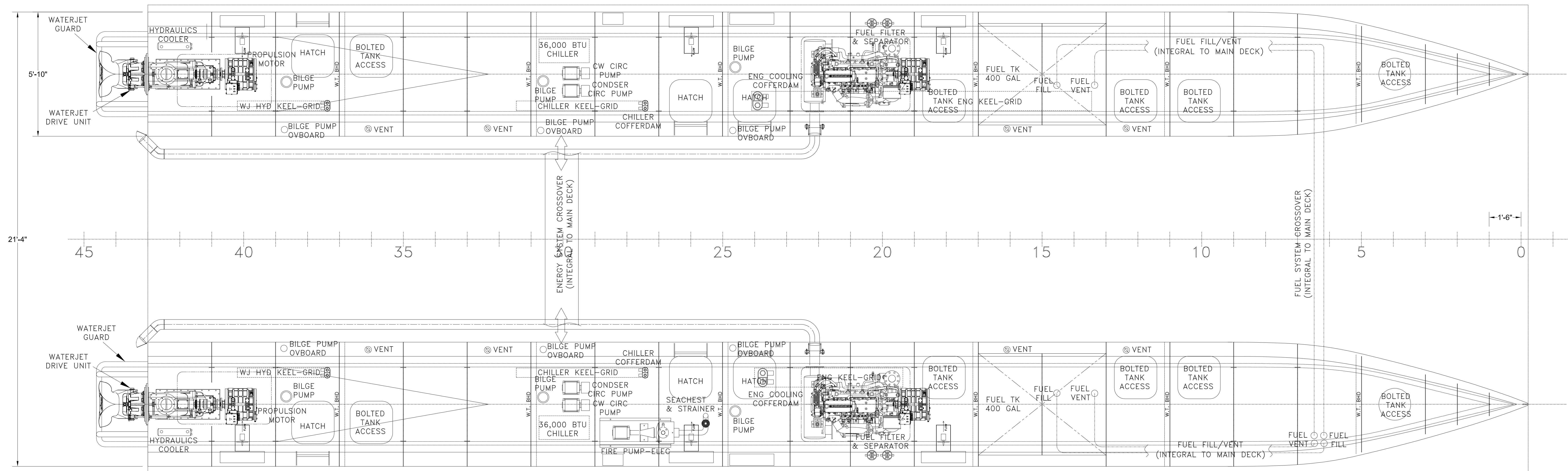


PROFILE VIEW

GENERAL NOTES		ALTERATIONS		RESERVATIONS		REFERENCES		DeJong & Lebet, Inc. Naval Architects Marine Engineers Consultants Surveyors Phone: (904) 399-3673 Fax: (904) 399-1522 www.dejongandlebet.com	Title: 65' PASSENGER FERRY (ELECTRIC) LINES PLAN Dwg. No: 22-1477-0202 Alt. No: 0 Sht. 1 OF 1 Drawn By: BRIAN BOUDREAU Checked By: _____ App'd By: _____ ABS App'l: _____ Date: 10 MAY 2022 Scale: 1/8" = 1'-0" USCG App'l: _____
NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION		



MAIN DECK PLAN VIEW
124 SEATS + 8 ADA + 18 STANDING



HOLD PLAN VIEW

GENERAL NOTES	
NO.	DESCRIPTION

ALTERATIONS				
NO.	DESCRIPTION	DATE	BY	NO.
1.	GENERIC PART DESIGNATIONS	8.12.22	JS	

RESERVATIONS	
NO.	DESCRIPTION

REFERENCES	
NO.	DESCRIPTION

NO.	DESCRIPTION	DATE	BY	NO.
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DeJong & Lebet, Inc.
 Naval Architects
 Marine Engineers
 Consultants
 Surveyors

1734 Emerson Street
 Jacksonville, Florida 32207
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Title: **65' PASSENGER FERRY (DIESEL-ELECT HYBRID)**
GENERAL ARRANGEMENT

Dwg. No. 22-1477-1001 Alt. No. 1
 Shk. 1 OF 3

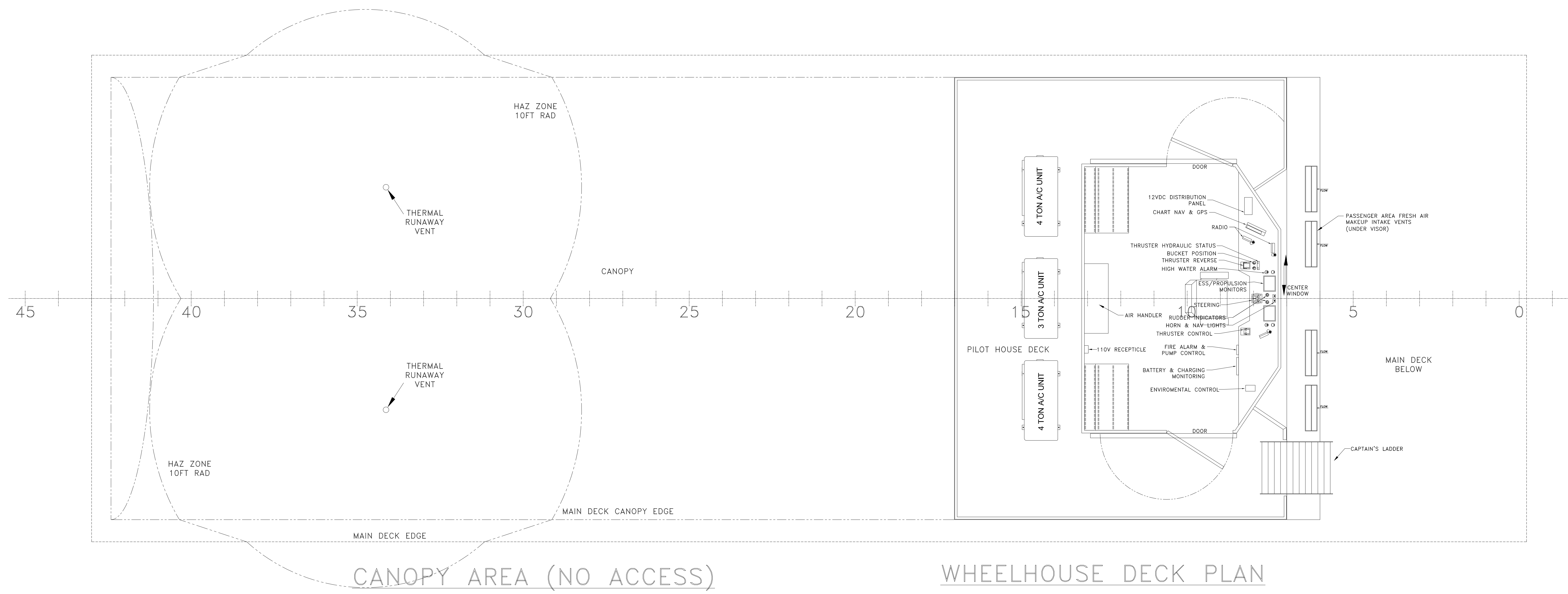
Drawn By: **BRIAN BOUDREAU** Date: **16 MAY 2022**
 Checked By: _____ Date: _____
 App'd By: _____ Scale: **1/2" = 1'-0"**
 ABS App'l: _____ USCg App'l: _____

- DRAWING SUBMITTALS -

C

B

A



CANOPY AREA (NO ACCESS)

WHEELHOUSE DECK PLAN

-- GENERAL NOTES --				-- ALTERATIONS --				-- RESERVATIONS --				-- REFERENCES --			
NO.	DESCRIPTION	NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION		
1.	GENERIC PART DESIGNATIONS			8.12.22	JS										

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2	S/08.12.22/E
1	S/08.04.22/E
0	P/06.09.22/E
P	
OWNERS	MSC-USCG ALT. NO.

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1734 Emerson Street
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 www.dejongandlebet.com

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Title: **65' PASSENGER FERRY (DIESEL-ELECT HYBRID)**

GENERAL ARRANGEMENT

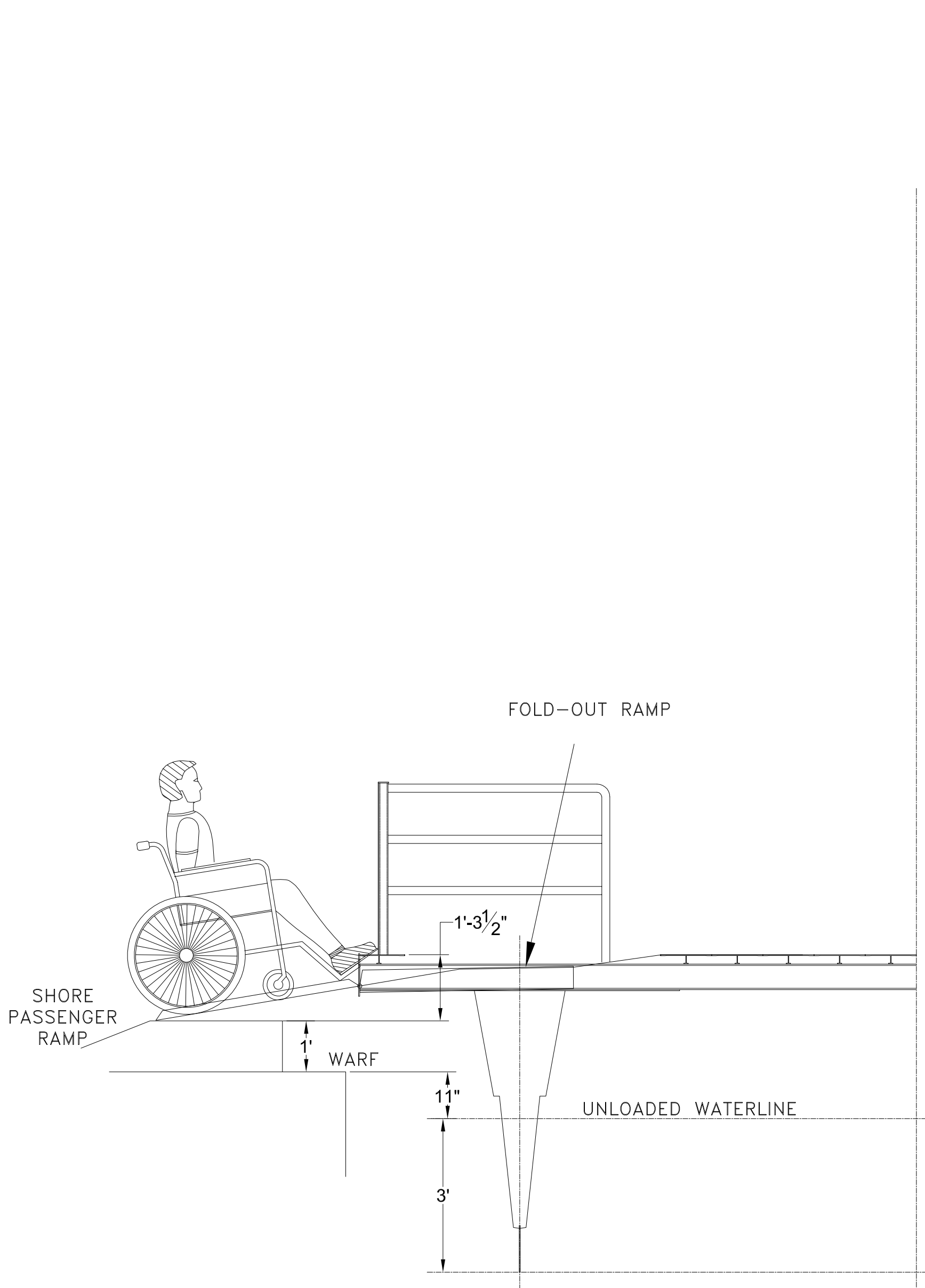
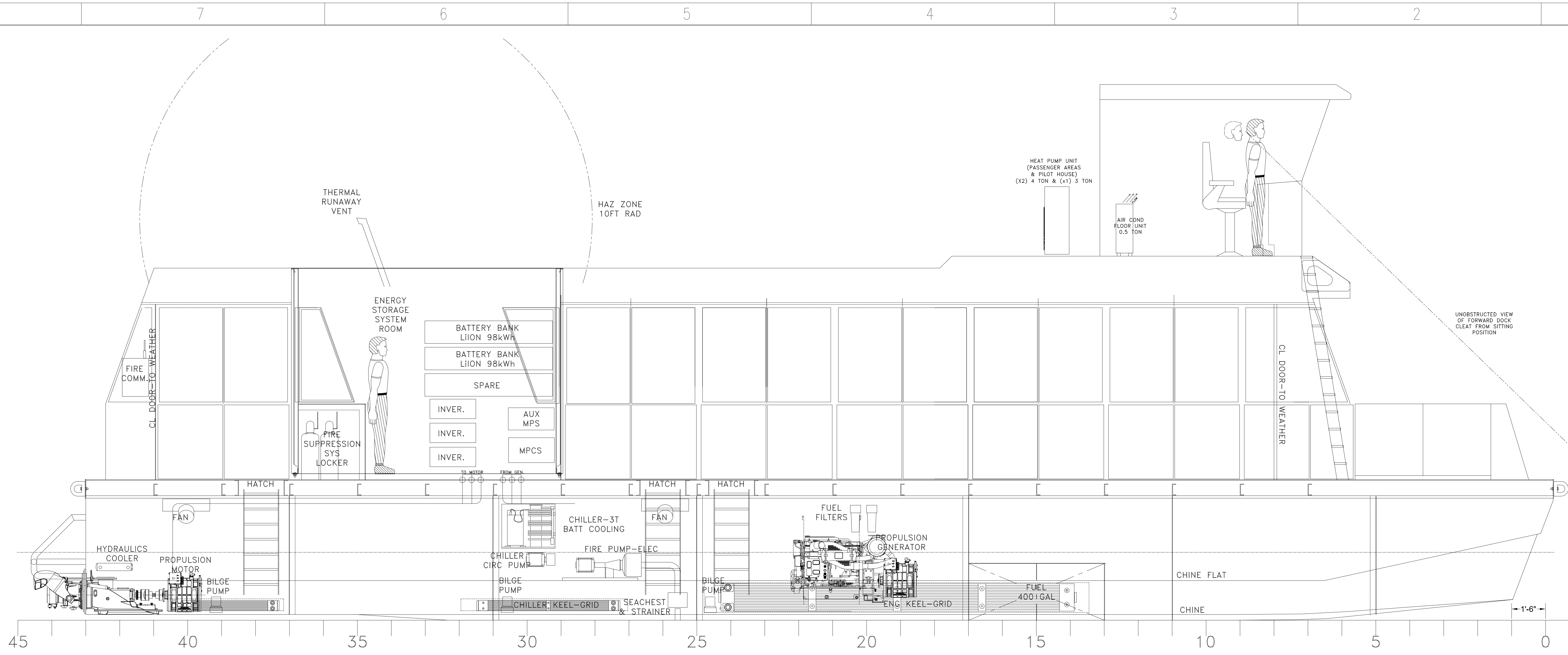
Dwg. No. 22-1477-1001 Alt. No. 1 SH. 2 OF 3

Drawn By: **BRIAN BOUDREAU** Date: **16 MAY 2022**

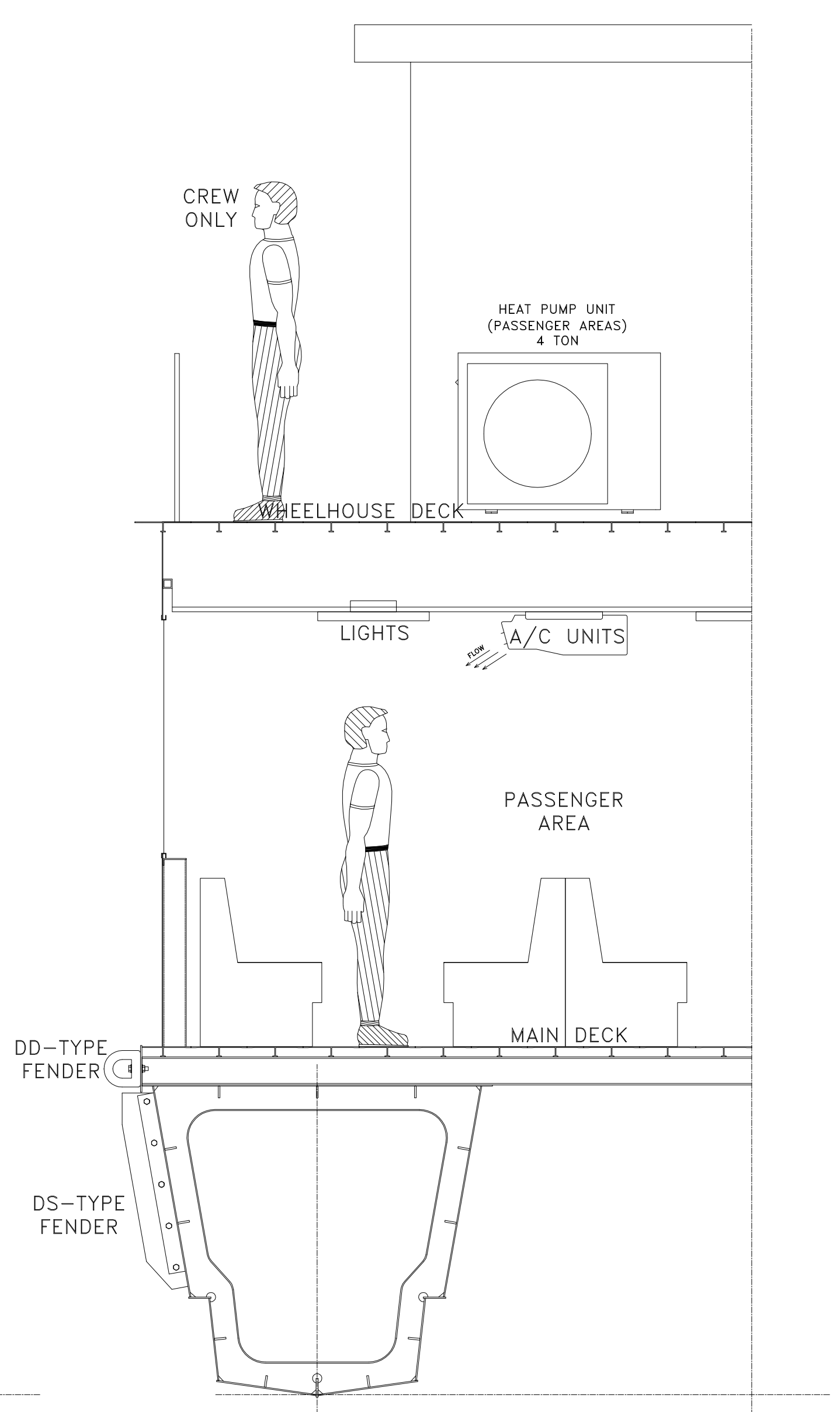
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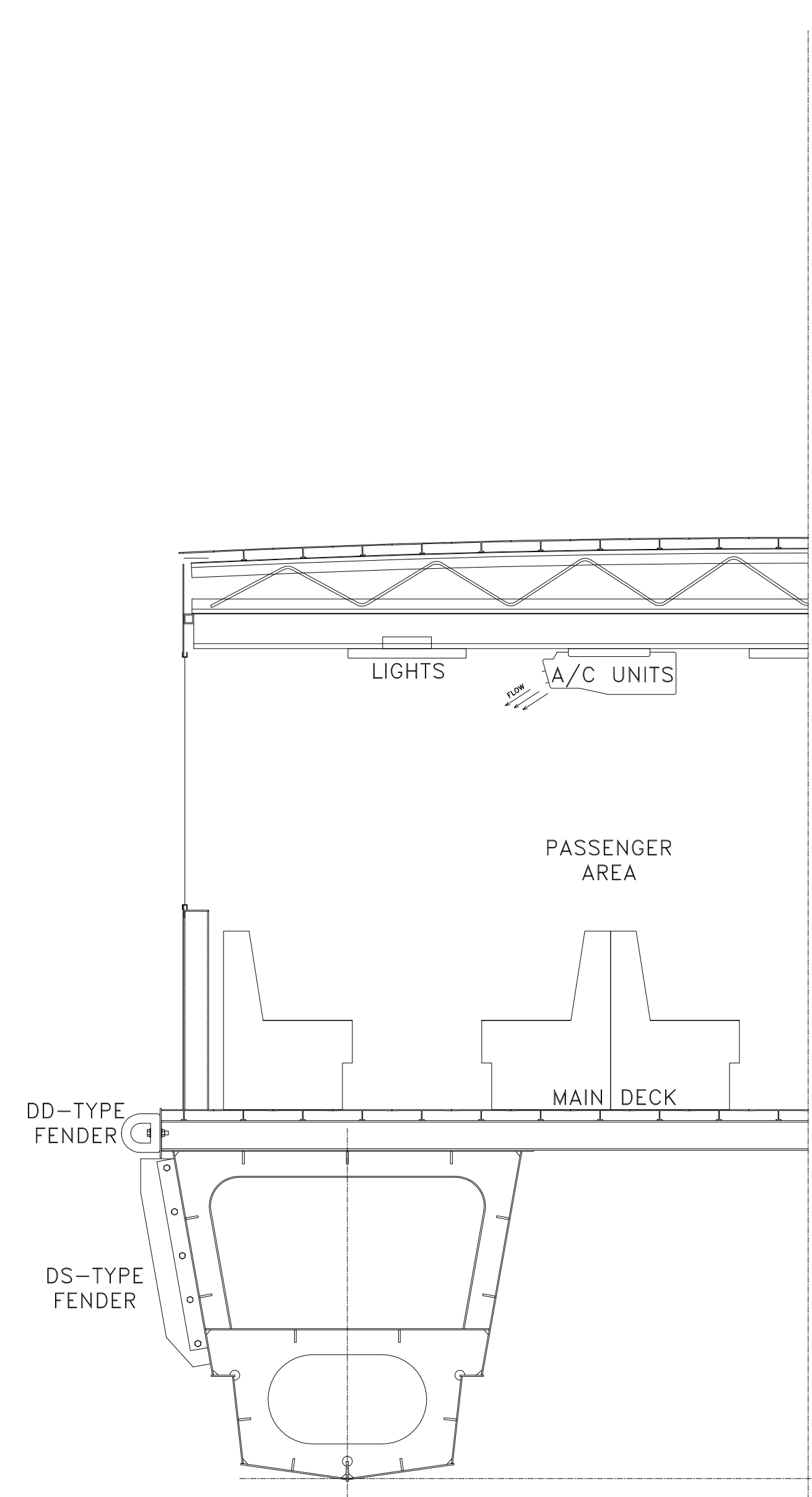
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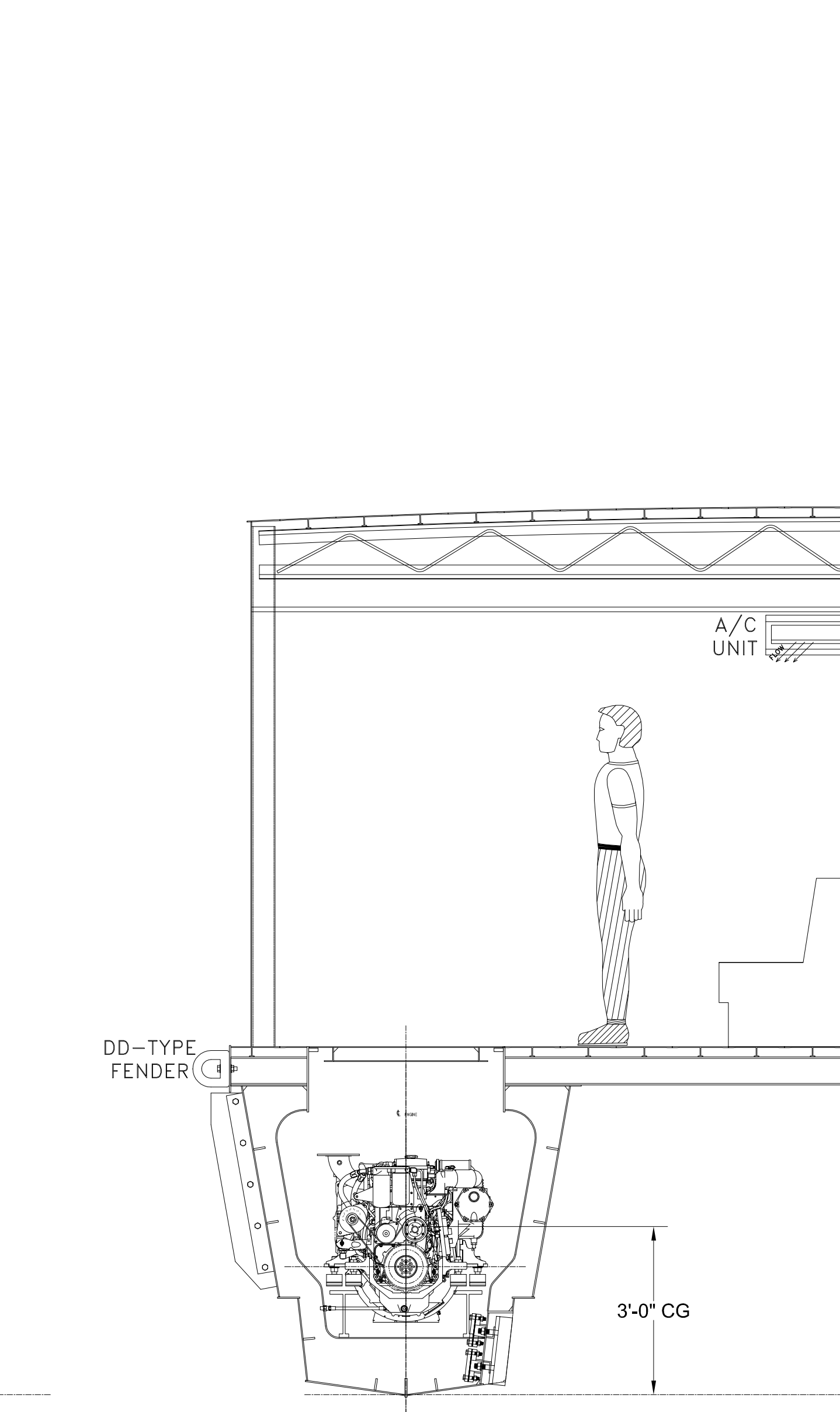
FORWARD BOARDING



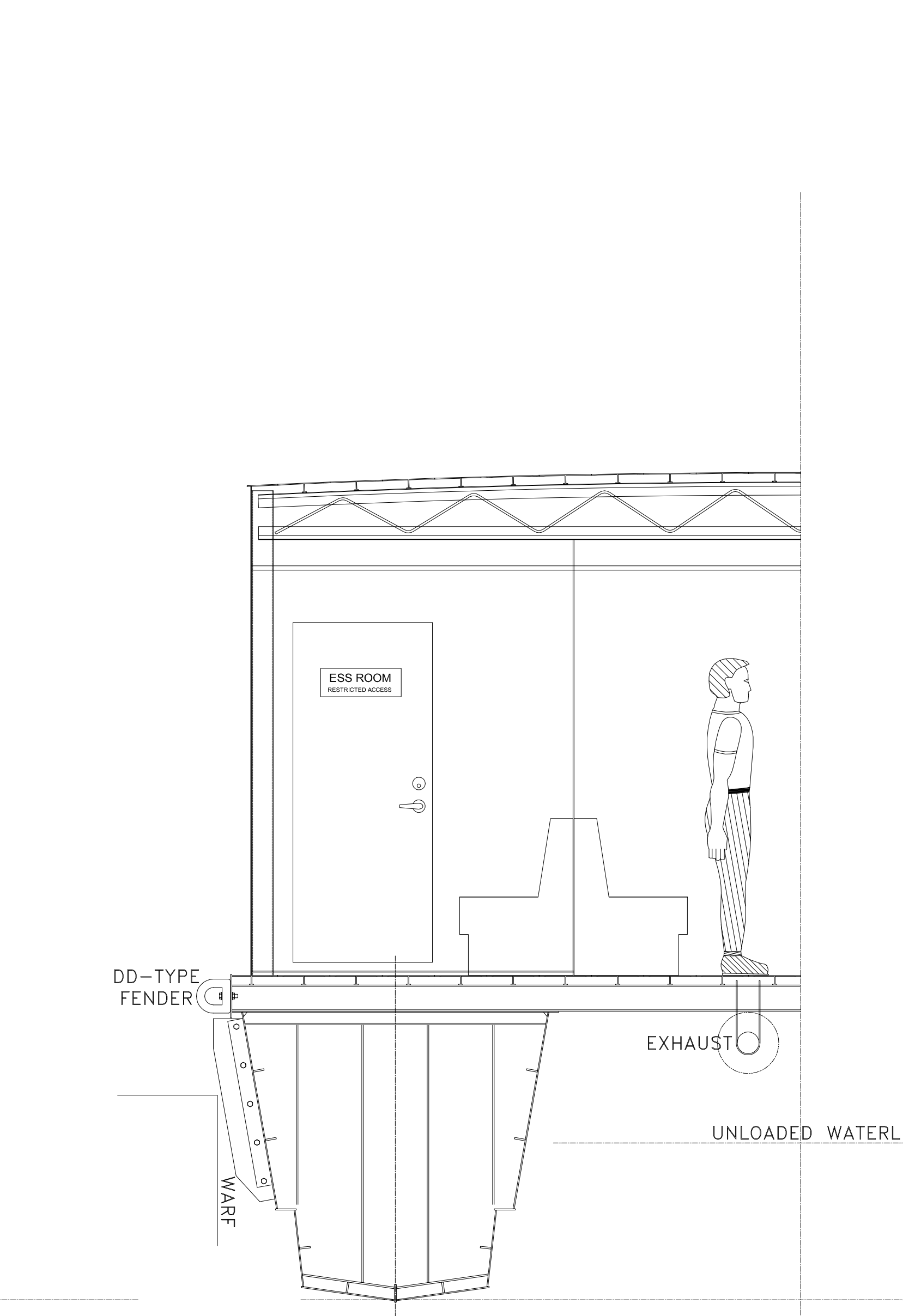
TYPICAL RING FRAME



FRAME IWO FO TANK



FRAME IWO MAIN GENSET



TYPICAL W.T. BHD

GENERAL NOTES		ALTERATIONS		RESERVATIONS		REFERENCES	
NO.	DESCRIPTION	NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION
1.	GENERIC PART DESIGNATIONS			8.12.22	JS		

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION
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Title: 65' PASSENGER FERRY (DIESEL-ELECT HYBRID)	
GENERAL ARRANGEMENT	
Dwg. No. 22-1477-1001	Alt. No. 1 Sht. 3 OF 3
Drawn By: BRIAN BOUDREAU	Date: 16 MAY 2022
Checked By:	Scale: 1/2" = 1'-0"
App'd By:	USCG App'l:
ABS App'l:	

VESSEL PARTICULARS

SMALL PASSENGER CATAMARAN VESSEL (T)

LOA: 67FT-10IN

LWL: 63FT-10IN

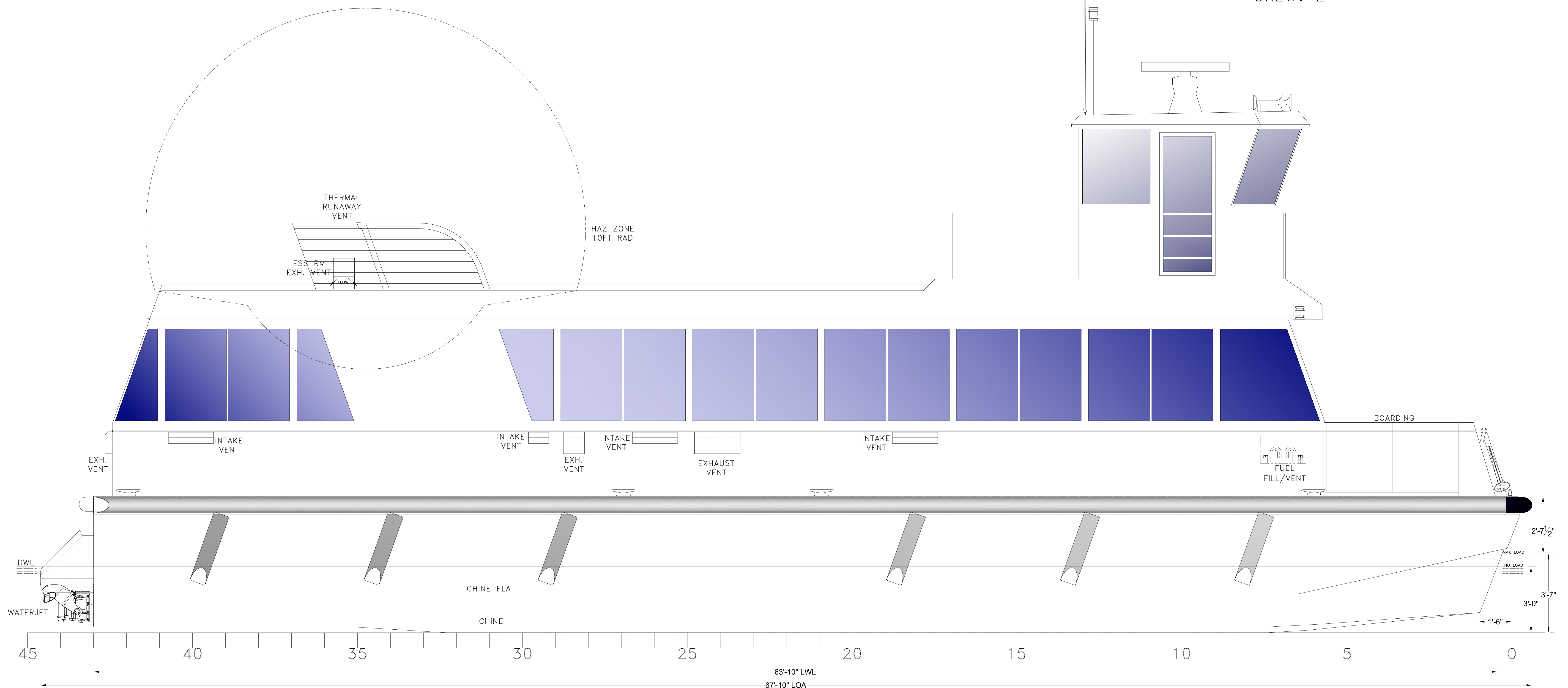
BEAM: 22FT

DISPLACEMENT: 45LT

PROPULSION: DIESEL-ELECTRIC HYBRID

PASSENGERS: 150

CREW: 2



-- GENERAL NOTES --		-- ALTERATIONS --		-- RESERVATIONS --		-- REFERENCES --	
NO.	DESCRIPTION	NO.	DESCRIPTION	DATE	BY NO.	NO.	DESCRIPTION

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P	P/06.09.22/E
OWNERS	MSC-USCG ALT. NO.

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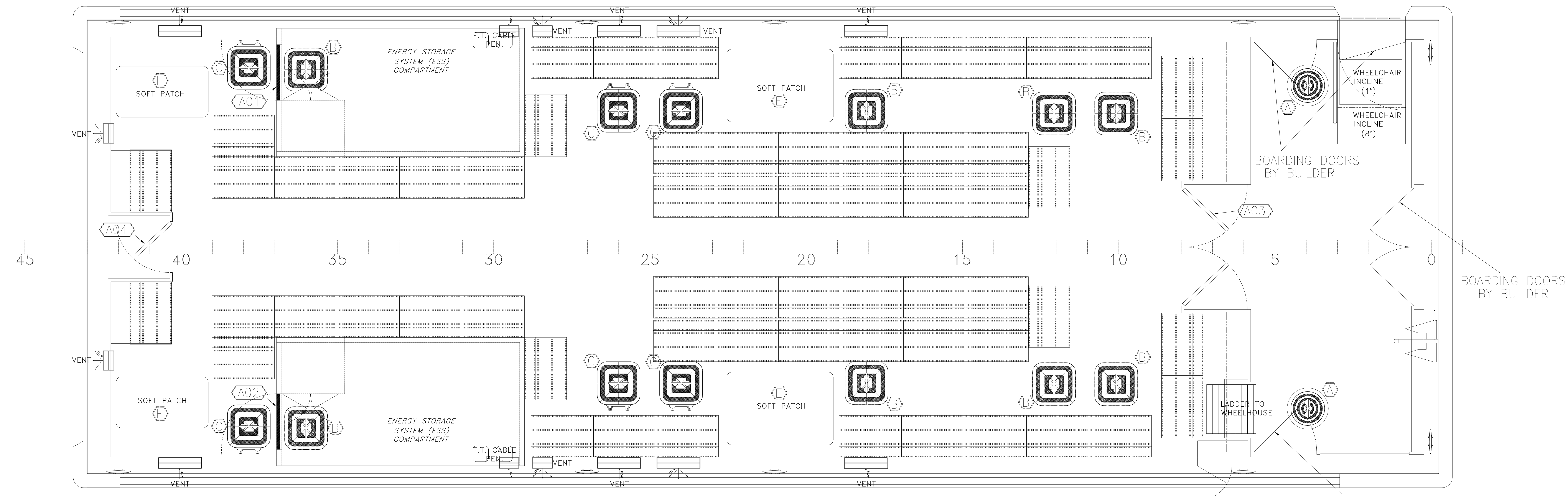
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Title: 65' PASSENGER FERRY (DIESEL-ELECT HYBRID)

OUTBOARD PROFILE

Dwg. No. 22-1477-1009 Alt. No. 0 Sh. 1 OF 1

Drawn By: BRIAN BOUDREAU Date: 16 MAY 2022
 Checked By: _____ Date: _____
 App'd By: _____ Scale: 1/2" = 1'-0"
 ABS App'l: _____ USCG App'l: _____

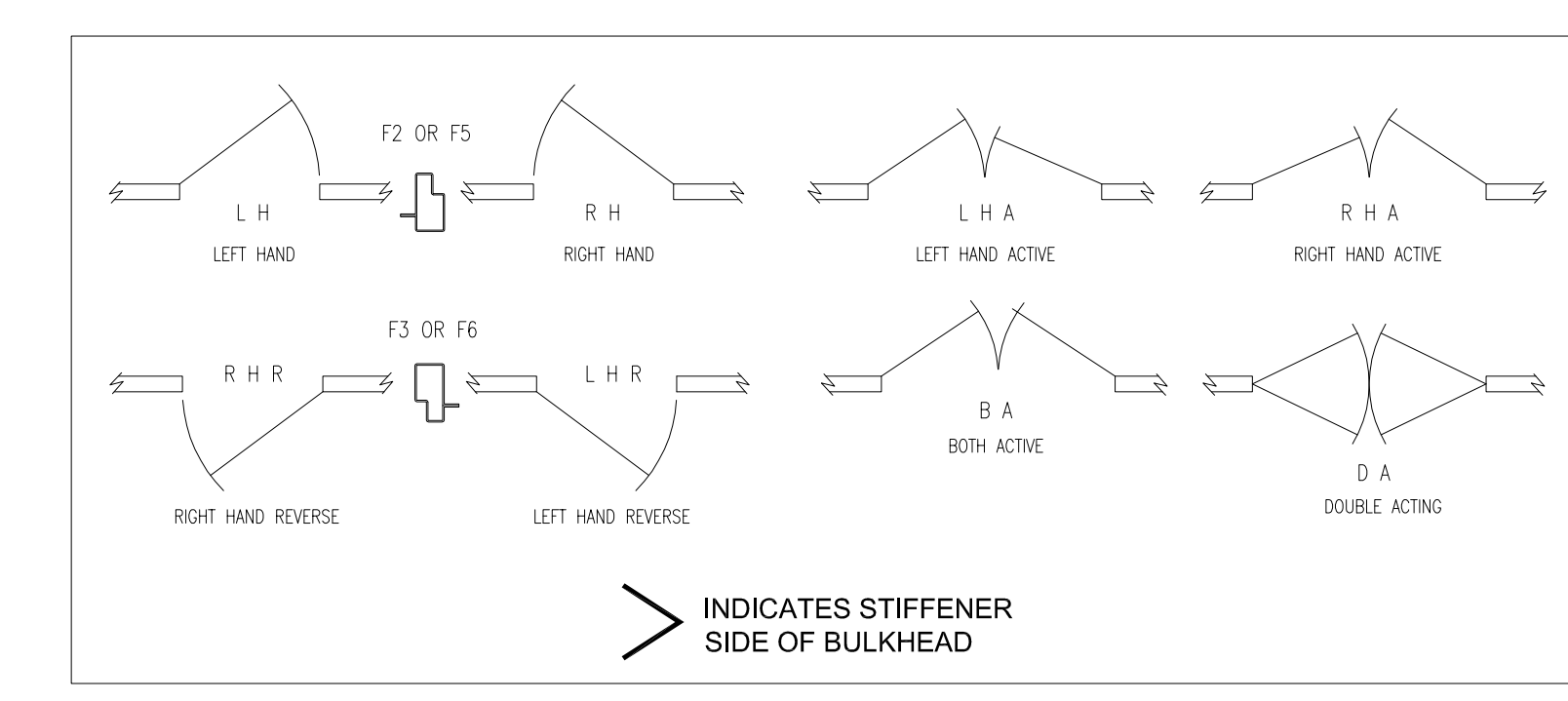
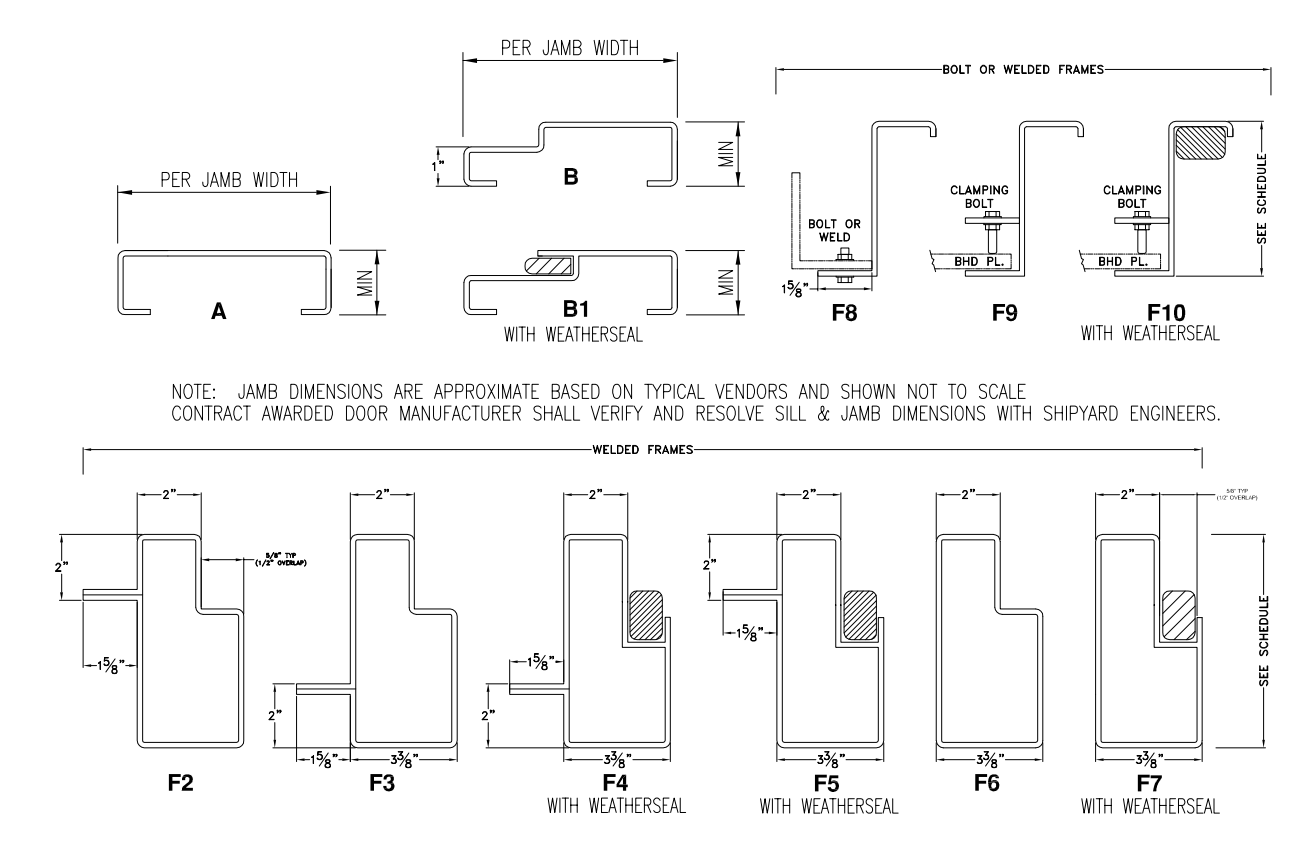


MAIN DECK PLAN VIEW
 VERIFY ALL HATCH AND DOOR LOCATIONS AND OPERATION WITH OWNER BEFORE INSTALL

NOTE	ID	NOMENCLATURE	FRAMES				DOORS				HARDWARE				REMARKS SUGGESTED MFG & MODEL								
			# OF PANELS	BHD THICK	ELEV	FRM	FRAME TYPE	SLL TYPE	THRES HOLD	CLEAR OPENING (WxD)	DOOR TYPE	MIN GA	INSERT GLASS (COVER) COLOR	COVERING TYPE		LOOK	HINGE	DOG	USCG RATING	THERMAL INSULATION			
PASSENGER DECK																							
	STBD	A01	1	4"	O	RH	F8	F8	S1	2'-8"	6'-8"	F	18	A15	N	N	WHT	PDR	Y	3	N	A-15	NA
	PORT	A02	1	4"	O	LH	F8	F8	S1	2'-8"	6'-8"	F	18	A15	N	N	WHT	PDR	Y	3	N	A-15	NA
	CL	A03	2	4"	O	BA	F10	B1	S2	5'-8"	7'-0"	FS	22	-	0.5	N	AL	NONE	Y	-	N	C	NR
	CL	A04	1	4"	O	RH	F10	B1	S2	2'-8"	7'-0"	FG	22	-	0.5	N	AL	NONE	Y	-	N	C	NR
PILOTHOUSE DECK																							
	P/S	B01	2	4"	O	LHR	F10	B1	S3	3'-6"	6'-8"	FGFS	22	-	0.5	N	AL	NONE	Y	3	N	C	NR

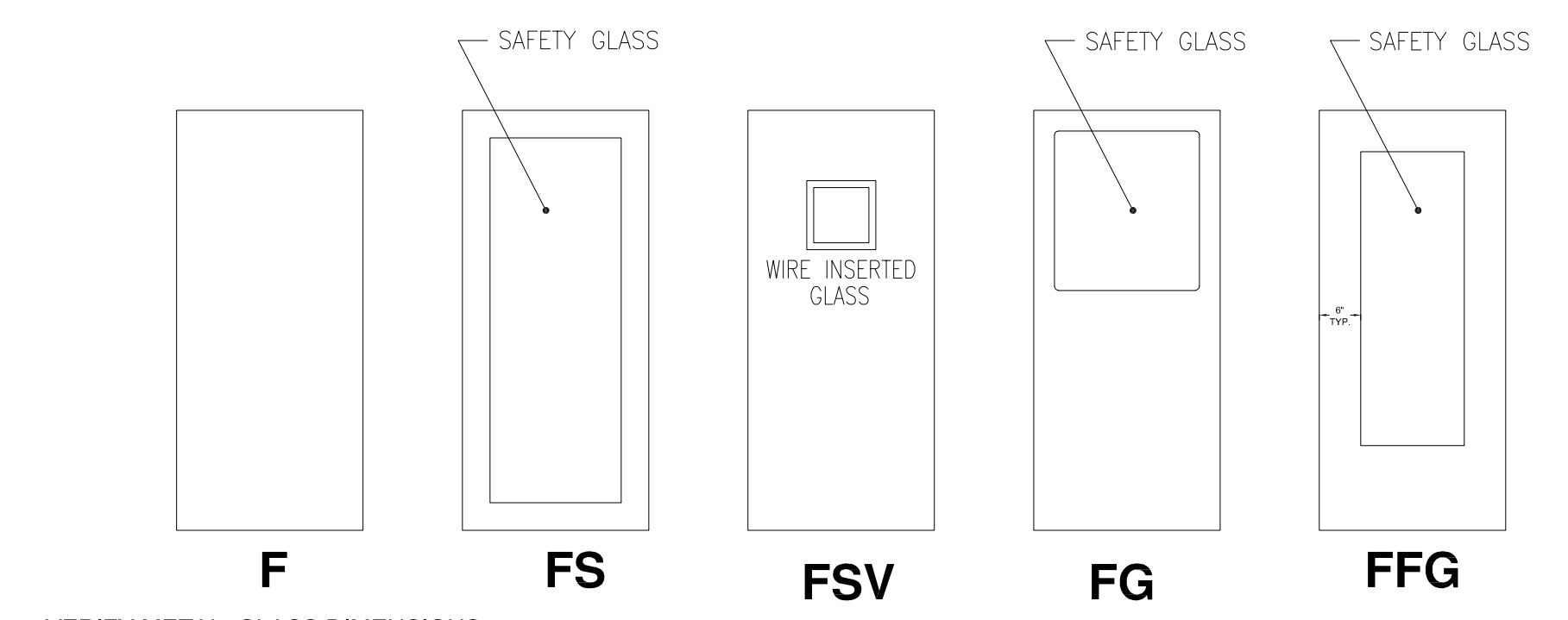
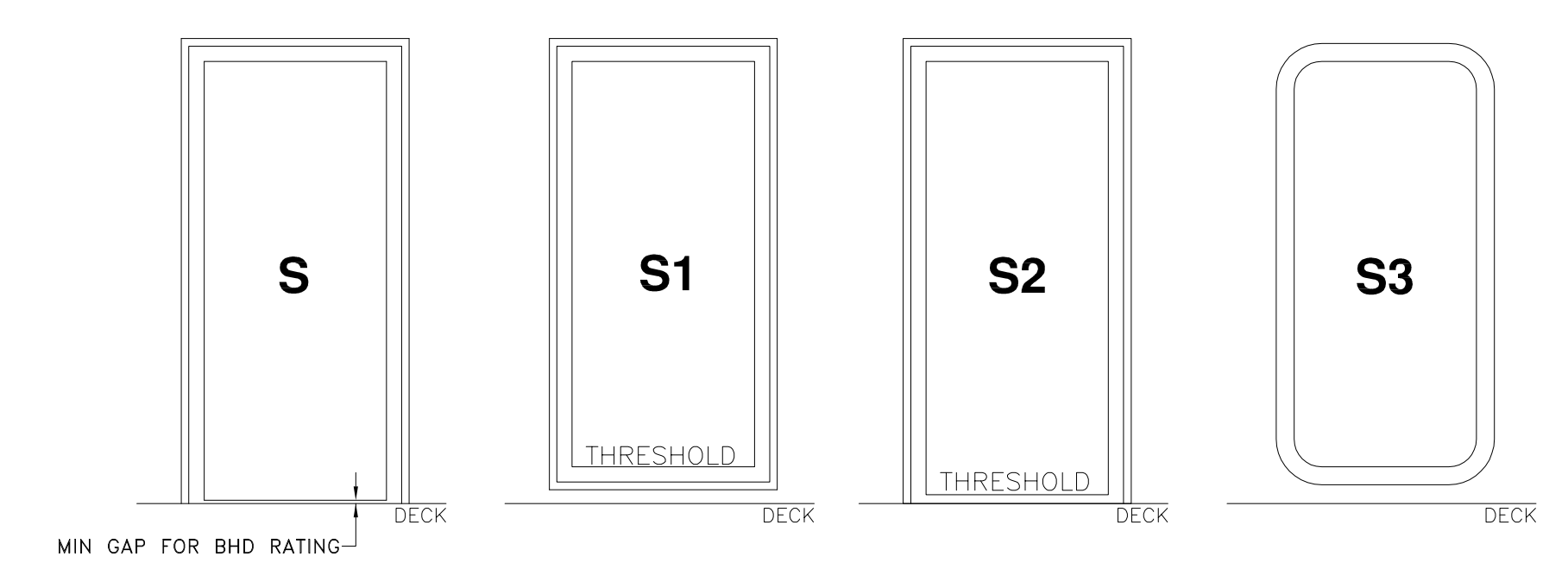
NOTES:
 DIMENSIONS, THICKNESS, AND GAUGE ARE MINIMUM ACCEPTABLE. SY MAY COORDINATE WITH VENDOR FOR OPTIMAL AVAILABLE SPECS.
 1. ENGINEERING SPACE (INCL. ENERGY STORAGE SYS SPACE) DOORS TO BE FITTED WITH ALARM LIGHT IN PILOTHOUSE PER 46CFR 170.255.
 2. VERIFY GLASS DIMENSIONS AND THICKNESS WITH SHIPYARD ENGINEERS OR NAVAL ARCHITECT PRIOR TO FABRICATION.
 3. NR= NOT REQUIRED (THERMAL INSULATION A PLUS OR IF IN COTS DOOR IT NEED NOT BE REMOVED).
 Y = REQUIRED, N=NOT INSULATED REQUIRED, NA= INSULATED TO FIRE RATING.
 4. BOTH PILOTHOUSE DOORS SWING AWAY DIRECTION OF EGRESS (LHR)

ID	DESCRIPTION	QUANTITY	NOTES
A	18" DIAMETER LIFT-OUT ALUMINUM W/ ALUM. WELD-IN FRAME, FLUSH W.T. HATCH, KNIFE EDGE SEAL	2	OR EQUAL, EXTERIOR DECK HATCHES WITH CAPTIVE S S CABLE OR CHAIN, SHACKLE OR REMOVABLE LINKS
B	22"x22" SQUARE LIFT-OUT ALUMINUM W/ ALUM. WELD-IN FRAME, FLUSH W.T. HATCH, KNIFE EDGE SEAL	8	OR EQUAL, LOCATE TO OWNERS SATISFACTION
C	22"x22" SQUARE HINGED ALUMINUM W/ ALUM. WELD-IN FRAME, FLUSH W.T. HATCH, KNIFE EDGE SEAL	4	OR EQUAL, LOCATE TO OWNERS SATISFACTION
D	18"x23" OVAL RAISED ALUMINUM O.T. MULTIBOLT M.H., FASTENERS: 304SS WITH NYLON INSERTS	5	OR EQUAL, LOCATE TO OWNERS SATISFACTION
E	GENERATOR SOFTPATCH, CLEAR OPENING 5'-2" X 3'-8", FLUSH W.T. COVER, FASTENERS: 304SS WITH NYLON INSERTS	6	PATCH COVER TO MATCH STRENGTH AND TIGHTNESS OF INSTALLED DECK
F	WATERJET SOFTPATCH, CLEAR OPENING 4'-6" X 2'-6", FLUSH W.T. COVER, FASTENERS: 304SS WITH NYLON INSERTS	7	PATCH COVER TO MATCH STRENGTH AND TIGHTNESS OF INSTALLED DECK

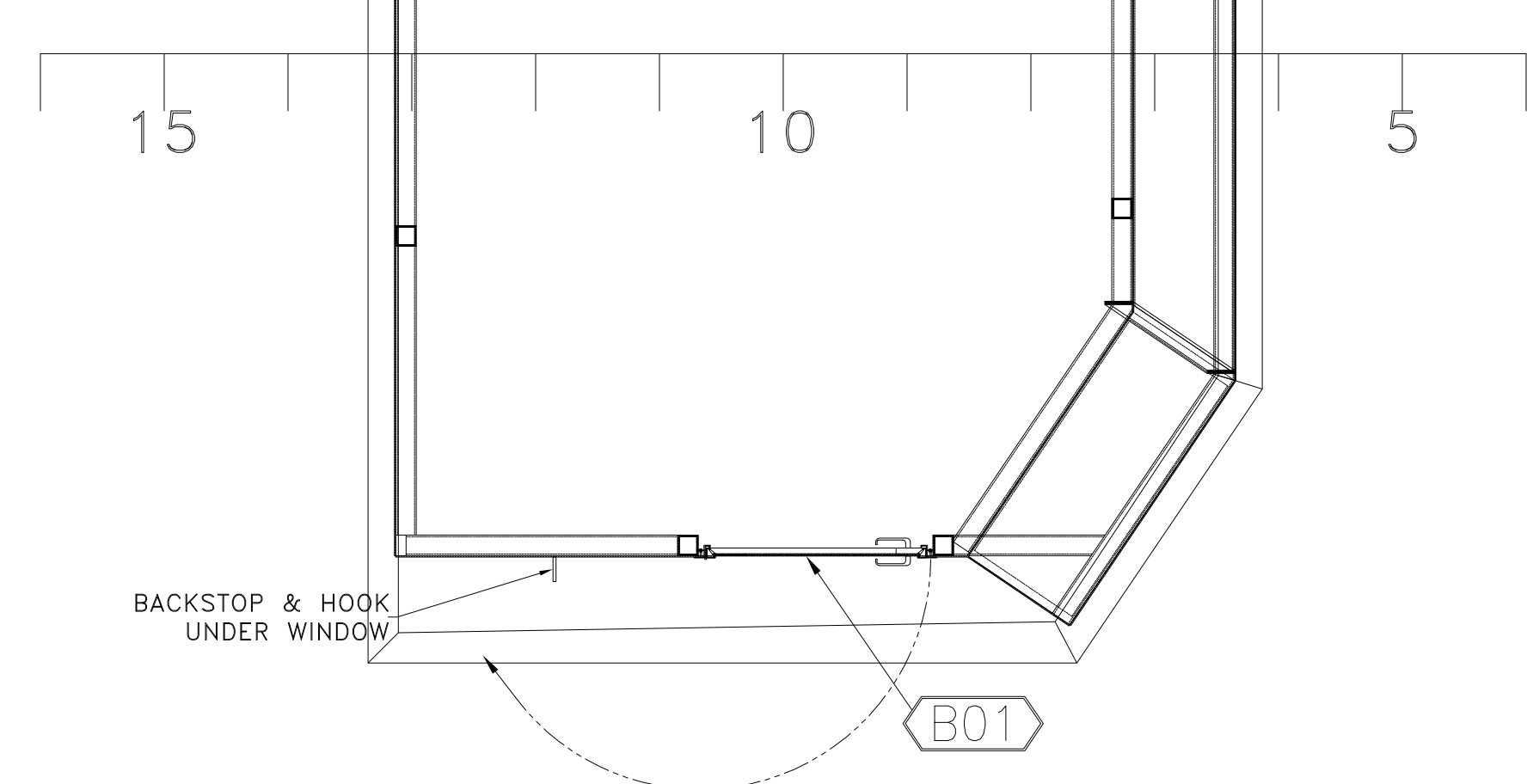
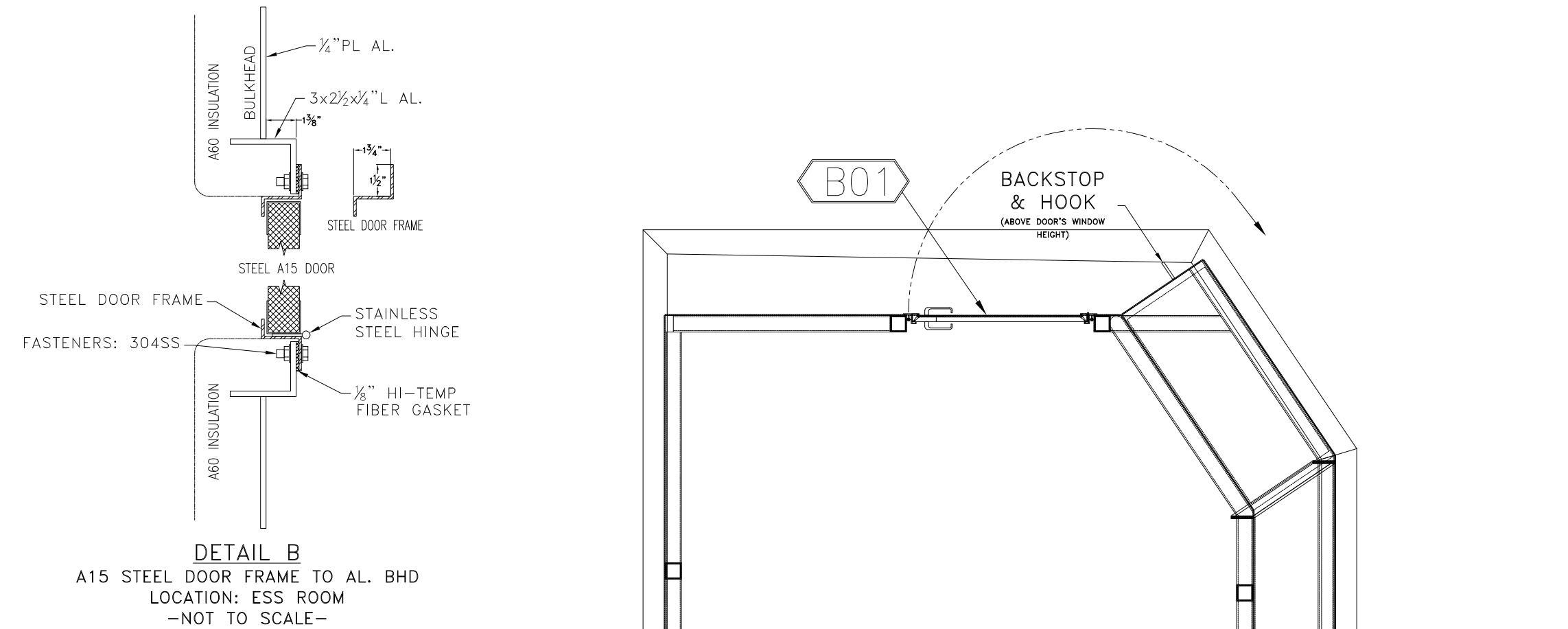


- A 18" DIAMETER LIFT-OUT AL. W/AL. WELD-IN FRAME FLUSH W.T. HATCH
- B 22"x22" LIFT-OUT AL. W/AL. WELD IN FRAME, FLUSH W.T. HATCH
- C 22"x22" HINGED AL. W/AL. WELD IN FRAME, FLUSH W.T. HATCH
- D 18"x23" RAISED ALUM. O.T. OR W.T. MULTIBOLT MH
- E 62"x42" W.T. SOFT PATCH, ALUM. PLATE

HATCH IDENTIFICATION
 ALL ACCESSES MATCH THE TIGHTNESS RATING OF THE SURFACE IN WHICH THEY ARE INSTALLED.
 ALL ACCESSES QUICK ACTING EXCEPT MANHOLE COVERS FOR TANK ACCESS, SOFT PATCHES, AND HATCHES INTENDED FOR EQUIPMENT REMOVAL OR LOADING STORES.



VERIFY METAL, GLASS DIMENSIONS, AND NUMBER OF GLASS PANELS WITH OWNER AND NAVAL ARCHITECT PRIOR TO ORDERING.



PILOTHOUSE DECK

GENERAL NOTES			ALTERATIONS			RESERVATIONS			REFERENCES		
NO.	DESCRIPTION	NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION
1.	STARBOARD SECTIONS SHOWN. ALL PORT SECTIONS ARE MIRRORRED ABOUT THE CENTERLINE AXIS.	1.	GENERIC PART DESIGNATIONS	8.12.22	JS						

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 info@dejongandlebet.com

COMPARTMENT ACCESS PLAN

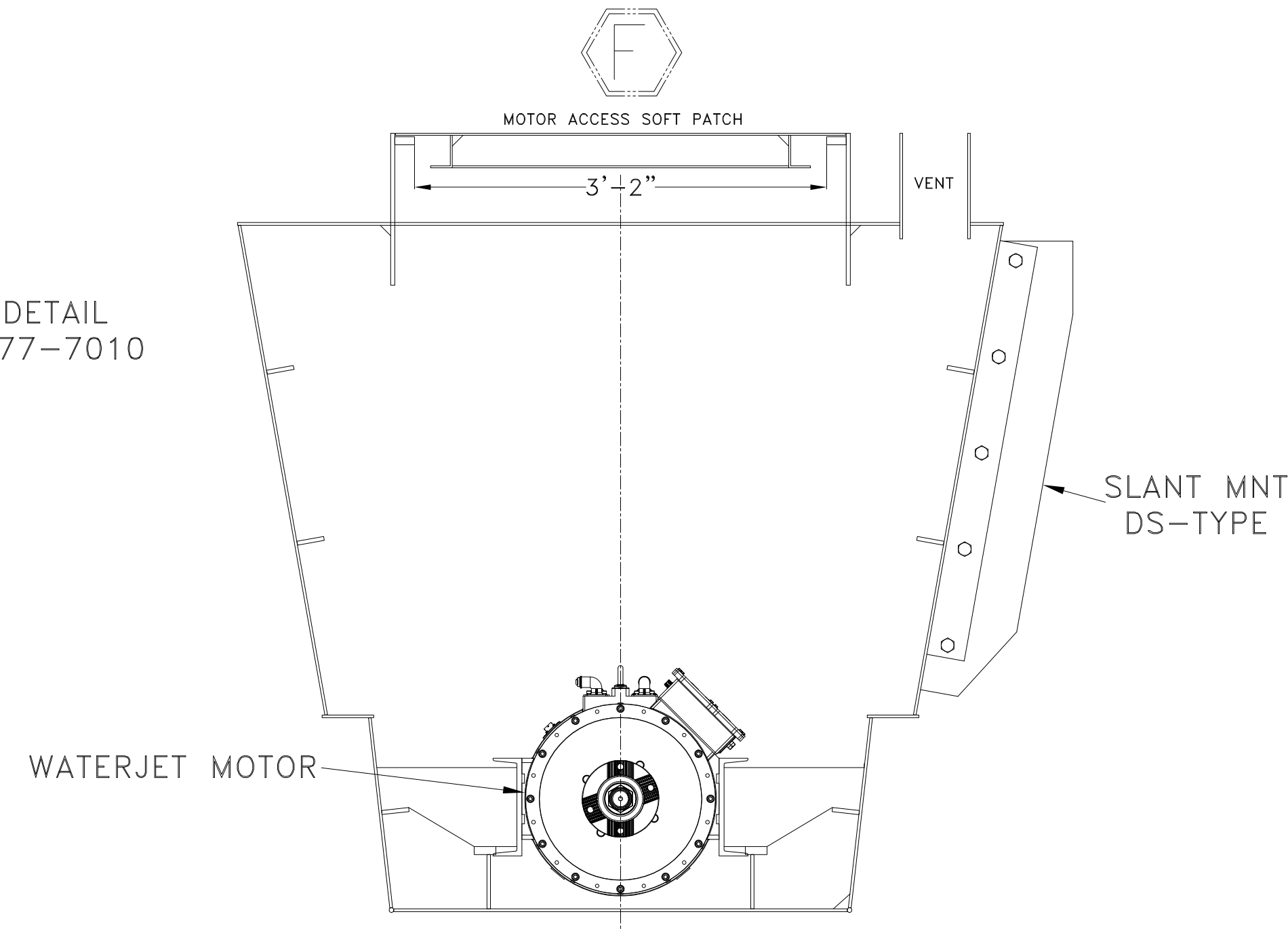
Dwg. No. 22-1477-1010 Alt. No. 1
 Sh. 1 OF 3

Date: 27 MAY 2022
 Scale: 1/2" = 1'-0"
 USCG App'l:

DRAWING SUBMITTALS

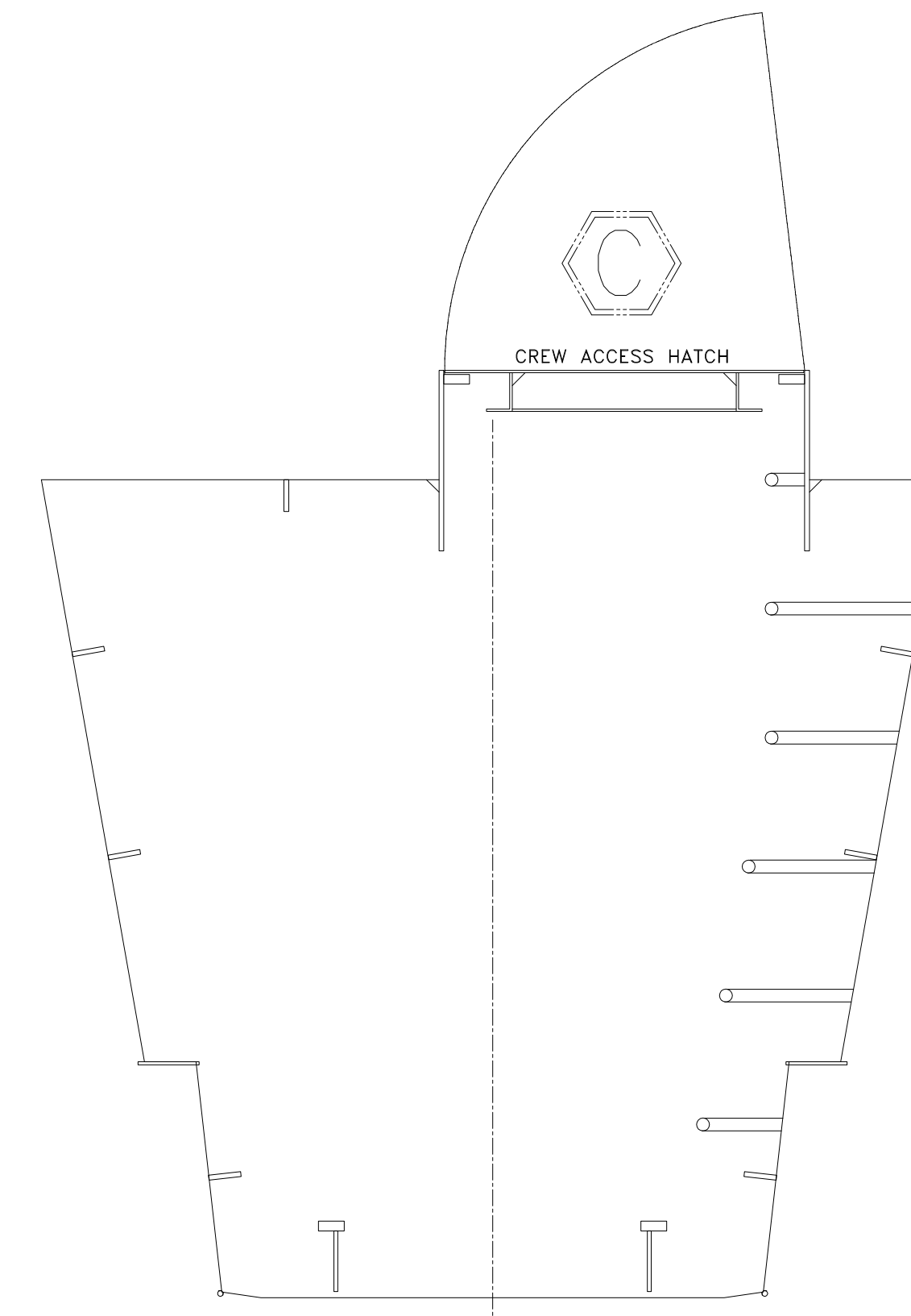
PONTOON CATAMARAN CENTERLINE

FOR VENT DETAIL
SEE DWG 1477-7010



section 40

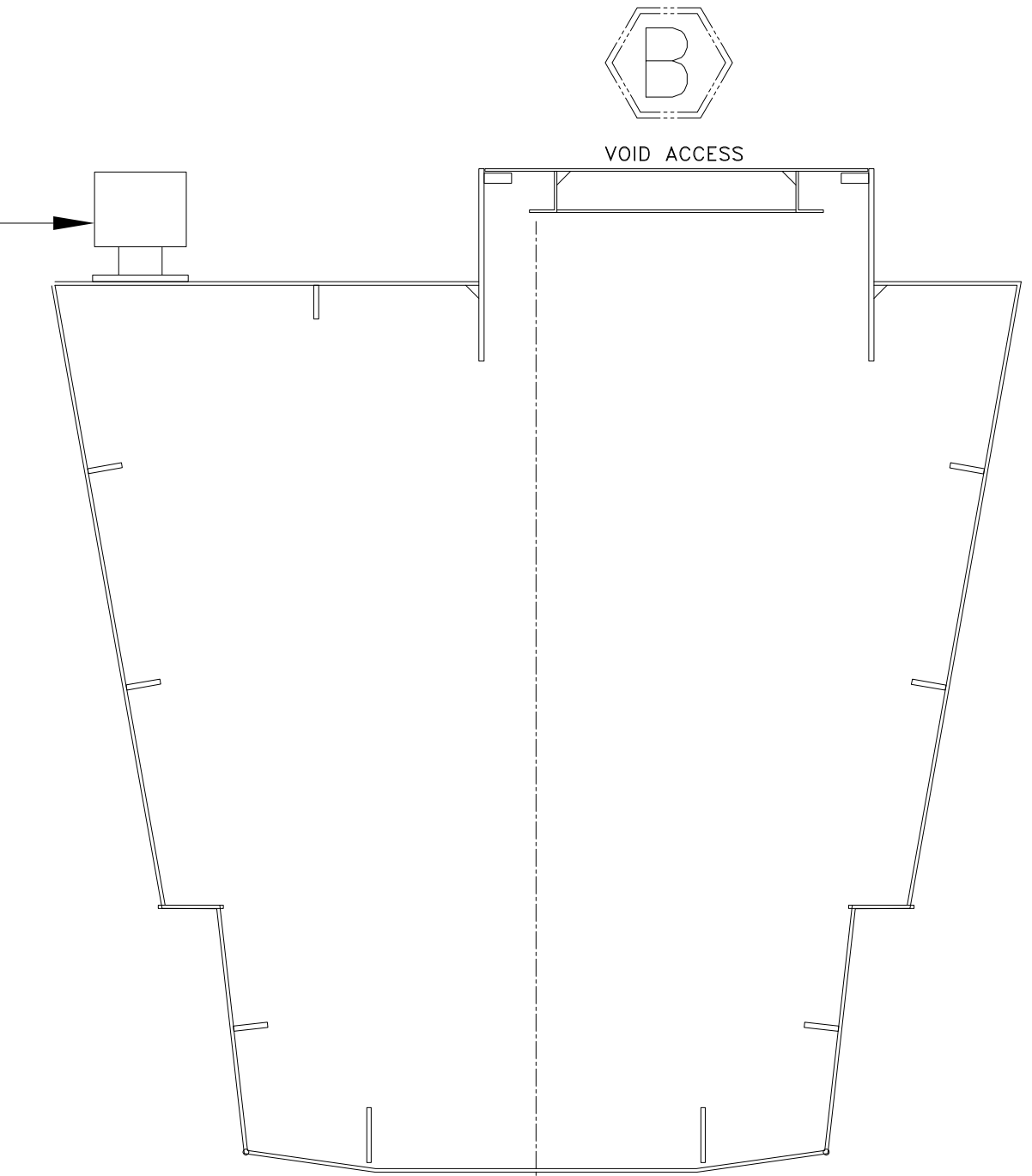
PONTOON CATAMARAN CENTERLINE



section 38

PONTOON CATAMARAN CENTERLINE

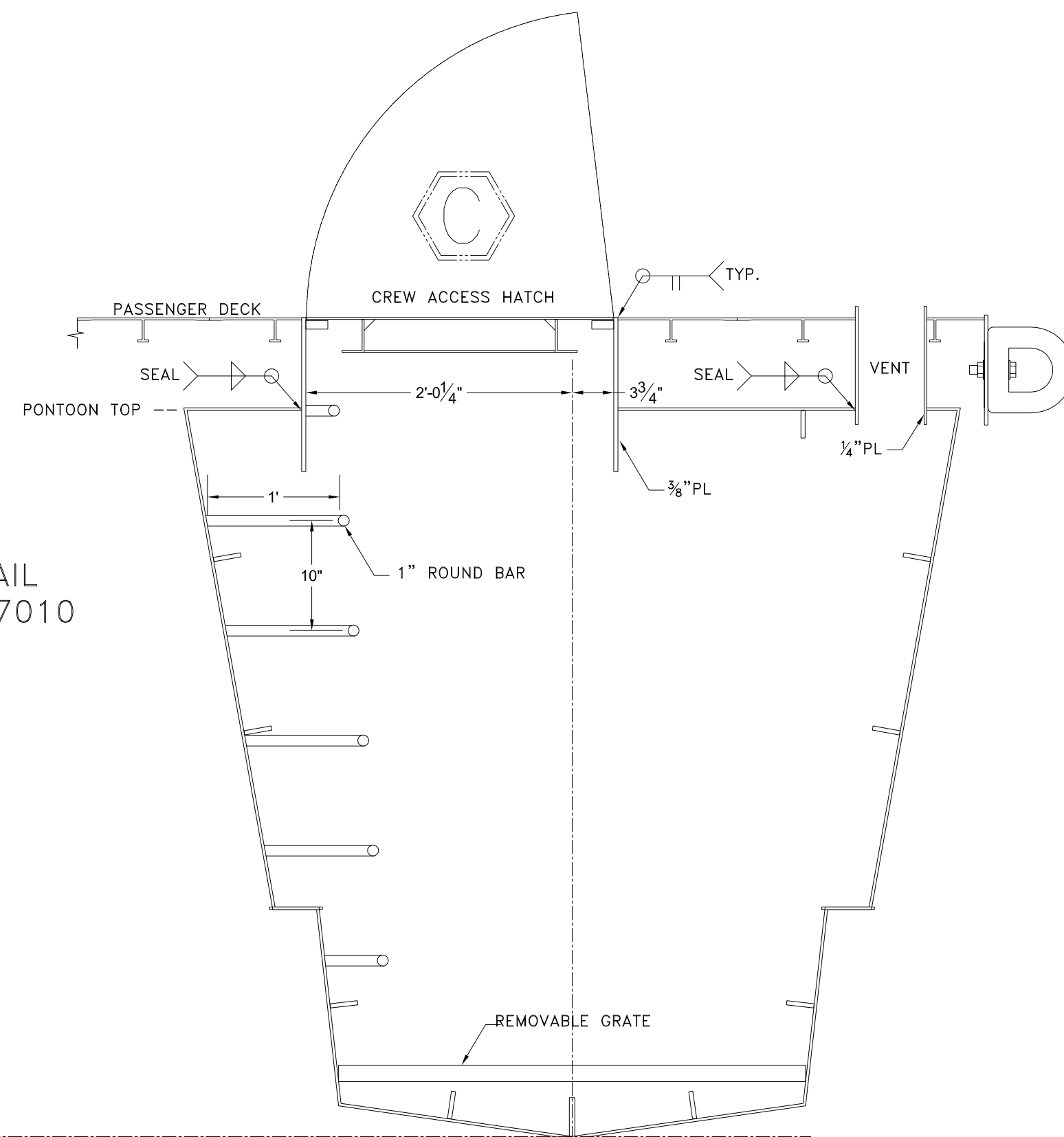
BALL VENT
FOR VENT DETAIL
SEE DWG 1477-7010



section 36

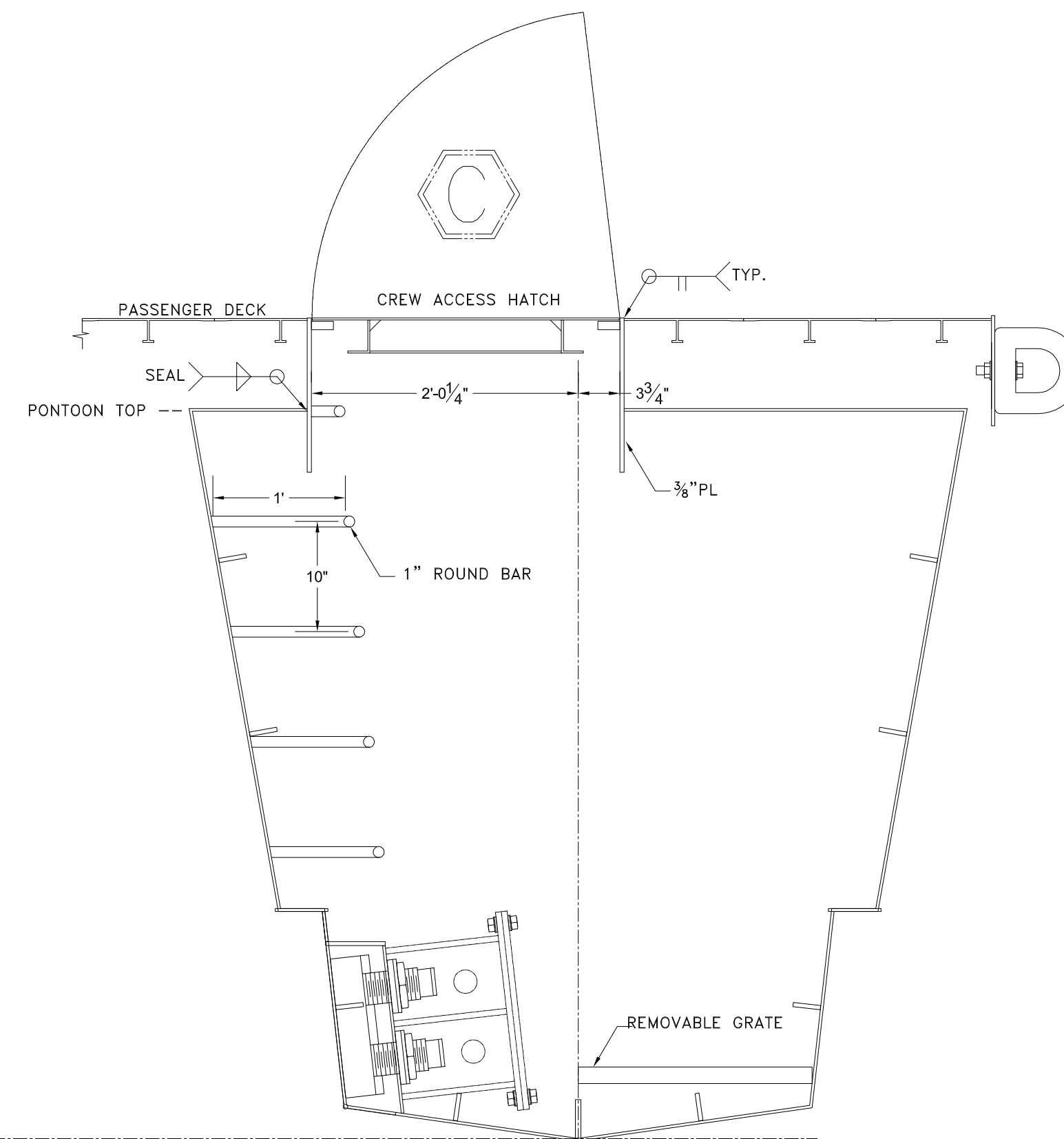
PONTOON CATAMARAN CENTERLINE

FOR VENT DETAIL
SEE DWG 1477-7010



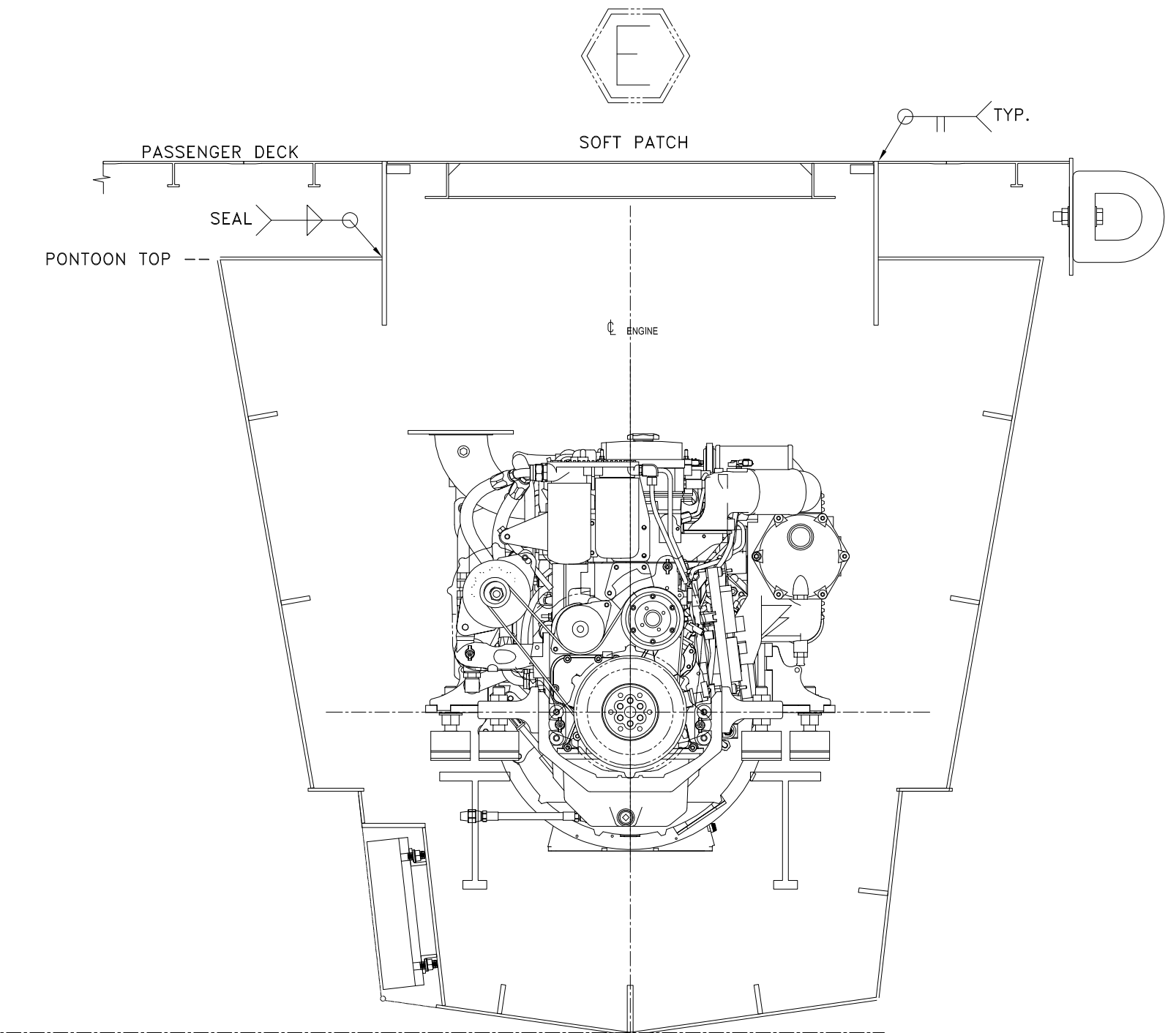
section 26

PONTOON CATAMARAN CENTERLINE



section 24

PONTOON CATAMARAN CENTERLINE



section 22

GENERAL NOTES		ALTERATIONS		RESERVATIONS		REFERENCES	
NO.	DESCRIPTION	NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION
1.	STARBOARD SECTIONS SHOWN. ALL PORT SECTIONS ARE MIRRORED ABOUT THE CENTERLINE AXIS.						

NO.	DATE	DESCRIPTION	BY
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2			
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0	5/8.4.22/TS		
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 info@dejongandlebet.com

Title: 65' PASSENGER FERRY (DIESEL-ELECT HYBRID)
COMPARTMENT ACCESS PLAN
 Dwg. No. 22-1477-1010 Alt. No. 0
 SH. 2 OF 3
 Drawn By: BRIAN BOUDREAU Date: 27 MAY 2022
 Checked By: _____ Scale: 1/2" = 1'-0"
 App'd By: _____ USCG App'l: _____
 ABS App'l: _____

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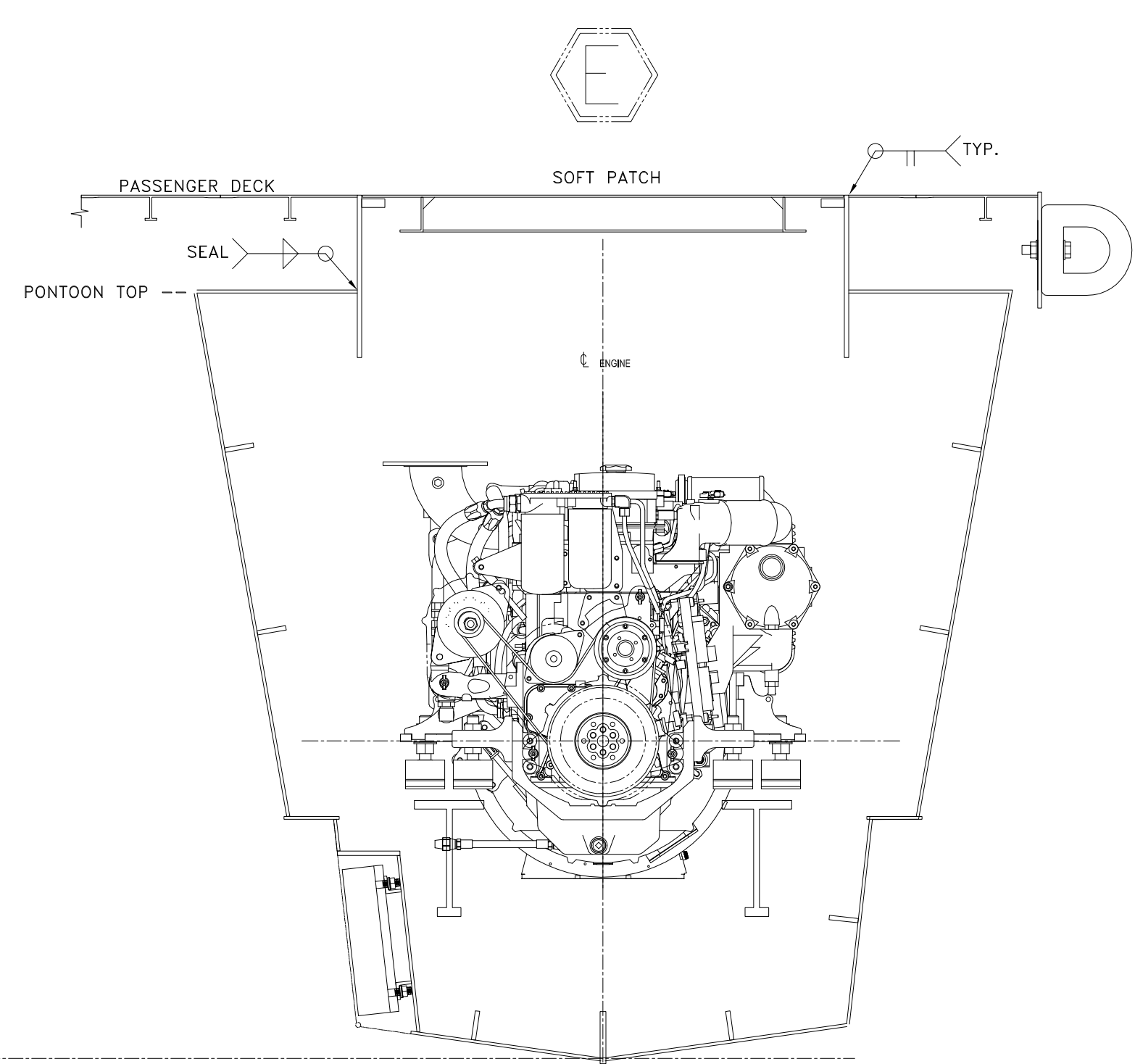
3

2

1

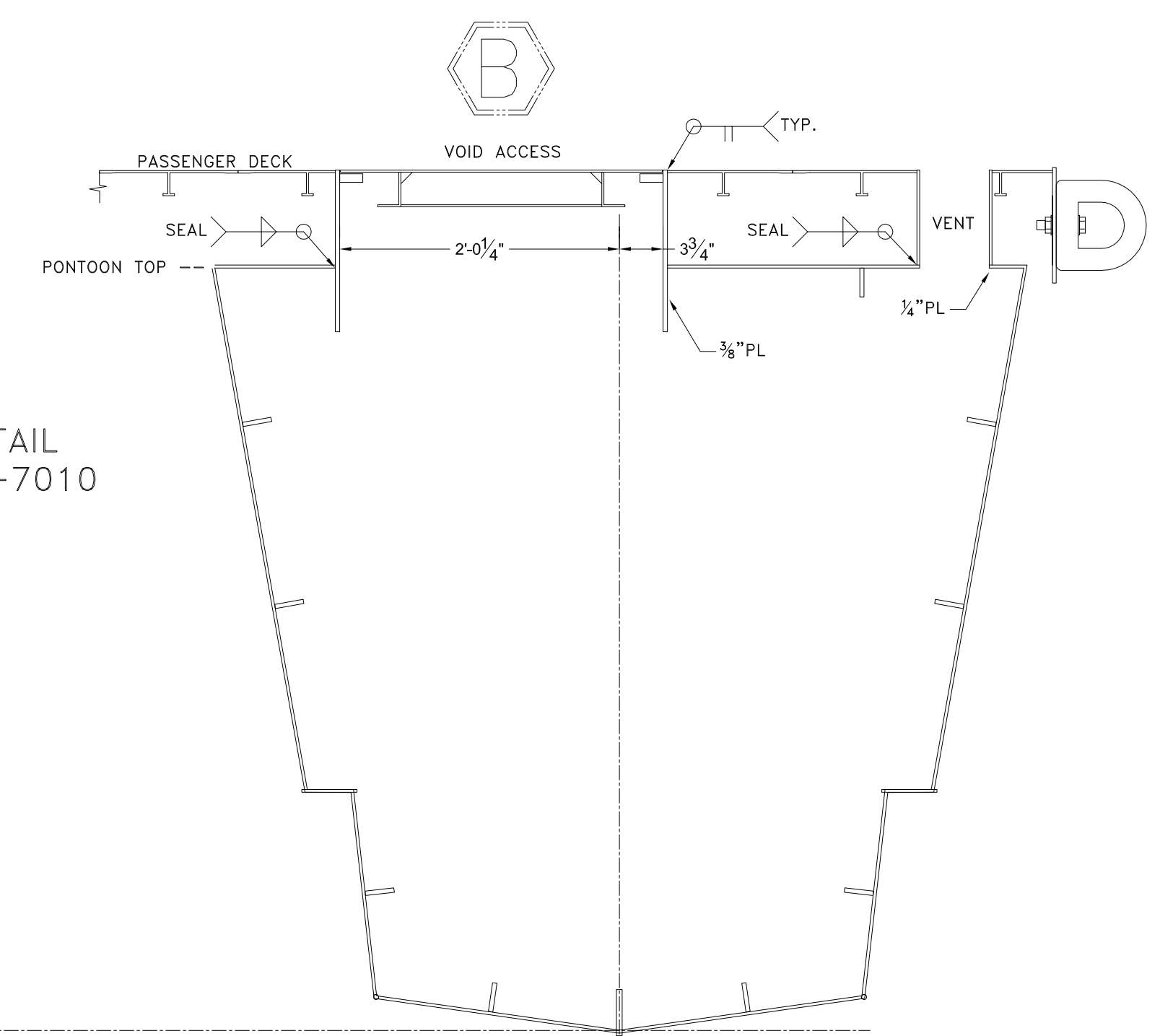
ANSI-E (34"x44")

PONTOON CATAMARAN CENTERLINE



section 20

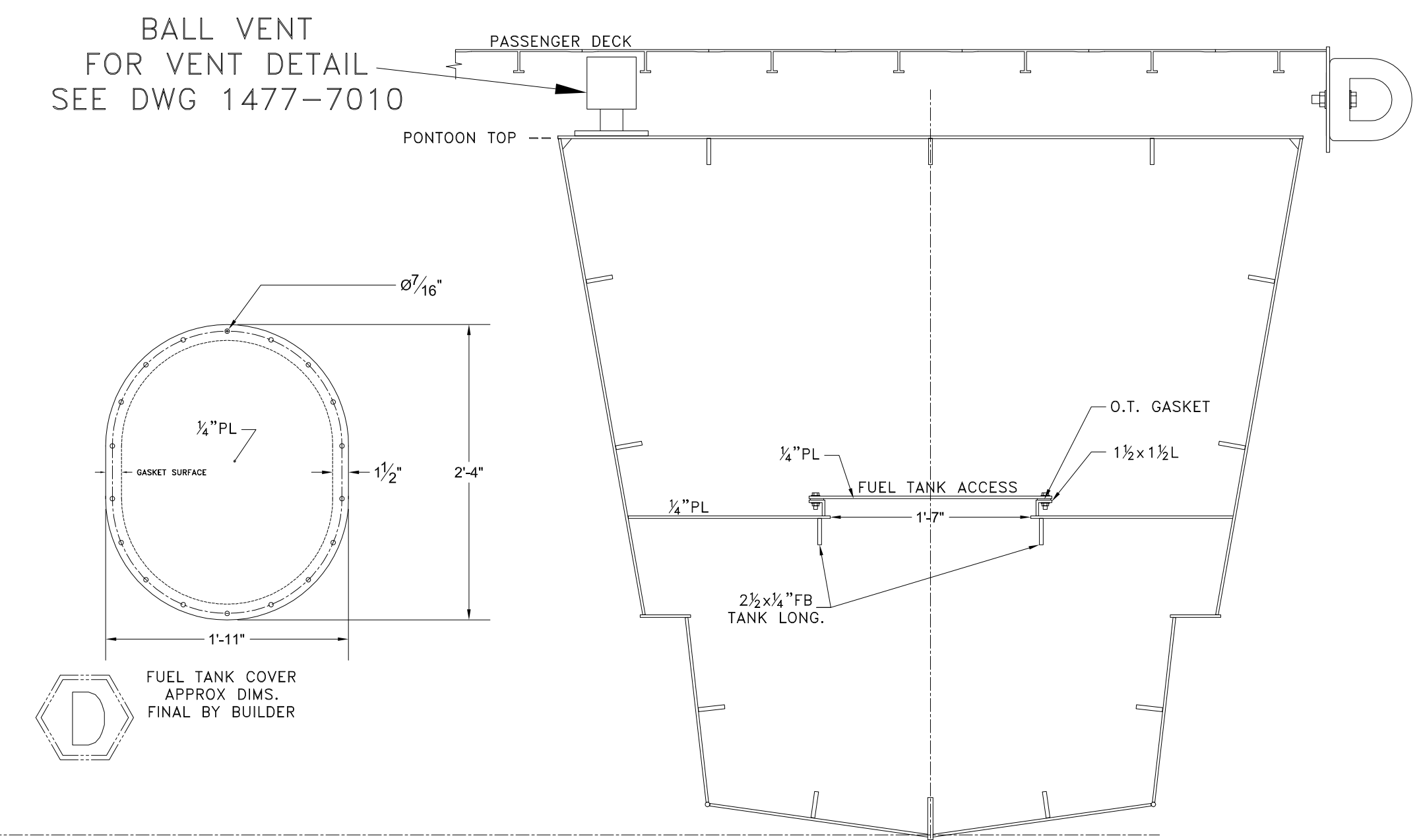
PONTOON CATAMARAN CENTERLINE



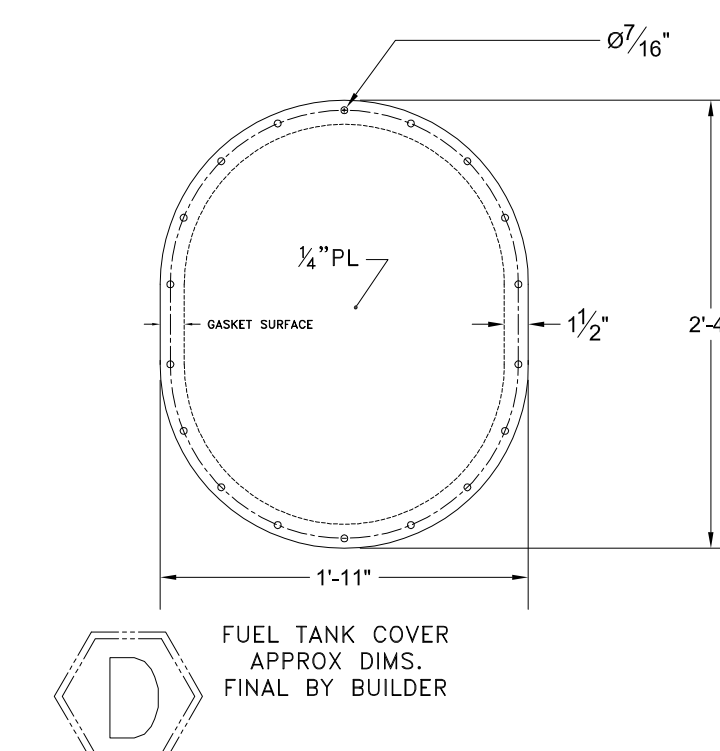
FOR VENT DETAIL
SEE DWG 1477-7010

section 18

PONTOON CATAMARAN CENTERLINE



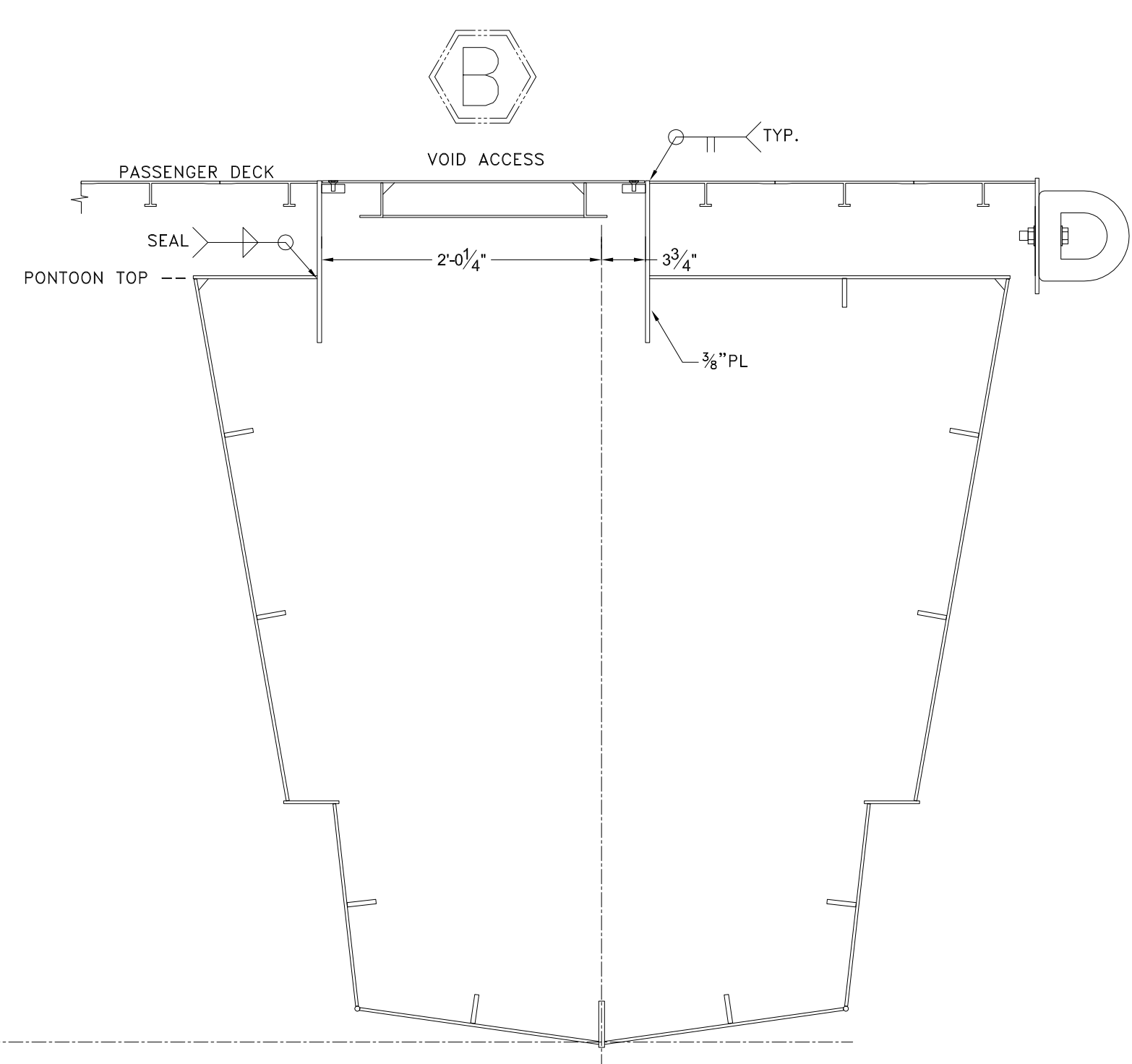
BALL VENT
FOR VENT DETAIL
SEE DWG 1477-7010



FOR OTHER FUEL TANK TOP
PENETRATION DETAIL
SEE DWG 1477-4055

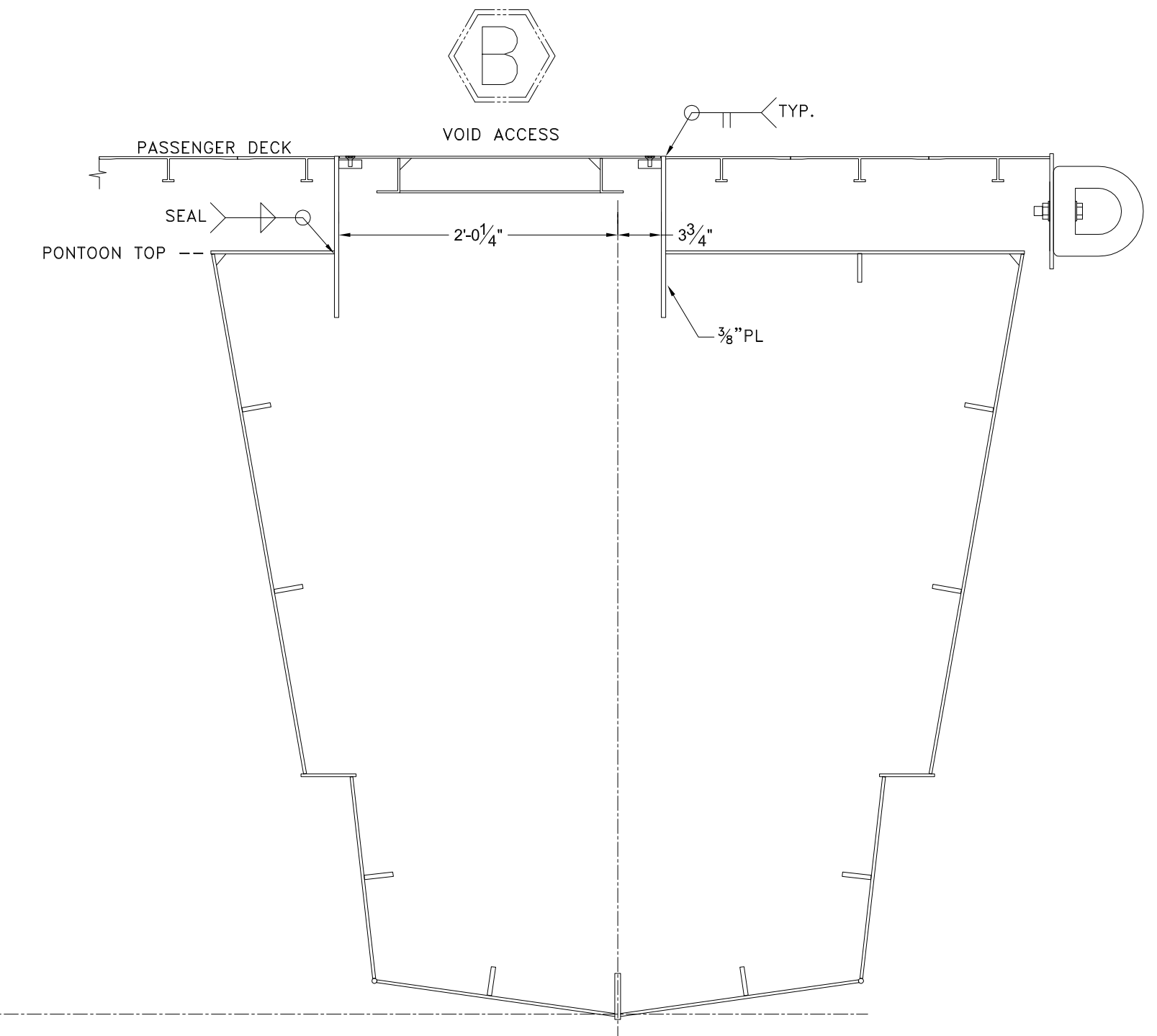
section 14

PONTOON CATAMARAN CENTERLINE



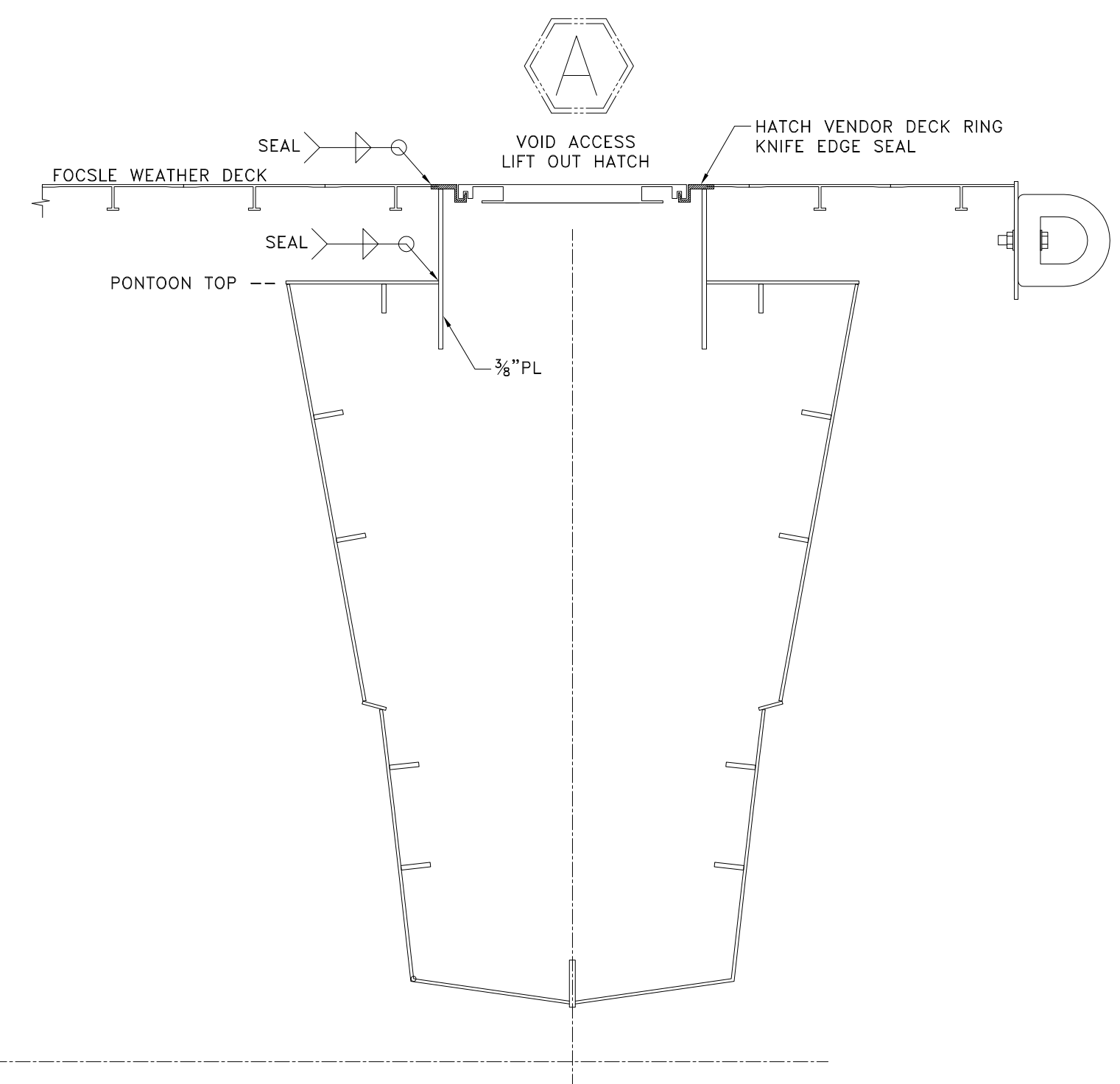
section 12

PONTOON CATAMARAN CENTERLINE



section 10

PONTOON CATAMARAN CENTERLINE



section 4

- GENERAL NOTES -

NO.	DESCRIPTION
1.	STARBOARD SECTIONS SHOWN. ALL PORT SECTIONS ARE MIRRORRED ABOUT THE CENTERLINE AXIS.

- ALTERATIONS -

NO.	DESCRIPTION	DATE	BY	NO.

- RESERVATIONS -

NO.	DESCRIPTION

- REFERENCES -

NO.	DESCRIPTION

CODE: SUBMITTED A. APPROVED

5
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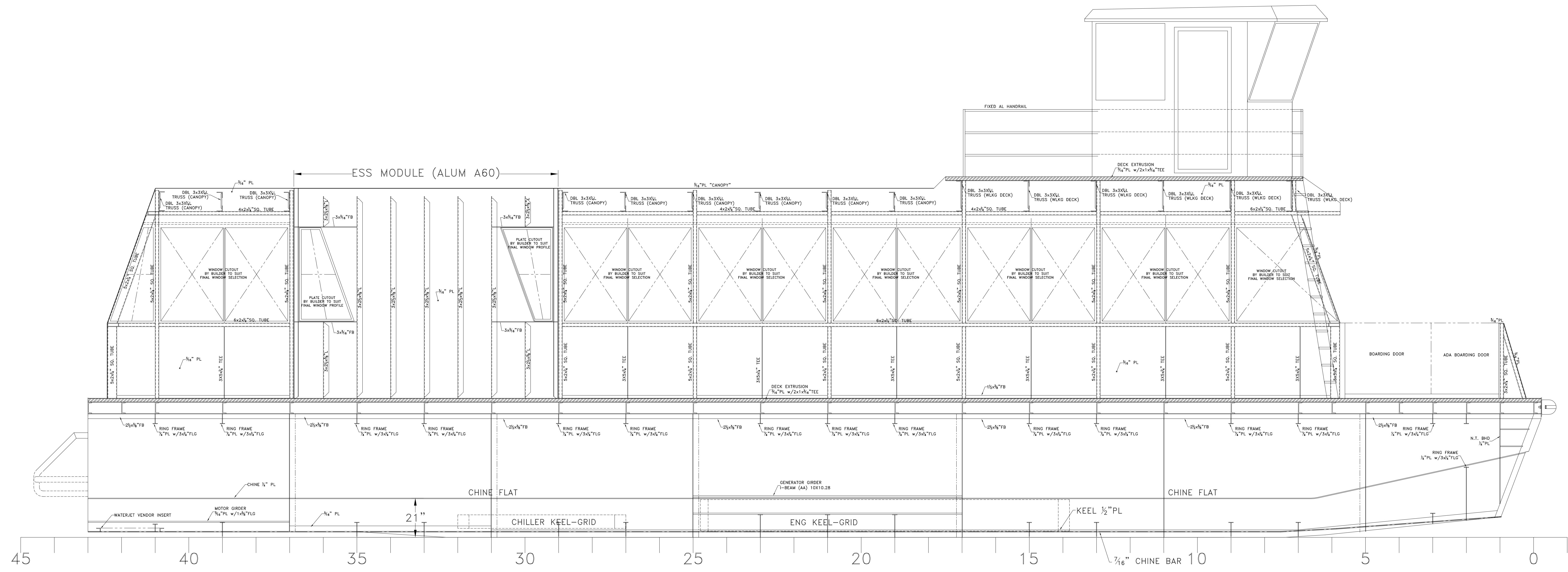
Title: **65' PASSENGER FERRY (DIESEL-ELECT HYBRID)**
COMPARTMENT ACCESS PLAN

Dwg. No. 22-1477-1010 Alt. No. 0
 Sh. 3 OF 3

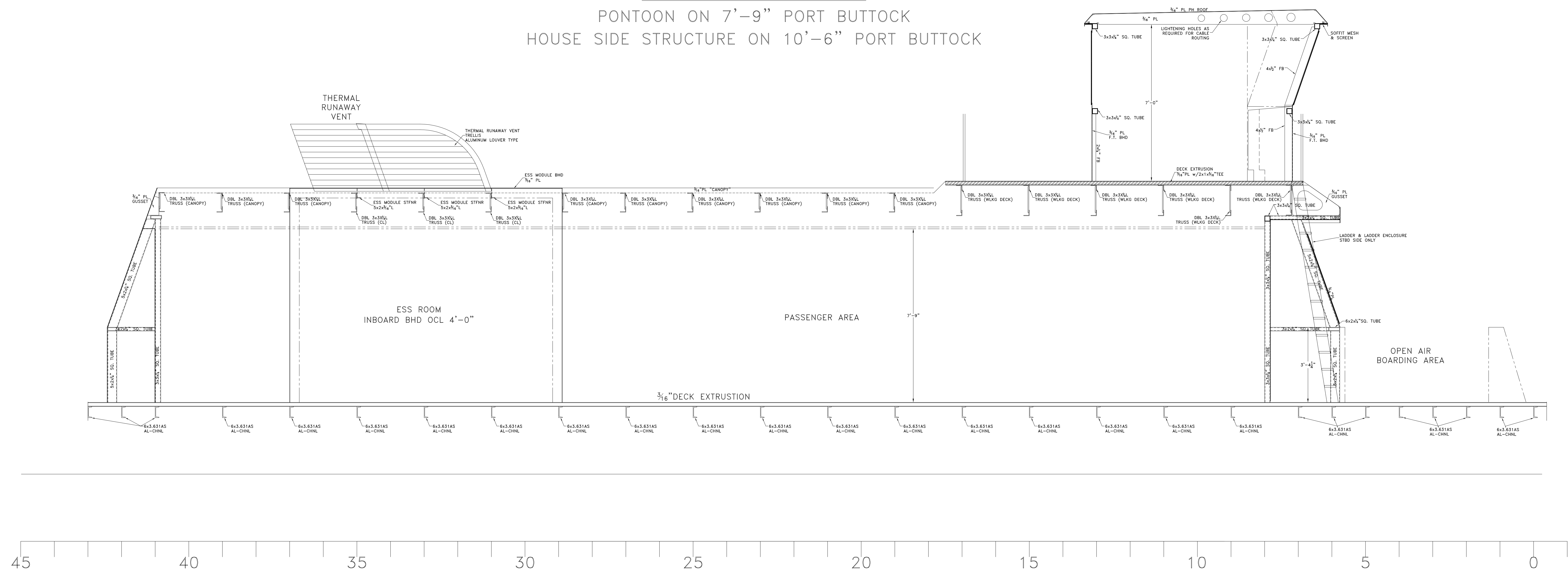
Drawn By: **BRIAN BOUDREAU** Date: **27 MAY 2022**
 Checked By: _____ Date: _____
 App'd By: _____ Scale: $\frac{1}{2}'' = 1' - 0''$
 ABS App'l: _____ USCG App'l: _____

- DRAWING SUBMITTALS -

8 7 6 5 4 3 2 1



INBOARD PROFILE
 PONTOON ON 7'-9" PORT BUTTOCK
 HOUSE SIDE STRUCTURE ON 10'-6" PORT BUTTOCK



INBOARD PROFILE ON CENTERLINE

-- GENERAL NOTES --			-- ALTERATIONS --			-- RESERVATIONS --			-- REFERENCES --		
NO.	DESCRIPTION	NO.	DESCRIPTION	DATE	BY NO.	NO.	DESCRIPTION	NO.	DESCRIPTION		

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Title: **65' PASSENGER FERRY (DIESEL-ELECT HYBRID)**
STRUCTURAL INBOARD PROFILE
 Dwg. No. 22-1477-2001 Alt. No. 0 Sh. 1 OF 1
 Drawn By: **BRIAN BOUDREAU** Date: **16 MAY 2022**
 Checked By: _____ Scale: $\frac{1}{2}" = 1'-0"$
 App'd By: _____ USCG App'l: _____
 ABS App'l: _____

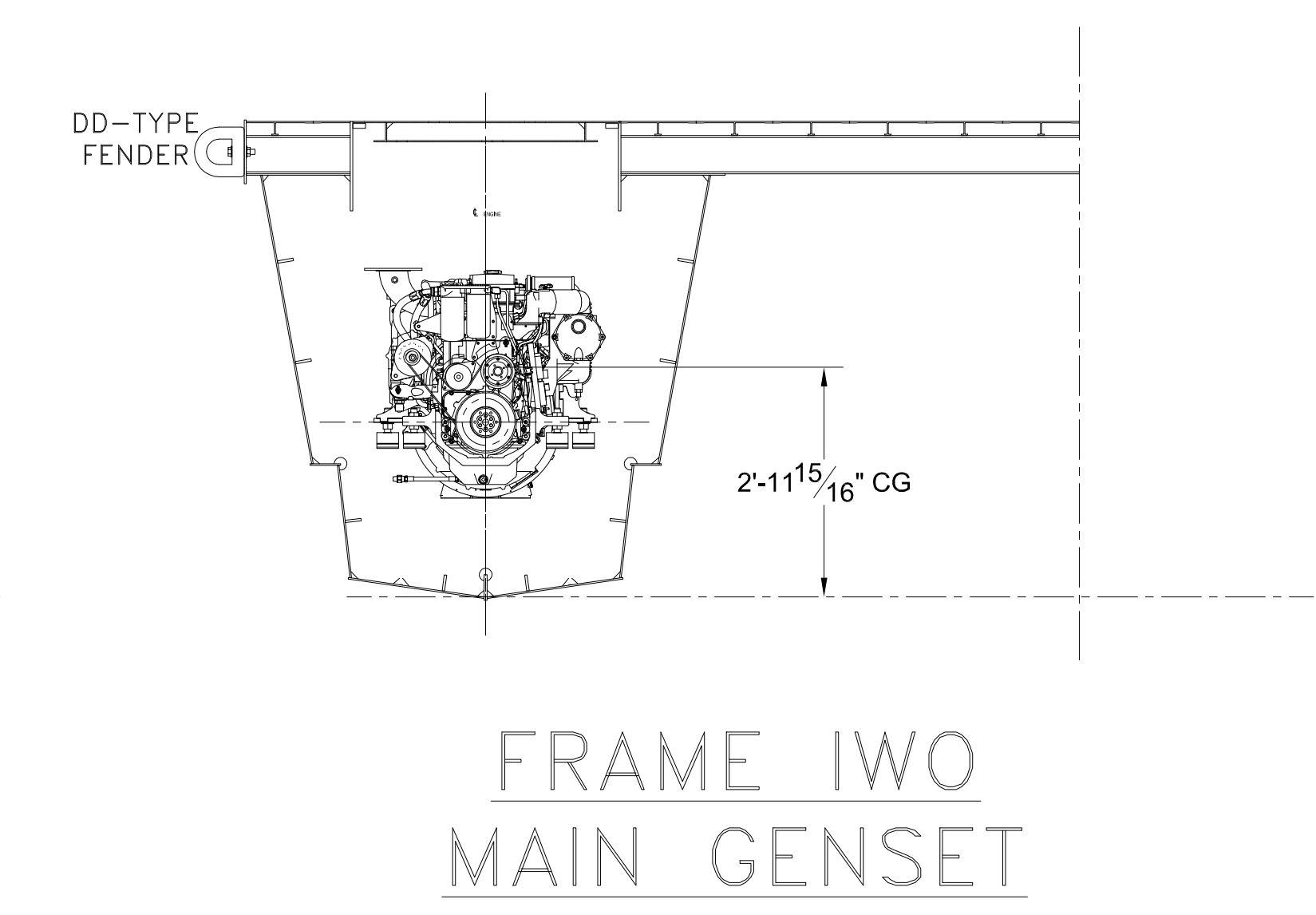
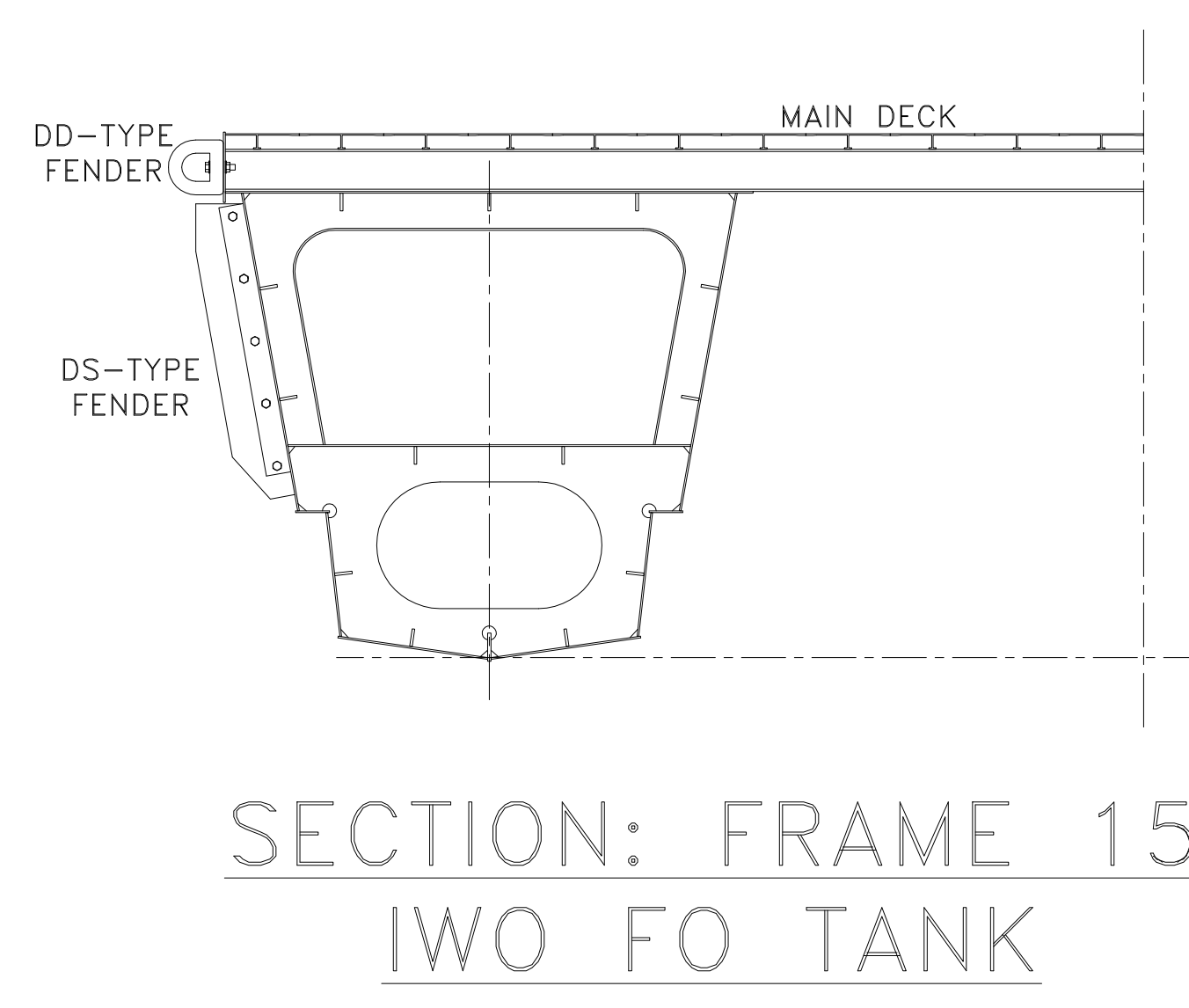
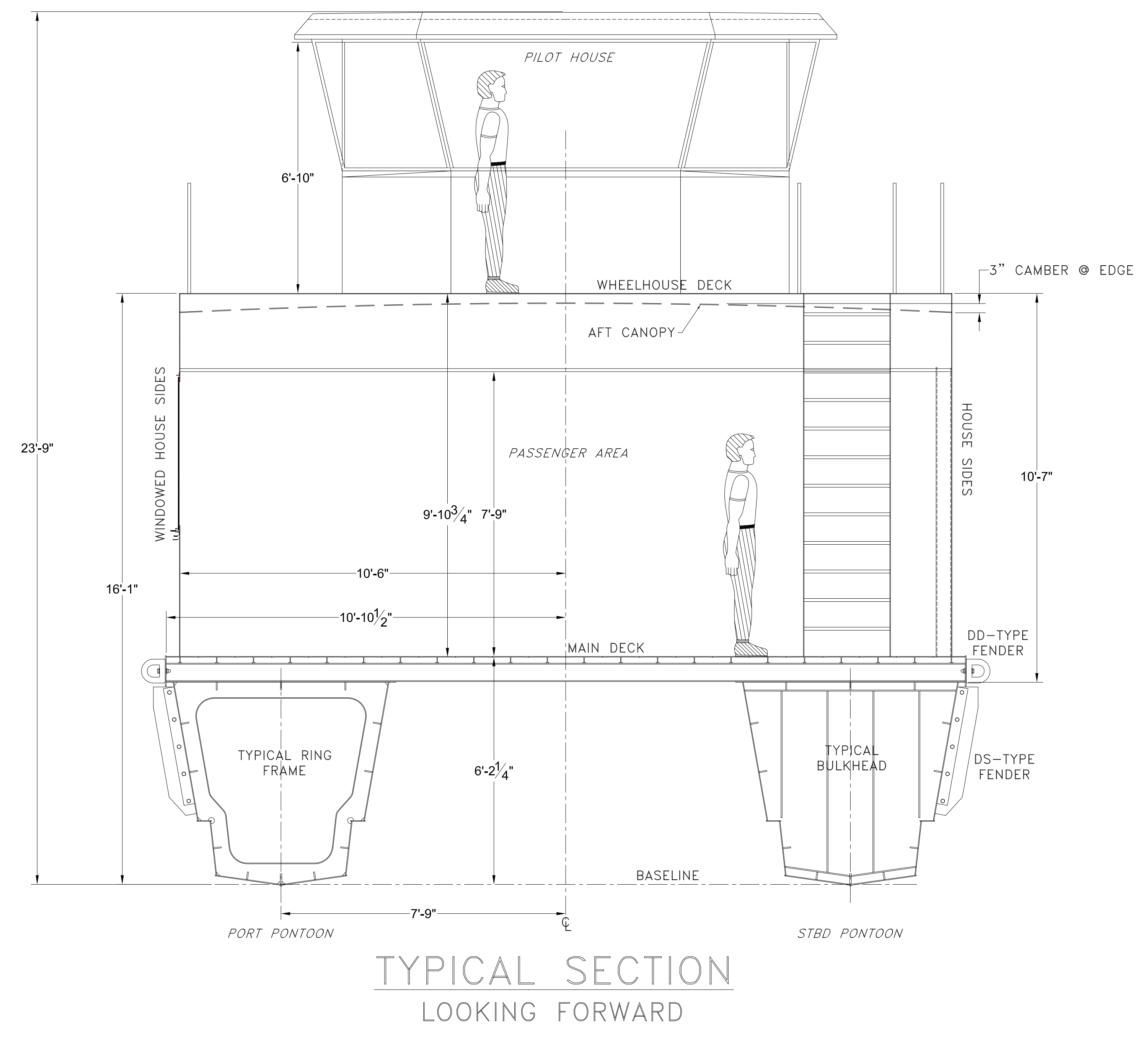
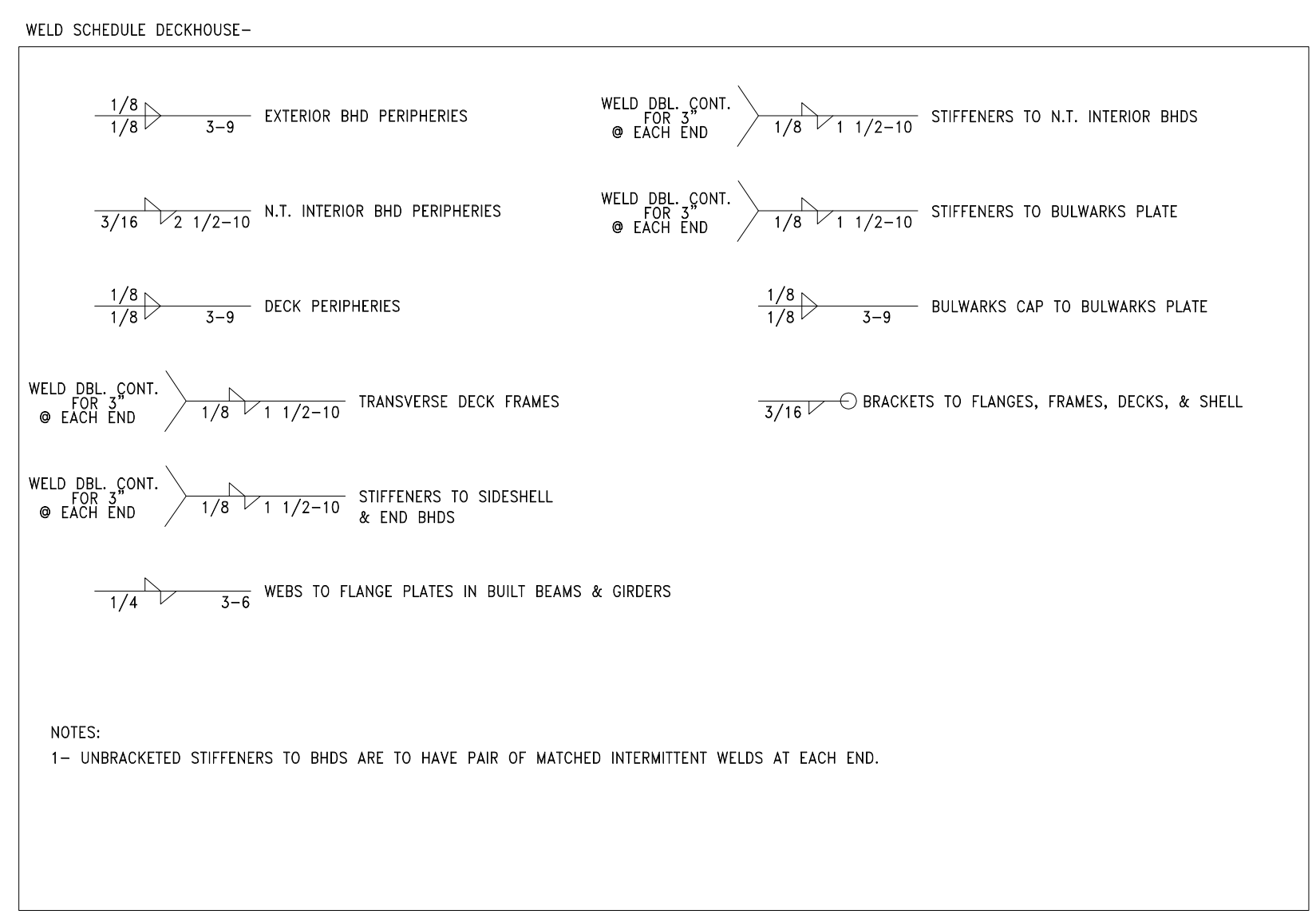
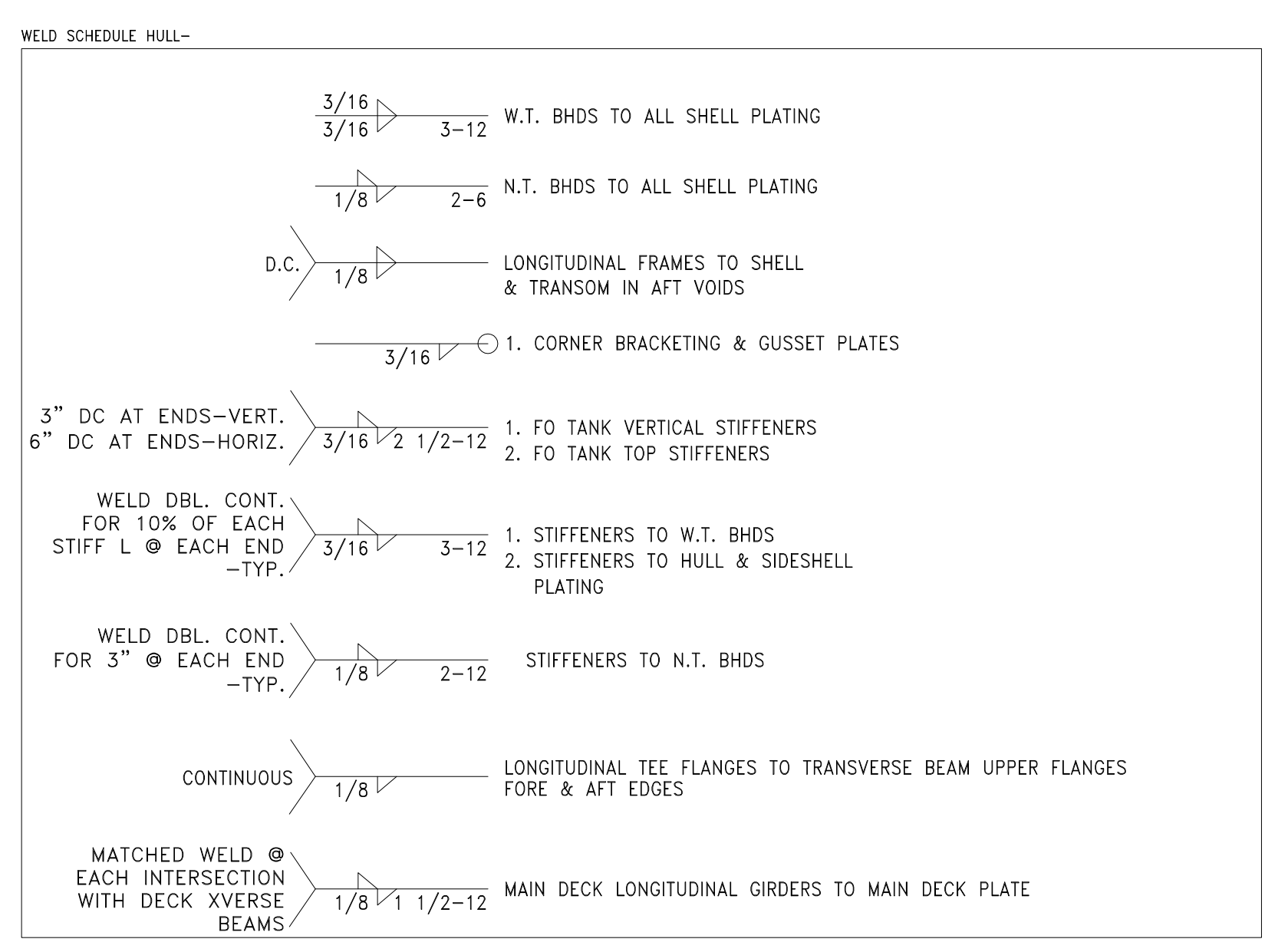
8 7 6 5 4 3 2 1 ANS-E (34"x44")

8 7 6 5 4 3 2 1

C

MATERIAL SELECTION HULL/DECKHOUSE

ALUMINUM ALLOYS:
PLATE: 5086 H116
EXTRUSIONS: 6061-T6
OR 5086 H111



A

GENERAL NOTES			ALTERATIONS			RESERVATIONS			REFERENCES		
NO.	DESCRIPTION	NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	NO.	DESCRIPTION		

NO.	DESCRIPTION	DATE	BY

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Title: 65' PASSENGER FERRY (DIESEL-ELECT HYBRID)

STRUCTURAL TYPICAL SECTION

Dwg. No. 22-1477-2000 Alt. No. 0 SH. 1 OF 1

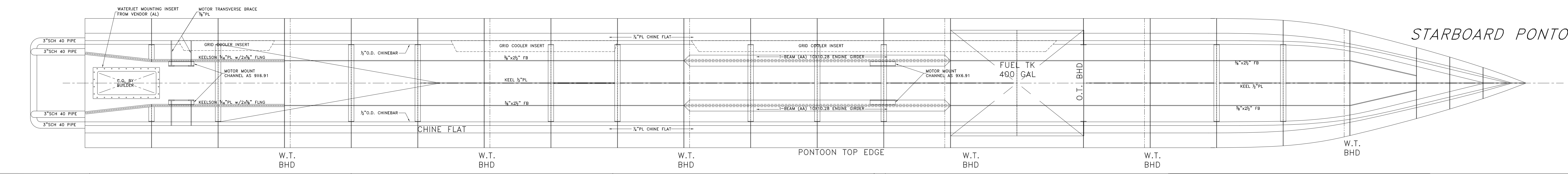
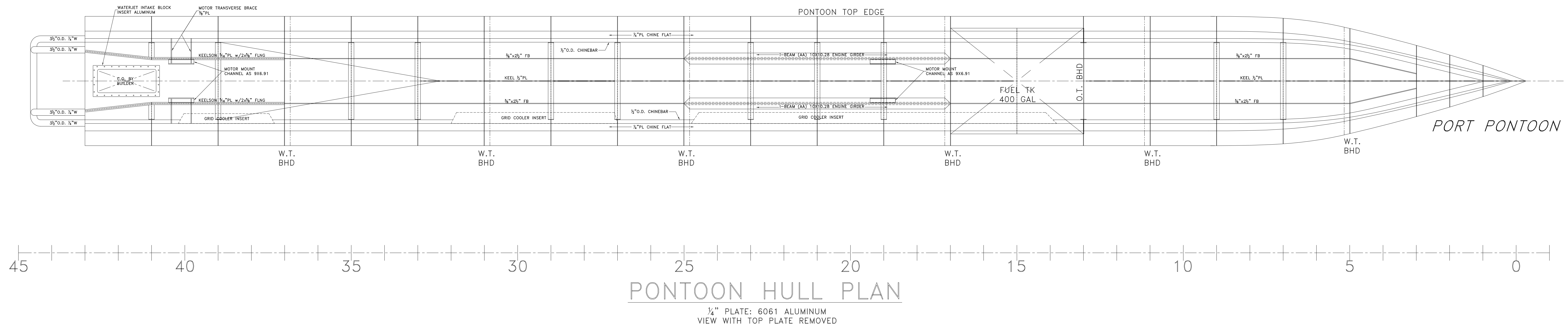
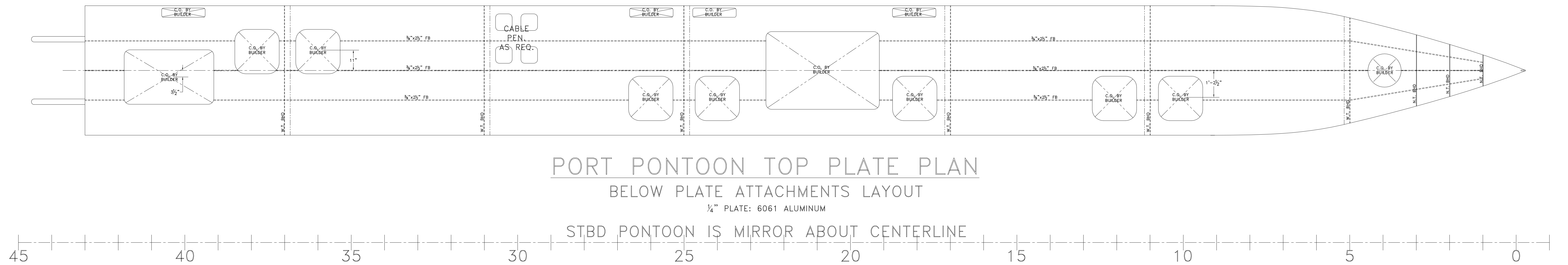
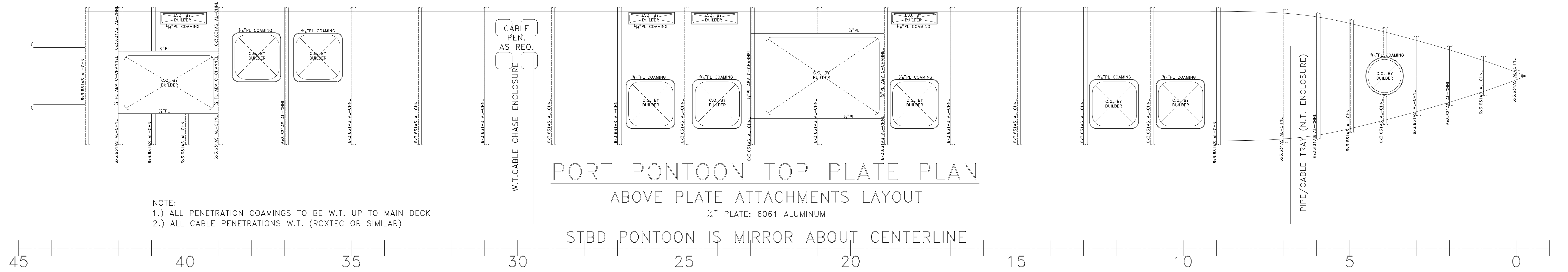
Drawn By: BRIAN BOUDREAU Date: 09 JUN 2022

Checked By: _____ Date: _____

App'd By: _____ Scale: 1/2" = 1'-0"

ABS App'l: _____ USCG App'l: _____

8 7 6 5 4 3 2 1 ANSI-E (34"x44")



GENERAL NOTES			ALTERATIONS			RESERVATIONS			REFERENCES		
NO.	DESCRIPTION	NO.	DESCRIPTION	DATE BY NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION		

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65' PASSENGER FERRY (DIESEL-ELECT HYBRID)
PONTOON PLAN

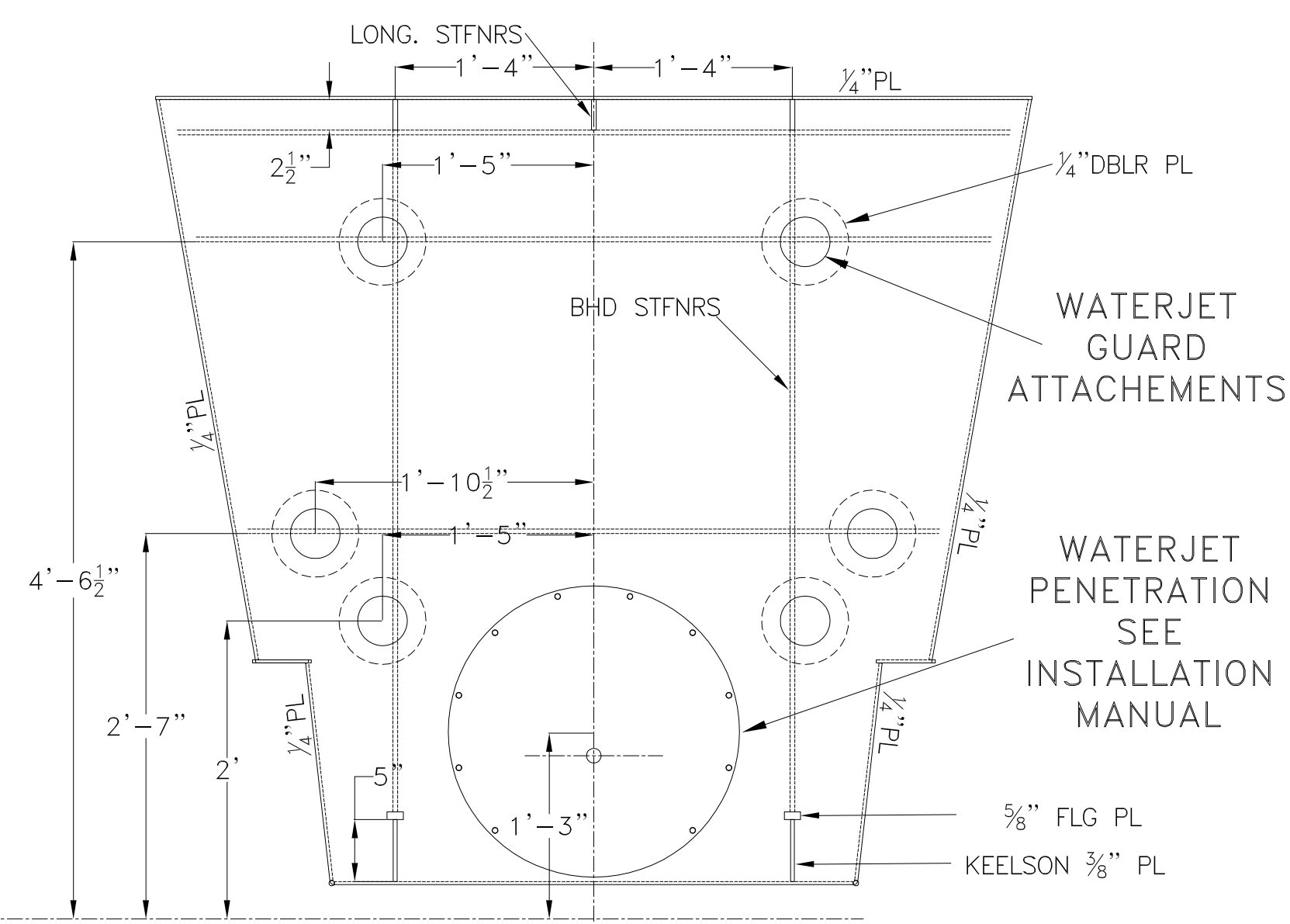
Dwg. No. 22-1477-2003 Alt. No. 0 Sm. 1 OF 1

Drawn By: **BRIAN BOUDREAU** Date: **9 JUNE 2022**
 Checked By: _____ Date: _____
 App'd By: _____ Scale: 1/2" = 1'-0"
 ABS App'l: _____ USCG App'l: _____

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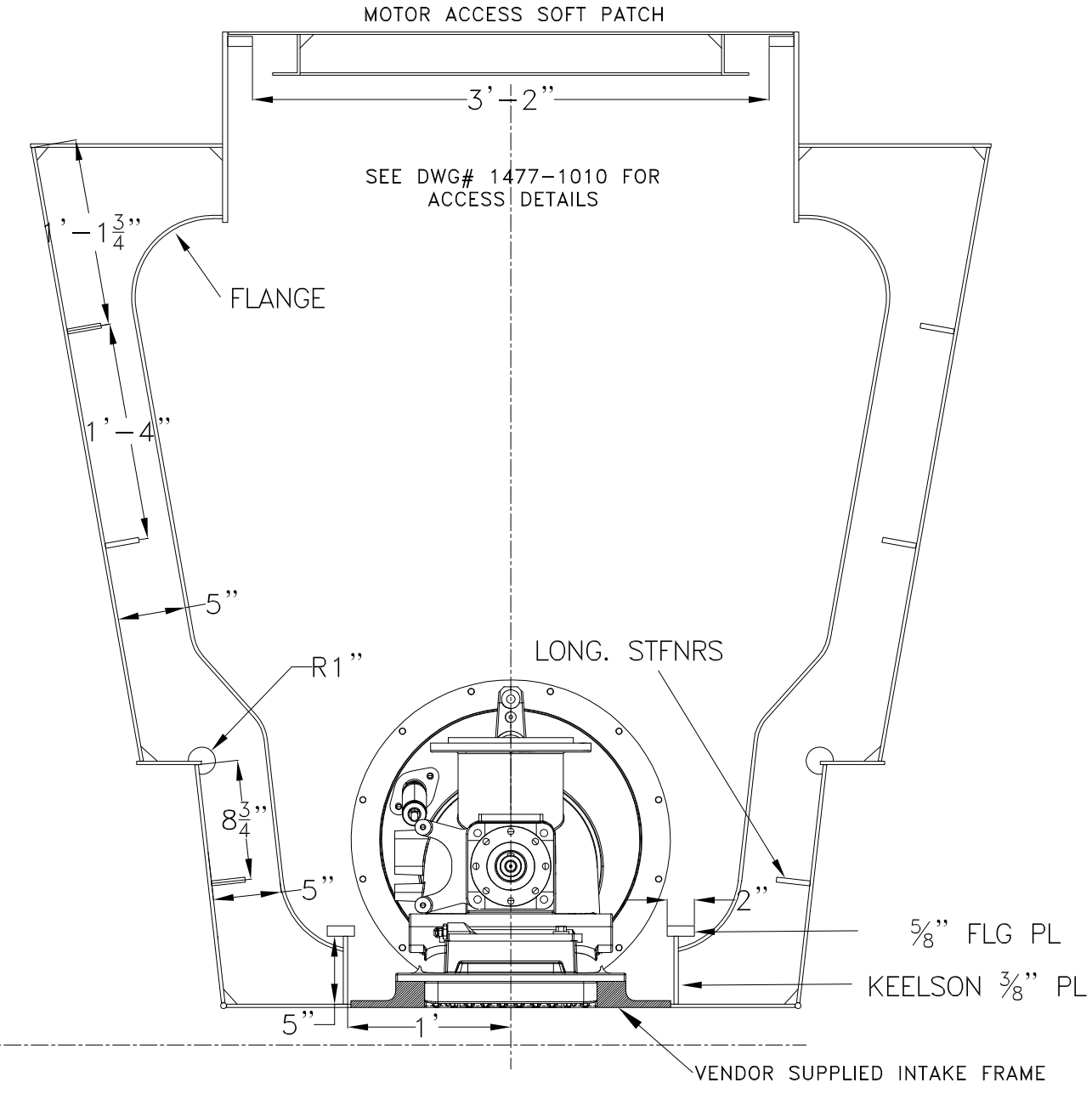
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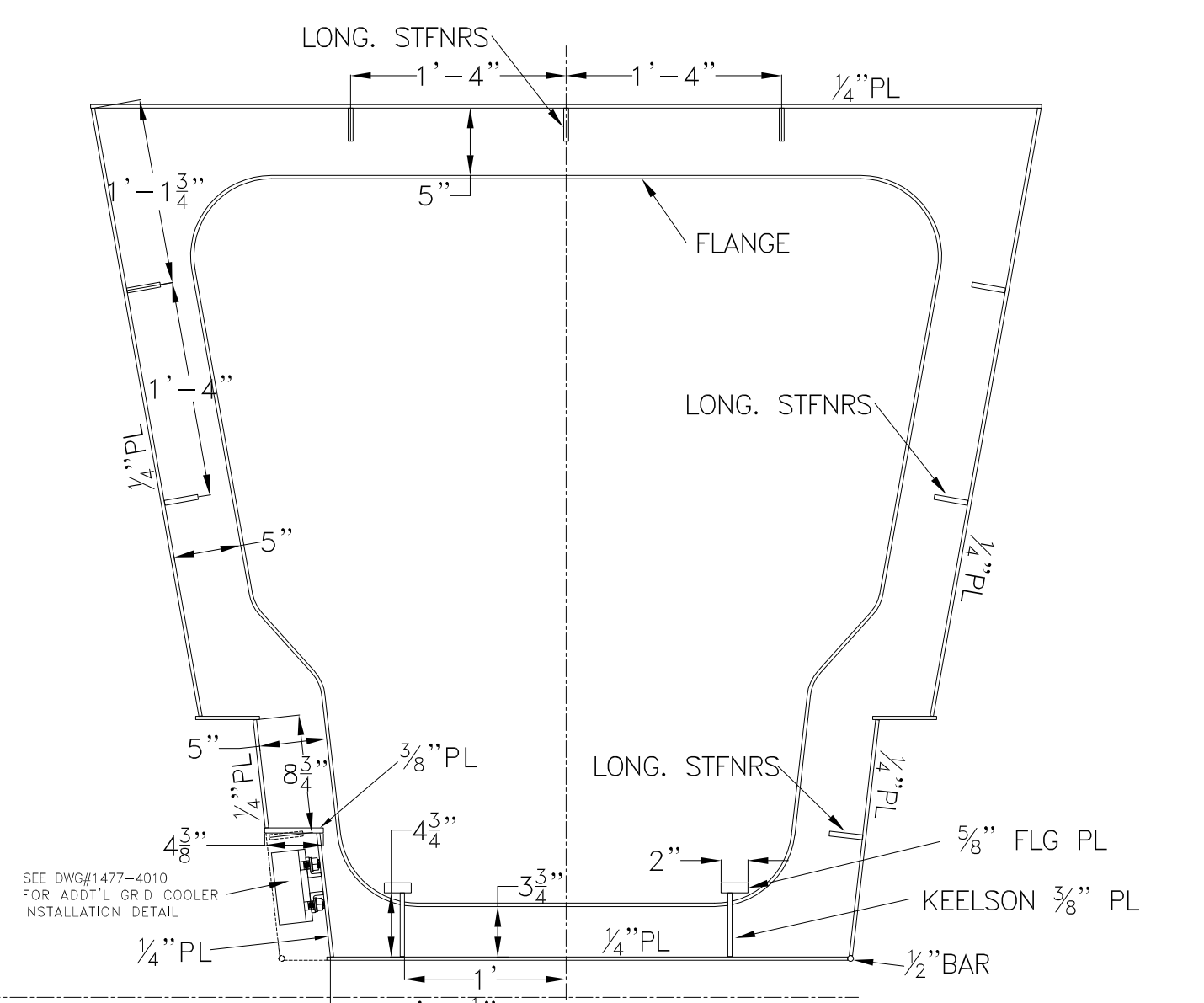
PONTOON TRANSOM

1/4" PL,
FLANGE: 3 x 1/4" FB
LONG. STIFFENERS: 2 1/2 x 3/8" FB
BHD STFNRS: 3 x 3/8" FB



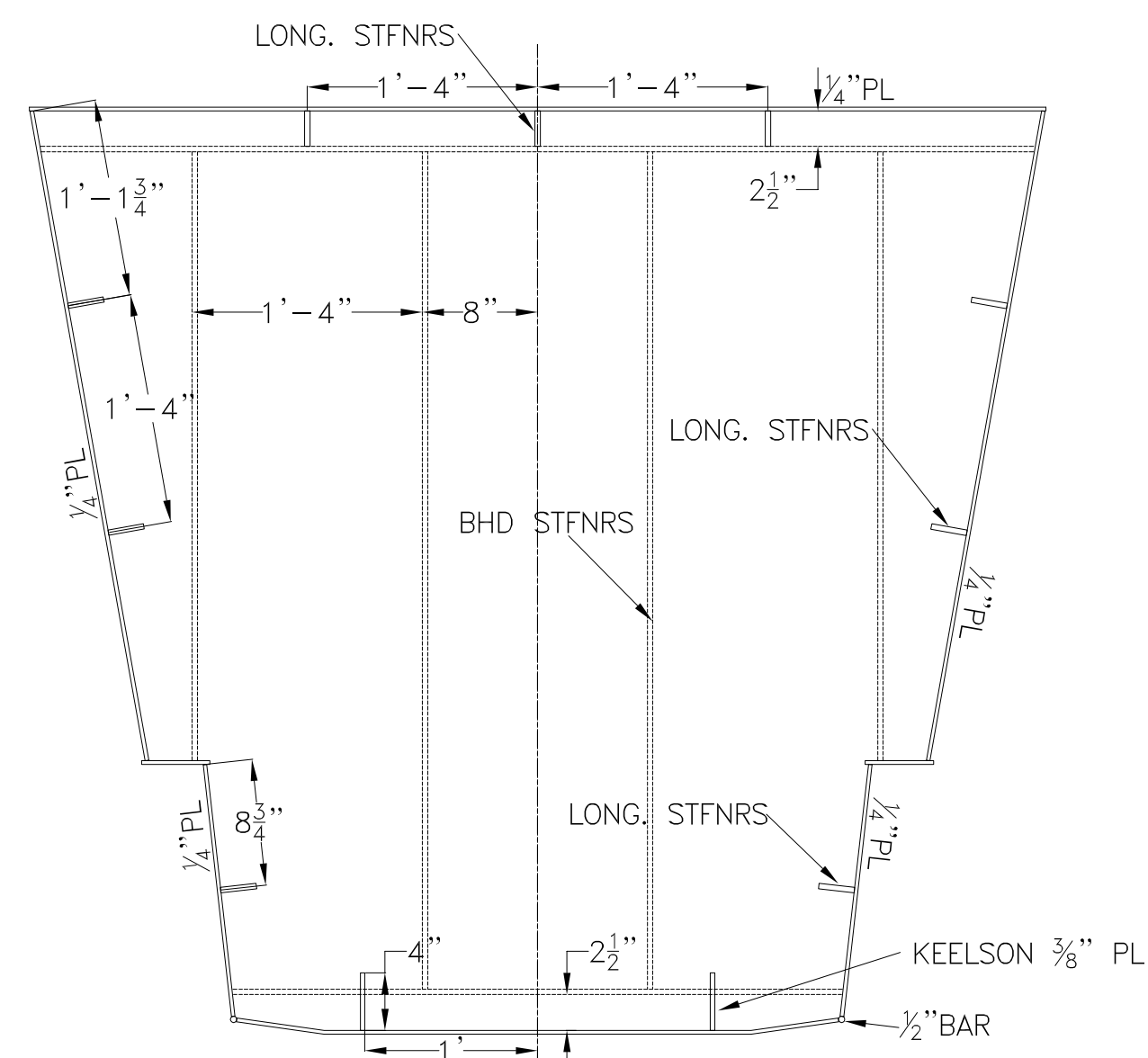
FRAME 41

1/4" PL,
FLANGE: 3 x 1/4" FB
LONG. STIFFENERS: 2 1/2 x 3/8" FB



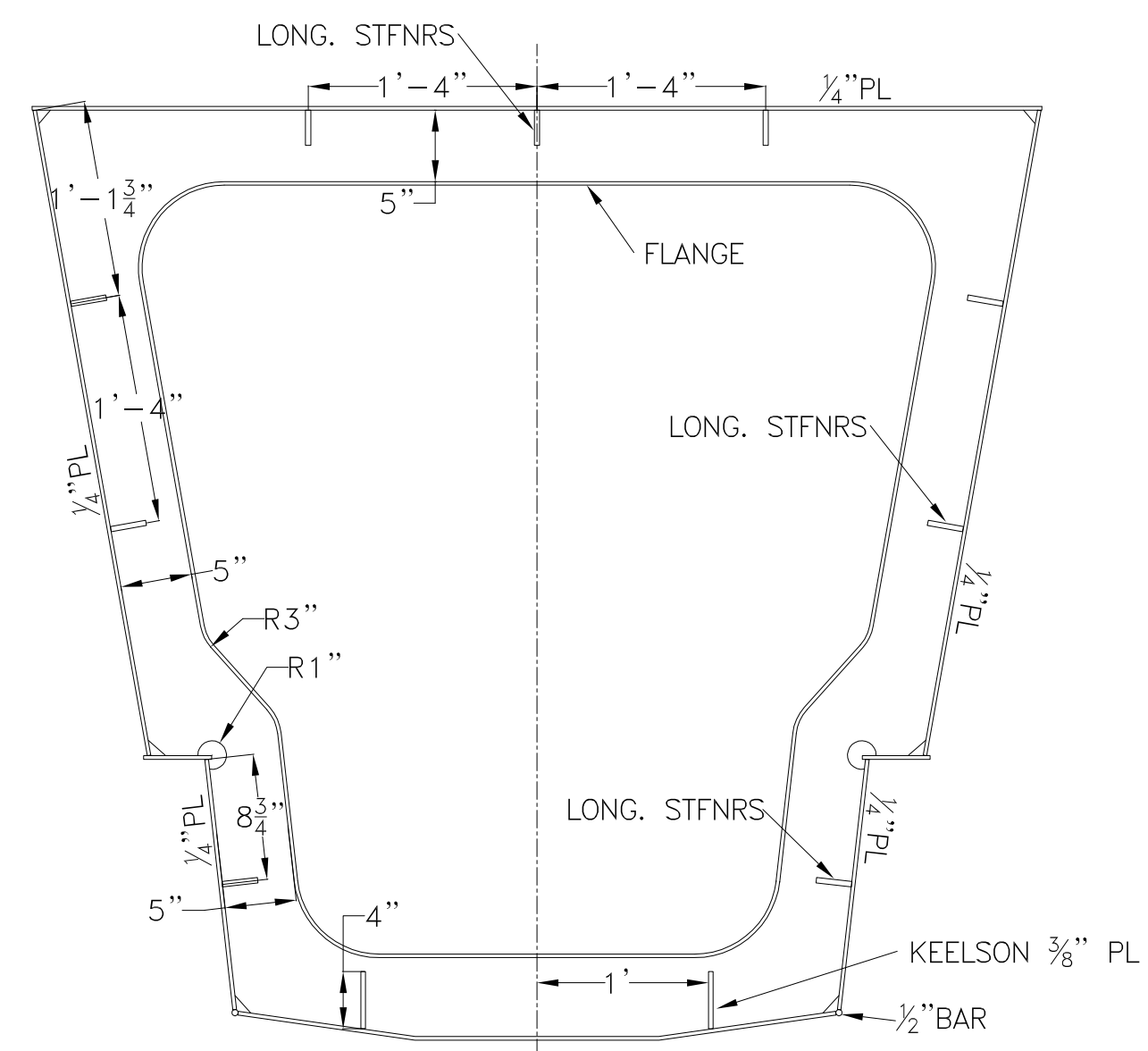
FRAME 39

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FLANGE: 3 x 1/4" FB
LONG. STIFFENERS: 2 1/2 x 3/8" FB



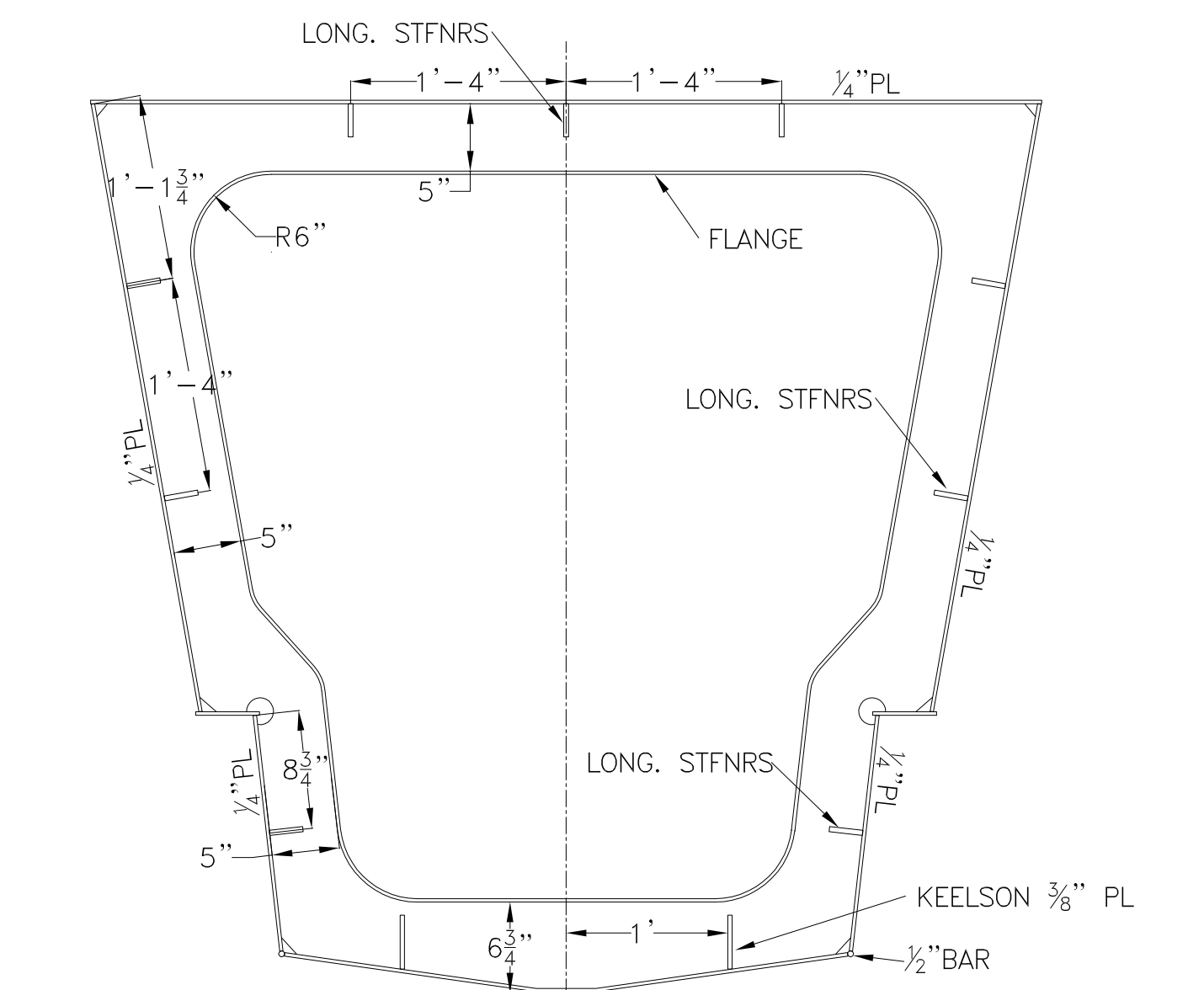
W.T. BHD 37

1/4" PL,
FLANGE: 3 x 1/4" FB
LONG. STIFFENERS: 2 1/2 x 3/8" FB
BHD STFNRS: 3 x 3/8" FB



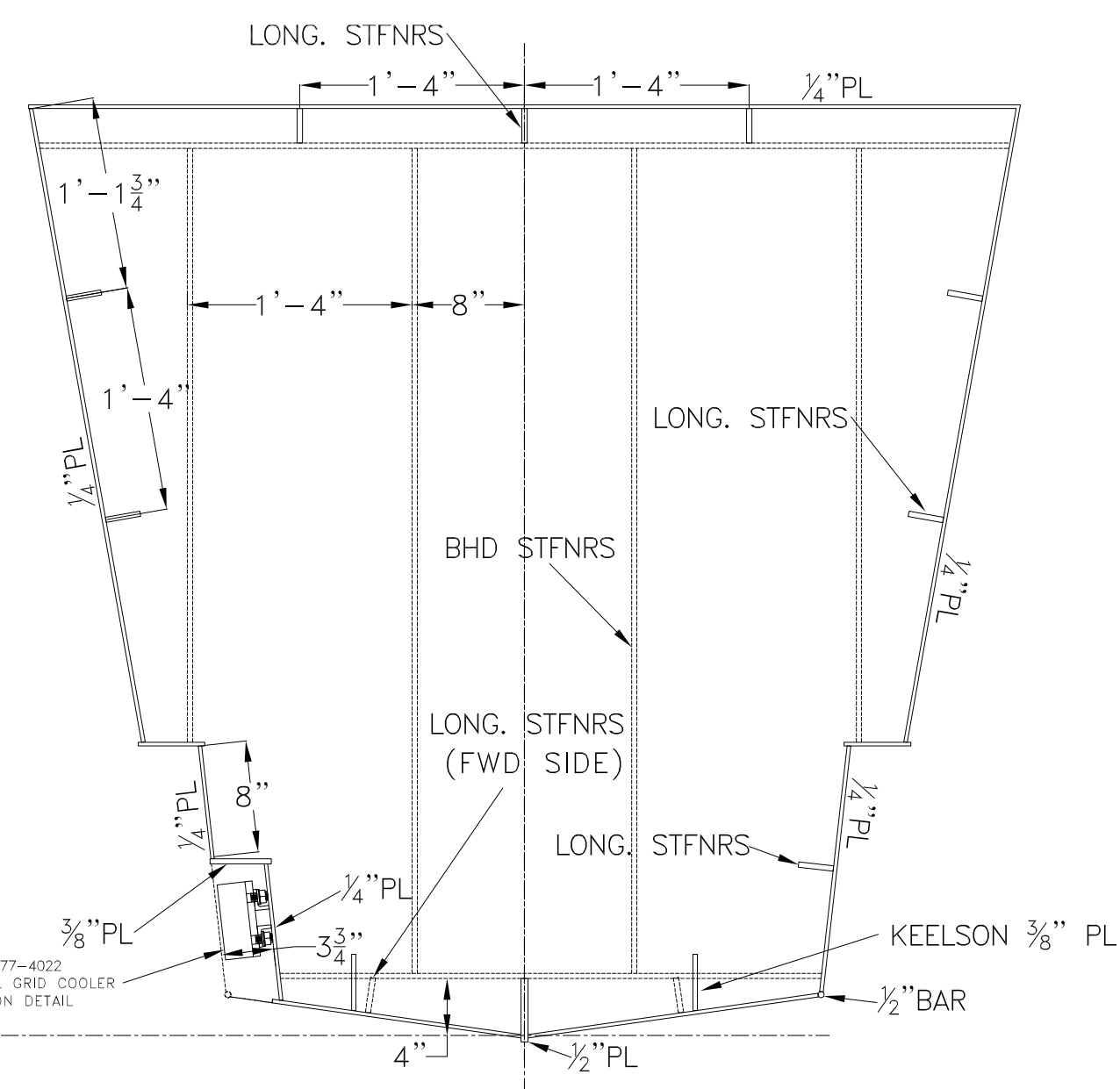
FRAME 35

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LONG. STIFFENERS: 2 1/2 x 3/8" FB



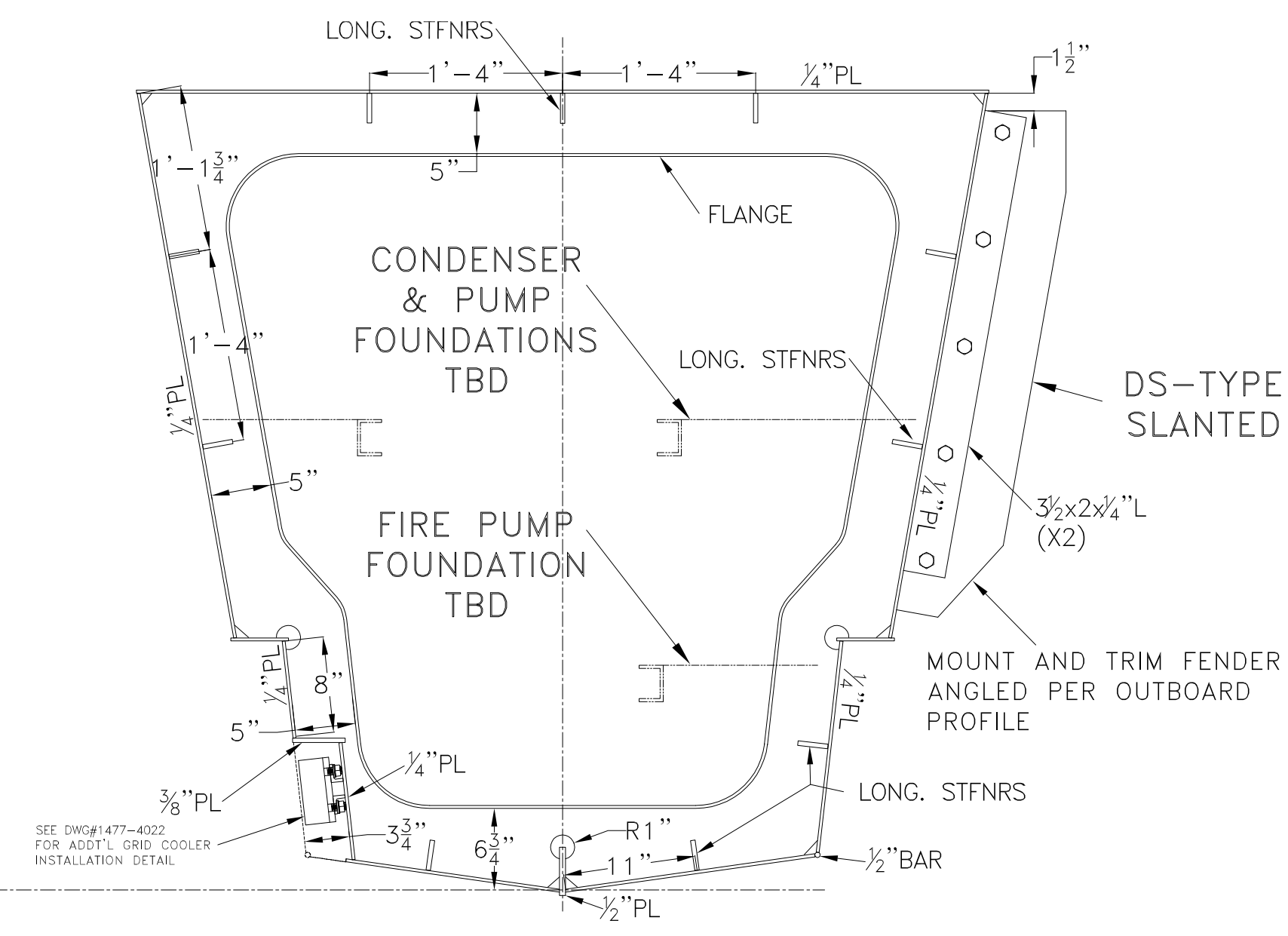
FRAME 33

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LONG. STIFFENERS: 2 1/2 x 3/8" FB



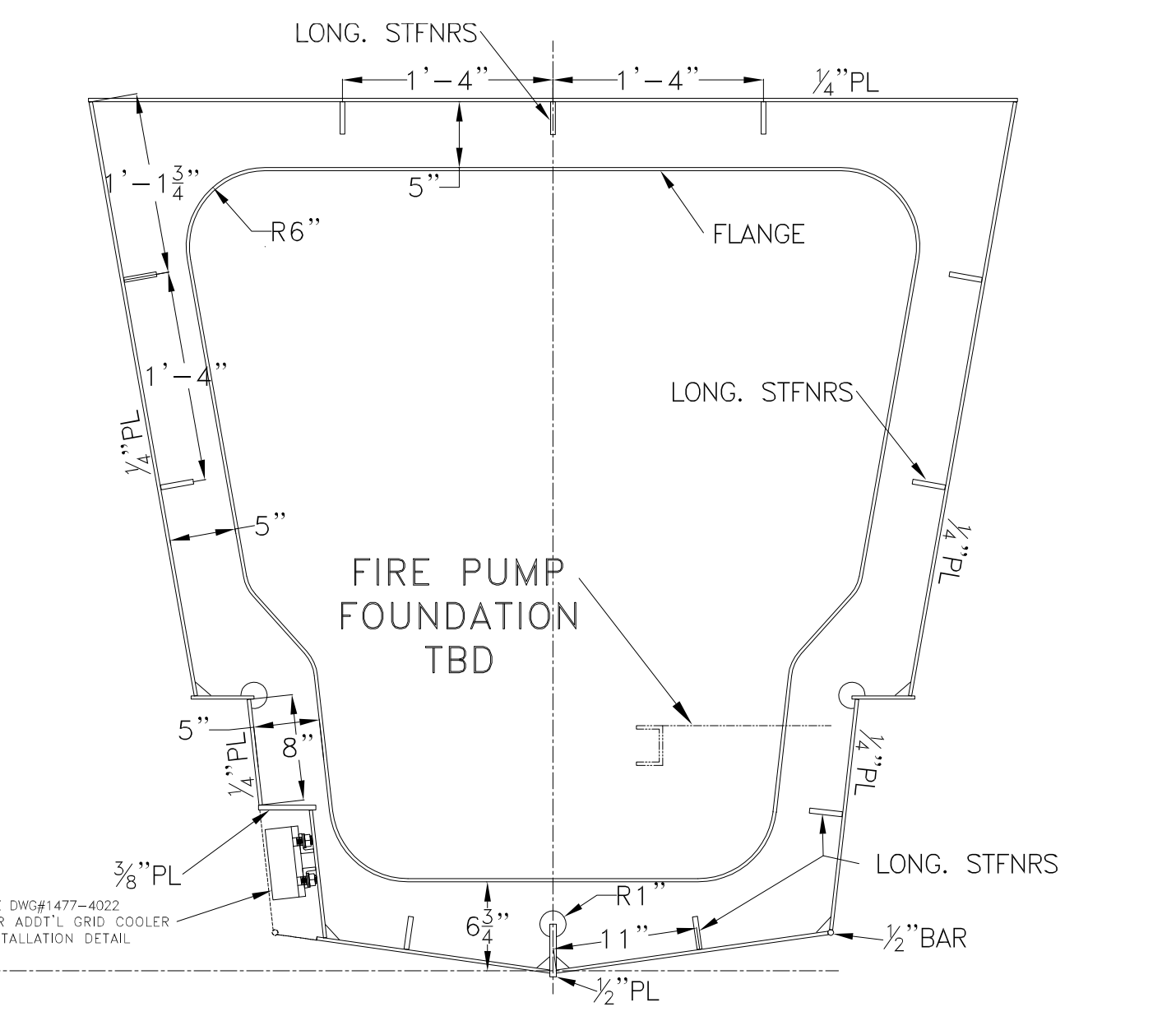
W.T. BHD 31

1/4" PL,
FLANGE: 3 x 1/4" FB
LONG. STIFFENERS: 2 1/2 x 3/8" FB
BHD STFNRS: 3 x 3/8" FB



FRAME 29

1/4" PL,
FLANGE: 3 x 1/4" FB
LONG. STIFFENERS: 2 1/2 x 3/8" FB



FRAME 27

1/4" PL,
FLANGE: 3 x 1/4" FB
LONG. STIFFENERS: 2 1/2 x 3/8" FB

-- GENERAL NOTES --				-- ALTERATIONS --				-- RESERVATIONS --				-- REFERENCES --			
NO.	DESCRIPTION	NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION		
1.	STARBOARD SECTIONS SHOWN. ALL PORT SECTIONS ARE MIRRORED ABOUT THE CENTERLINE AXIS.														

NO.	DESCRIPTION	NO.	DATE	DESCRIPTION
5				
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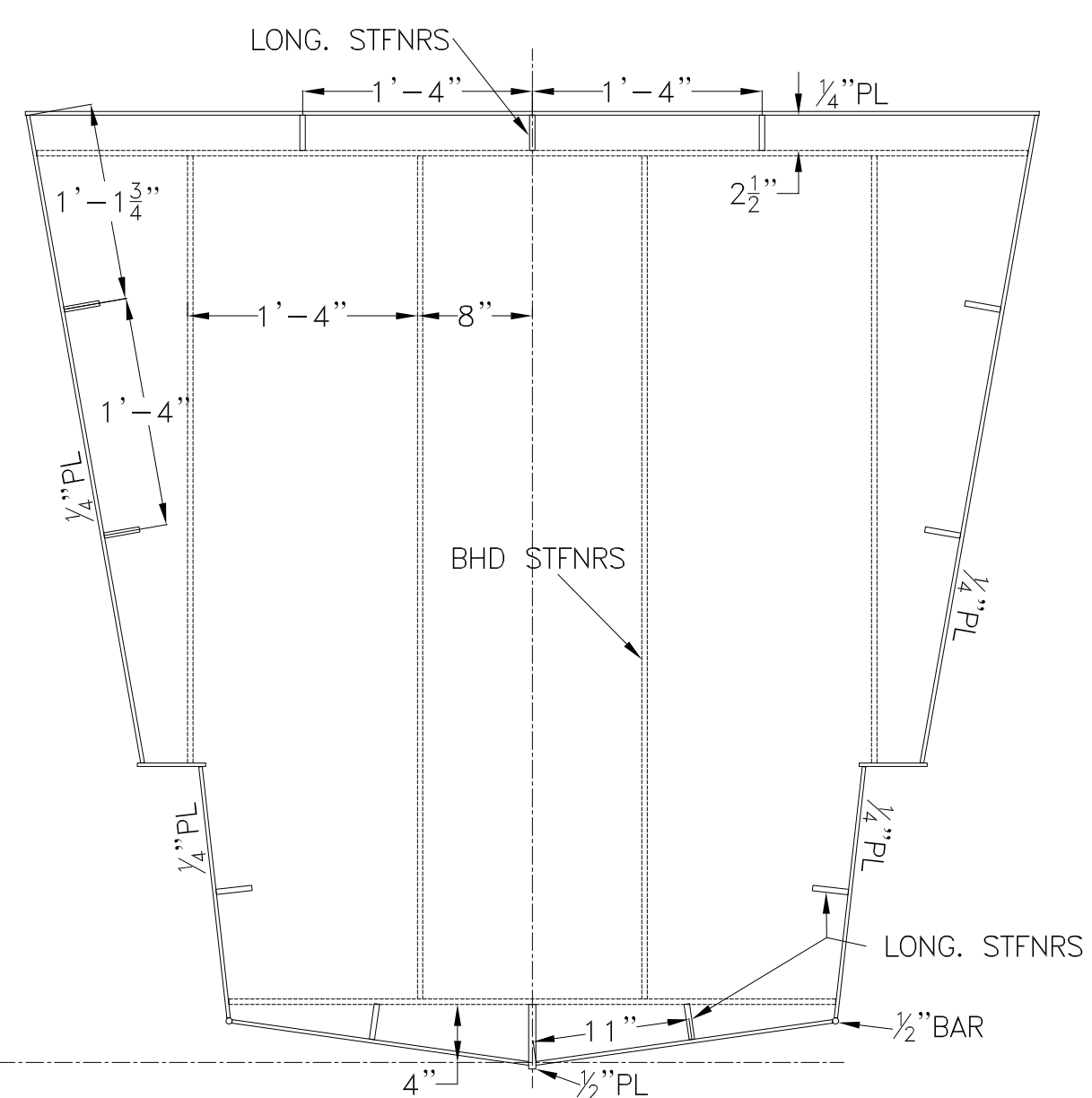
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Title: **65' PASSENGER FERRY (DIESEL-ELECT HYBRID)**

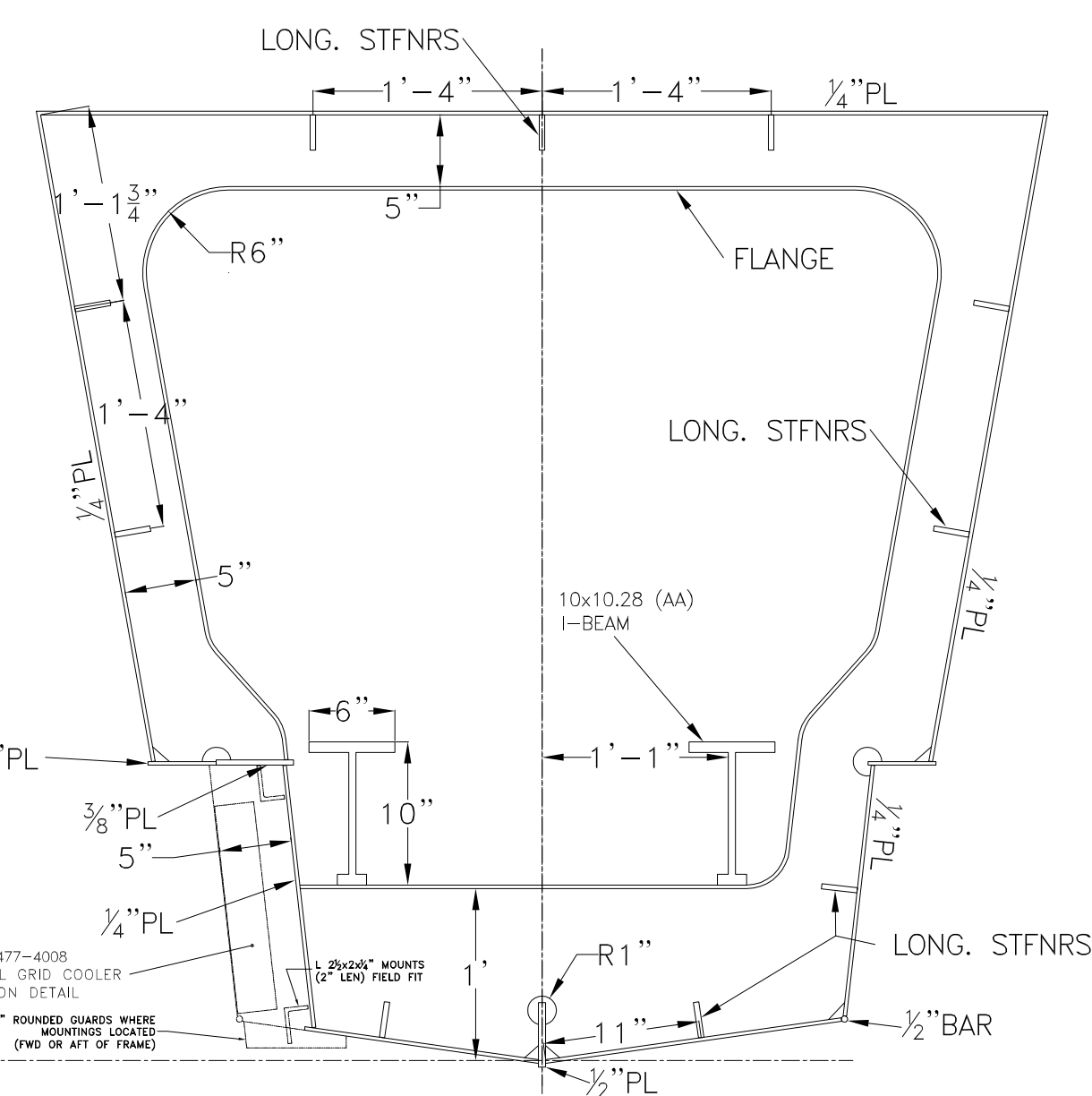
PONTOON TRANSVERSE FRAMES & W.T BULKHEADS

Dwg. No. 22-1477-2005 Alt. No. 0 Sht. 1 OF 3

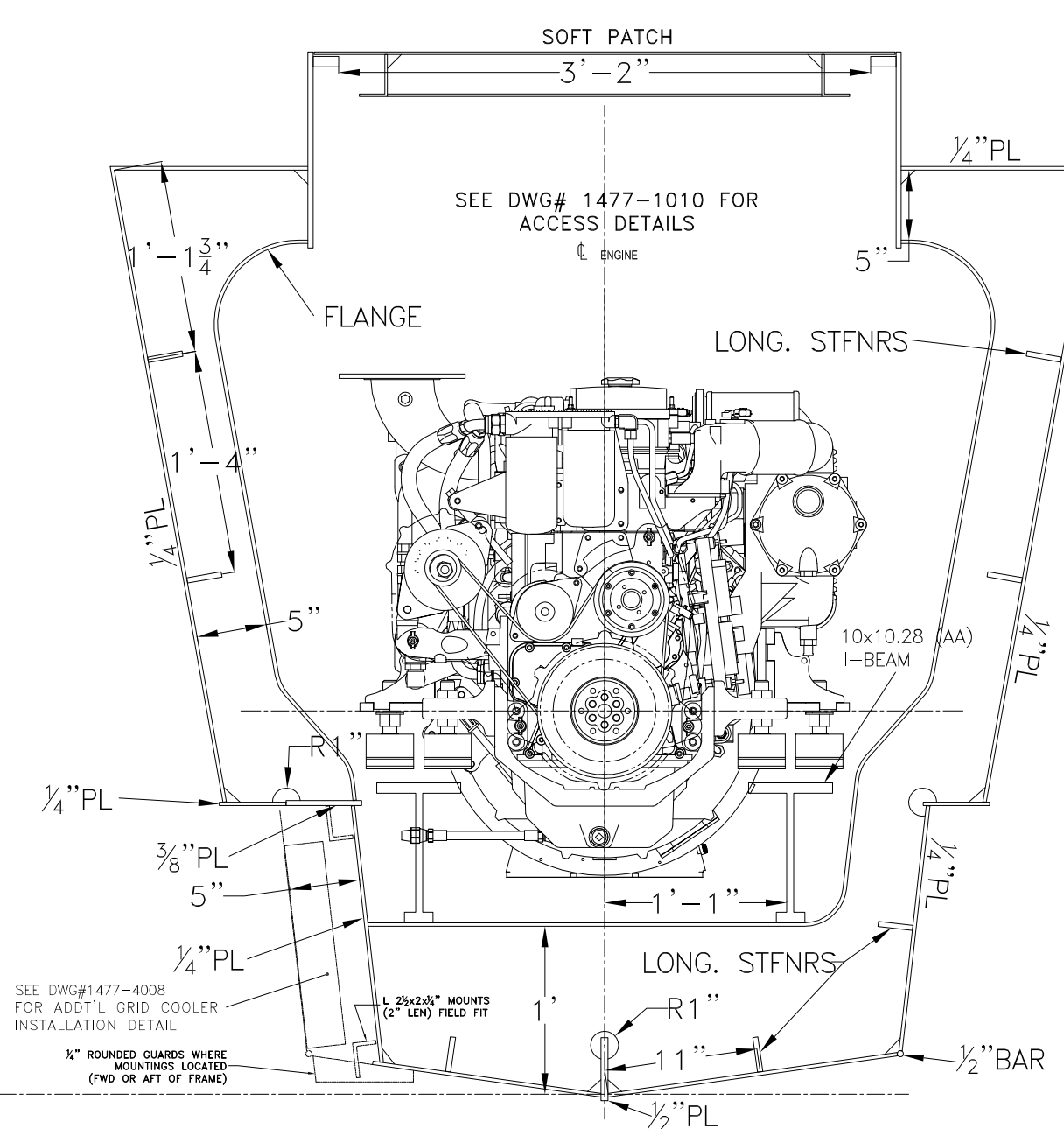
Drawn By: **BRIAN BOUDREAU** Date: **27 MAY 2022**
 Checked By: _____
 App'd By: _____ Scale: 1/2" = 1'-0"
 ABS App'l: _____ USCg App'l: _____



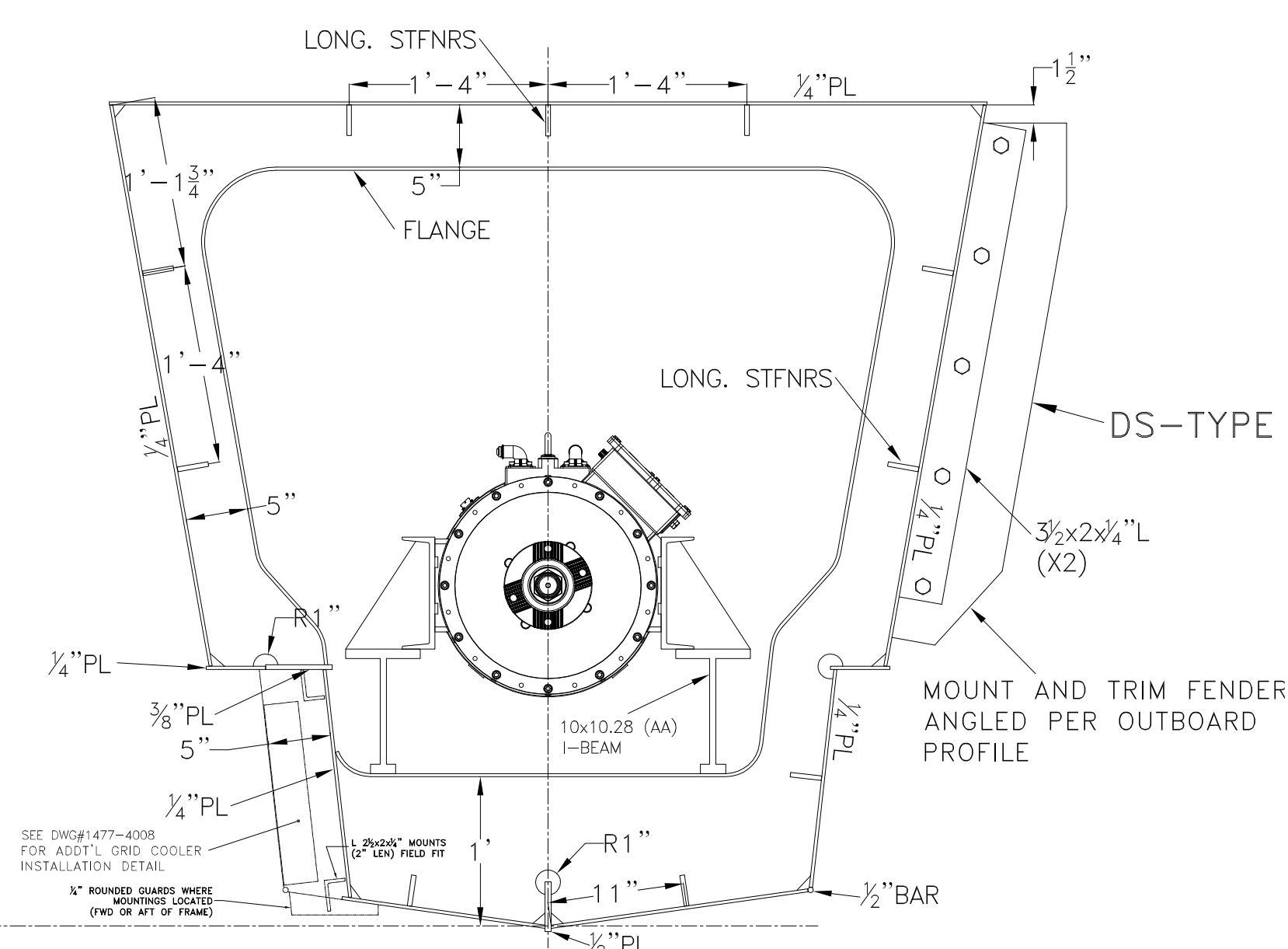
W.T. BHD 25
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 FLANGE: 3 x 1/4" FB
 LONG. STIFFENERS: 2 1/2 x 3/8" FB
 BHD STFNRS: 3 x 3/8" FB



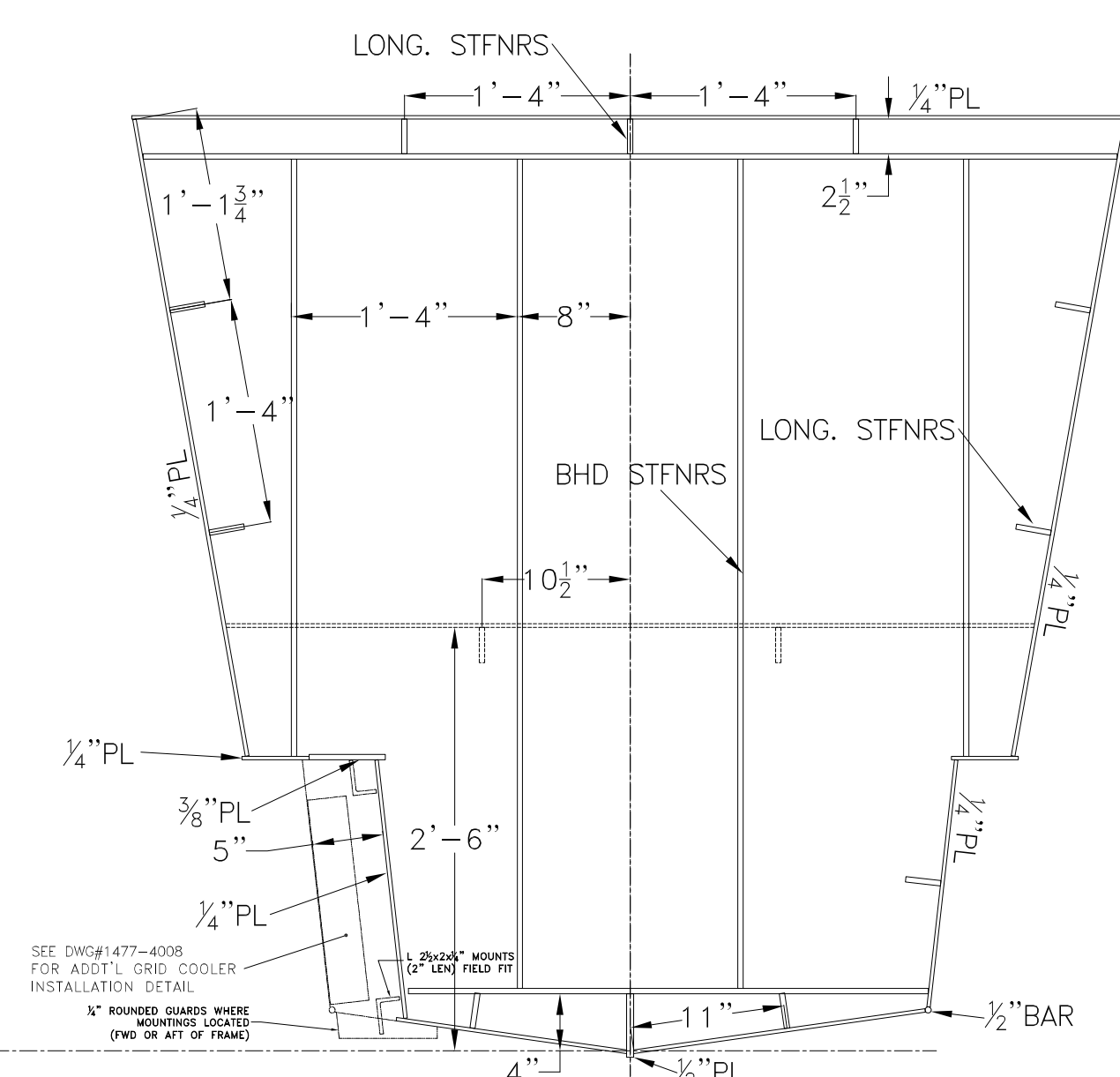
FRAME 23
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 FLANGE: 3 x 1/4" FB
 LONG. STIFFENERS: 2 1/2 x 3/8" FB



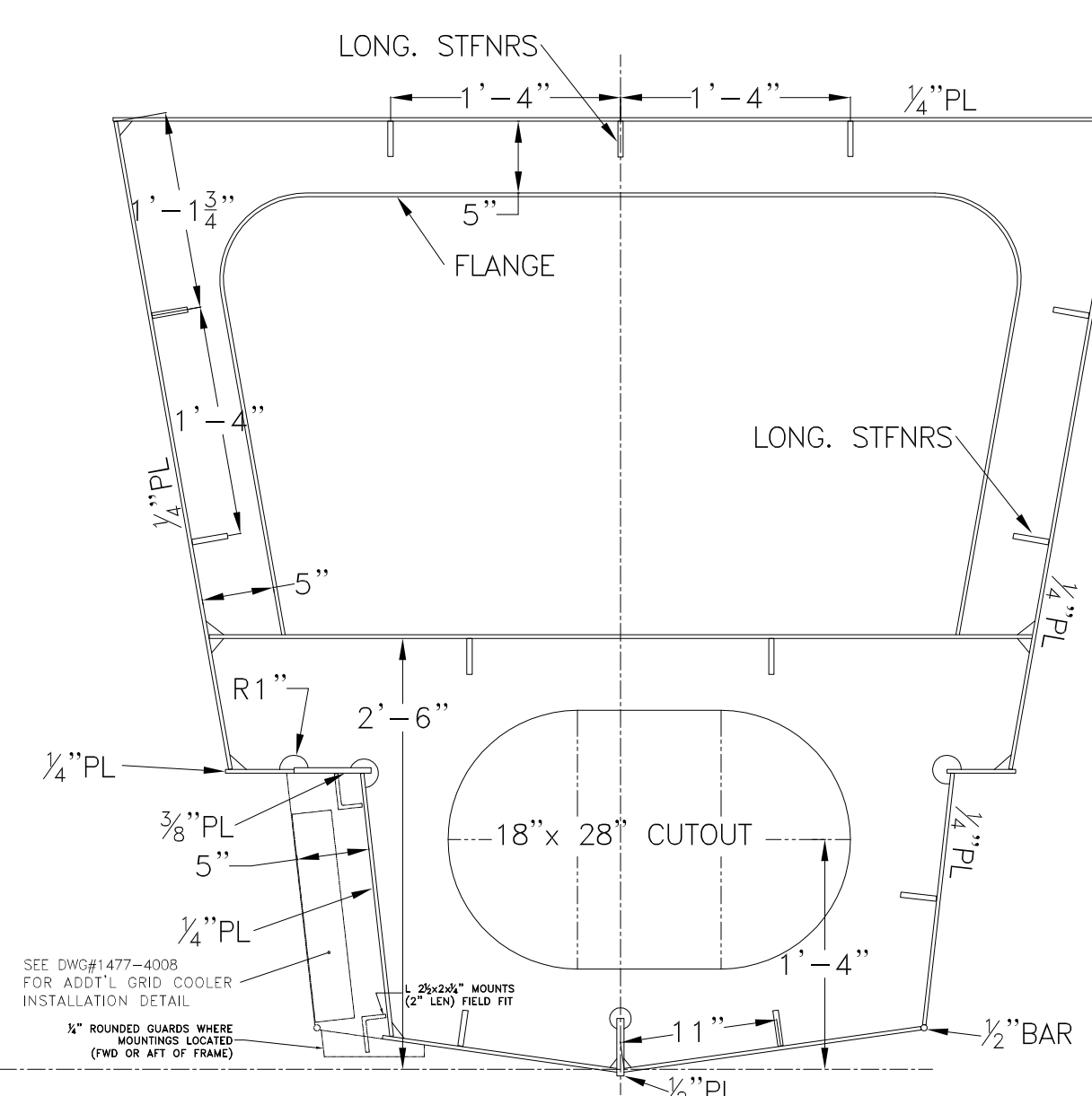
FRAME 21
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 FLANGE: 3 x 1/4" FB
 LONG. STIFFENERS: 2 1/2 x 3/8" FB



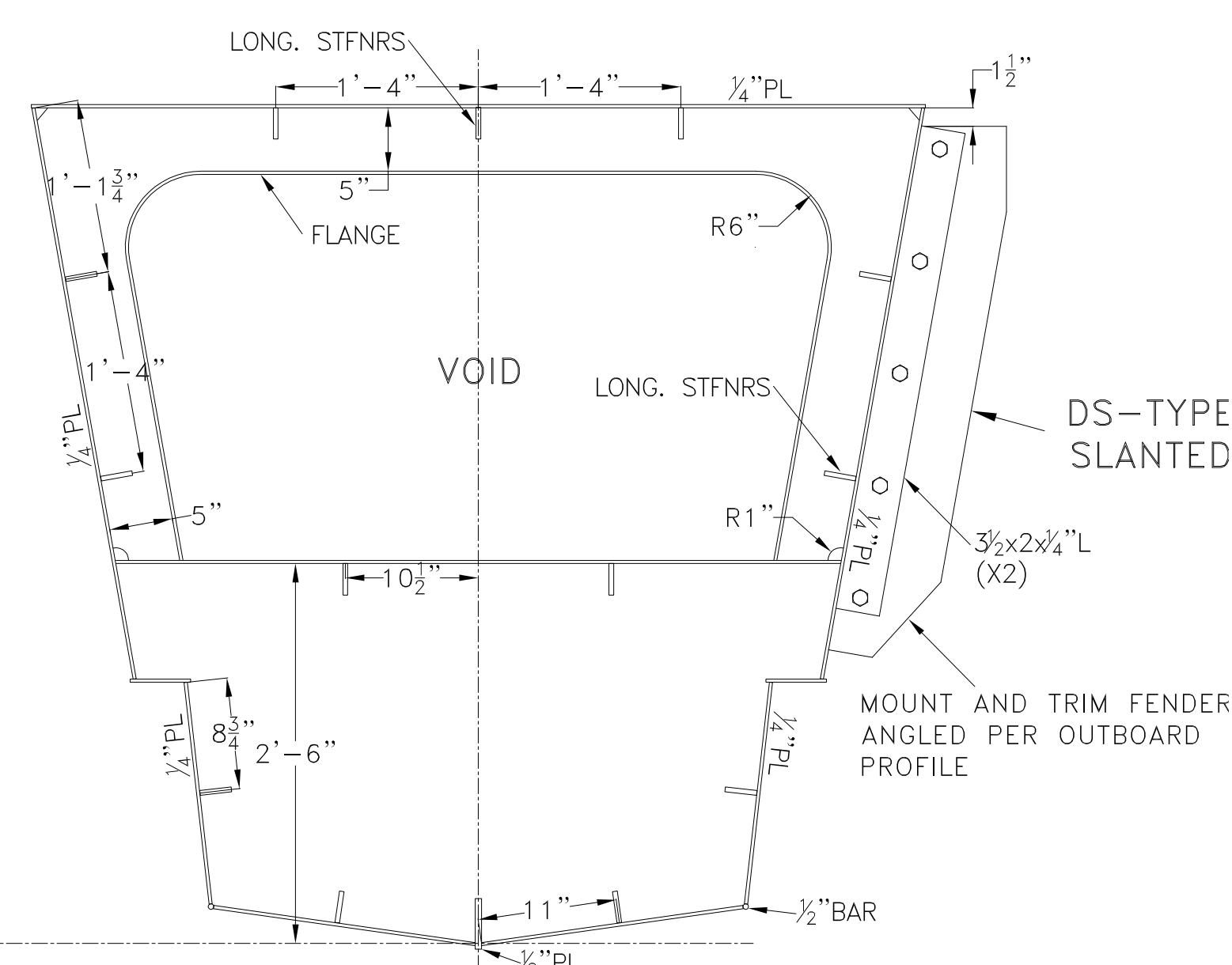
FRAME 19
 1/4" PL,
 FLANGE: 3 x 1/4" FB
 LONG. STIFFENERS: 2 1/2 x 3/8" FB



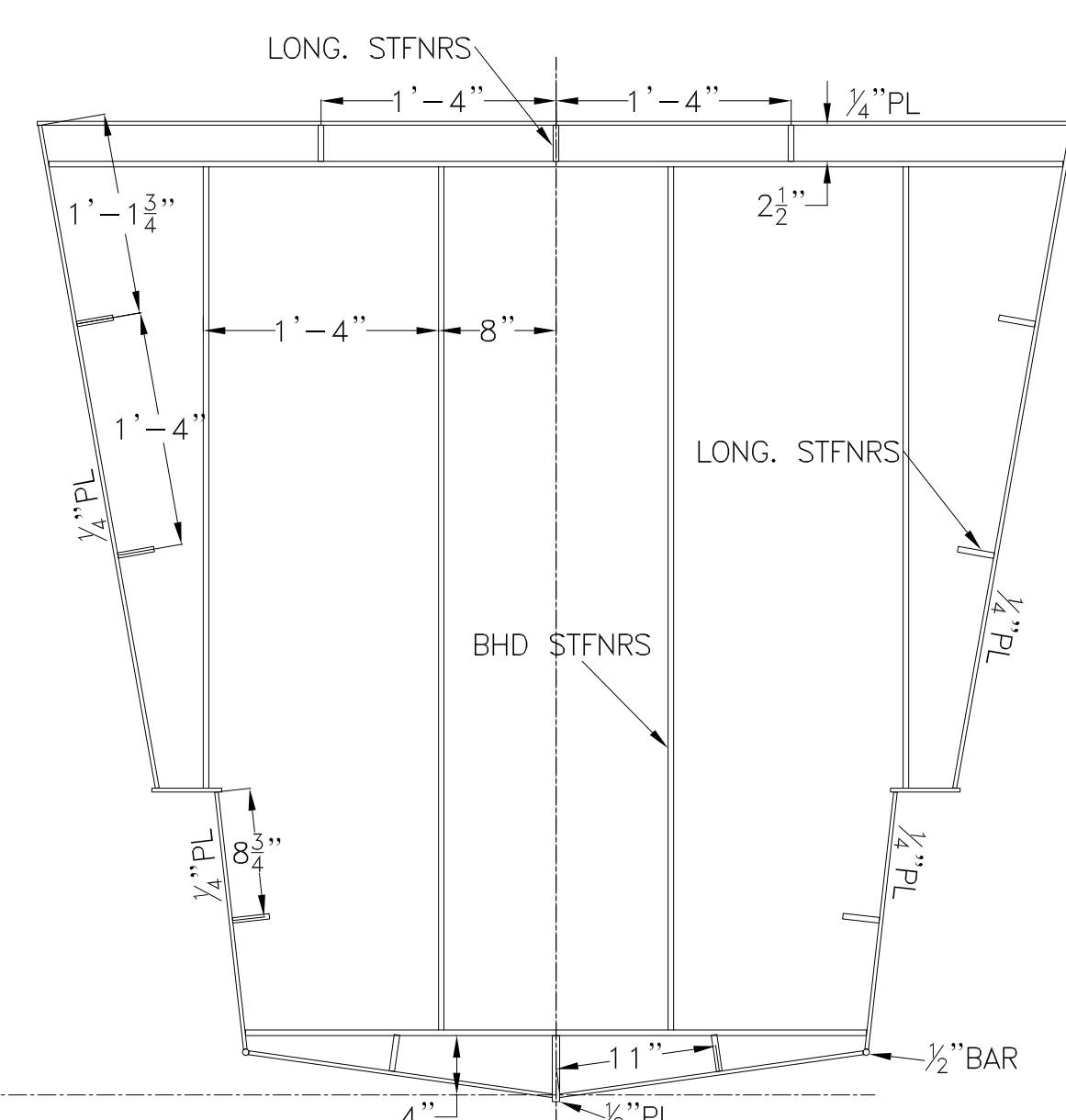
O.T. BHD 17
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 FLANGE: 3 x 1/4" FB
 LONG. STIFFENERS: 2 1/2 x 3/8" FB
 BHD STFNRS: 3 x 3/8" FB



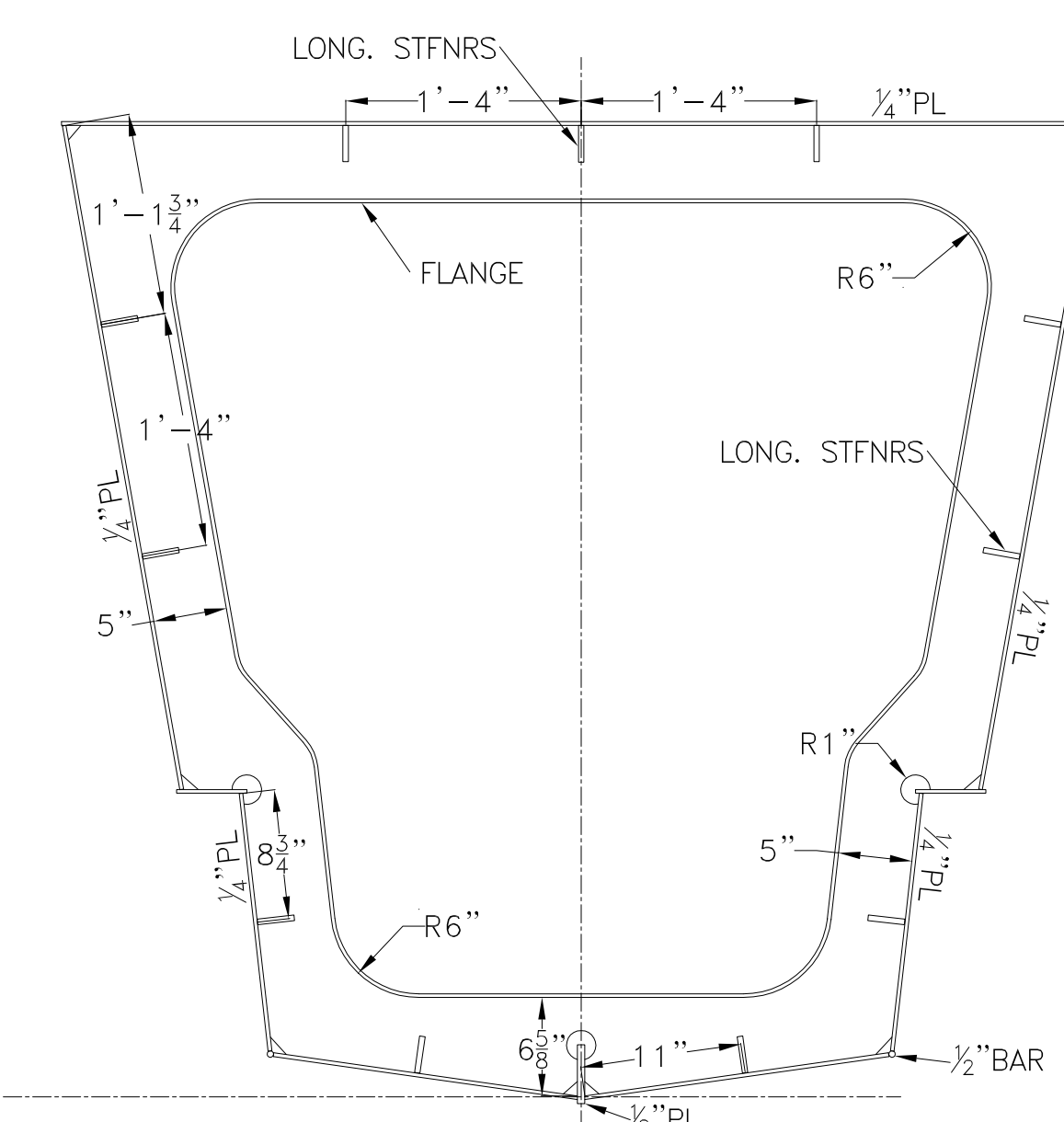
FRAME 15
 1/4" PL,
 FLANGE: 3 x 1/4" FB
 LONG. STIFFENERS: 2 1/2 x 3/8" FB



O.T. BHD 13
 1/4" PL,
 FLANGE: 3 x 1/4" FB
 LONG. STIFFENERS: 2 1/2 x 3/8" FB
 BHD STFNRS: 3 x 3/8" FB



W.T. BHD 11
 1/4" PL,
 FLANGE: 3 x 1/4" FB
 LONG. STIFFENERS: 2 1/2 x 3/8" FB
 BHD STFNRS: 3 x 3/8" FB



FRAME 9
 1/4" PL,
 FLANGE: 3 x 1/4" FB
 LONG. STIFFENERS: 2 1/2 x 3/8" FB

GENERAL NOTES	
NO.	DESCRIPTION
1.	STARBOARD SECTIONS SHOWN. ALL PORT SECTIONS ARE MIRRORED ABOUT THE CENTERLINE AXIS.

ALTERATIONS	
NO.	DESCRIPTION

RESERVATIONS	
NO.	DESCRIPTION

REFERENCES	
NO.	DESCRIPTION

DRAWING SUBMITTALS	
NO.	DESCRIPTION
1	5/8.4.22/7
2	
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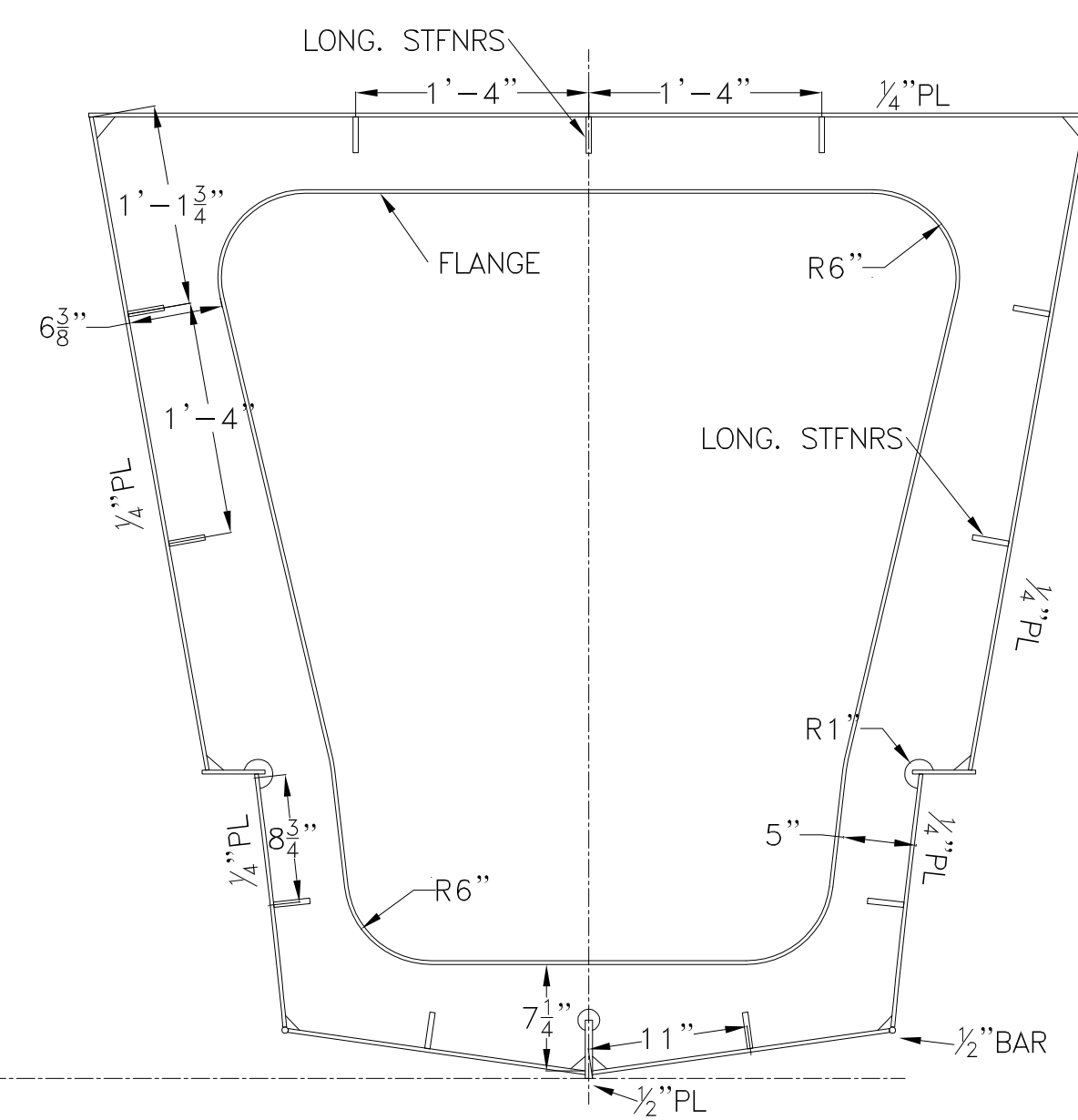
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Title: 65' PASSENGER FERRY (DIESEL-ELECT HYBRID)

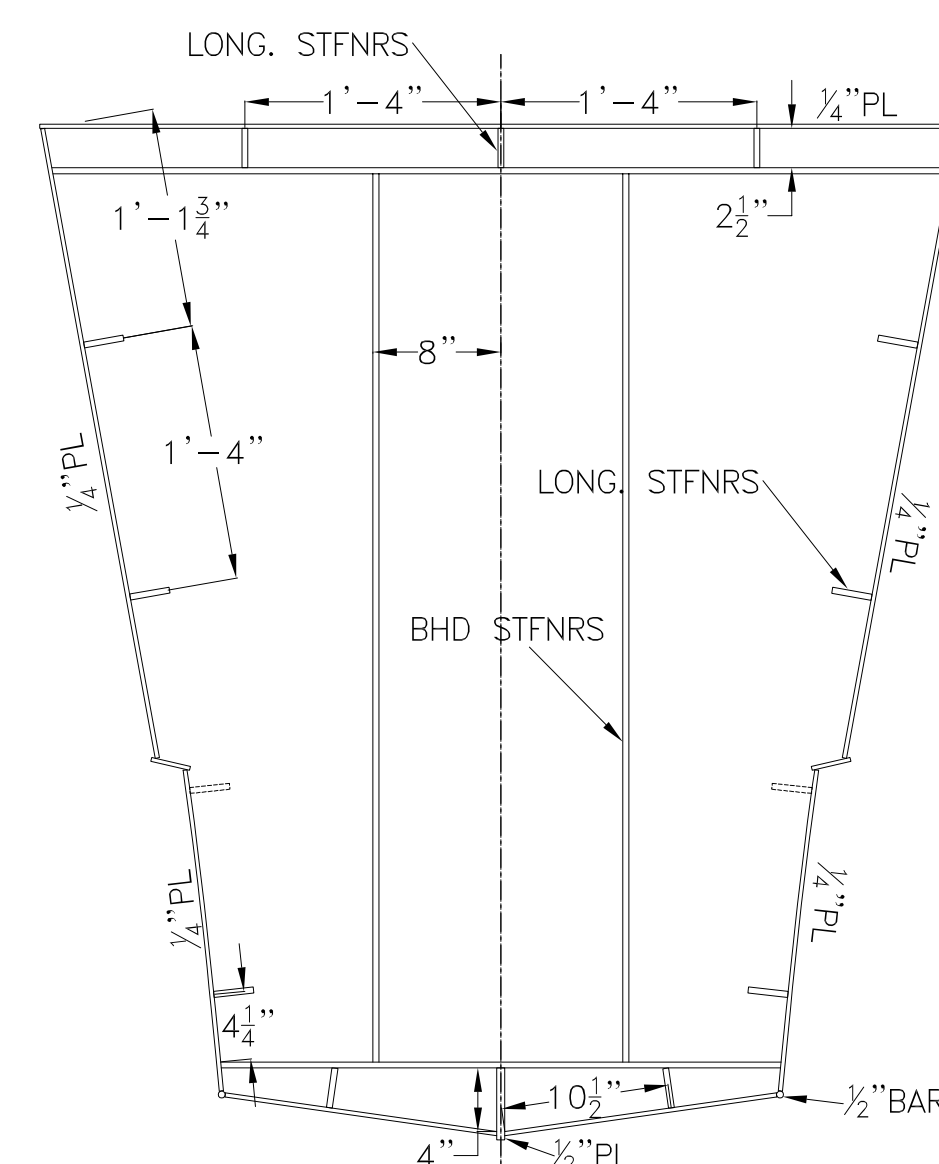
PONTOON TRANSVERSE FRAMES & W.T BULKHEADS

Dwg. No. 22-1477-2005 Alt. No. 0
 Sh. 2 OF 3

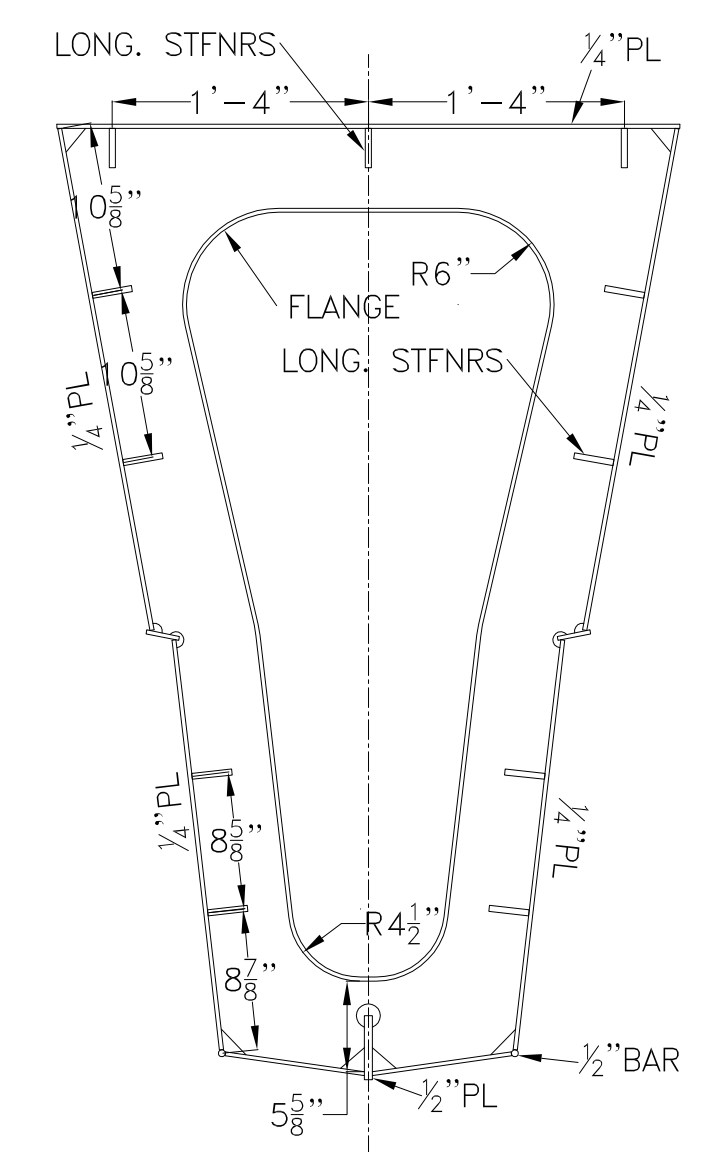
Drawn By: BRIAN BOUDREAU Date: 27 MAY 2022
 Checked By: _____
 App'd By: _____ Scale: 1/2" = 1'-0"
 ABS App'l: _____ USCG App'l: _____



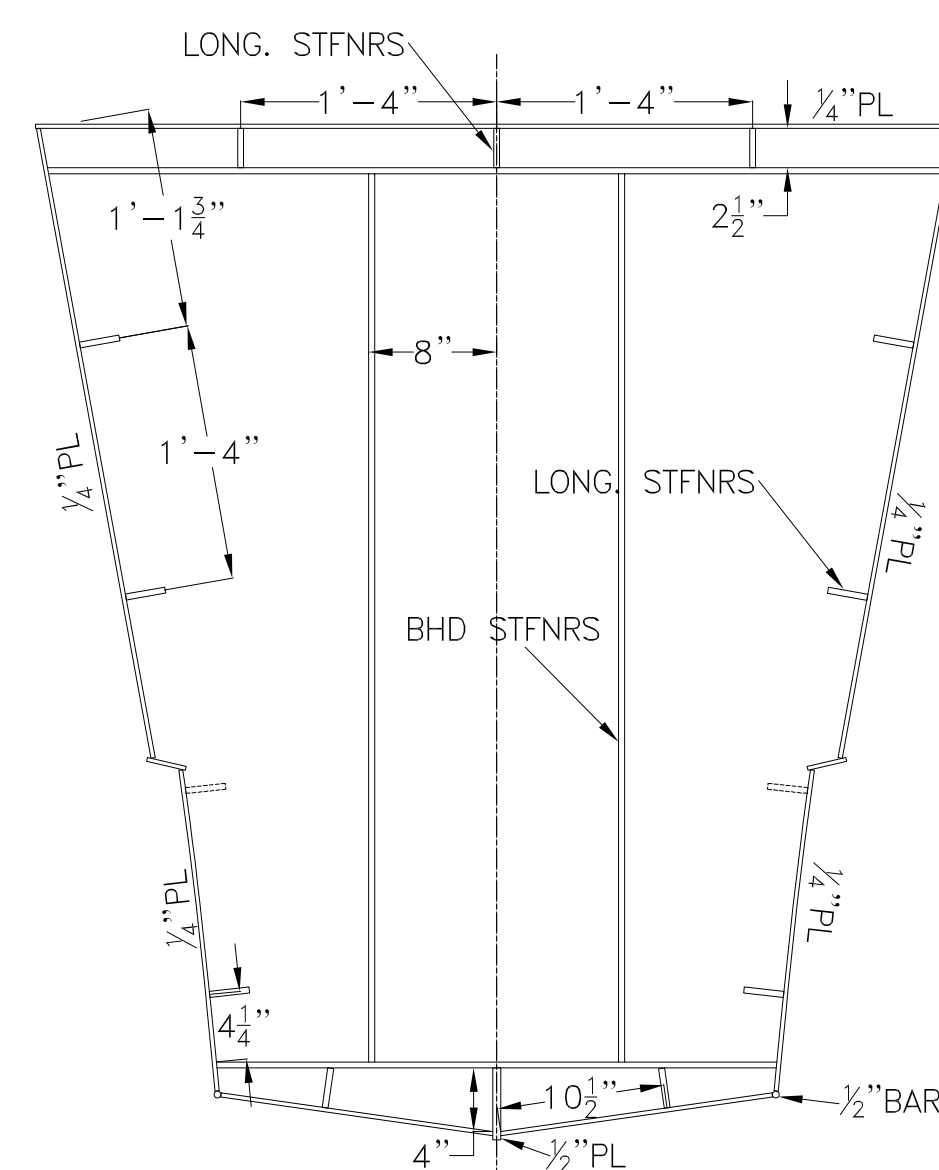
FRAME 7
 1/4" PL,
 FLANGE: 3 x 1/4" FB
 LONG. STIFFENERS: 2 1/2 x 3/8" FB



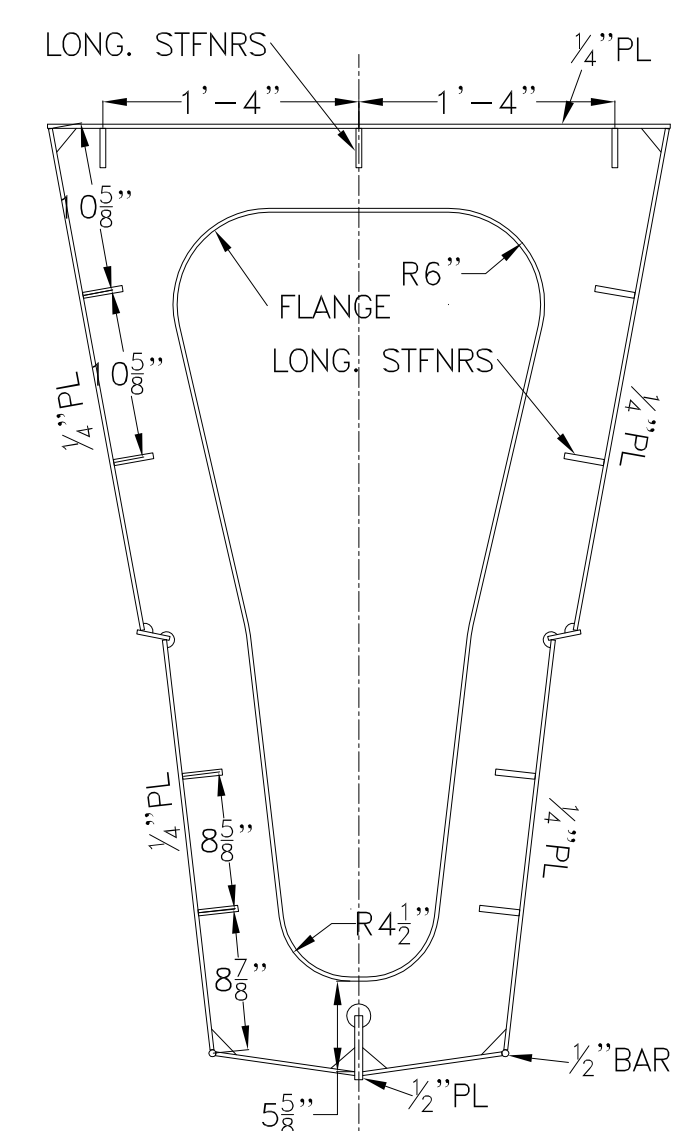
W.T. BHD 5
 1/4" PL,
 FLANGE: 3 x 1/4" FB
 LONG. STIFFENERS: 2 1/2 x 3/8" FB
 BHD STFNRS: 3 x 3/8" FB



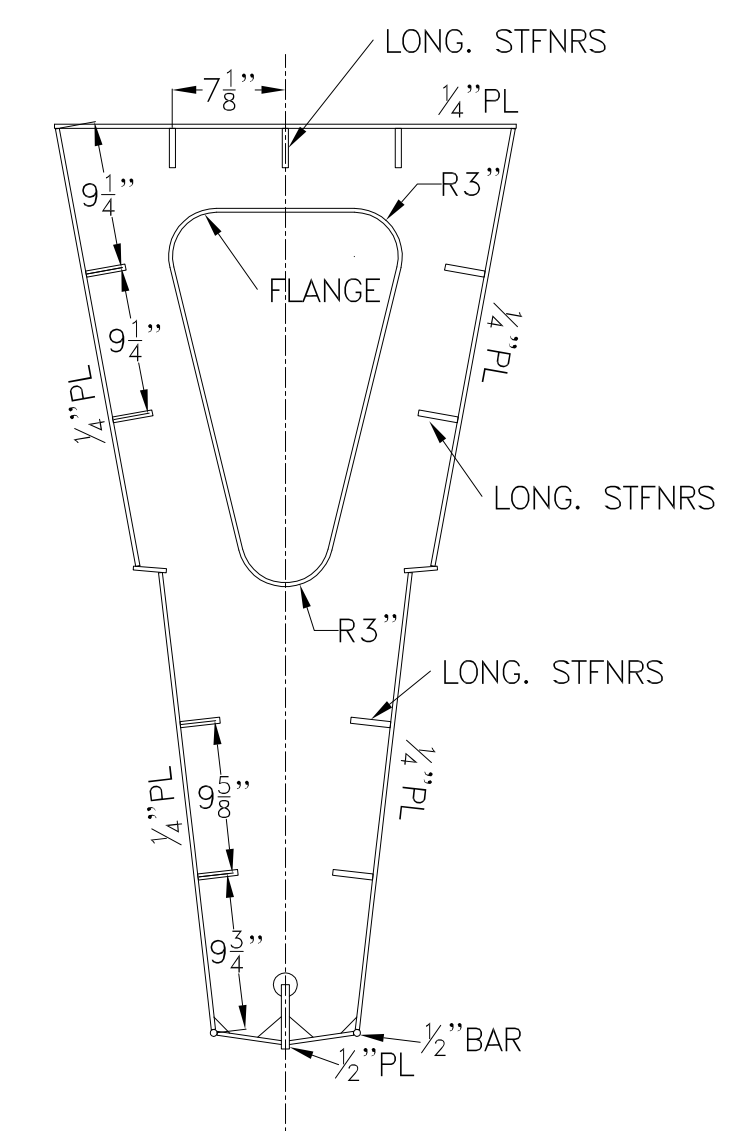
FRAME 3
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 FLANGE: 3 x 1/4" FB
 LONG. STIFFENERS: 2 1/2 x 3/8" FB



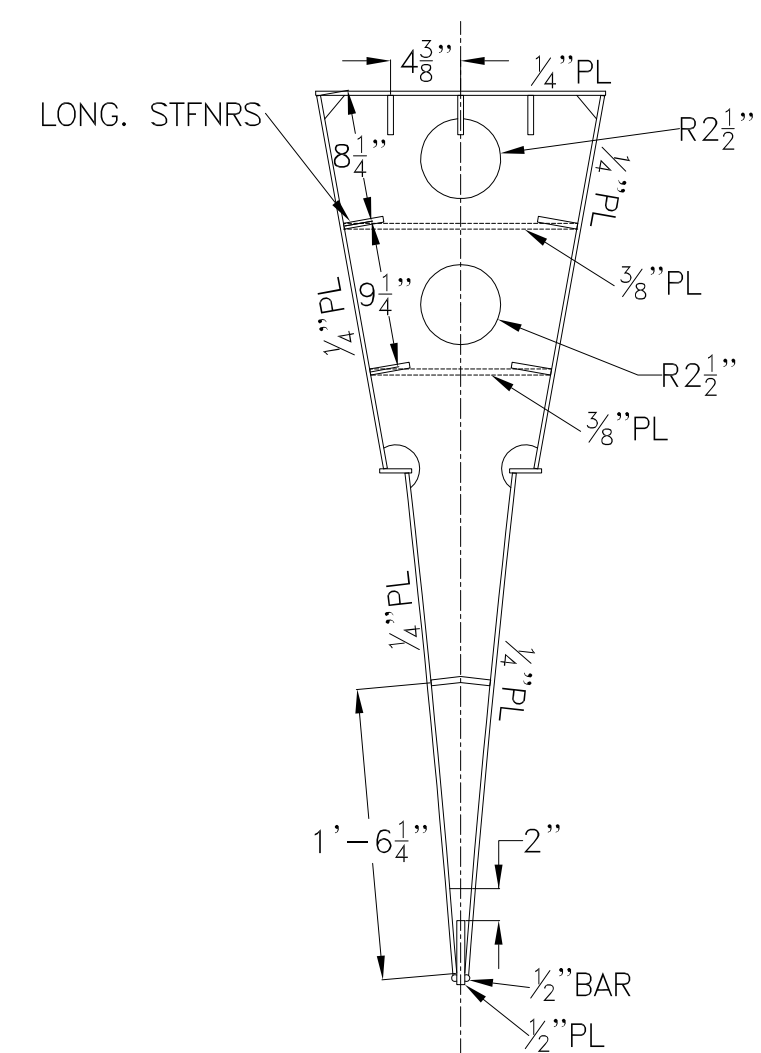
W.T. BHD 5
 1/4" PL,
 FLANGE: 3 x 1/4" FB
 LONG. STIFFENERS: 2 1/2 x 3/8" FB
 BHD STFNRS: 3 x 3/8" FB



FRAME 3
 1/4" PL,
 FLANGE: 3 x 1/4" FB
 LONG. STIFFENERS: 2 1/2 x 3/8" FB

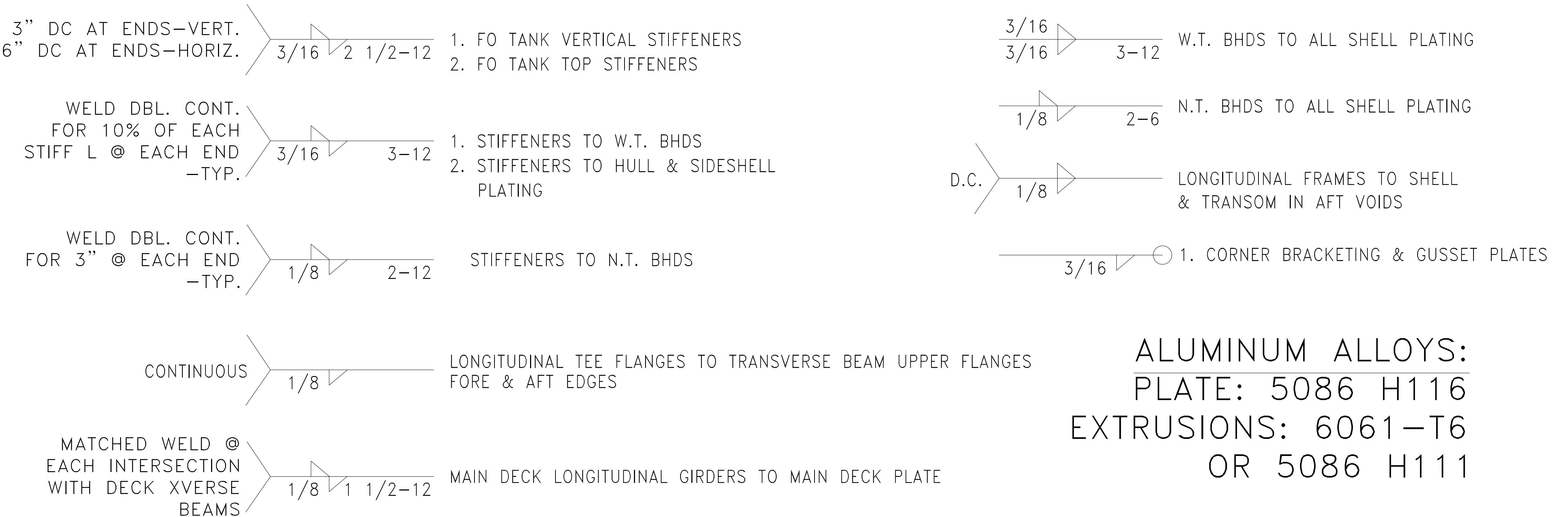


FRAME 2
 1/4" PL,
 FLANGE: 3 x 1/4" FB
 LONG. STIFFENERS: 2 1/2 x 3/8" FB



FRAME 1
 1/4" PL,
 FLANGE: 3 x 1/4" FB
 LONG. STIFFENERS: 2 1/2 x 3/8" FB

WELD SCHEDULE HULL-



ALUMINUM ALLOYS:
 PLATE: 5086 H116
 EXTRUSIONS: 6061-T6
 OR 5086 H111

GENERAL NOTES		ALTERATIONS		RESERVATIONS		REFERENCES	
NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION
1.	STARBOARD SECTIONS SHOWN. ALL PORT SECTIONS ARE MIRRORRED ABOUT THE CENTERLINE AXIS.						

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PONTOON TRANSVERSE FRAMES & W.T BULKHEADS

Dwg. No. 22-1477-2005 Alt. No. 0 SH. 3 OF 3

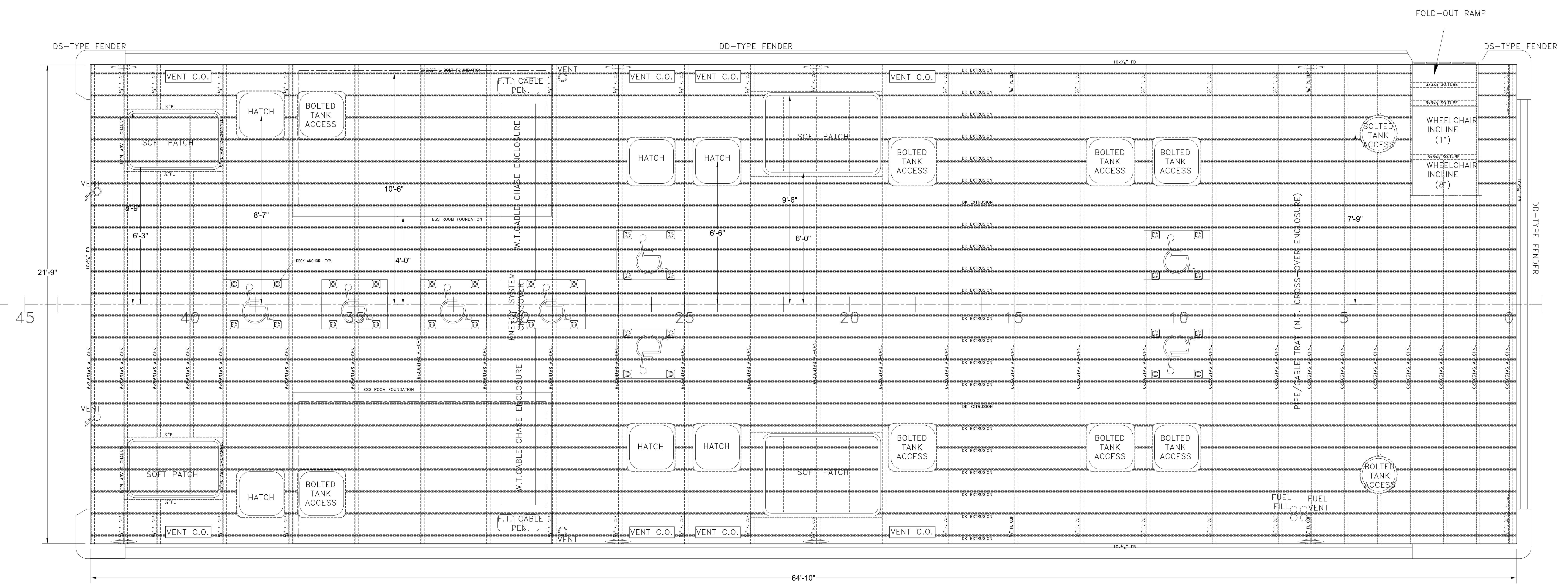
Drawn By: **BRIAN BOUDREAU** Date: **27 MAY 2022**
 Checked By: _____ Date: _____
 App'd By: _____ Scale: 1/2" = 1'-0"
 ABS App'l: _____ USCG App'l: _____

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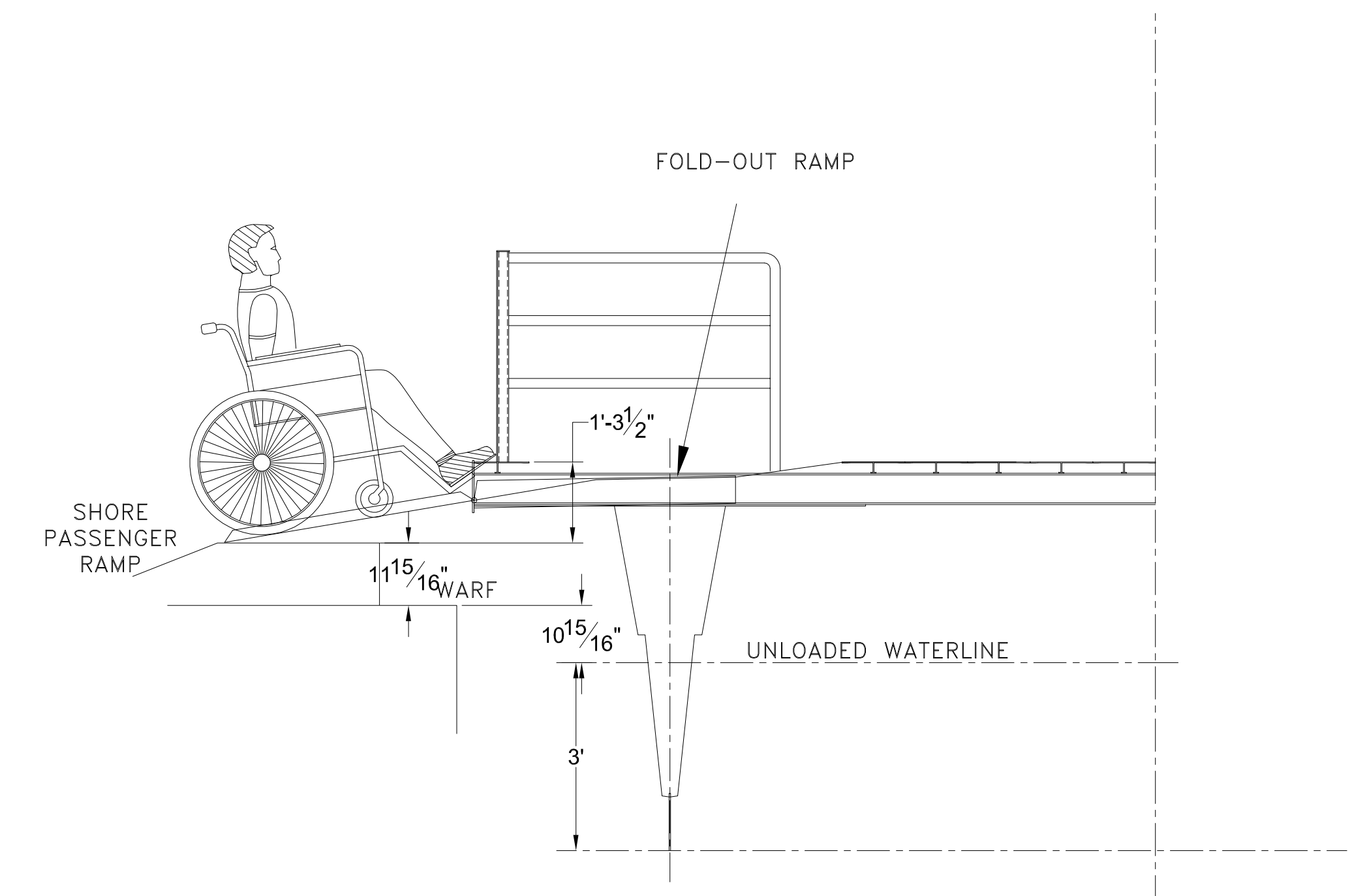
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OWNERS MSC-USCG ALT. NO.

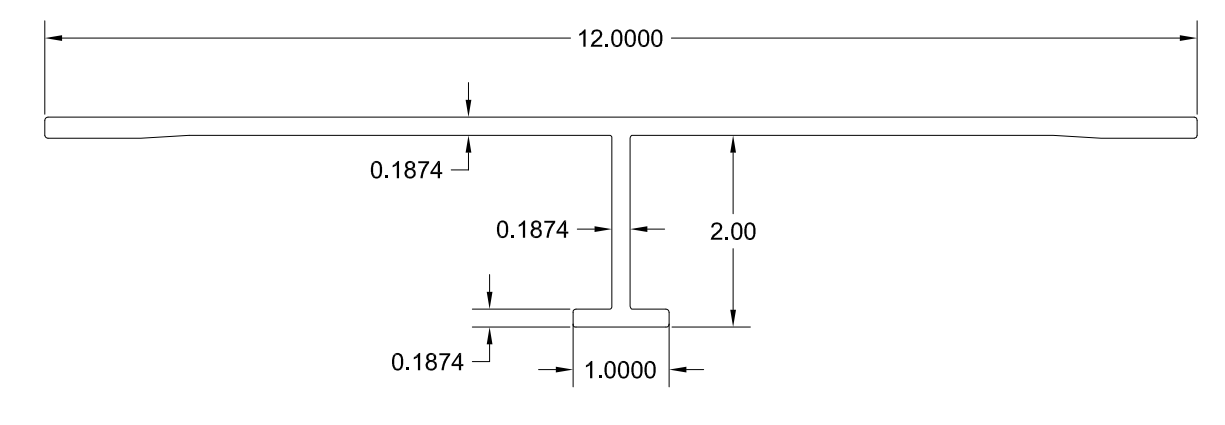
ANSI-E (34"x44")



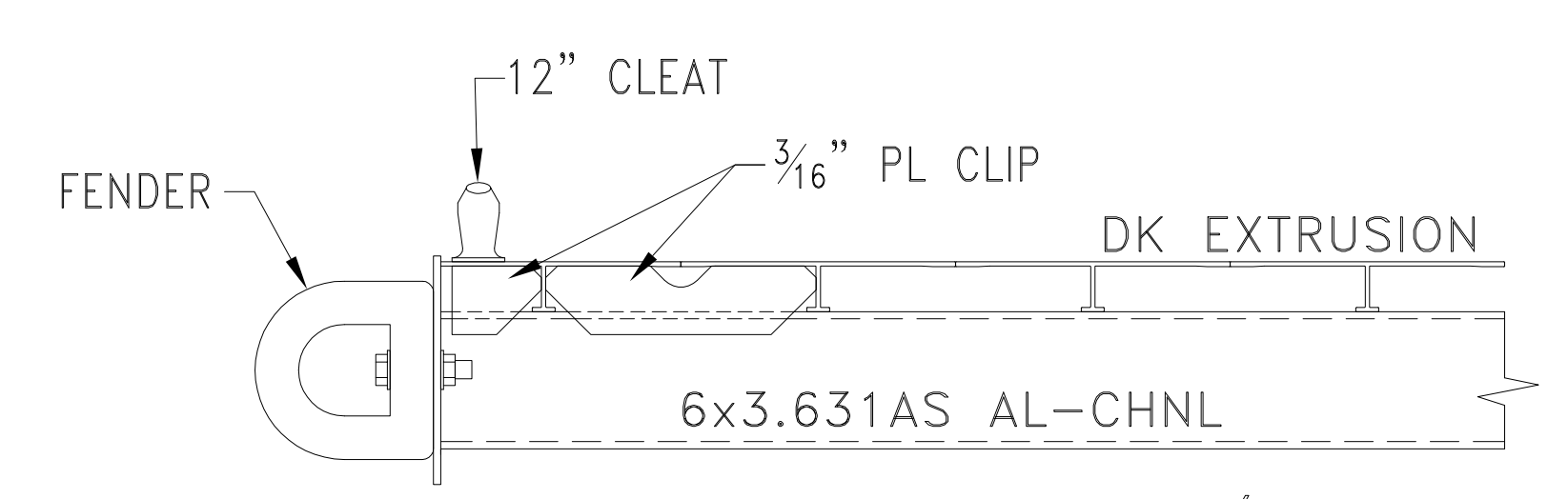
MAIN DECK PLAN
 PLATE: 6061 ALUMINUM DECK EXTRUSION WITH 2"x1"x $\frac{3}{16}$ " TEE



FORWARD BOARDING
 FRAMES 1 THRU 3
 MODIFY DECK TO FIT SELECTED RAMP



DECK EXTRUSION DETAIL:
 6061-6T ALUMINUM DIE
 SCALE: 1:2



TYPICAL RACKING/CLEAT CLIP PLATE
 SCALE 3"=1'-0"

GENERAL NOTES		ALTERATIONS		RESERVATIONS		REFERENCES	
NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION
		1.	GENERIC PART DESIGNATIONS				

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION
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4					
3					
2		5/08.12.22/E			
1		5/8.4.22/E			
0					
p					
	OWNERS	MSC-USCG	ALT.	NO.	

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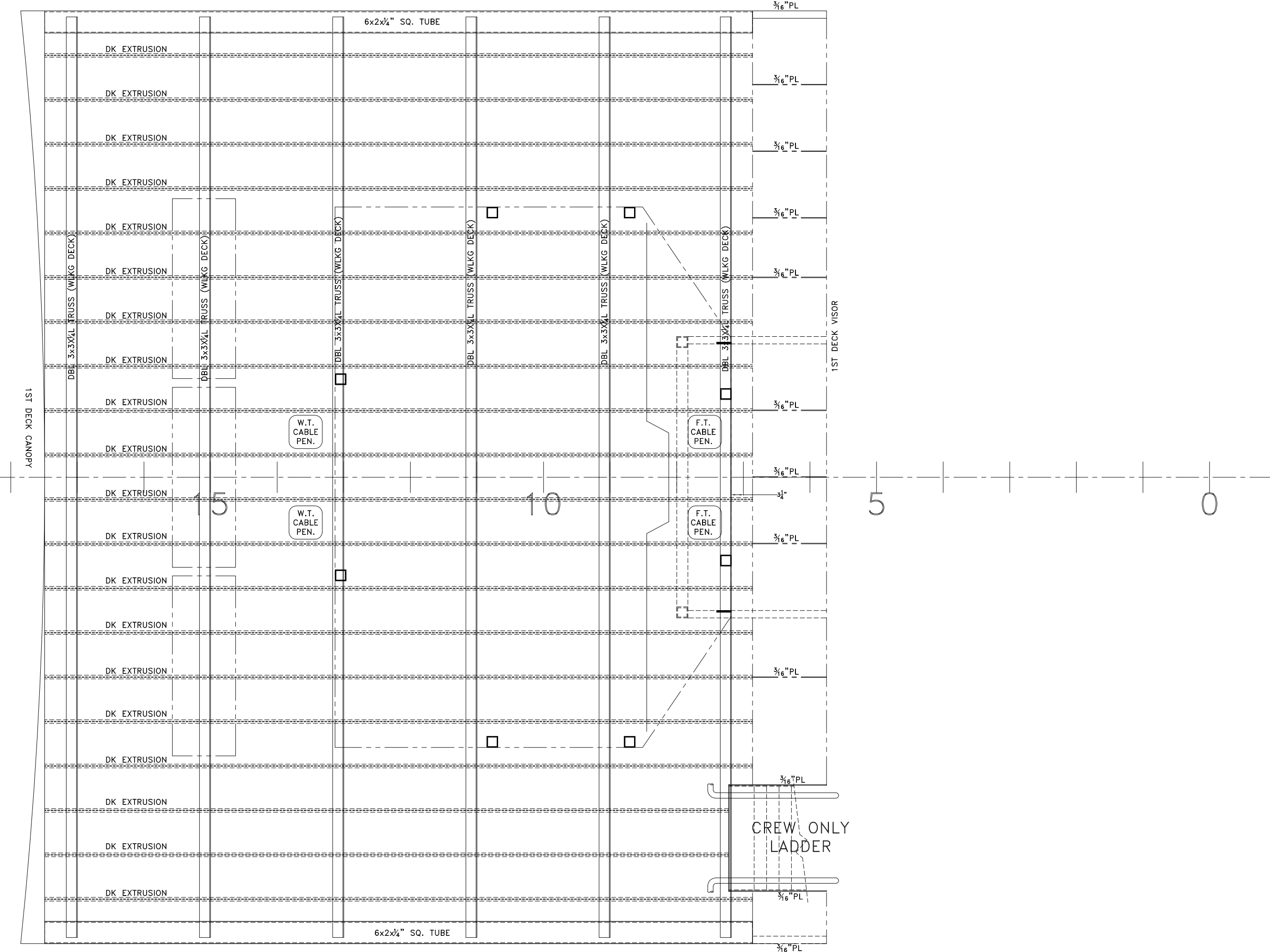
Title: **65' PASSENGER FERRY (DIESEL-ELECT HYBRID)**

MAIN DECK PLAN

Dwg. No. 22-1477-2020 Alt. No. 1
 Sht. 1 OF 1

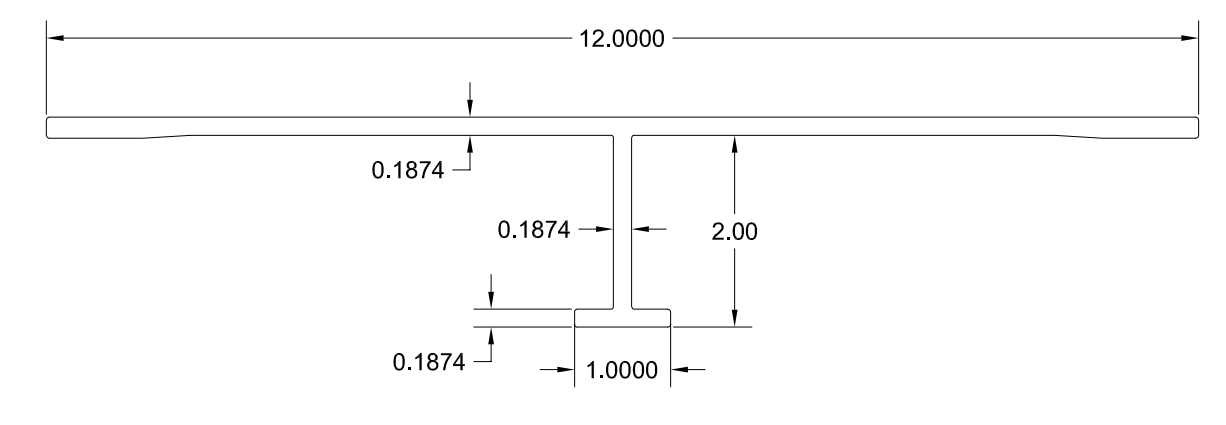
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 Checked By: _____ Date: _____
 App'd By: _____ Scale: $\frac{1}{2}$ "=1'-0"
 ABS App'l: _____ USCG App'l: _____

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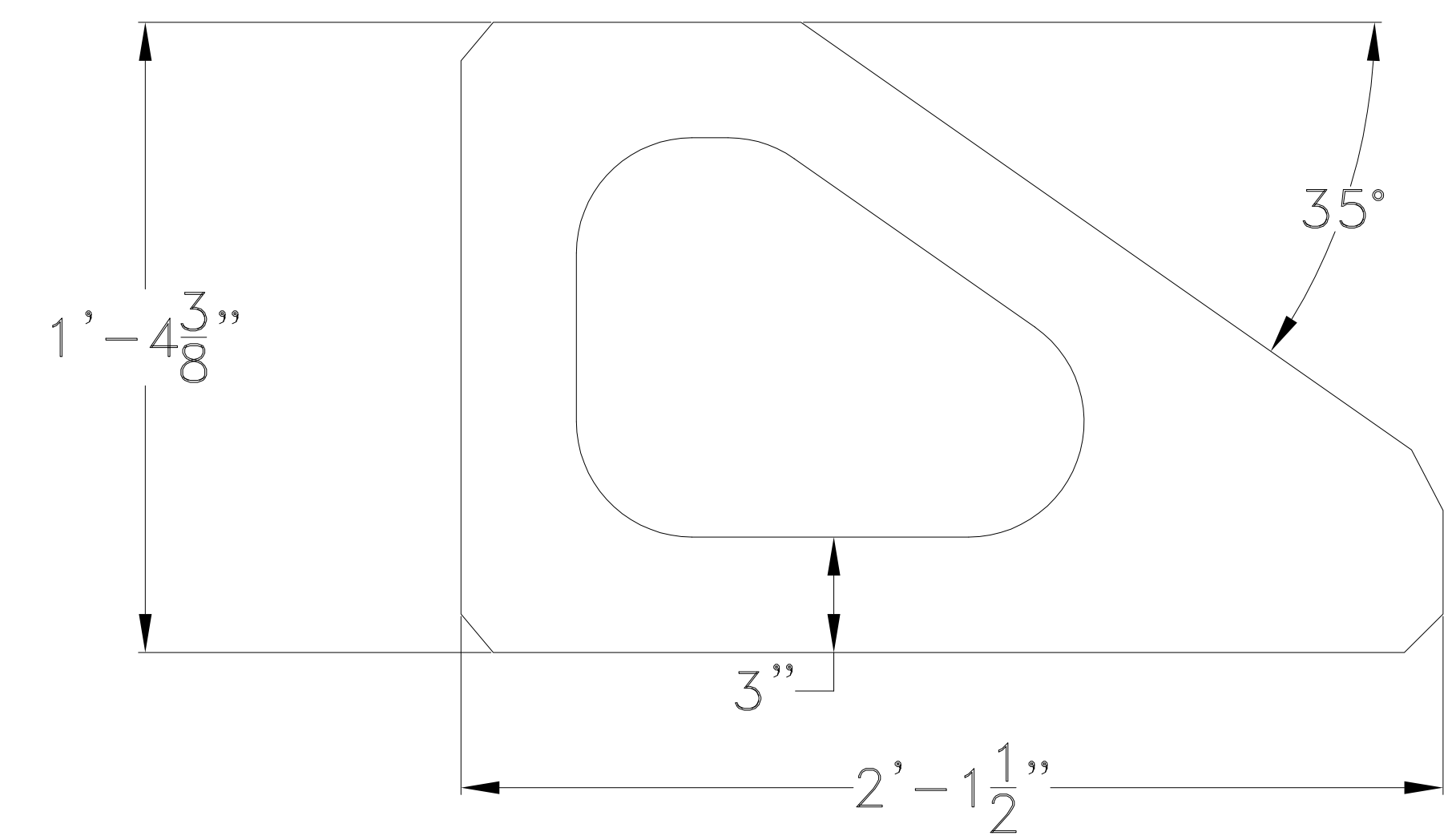


PILOTHOUSE DECK PLAN

PLATE: 6061 ALUMINUM DECK EXTRUSION WITH 2"X1"X $\frac{3}{16}$ " TEE



DECK EXTRUSION DETAIL:
6061-6T ALUMINUM DIE
SCALE: 1:2



VISOR FRAME DETAIL:
 $\frac{3}{16}$ " PL 6061-6T ALUMINUM
SCALE: 3"=1'-0"

-- GENERAL NOTES --		-- ALTERATIONS --		-- RESERVATIONS --		-- REFERENCES --	
NO.	DESCRIPTION	NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION

5	<p>DeJong & Lebet, Inc. Naval Architects Marine Engineers Consultants Surveyors 1734 Emerson Street Jacksonville, Florida 32207 www.dejongandlebet.com Phone: (904) 399-3673 Fax: (904) 399-1522 info@dejongandlebet.com</p>
4	
3	
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p	OWNERS MSC-USCG ALT. NO.
- DRAWING SUBMITTALS -	

Title: 65' PASSENGER FERRY (DIESEL-ELECT HYBRID)

PILOTHOUSE DECK PLAN

Dwg. No. 22-1477-2021 Alt. No. 0 SH: 1 OF 1

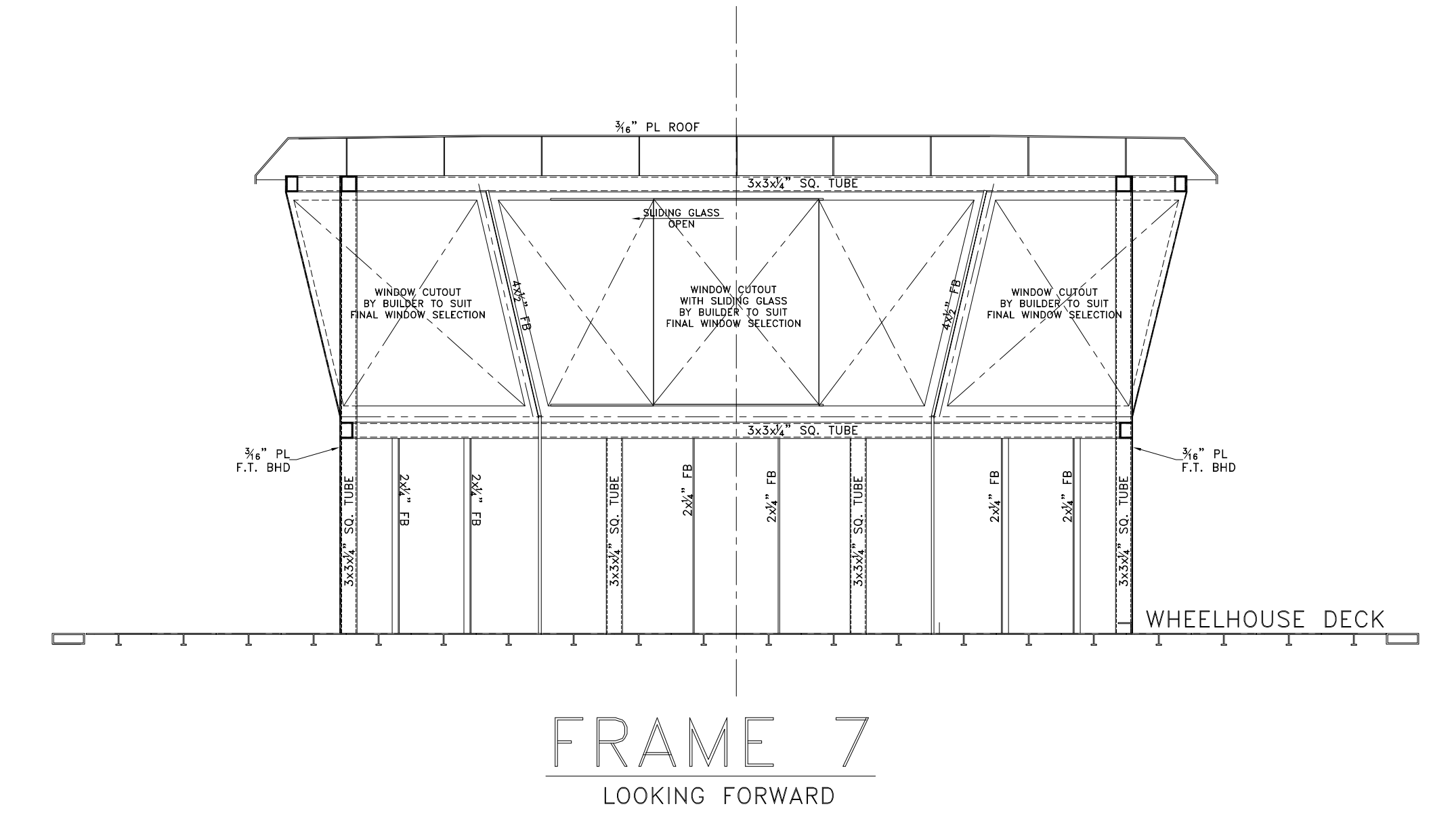
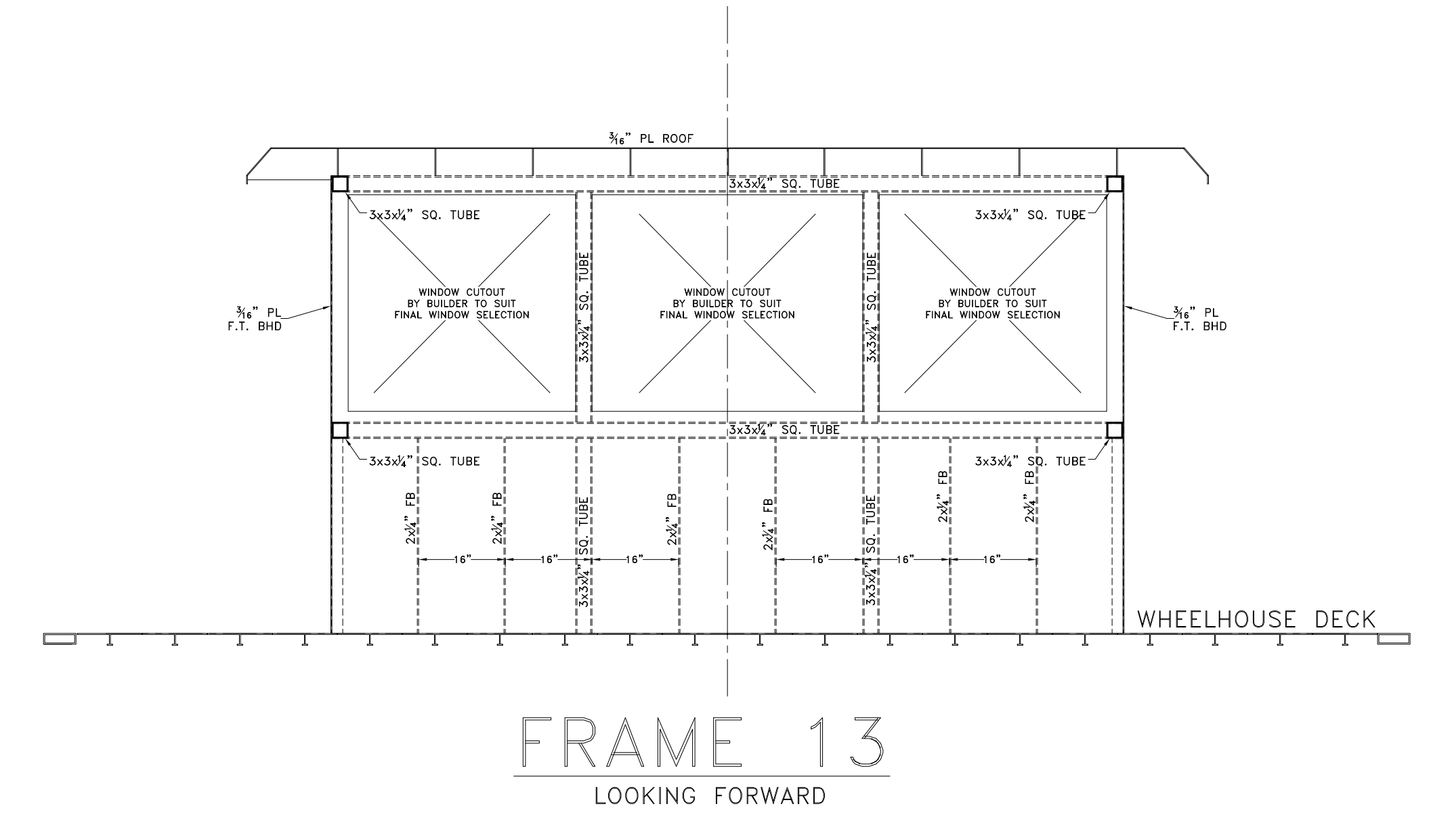
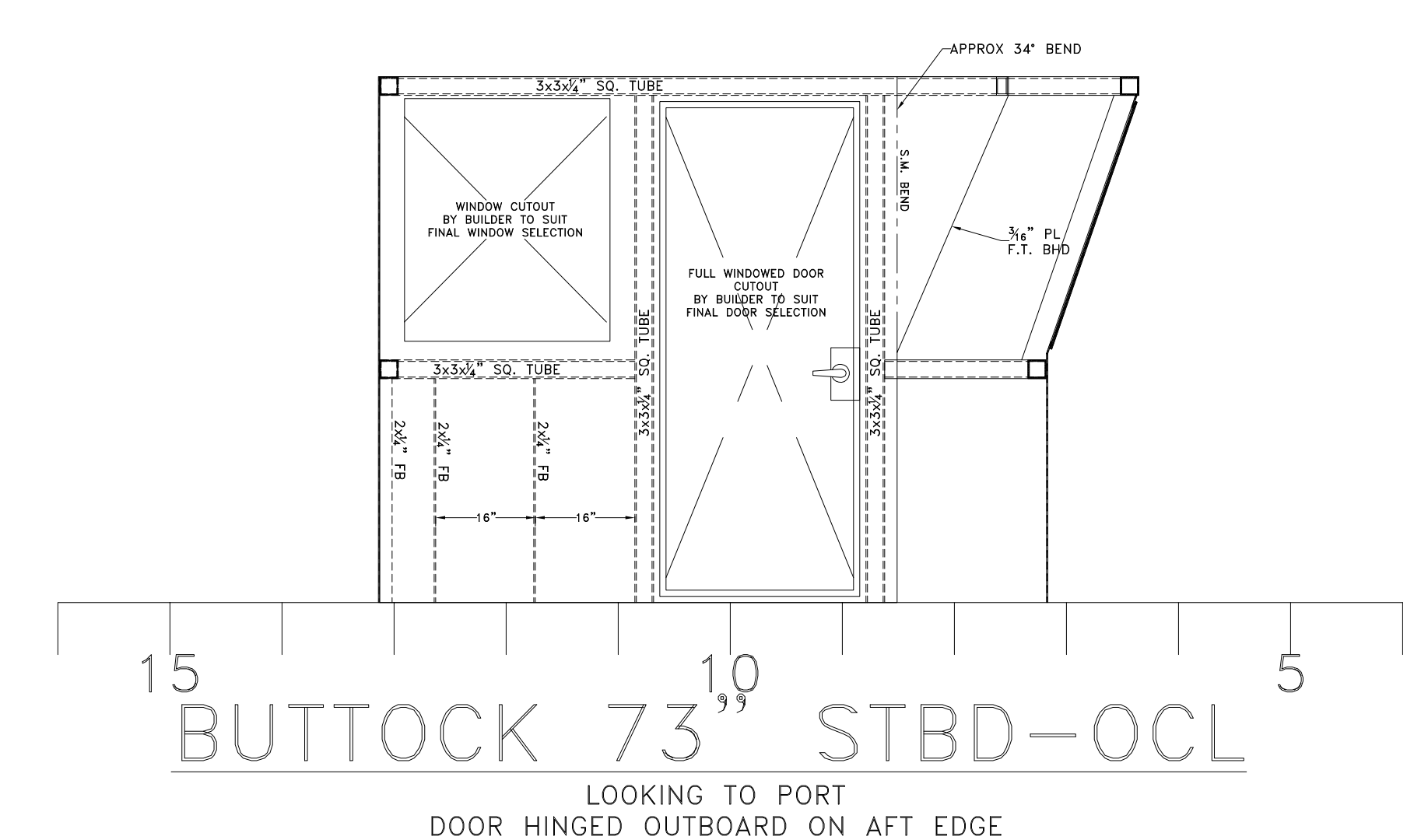
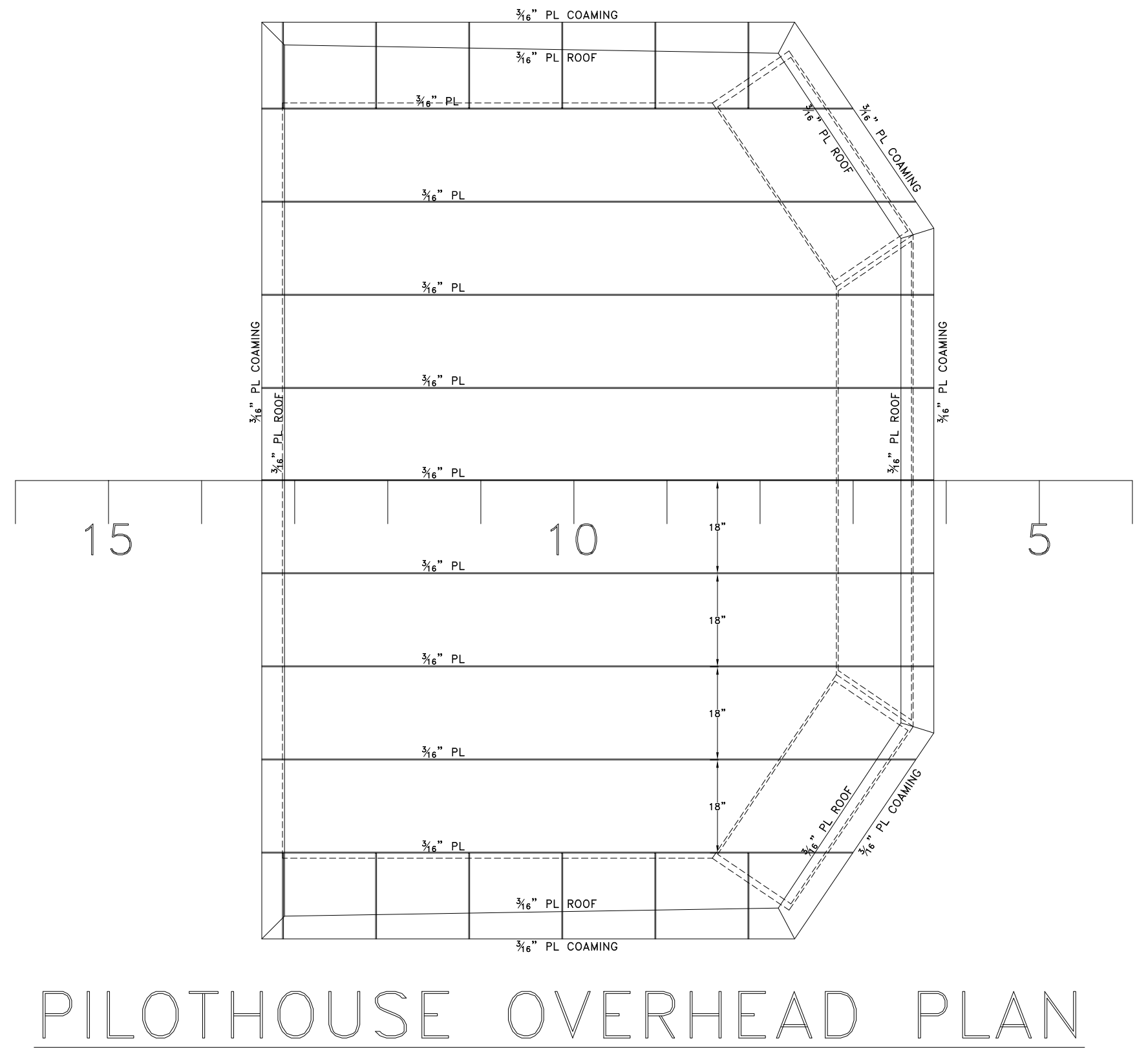
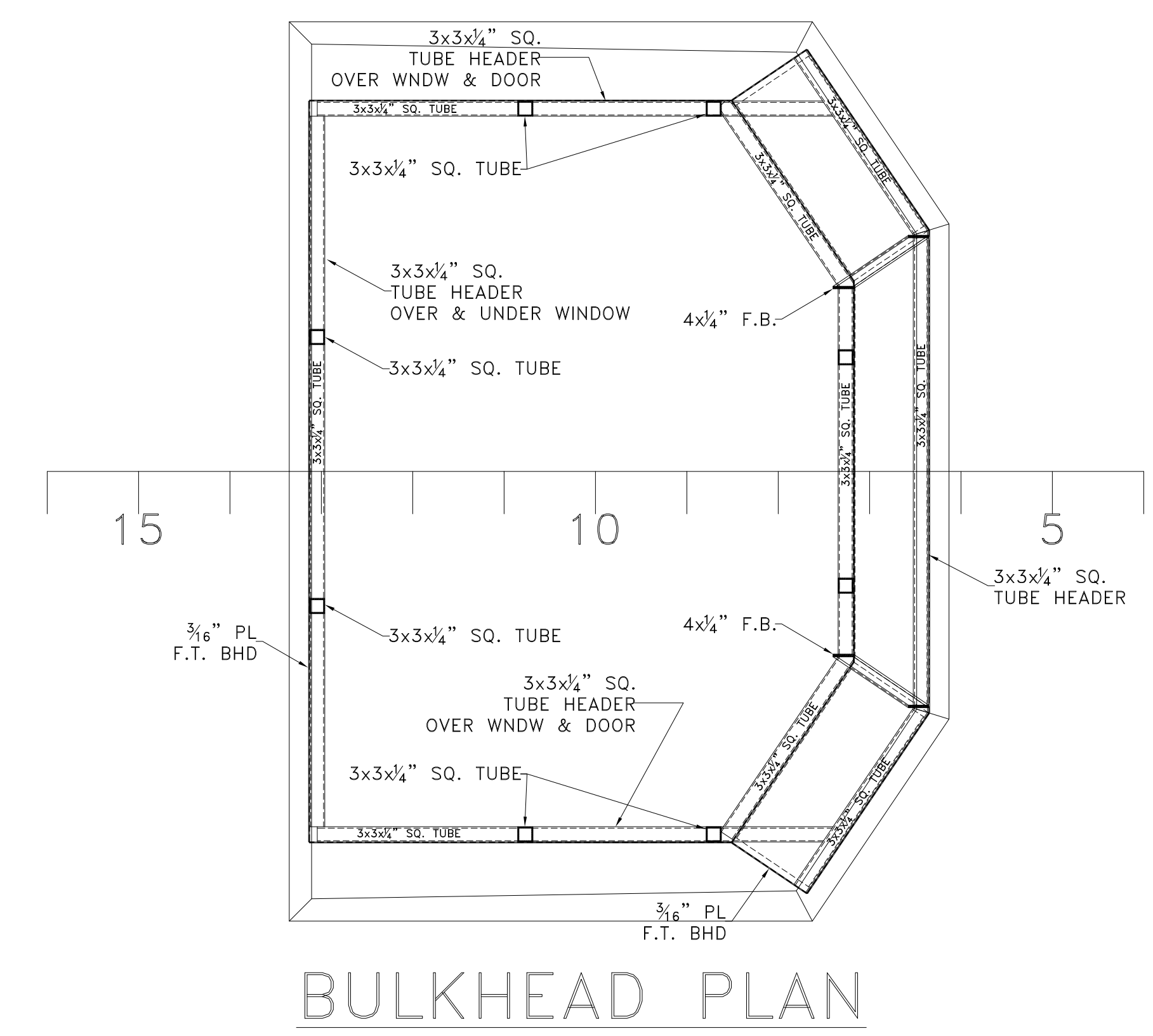
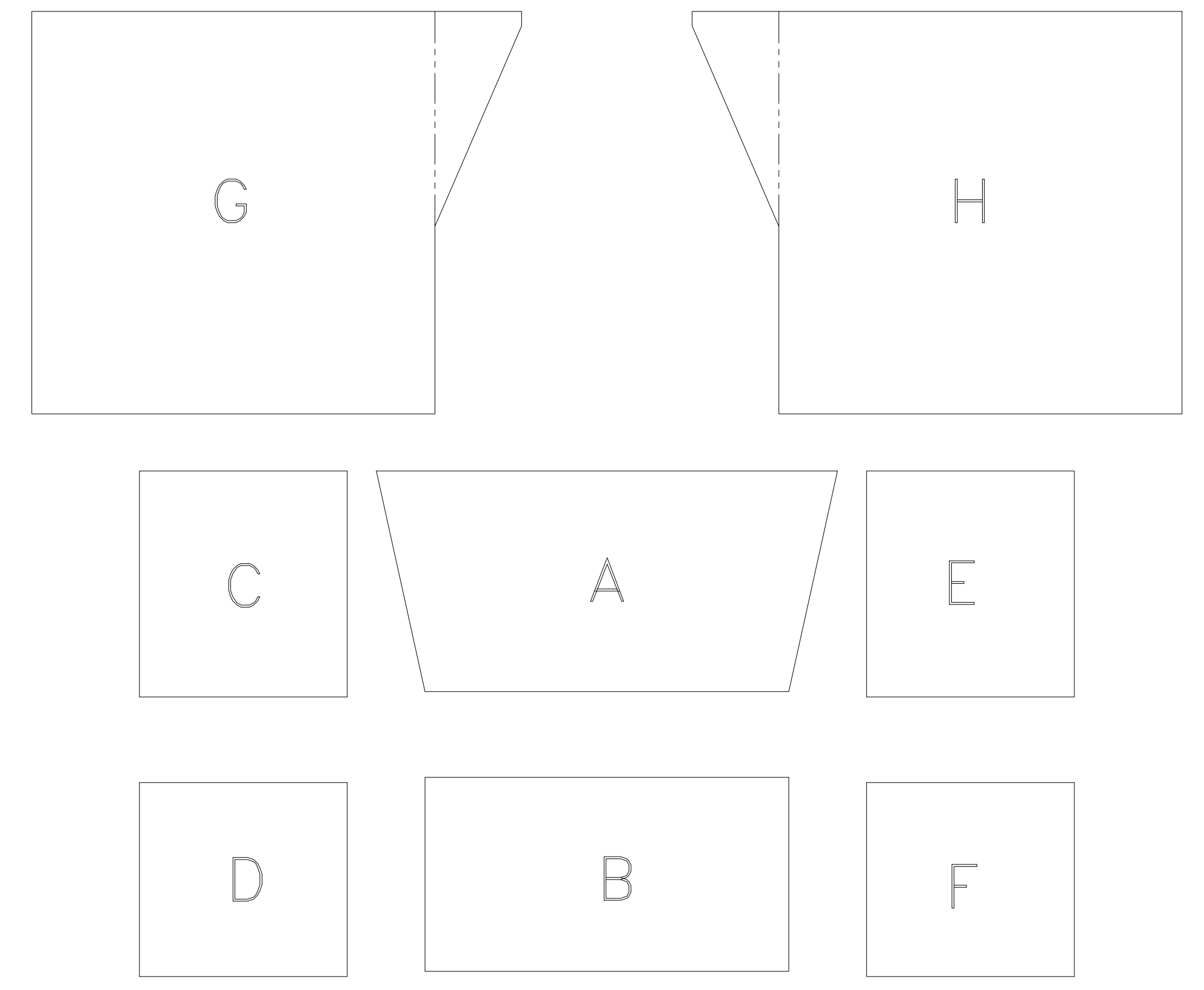
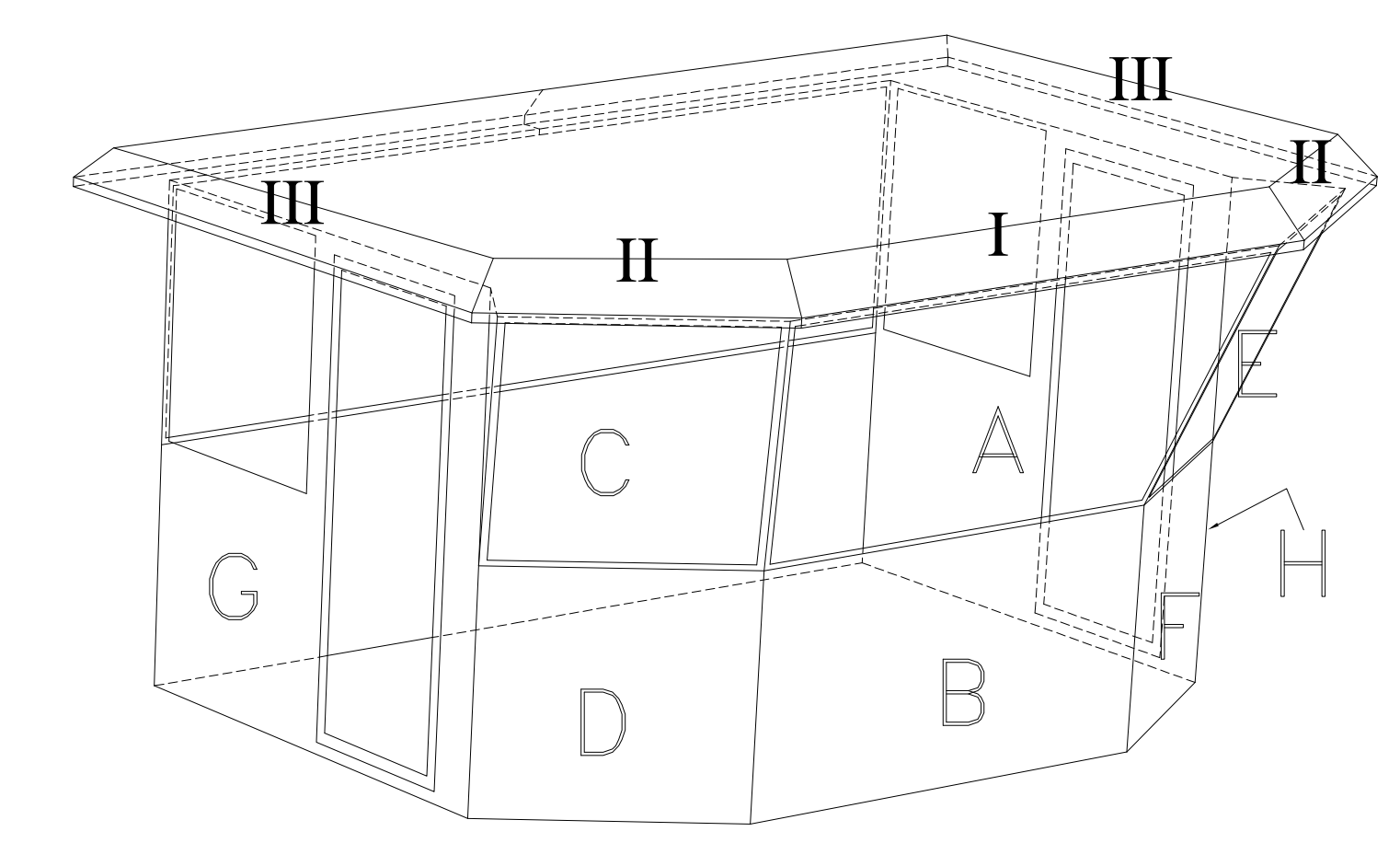
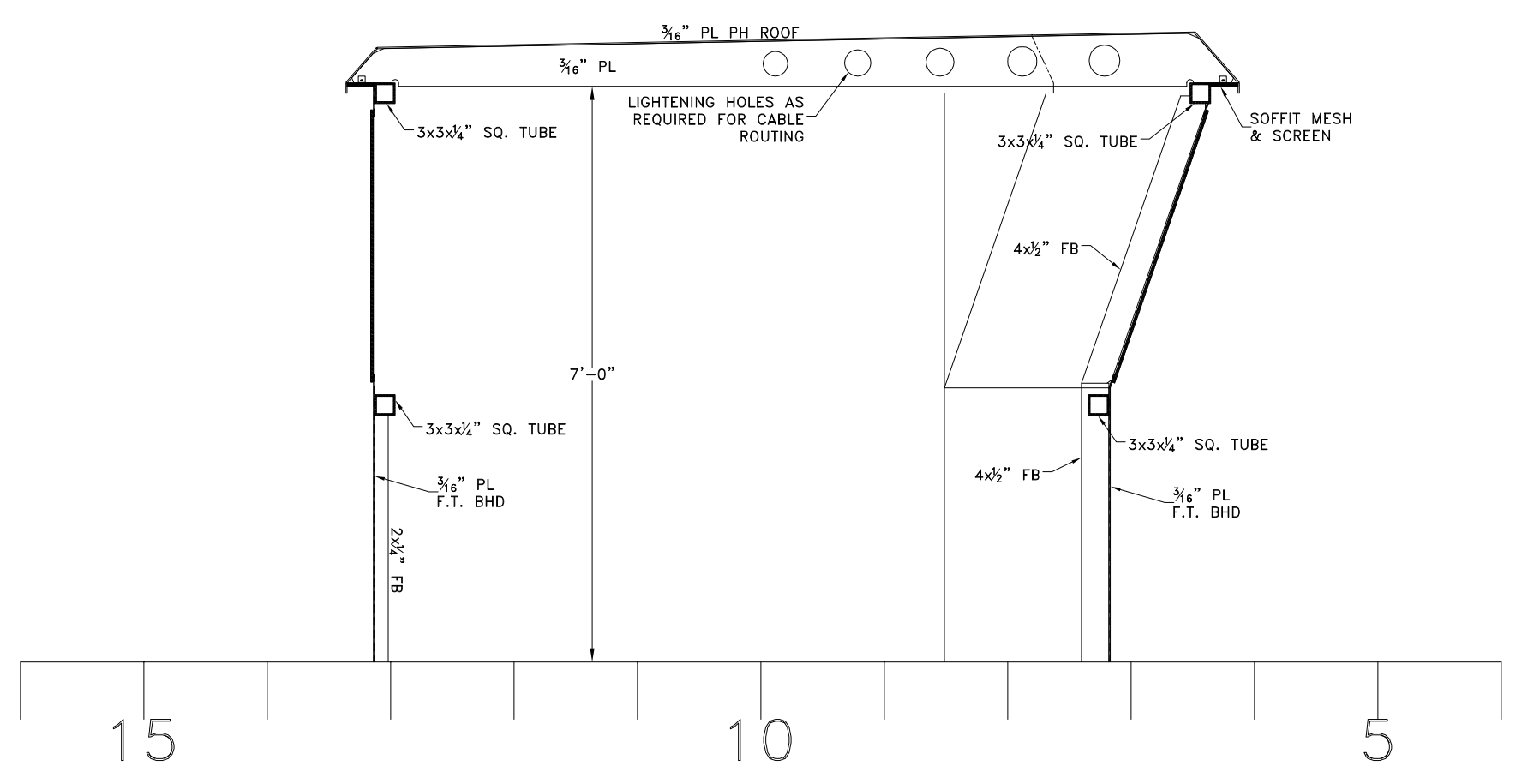
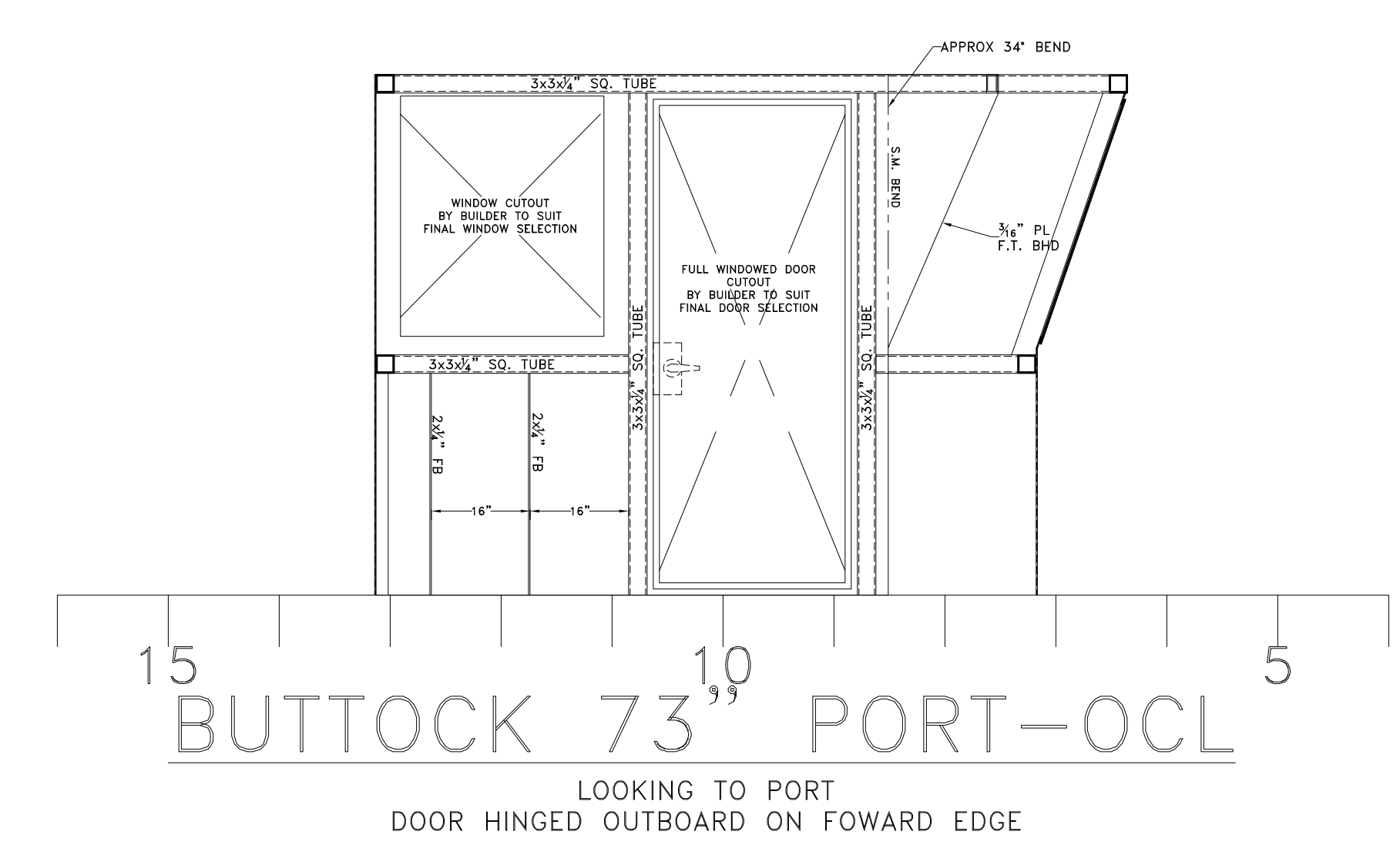
Drawn By: BRIAN BOUDREAU Date: 9 JUNE 2022

Checked By: _____ Date: _____

App'd By: _____ Scale: $\frac{1}{2}$ " = 1'-0"

ABS App'l: _____ USCG App'l: _____

8 7 6 5 4 3 2 1



GENERAL NOTES -			ALTERATIONS -			RESERVATIONS -			REFERENCES -		
NO.	DESCRIPTION	DATE	NO.	DESCRIPTION	DATE	NO.	DESCRIPTION	DATE	NO.	DESCRIPTION	DATE

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Title: **65' PASSENGER FERRY (DIESEL-ELECT HYBRID)**
PILOTHOUSE DETAILS

Dwg. No. 22-1477-2038 Alt. No. 0
 Sh. 1 OF 1

Drawn By: **BRIAN BOUDREAU** Date: **9 JUNE 2022**
 Checked By: _____ Date: _____
 App'd By: _____ Scale: $\frac{1}{2}'' = 1'-0''$
 ABS App'l: _____ USCG App'l: _____

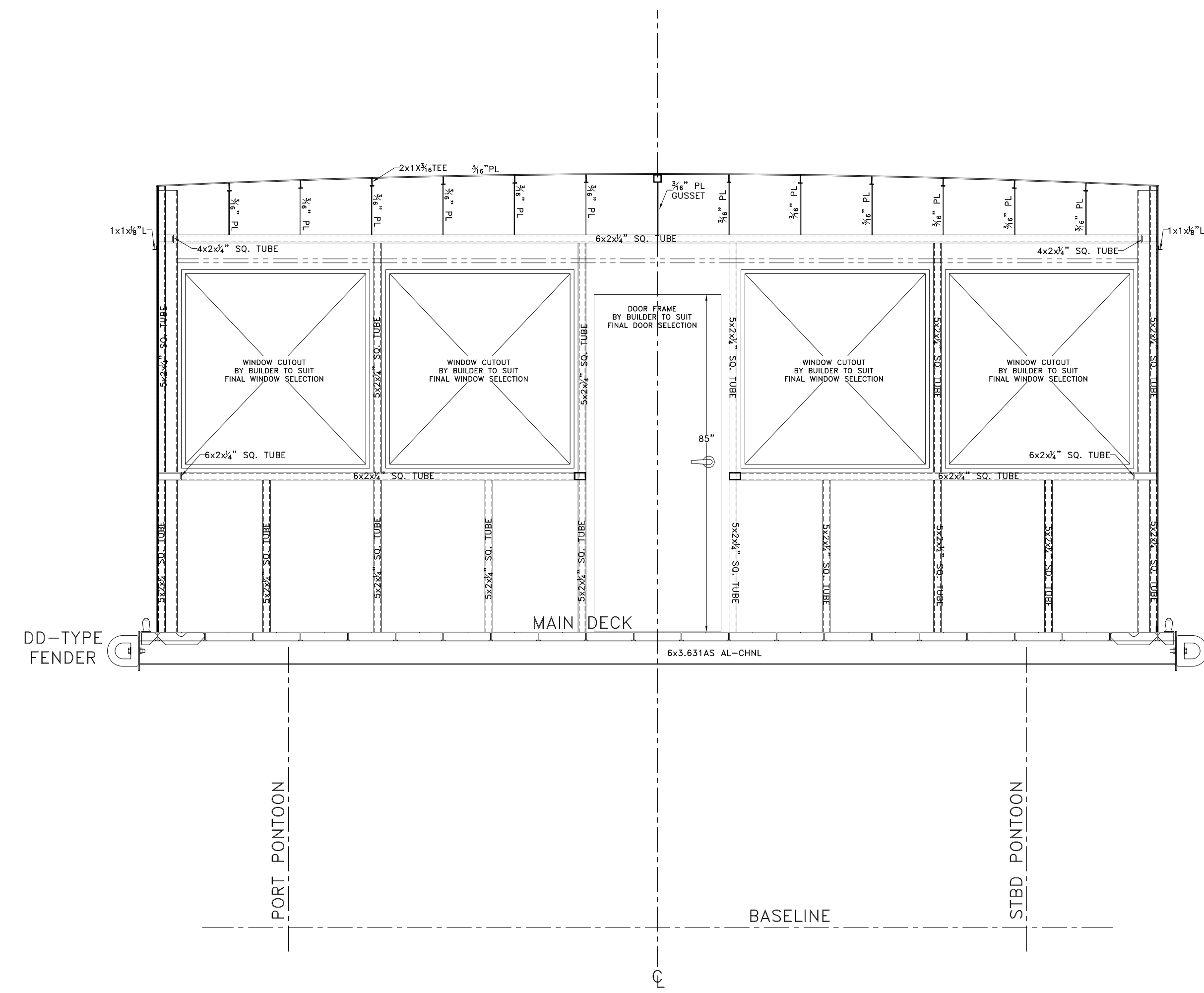
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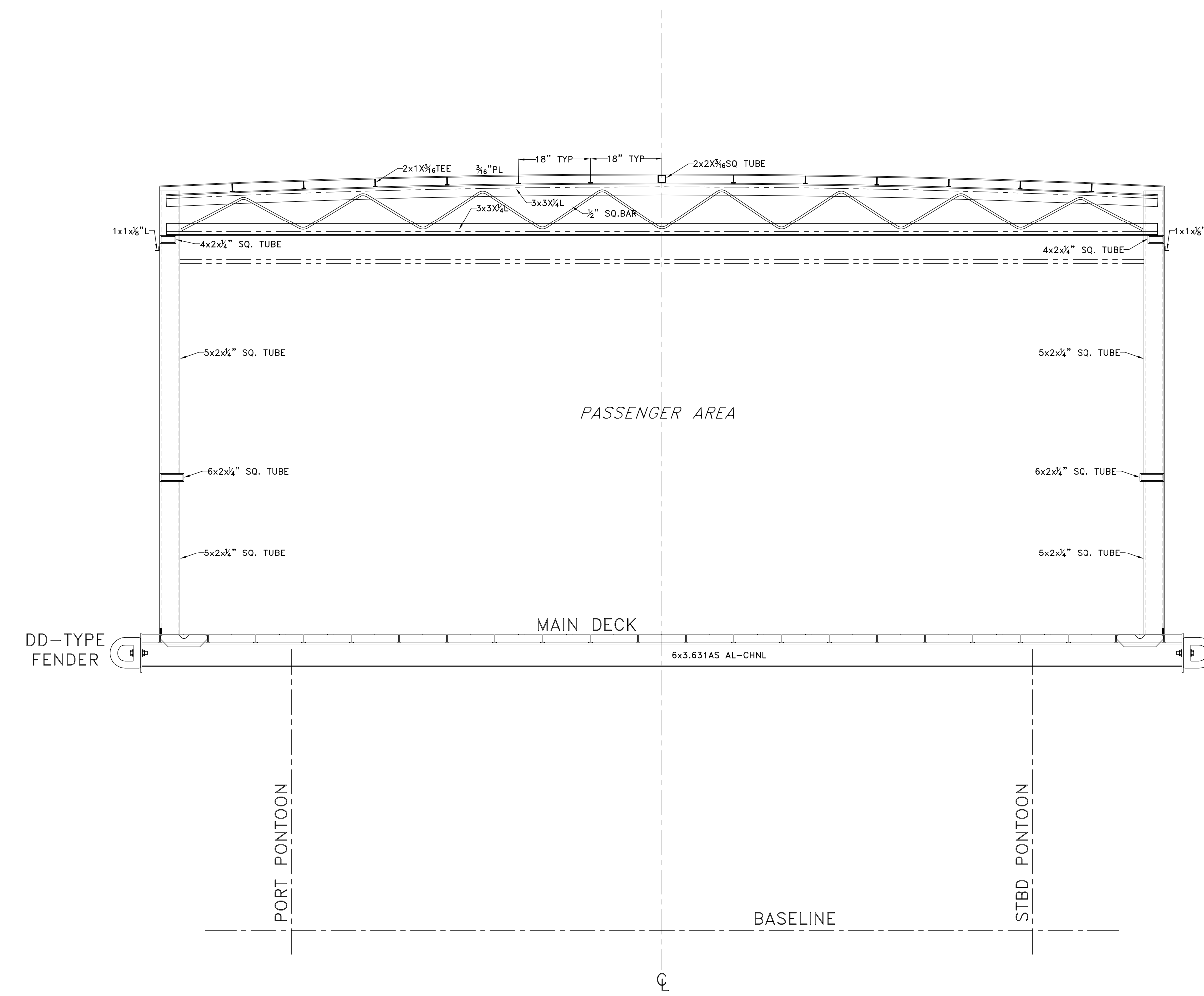
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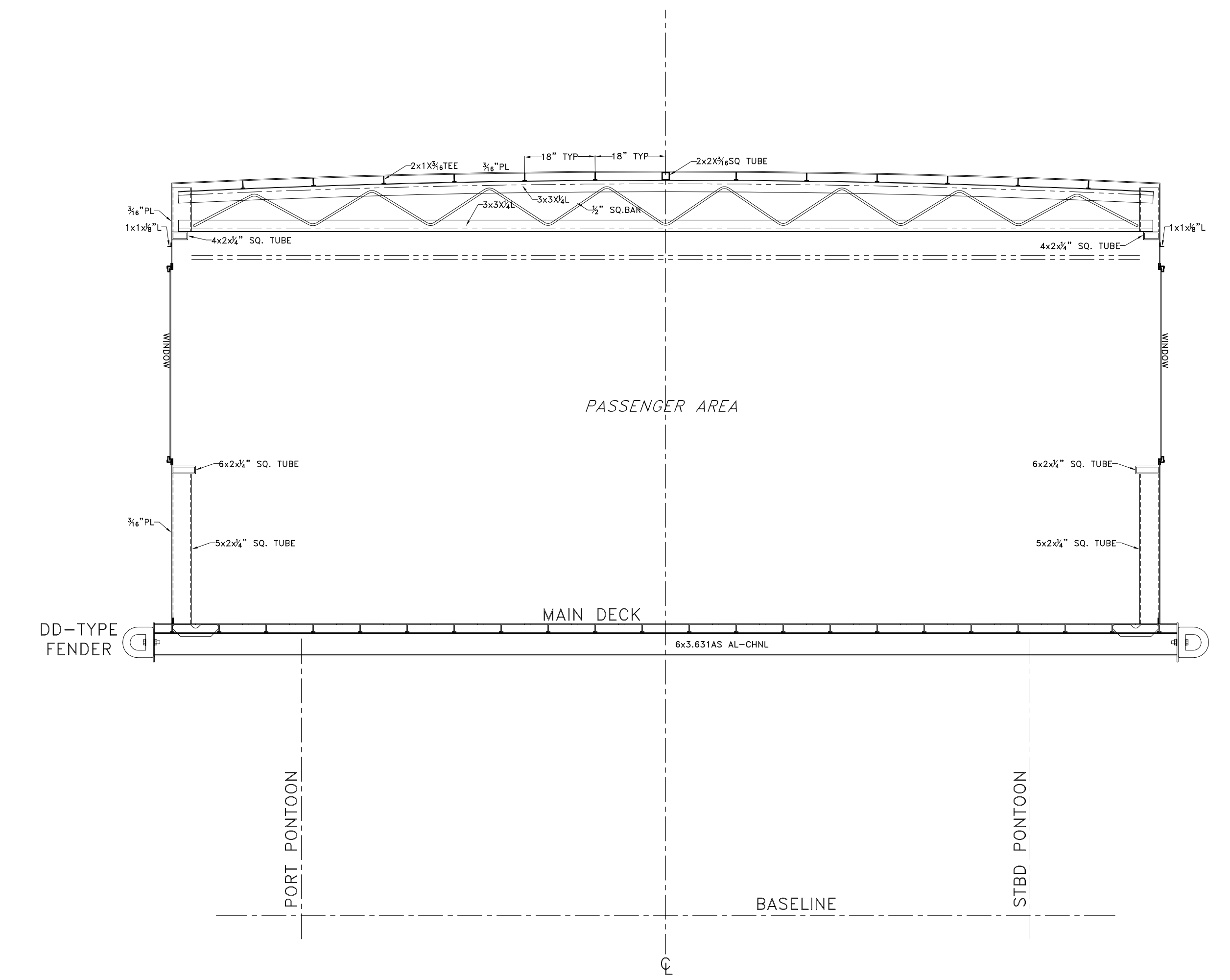
8 7 6 5 4 3 2 1 ANSI-E (34"x44")



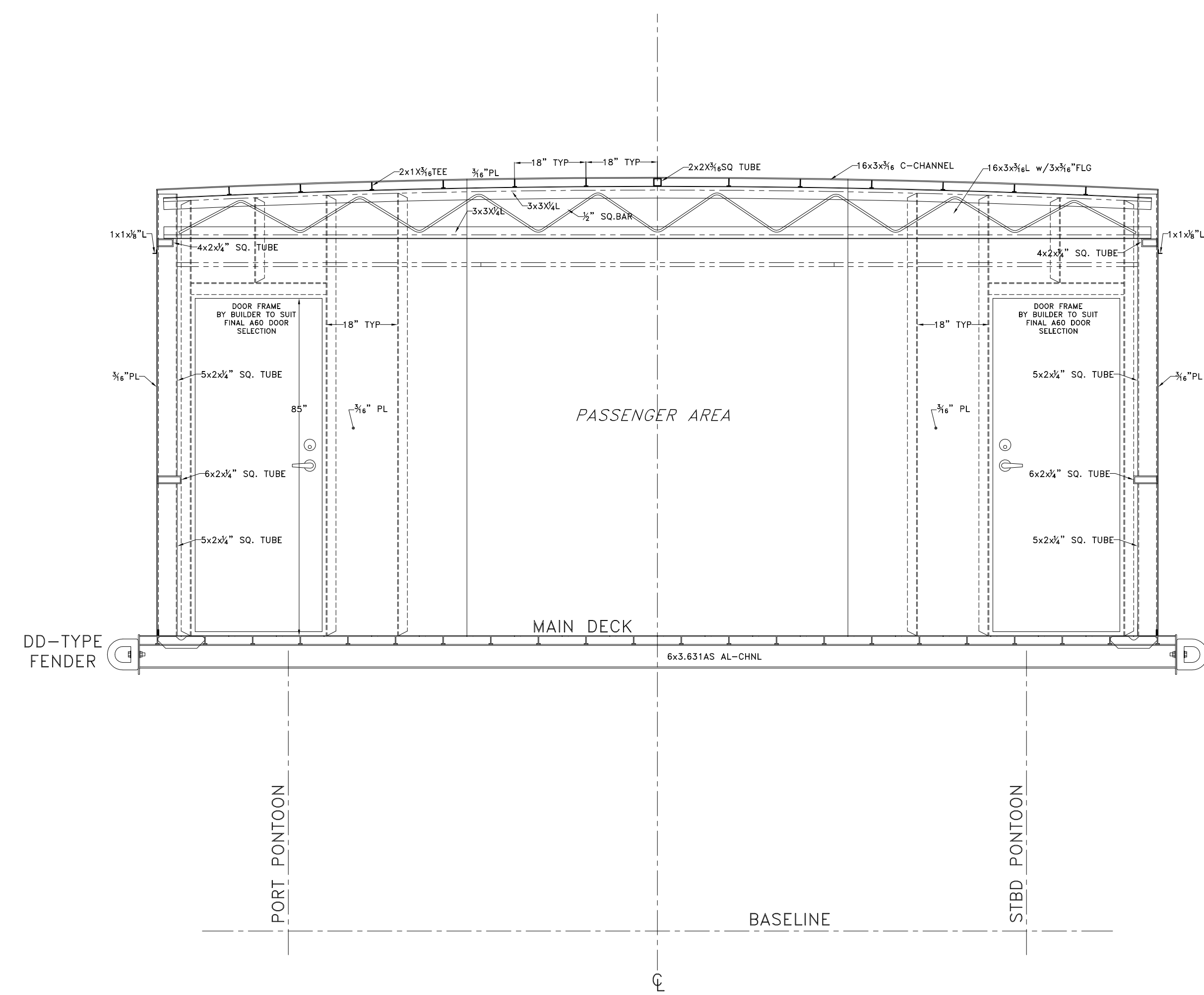
SECTION: FANTAIL



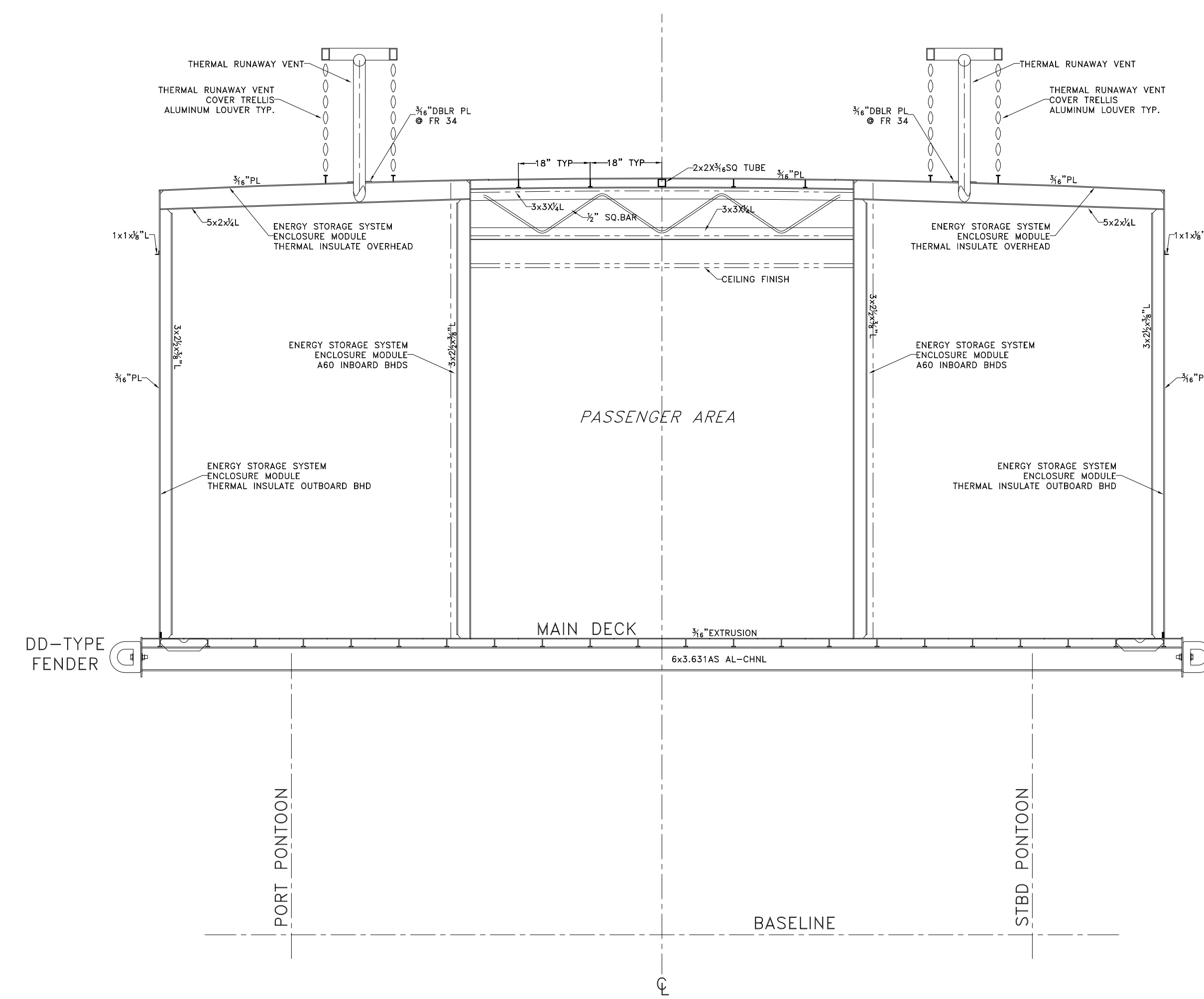
SECTION: FRAME 41



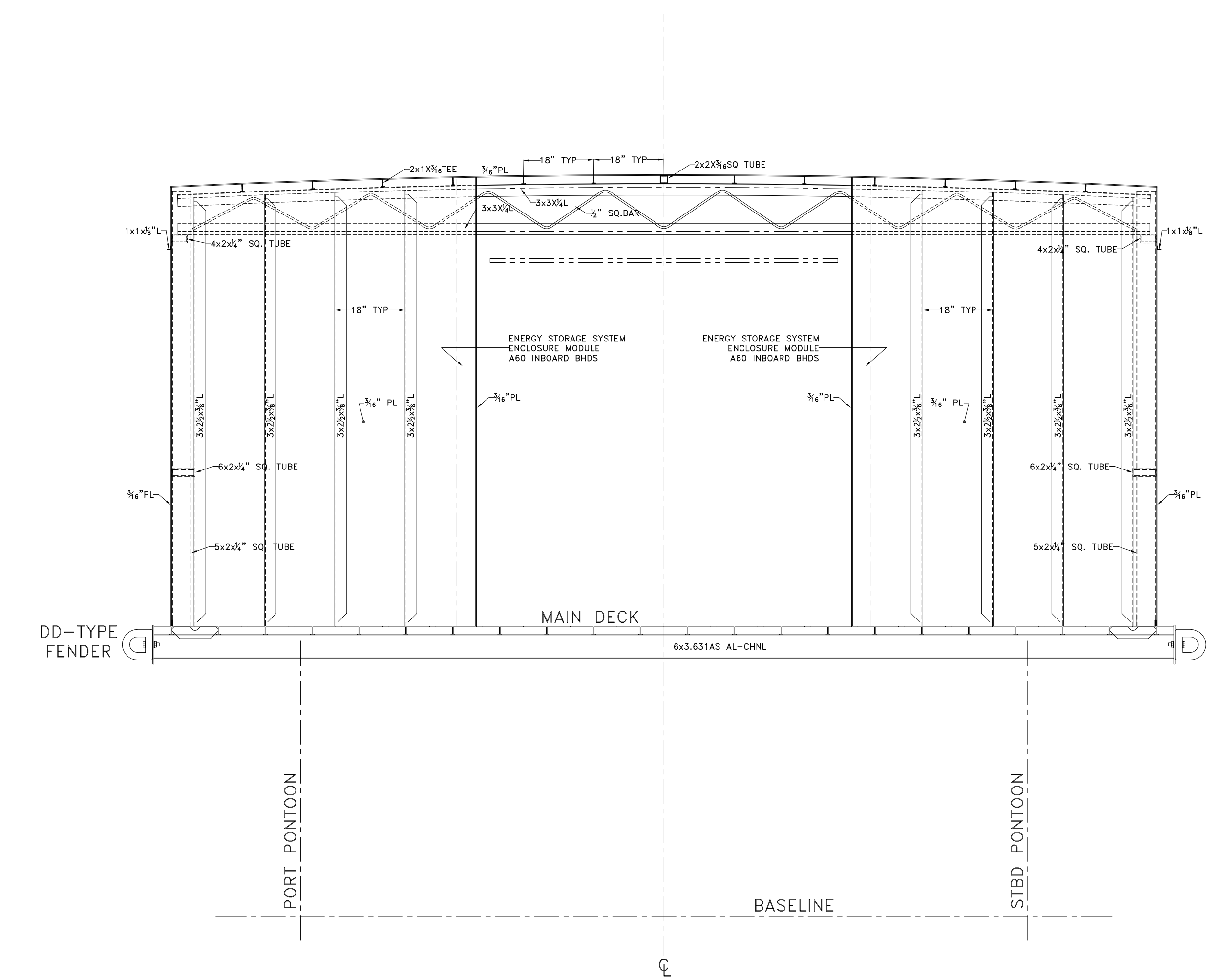
SECTION: FRAME 39



SECTION: FRAME 37



SECTION: FRAME 31,33,35

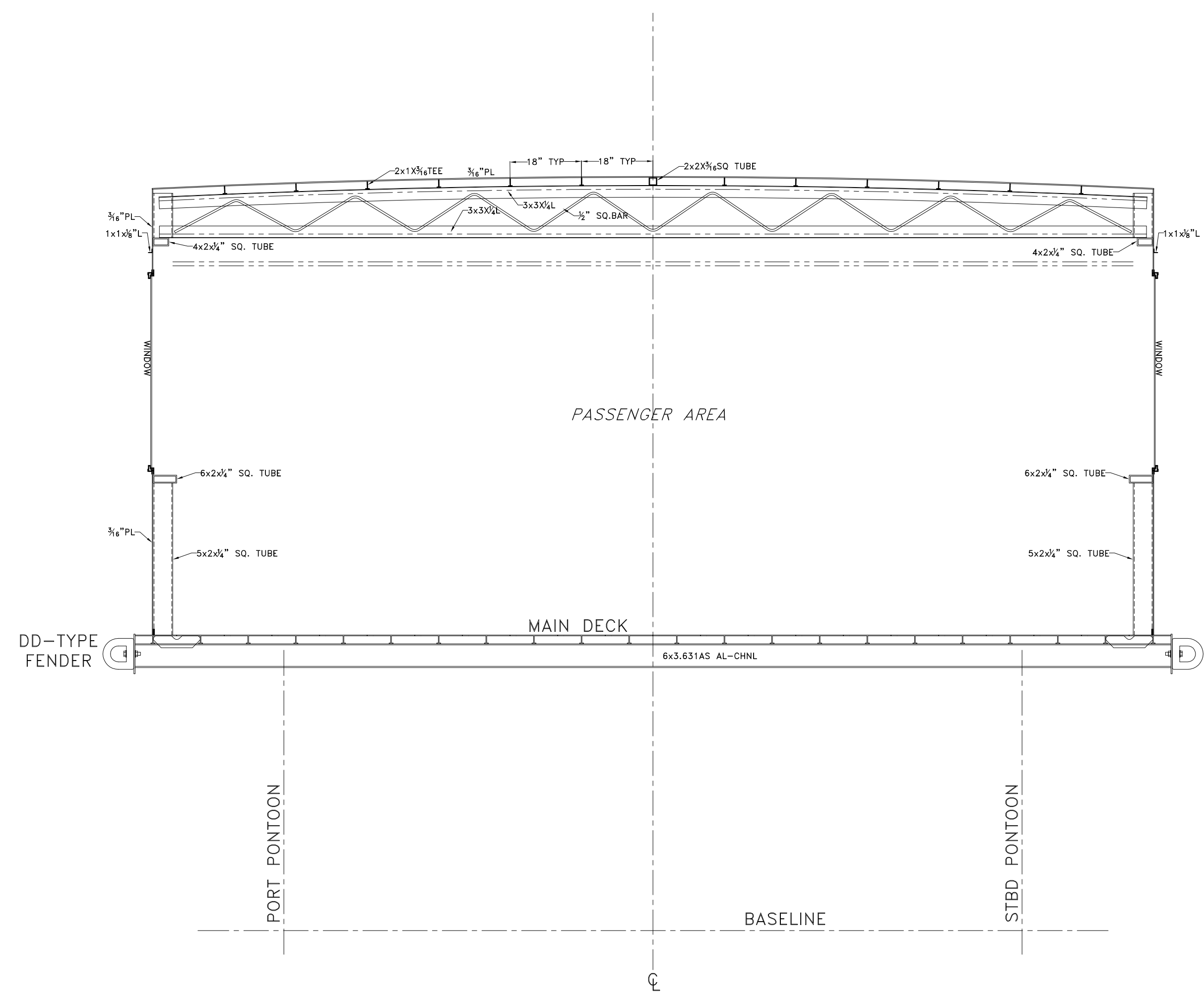


SECTION: FRAME 29

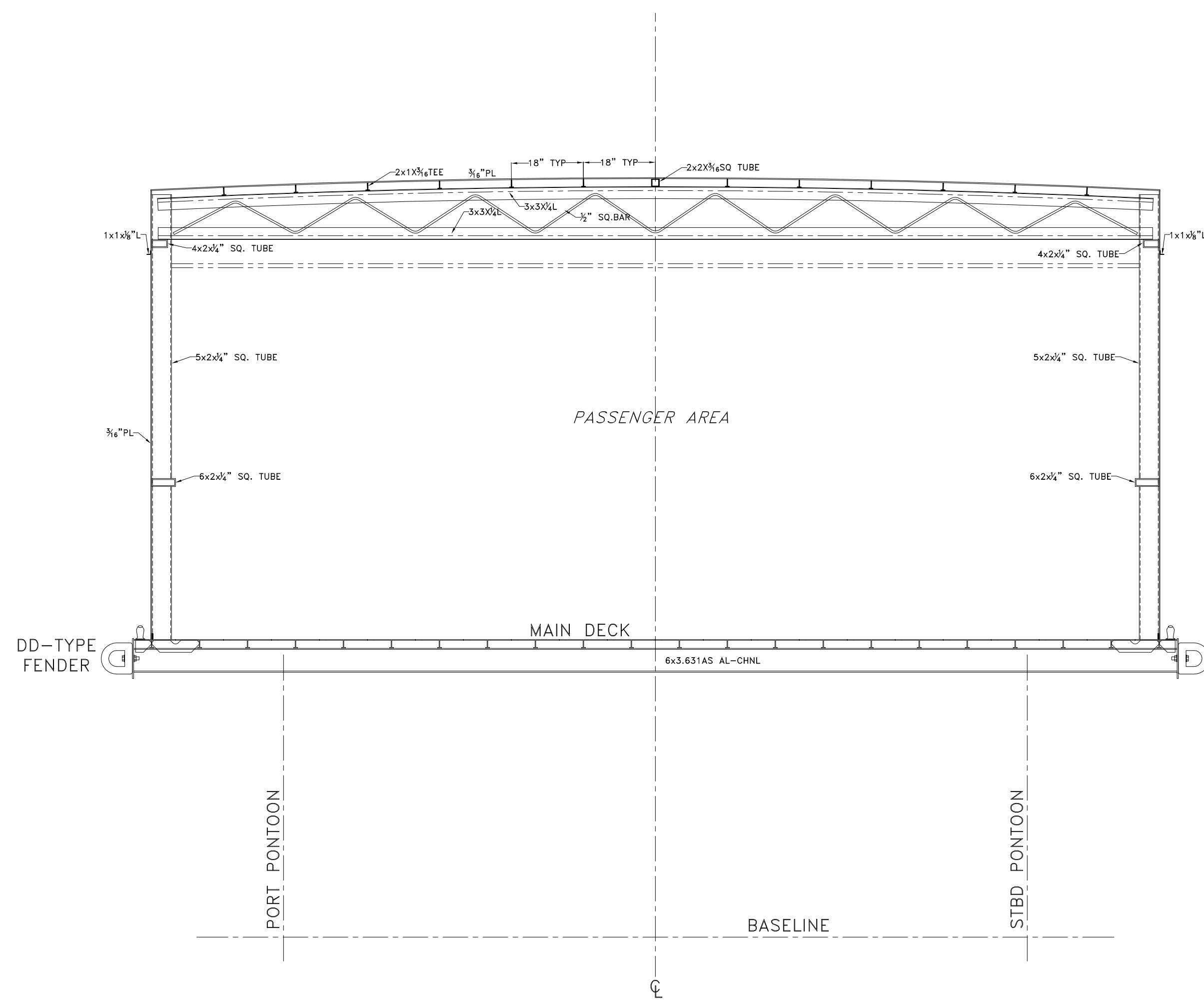
-- GENERAL NOTES --				-- ALTERATIONS --				-- RESERVATIONS --				-- REFERENCES --			
NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION		

DeJong & Lebet, Inc. Naval Architects Marine Engineers Consultants Surveyors 1734 Emerson Street Jacksonville, Florida 32207 Phone: (904) 399-3673 Fax: (904) 399-1522 info@dejongandlebet.com	65' PASSENGER FERRY (DIESEL-ELECT HYBRID) MAIN DECK HOUSE DETAILS Dwg. No. 22-1477-2039 Alt. No. 0 Sh. 1 OF 3 Date: 9 JUNE 2022 Scale: 1/2" = 1'-0" USCG App'l:
Drawn By: BRIAN BOUDREAU Checked By: App'd By: ABS App'l:	Date: Scale: USCG App'l:

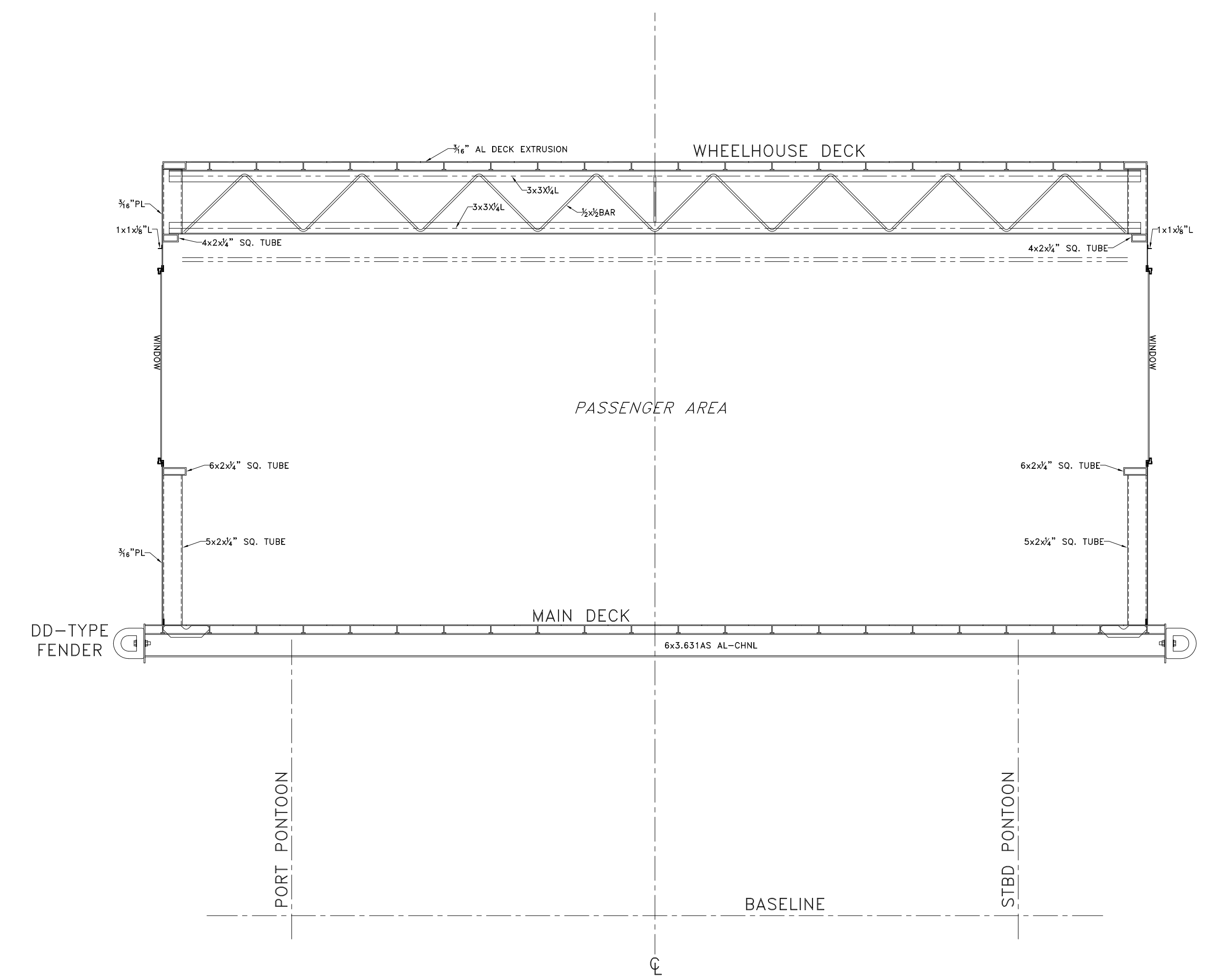
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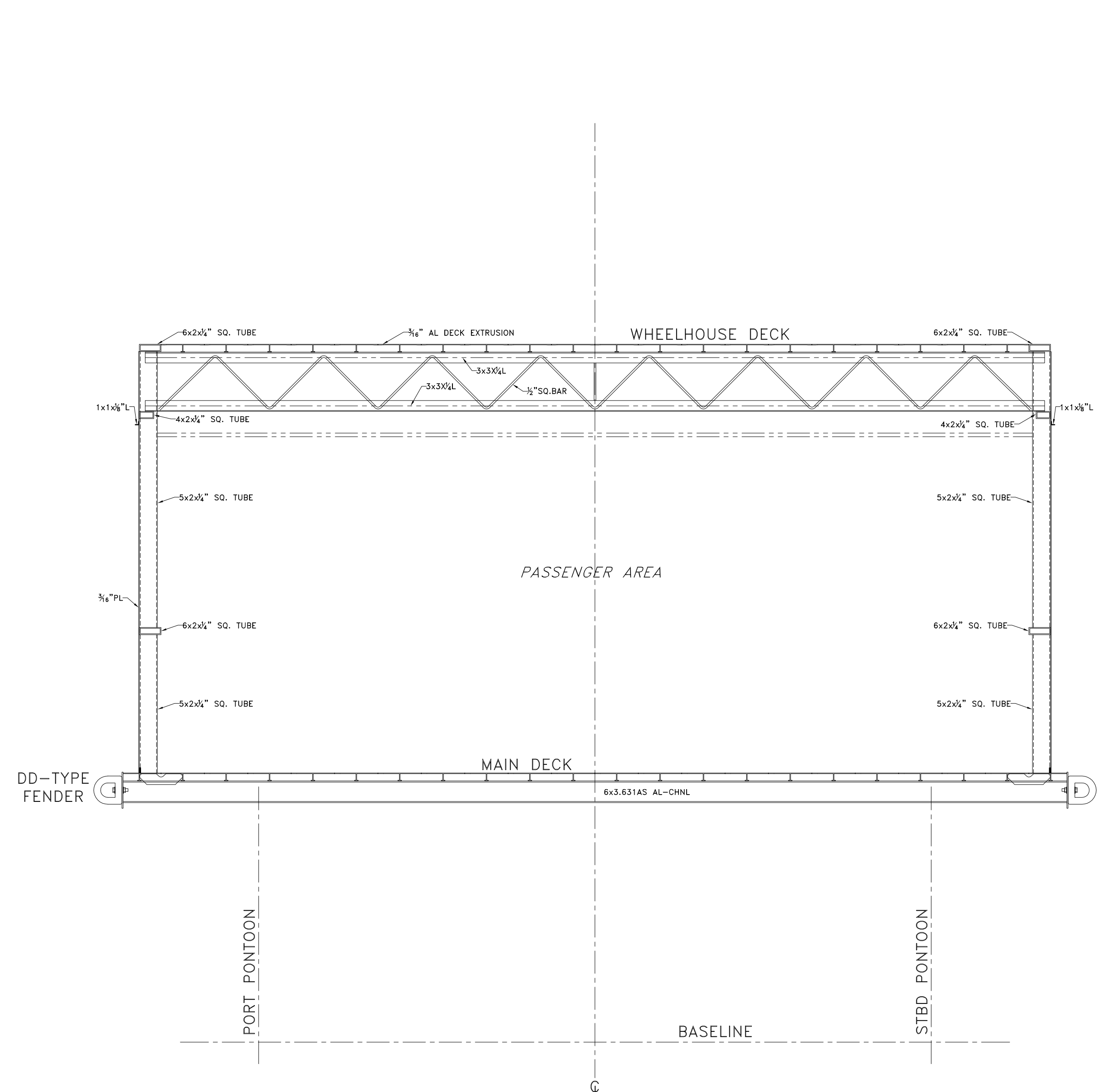
SECTION: FRAME 19,23,27



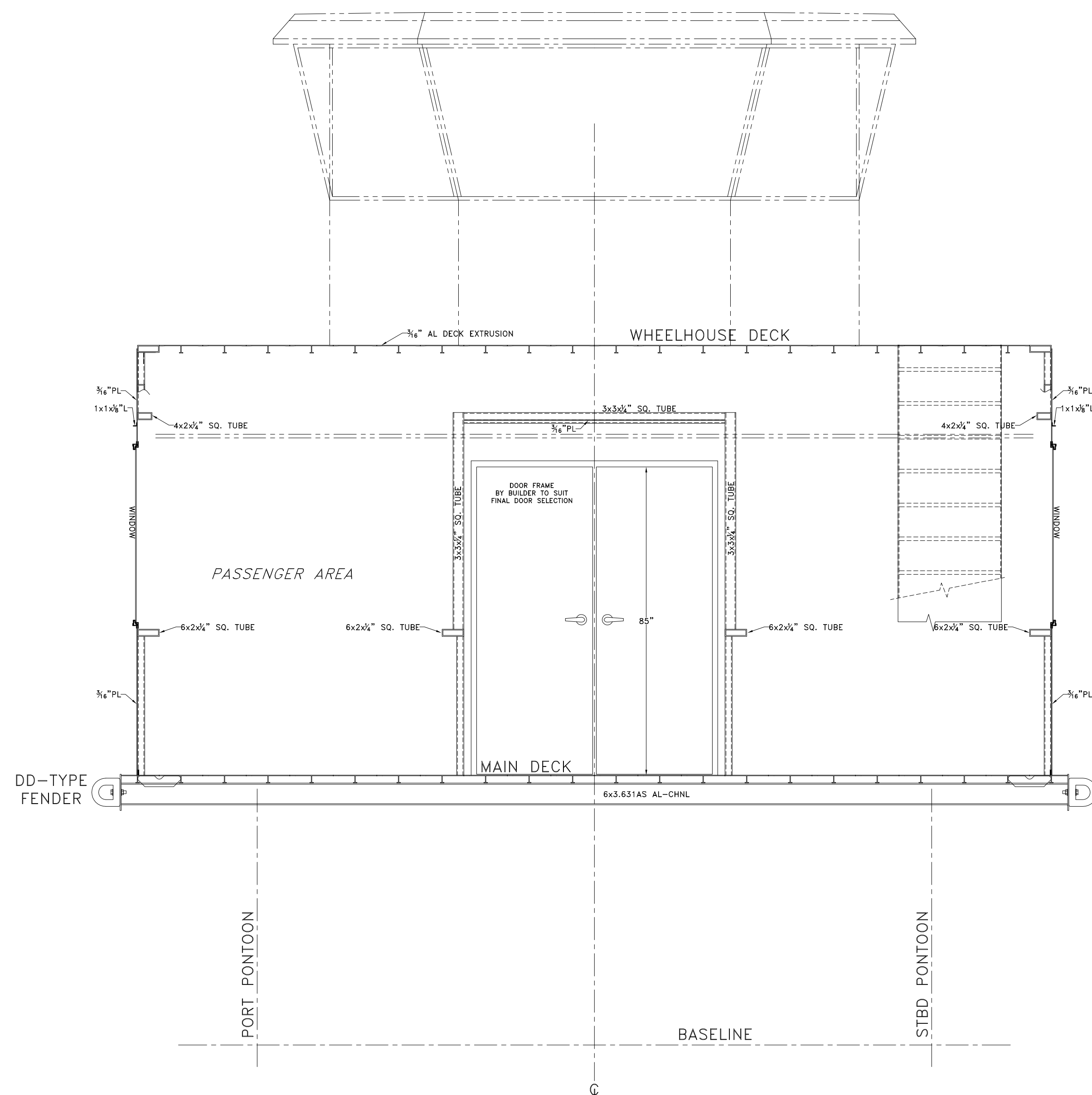
SECTION: FRAME 21,25



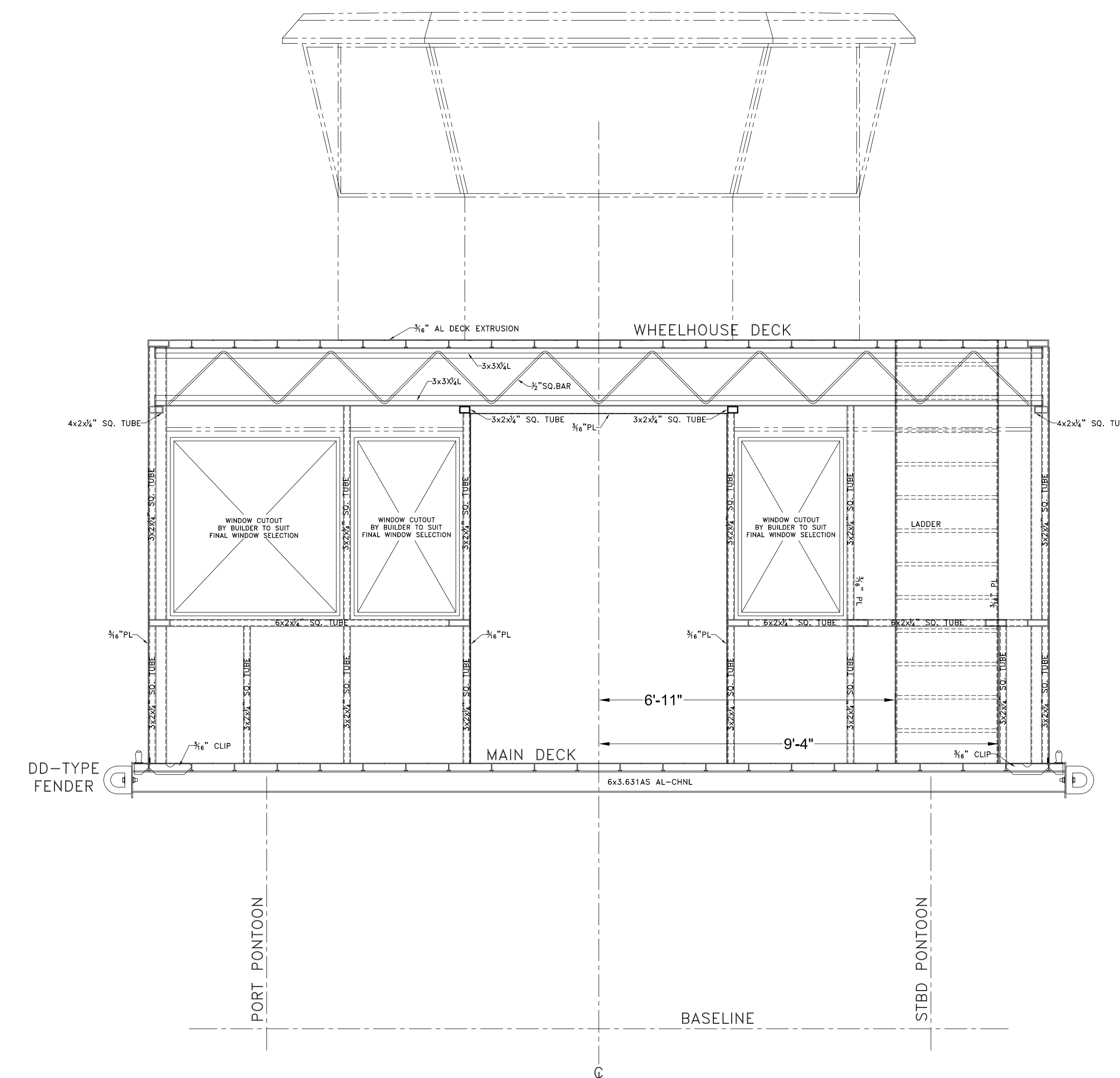
SECTION: FRAME 11,15



SECTION: FRAME 9,13,17



SECTION: FRAME 8



SECTION: FRAME 6,7

GENERAL NOTES			ALTERATIONS			RESERVATIONS			REFERENCES		
NO.	DESCRIPTION	NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	NO.	DESCRIPTION		

NO.	DESCRIPTION	DATE	BY

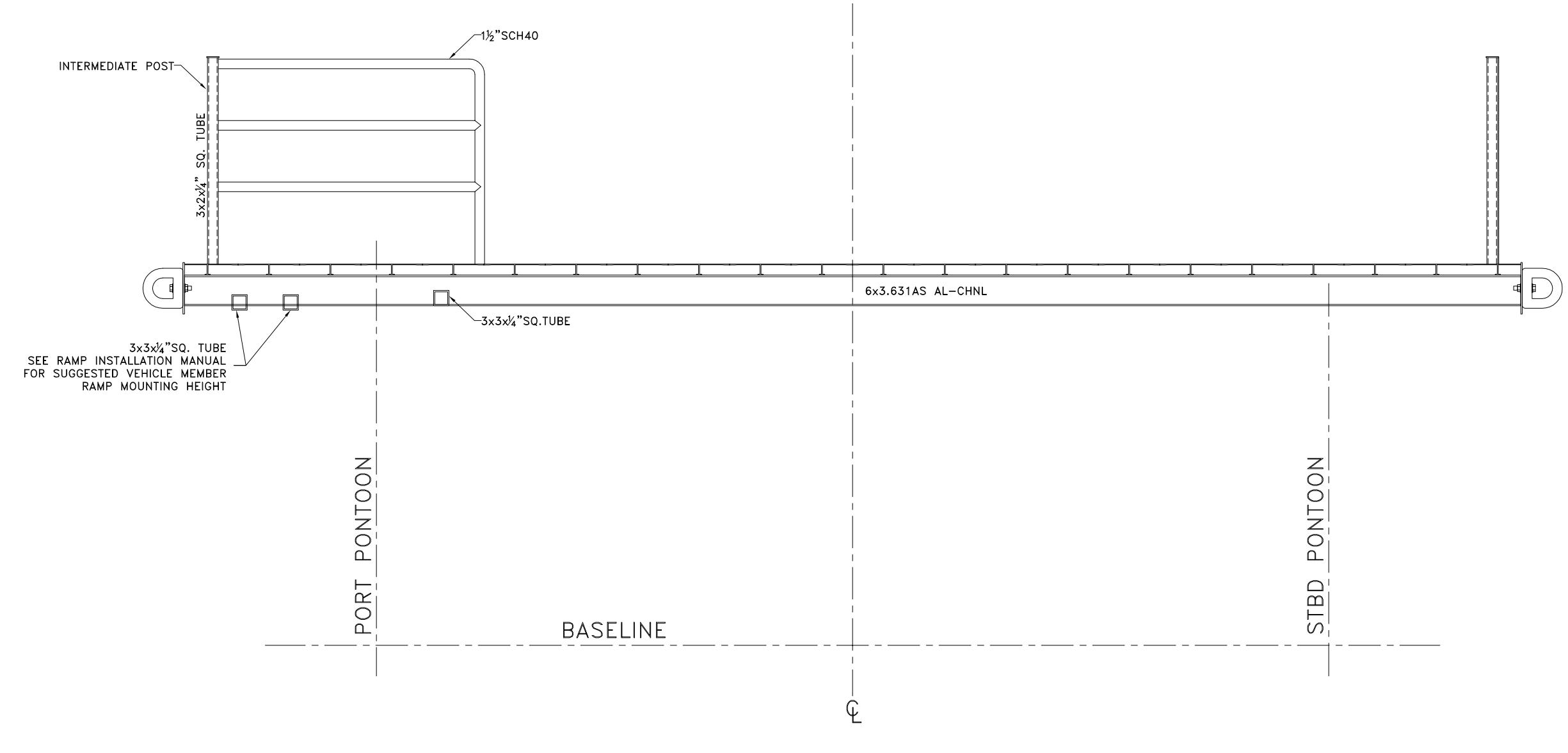
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Title: 65' PASSENGER FERRY (DIESEL-ELECT HYBRID)
MAIN DECK HOUSE DETAILS
 Dwg. No. 22-1477-2039 Alt. No. 0
 Sh. 2 OF 3
 Drawn By: BRIAN BOUDREAU Date: 9 JUNE 2022
 Checked By: _____
 App'd By: _____ Scale: 1/2" = 1'-0"
 ABS App'l: _____ USCG App'l: _____

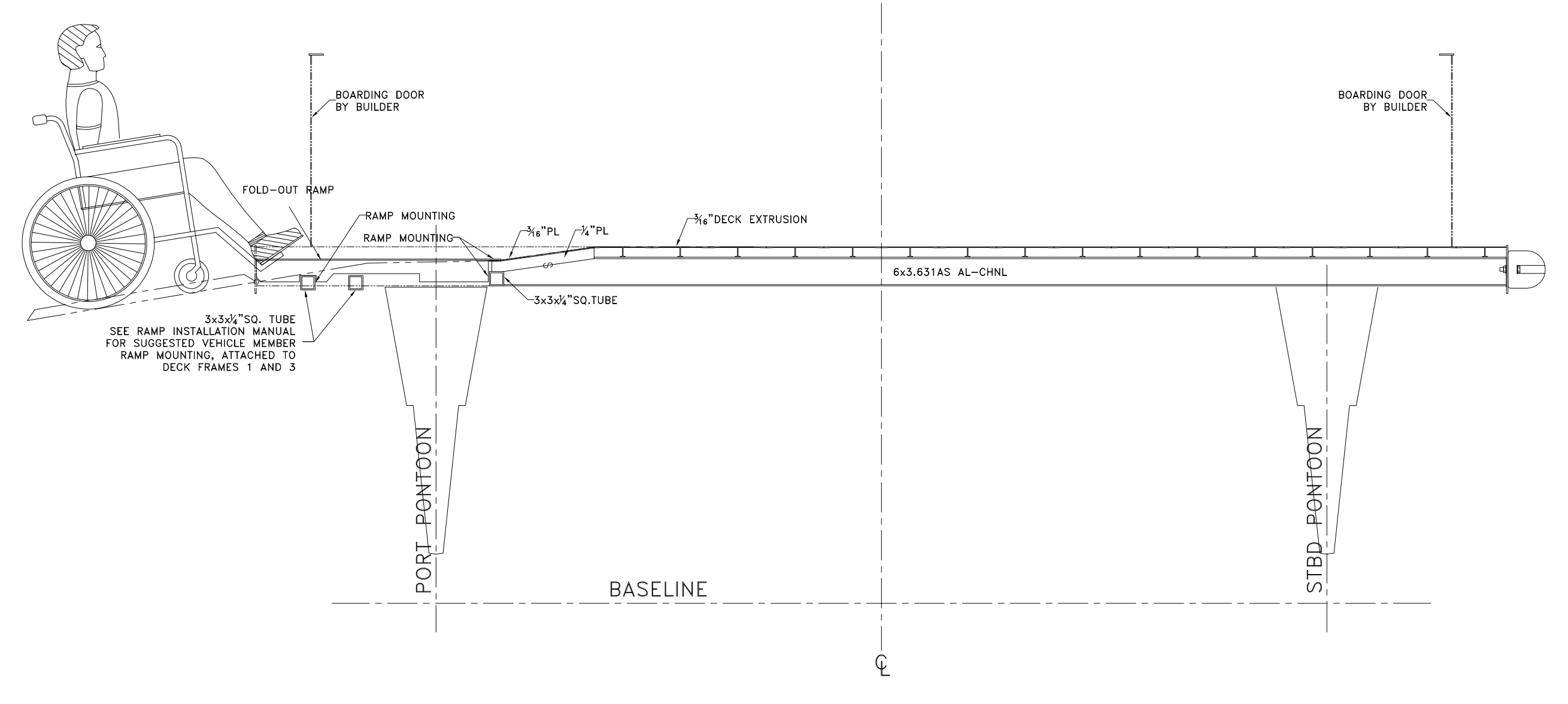
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B

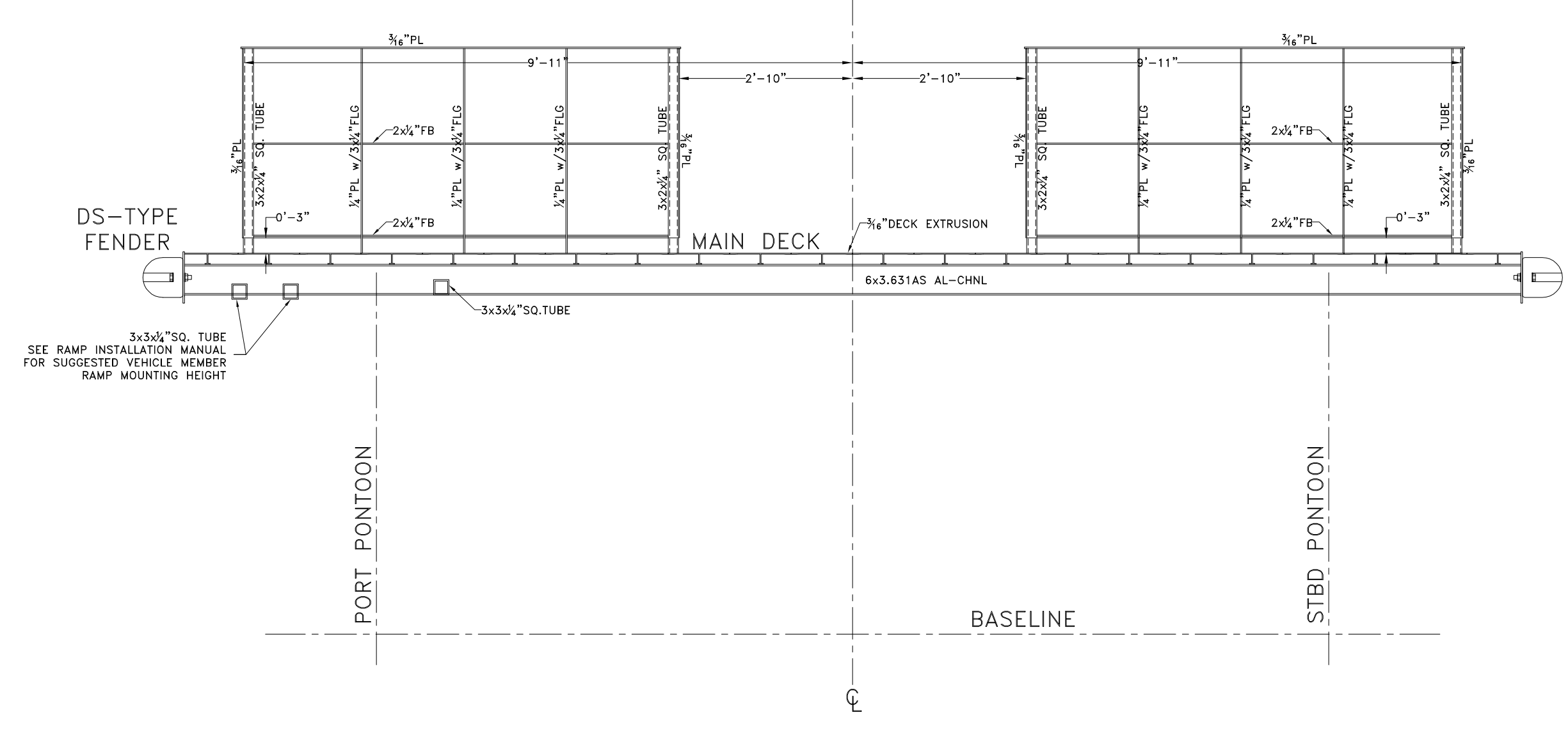
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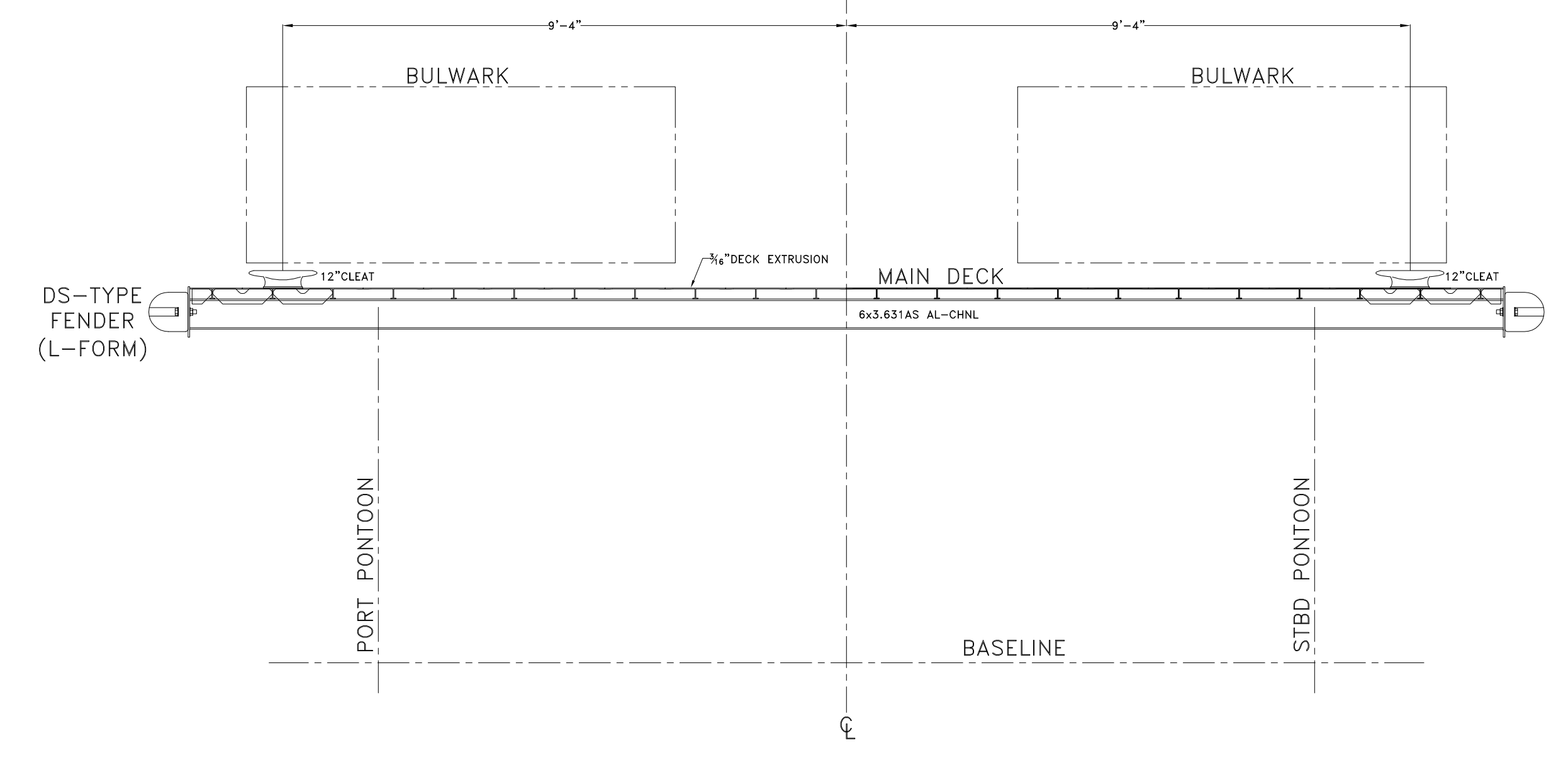
SECTION: FRAME 3



SECTION: FRAME 2



SECTION: FRAME 1



SECTION: FRAME 0

WELD SCHEDULE DECKHOUSE-

1/8" 1/8" 3-9	EXTERIOR BHD PERIPHERIES	WELD SCHEDULE	1/8" 1/8" 1/2-10	STIFFENERS TO INT. INTERIOR BHDS
3/16" 1/2 1/2-10	INT. INTERIOR BHD PERIPHERIES	WELD SCHEDULE	1/8" 1/8" 1/2-10	STIFFENERS TO BULKWARK PLATE
1/8" 1/8" 3-9	DECK PERIPHERIES	1/8" 1/8" 3-9	BULKWARK CAP TO BULKWARK PLATE	
WELD SCHEDULE	1/8" 1/8" 1/2-10	TRANSVERSE DECK FRAMES	3/16" BRACKETS TO FLANGES, FRAMES, DECKS, & SHELL	
WELD SCHEDULE	1/8" 1/8" 1/2-10	STIFFENERS TO SHELSHELL & END BHDS		
1/4" 3-8	WELDS TO FLANGE PLATES IN BUILT BEAMS & GIRDERS			

NOTES:
1- UNBRACKETED STIFFENERS TO BHDS ARE TO HAVE PAIR OF MATCHED INTERMITTENT WELDS AT EACH END.

GENERAL NOTES		ALTERATIONS		RESERVATIONS		REFERENCES	
NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION
1.	GENERIC PART DESIGNATIONS						

NO.	DATE	BY	NO.	DESCRIPTION
5				
4				
3				
2	5/08.12.22	E		
1	5/8.4.22	E		
0				
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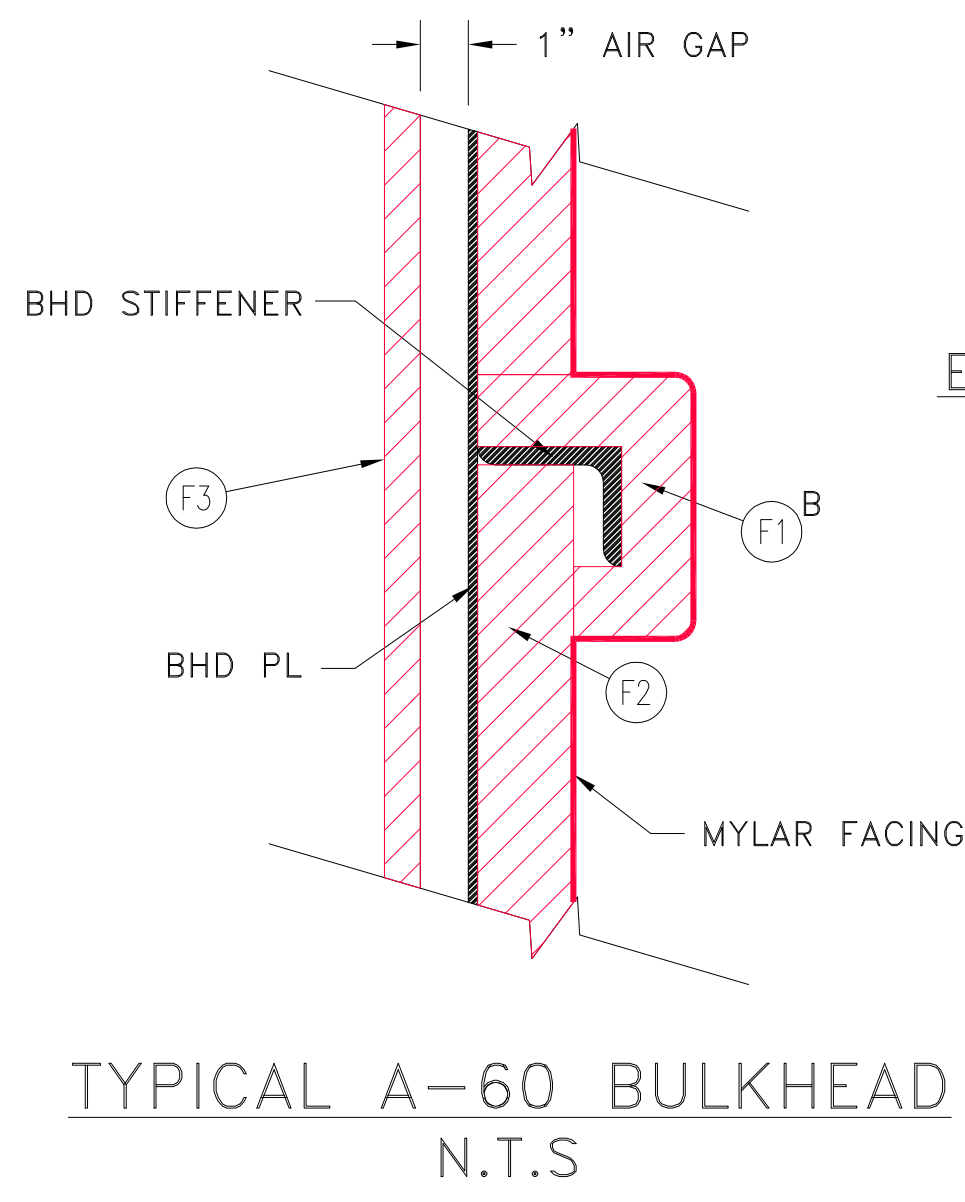
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Title: 65' PASSENGER FERRY (DIESEL-ELECT HYBRID)
MAIN DECK HOUSE DETAILS

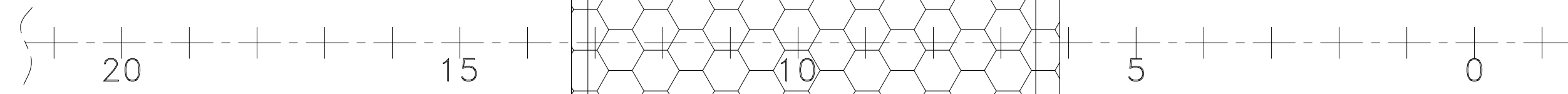
Dwg. No. 22-1477-2039 Alt. No. 1
 SH. 3 OF 3

Drawn By: BRIAN BOUDREAU Date: 9 JUNE 2022
 Checked By: _____ Date: _____
 App'd By: _____ Scale: 1/2" = 1'-0"
 ABS App'l: _____ USCG App'l: _____

PASSENGER SPACE



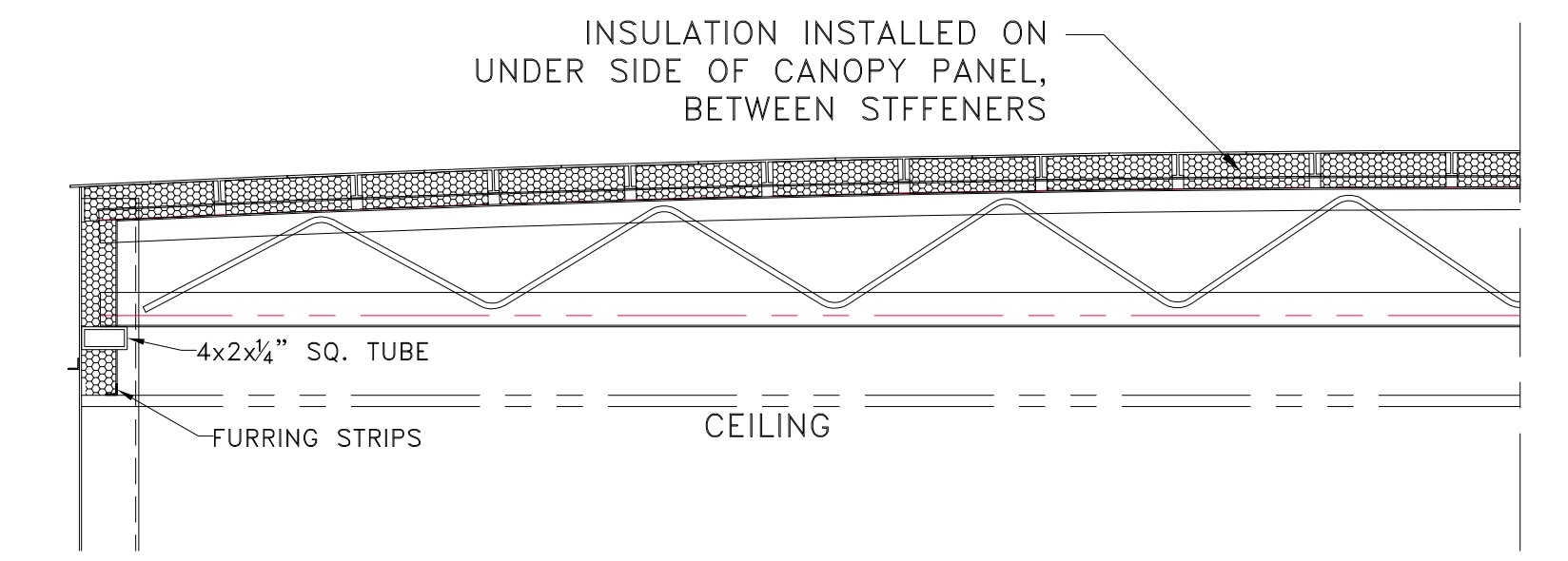
ENERGY STORAGE SPACE



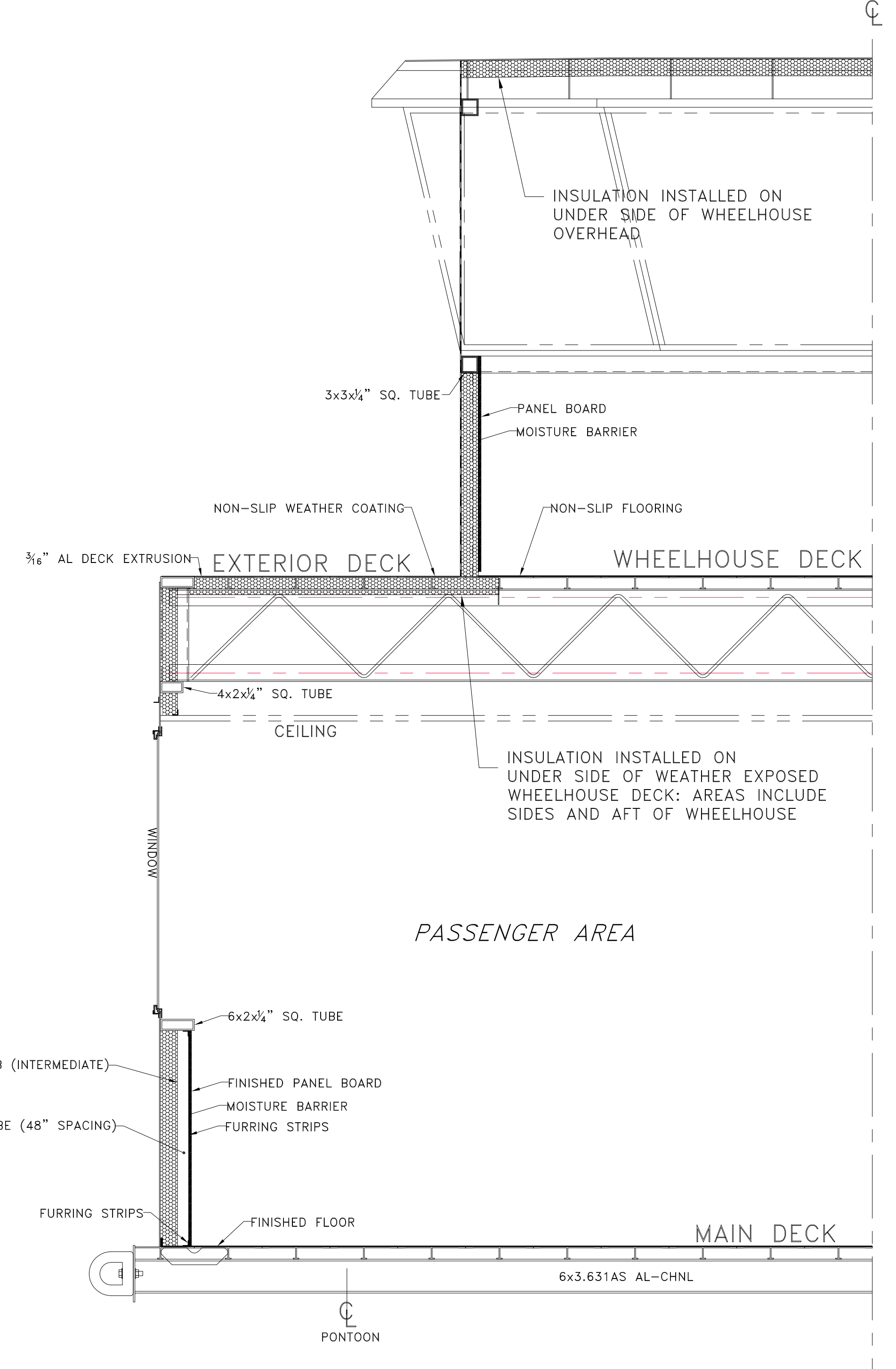
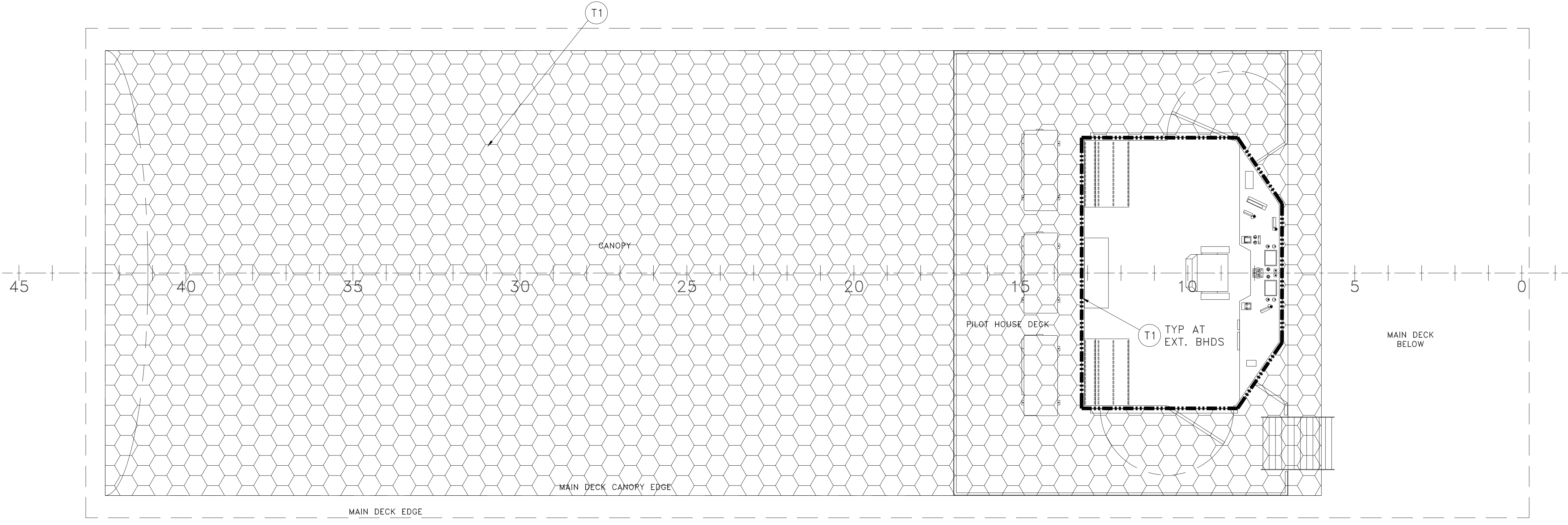
WHEELHOUSE TOP PLAN

BILL OF MATERIALS

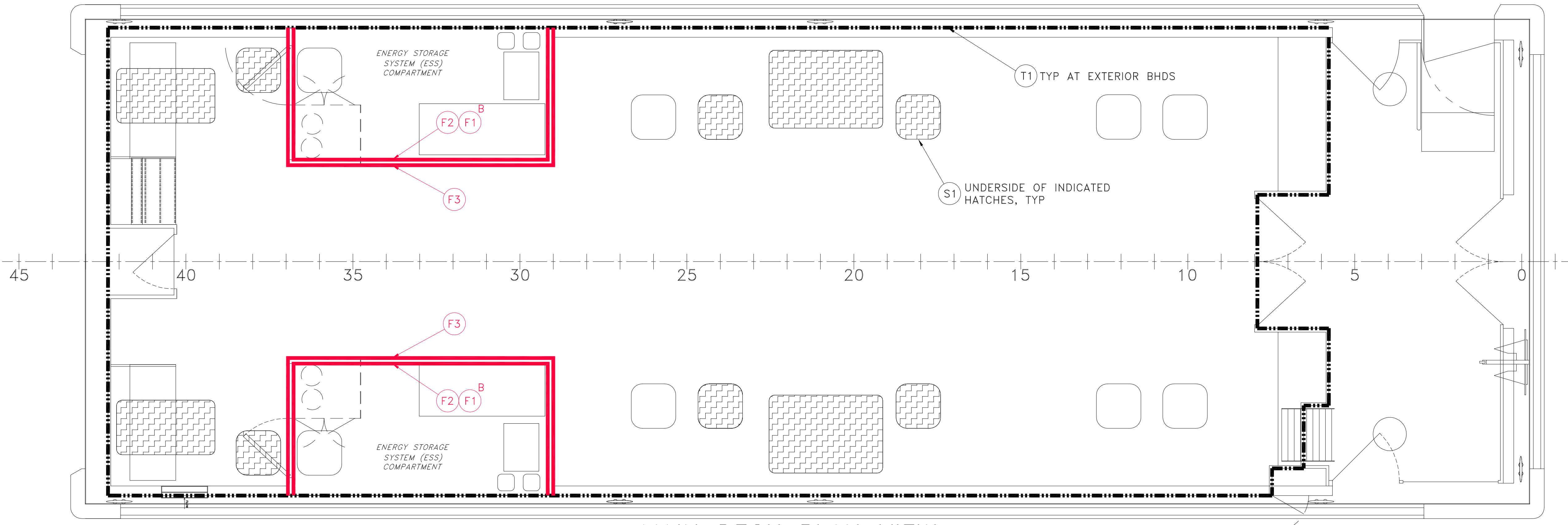
SYMBOL	DESCRIPTION
(BULKHEADS)	FIRE INSULATION / A-60 (F1 AND F2 TO MEET U.S.C.G. 164.007 REQUIREMENTS, F3 TO MEET U.S.C.G. 164.008 REQUIREMENT
(DECKS)	(F1) ^B BEAM WRAP, 1 1/2" THICK 8.0 P.C.F. MARINE MINERAL WOOL W/ MYLAR FACING (OR EQUAL, 1/25 MINIMUM)
	(F2) 2" THICK 6.0 P.C.F. MARINE MINERAL WOOL W/ MYLAR FACING (OR EQUAL, 1/25 MINIMUM)
	(F3) 3/4" THICK FIRE SHEATHING B-15 PANEL. (OR EQUAL, 1P MINIMUM)
(BULKHEADS)	SOUND INSULATION (TO MEET U.S.C.G. 164.009 REQUIREMENTS)
(DECKS)	(S1) 2" THICK 2.9 P.C.F. MARINE SOUND INSULATION
(BULKHEADS)	THERMAL INSULATION (TO MEET U.S.C.G. 164.009 REQUIREMENTS)
(DECKS)	(T1) 3" THICK UTILITY BLANKET INSULATION, 8 P.C.F.



TYPICAL SECTION FRAME 17 THRU TRANSOM
DO NOT SCALE



TYPICAL SECTION FRAME 6 THRU 17
DO NOT SCALE



GENERAL NOTES			ALTERATIONS			RESERVATIONS			REFERENCES		
NO.	DESCRIPTION	NO.	DESCRIPTION	DATE	BY NO.	NO.	DESCRIPTION	NO.	DESCRIPTION		
		1.	GENERIC PART DESIGNATIONS	8.12.22	JS						

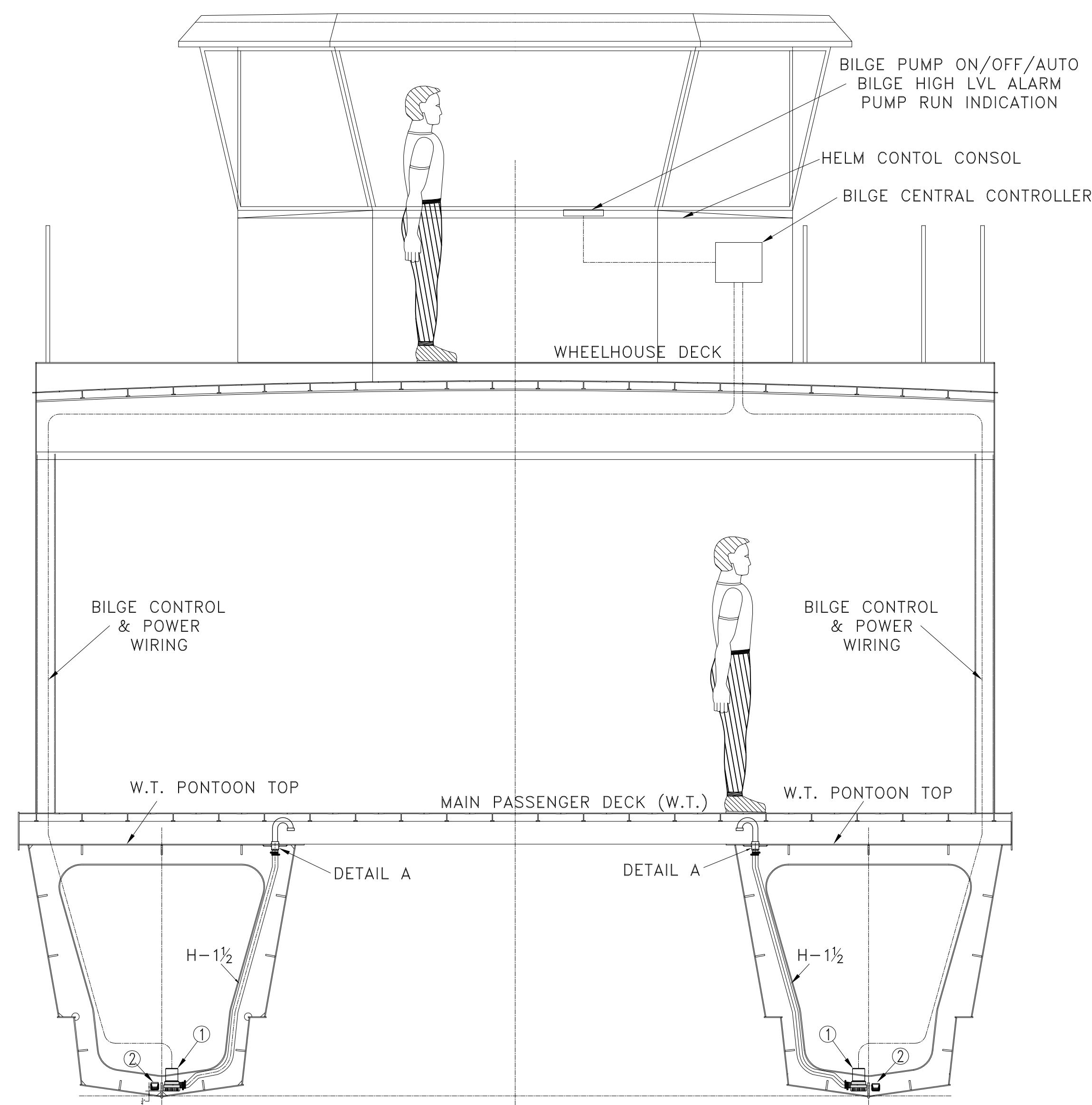
DeJong & Lebet, Inc.
 Naval Architects
 Marine Engineers
 Consultants
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 1734 Emerson Street
 Jacksonville, Florida 32207
 Phone: (904) 599-3673
 Fax: (904) 599-1522
 info@dejongandlebet.com

INSULATION SCHEDULE

Dwg. No. 22-1477-3512 Alt. No. 1 Sh. 1 OF 1

Drawn By: **JOE SILAS** Date: **JULY 12, 2022**
 Checked By: **BRIAN BOUDREAU**
 App'd By: _____ Scale: **AS NOTED**
 ABS App'l: _____ USCg App'l: _____

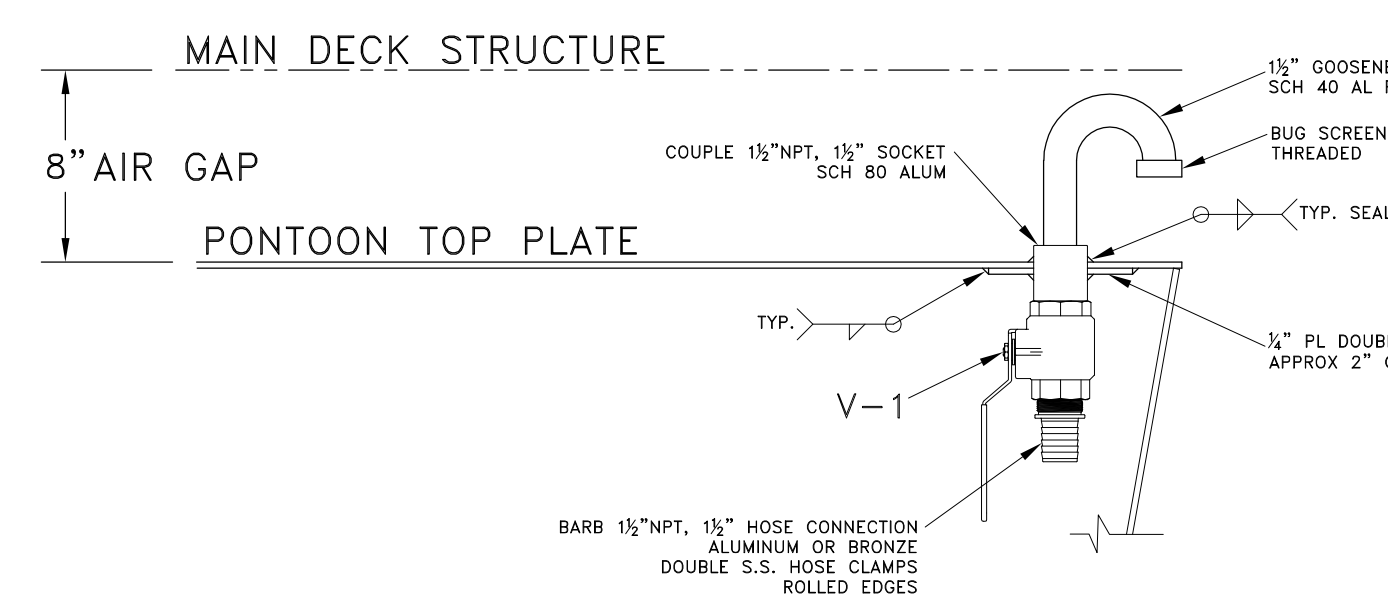
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TYPICAL SECTION
LOOKING FORWARD

MATERIAL & EQUIPMENT LIST

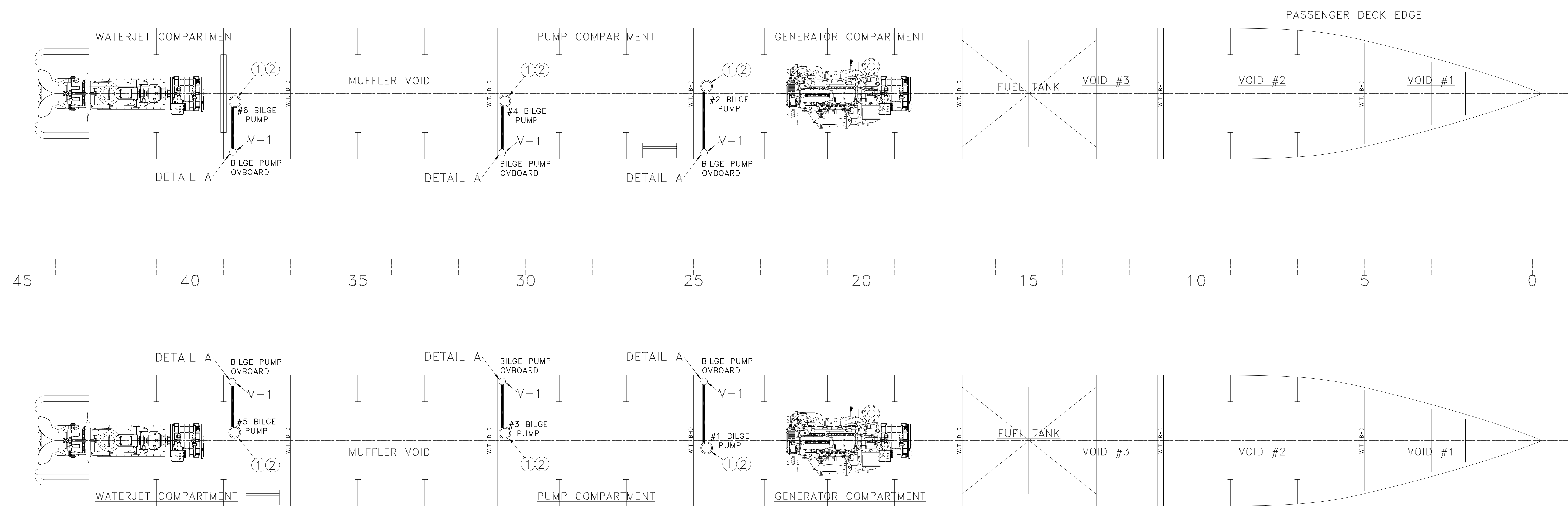
PIECE NO.	QTY.	DESCRIPTION	MFG / MODEL	STANDARDS
1	6	SUBMERSIBLE BILGE PUMP, 3700 GPH, 12VDC PORT: 1/2" BARB, IGNITION PROTECTED		UL1113 APPROVED
2	6	BILGE FLOAT SWITCH WITH HIGH WATER ALARM SENDER AND KLVR CLAMP BRACKET, 12VDC		UL LISTED
H-#	-	HOSE, SIZED TO # INDICATED CORRUGATED BILGE HOSE, SMOOTH INSIDE SECURED EVERY 24" MAX DOUBLE HOSE CLAMP, STAINLESS STEEL ROLLED EDGE FASTENERS: 300 SERIES STAINLESS STEEL		SAE J2006, OPTION SAE J1942
PX-#	-	SCHEDULE 80 PIPE 6061-T6 ALUMINUM		
V-1	6	1/2" BALL VALVE, NPT BRONZE OR ALUMINUM		ASTM SB61/62



TYPICAL: BILGE OVERBOARD
(6 LOCATIONS TOTAL)
NOT TO SCALE

SUBCH T NOTES:

- IAW 46CFR 182.500(e): VOID #1, VOID #2, VOID #3, AND MUFFLER VOID ARE CONSIDERED SMALL BOUAYNCY COMPARTMENTS. STABILITY CALCULATIONS SHOW THE HIGH DEGREE OF SUBDIVISION WILL NOT IMPARE THE SAFETY OF THE VESSEL. NO MACHINERY OR PENETRATIONS ARE IN THESE LOCATIONS: DRAINAGE IS OMITTED IN THESE VOIDS.
- PUMPS CONTROLS MUST MEET THE REQUIREMENTS OF 46 CFR 182.520(a).
- ALL SUBMERSIBLE PUMPS MUST MEET THE REQUIREMENTS OF 46CFR 182.520(e).



HOLD PLAN VIEW

GENERAL NOTES		ALTERATIONS		RESERVATIONS		REFERENCES	
NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION
1.	GENERIC PART DESIGNATIONS						

NO.	DESCRIPTION	DATE	BY	NO.

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 Jacksonville, Florida 32207
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Title: 65' PASSENGER FERRY (DIESEL-ELECT HYBRID)

BILGE PIPING

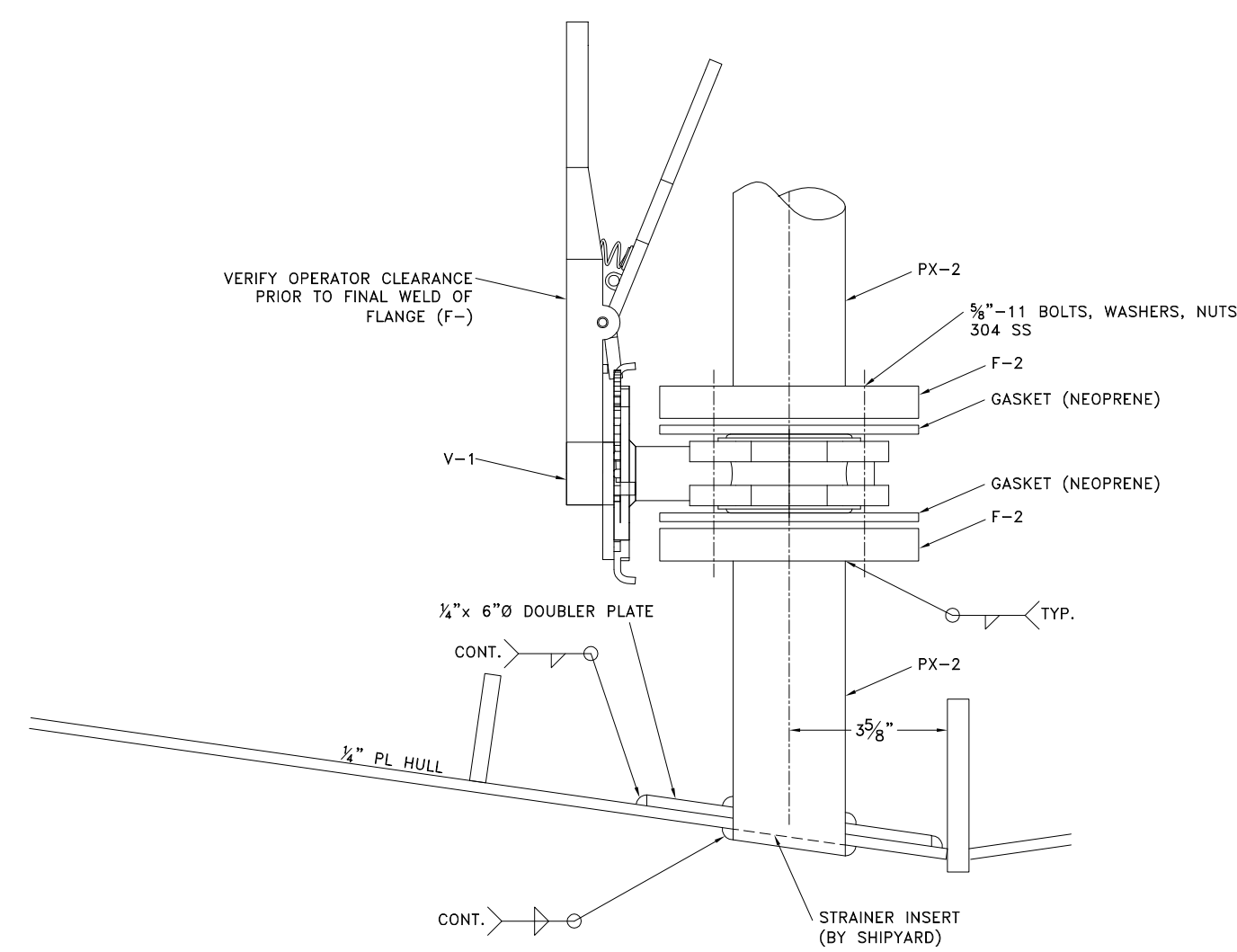
Dwg. No. 22-1477-4005 Alt. No. 1 Sh. 1 OF 1

Drawn By: BRIAN BOUDREAU Date: 14 JUL 2022

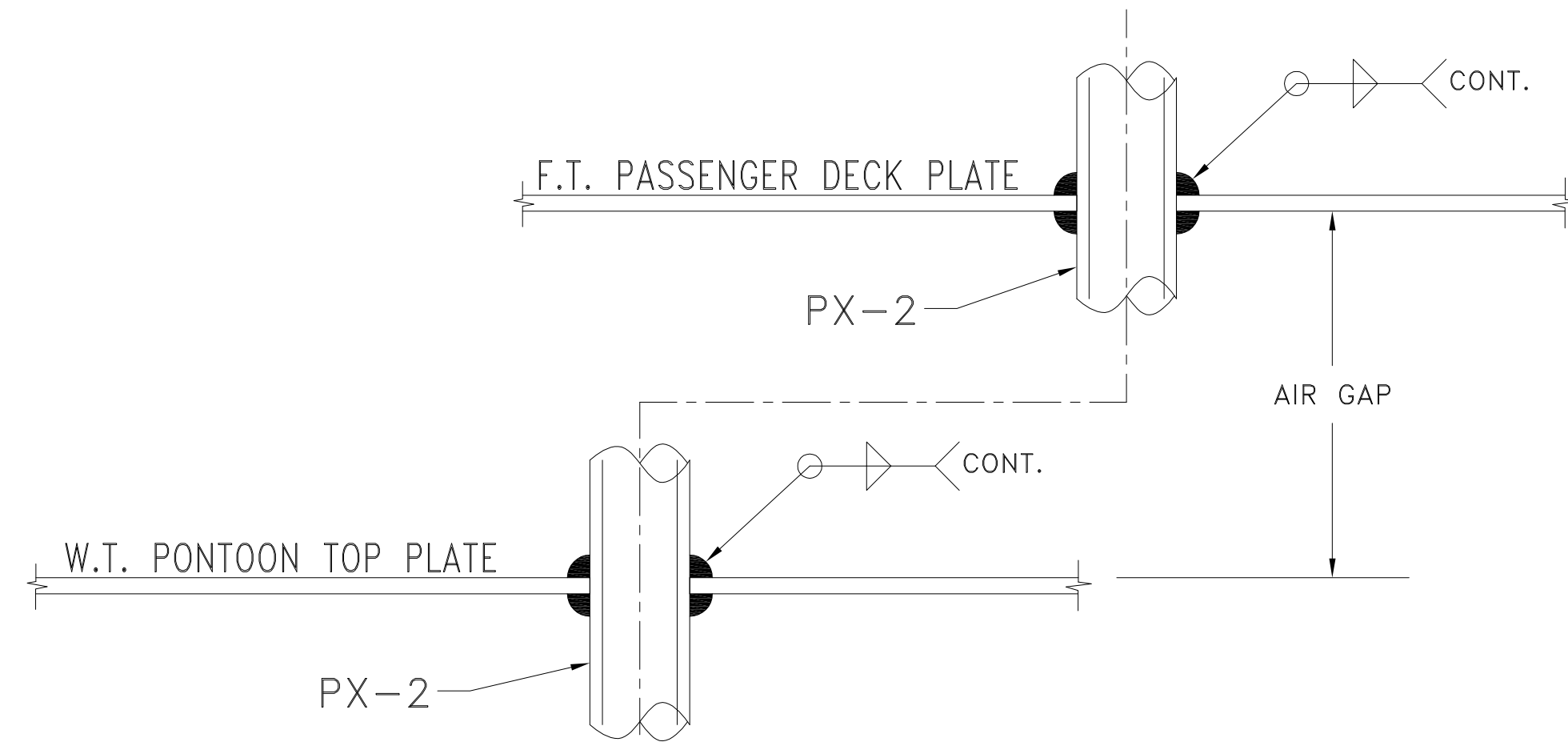
Checked By: _____ Date: _____

App'd By: _____ Scale: 1/2" = 1'-0"

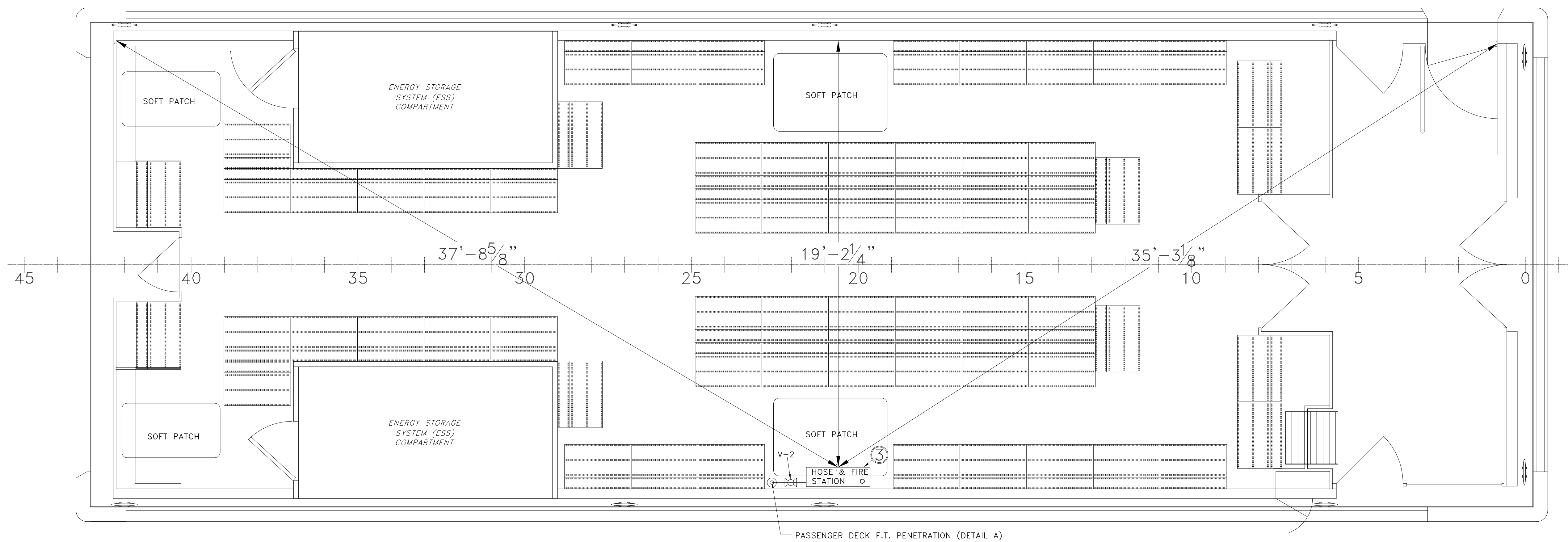
ABS App'l: _____ USCG App'l: _____



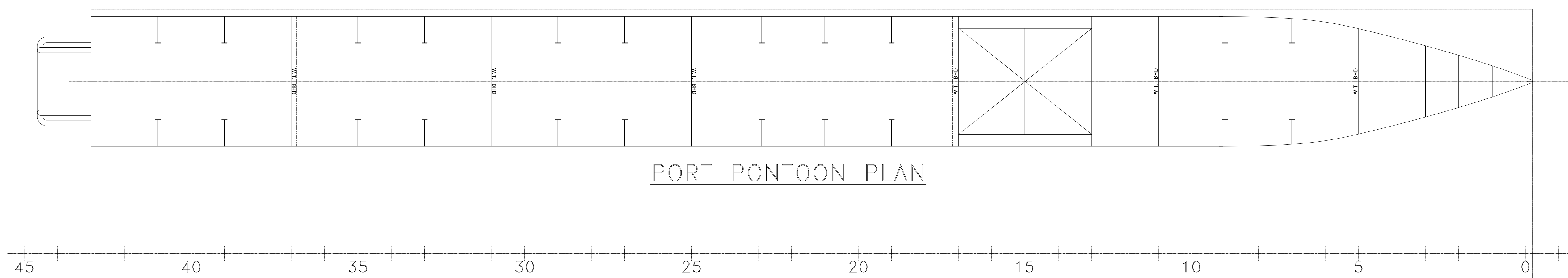
DETAIL B:
FIRE MAIN SUCTION HULL
PENETRATION
3"=1'-0"



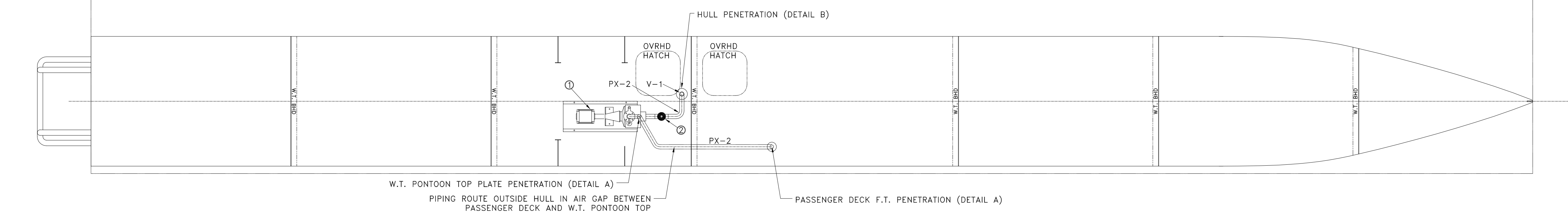
DETAIL A:
FIRE MAIN W.T. PENETRATIONS
PONTOON TOP AND PASSENGER DECK
3"=1'-0"



MAIN DECK PLAN VIEW



PORT PONTOON PLAN



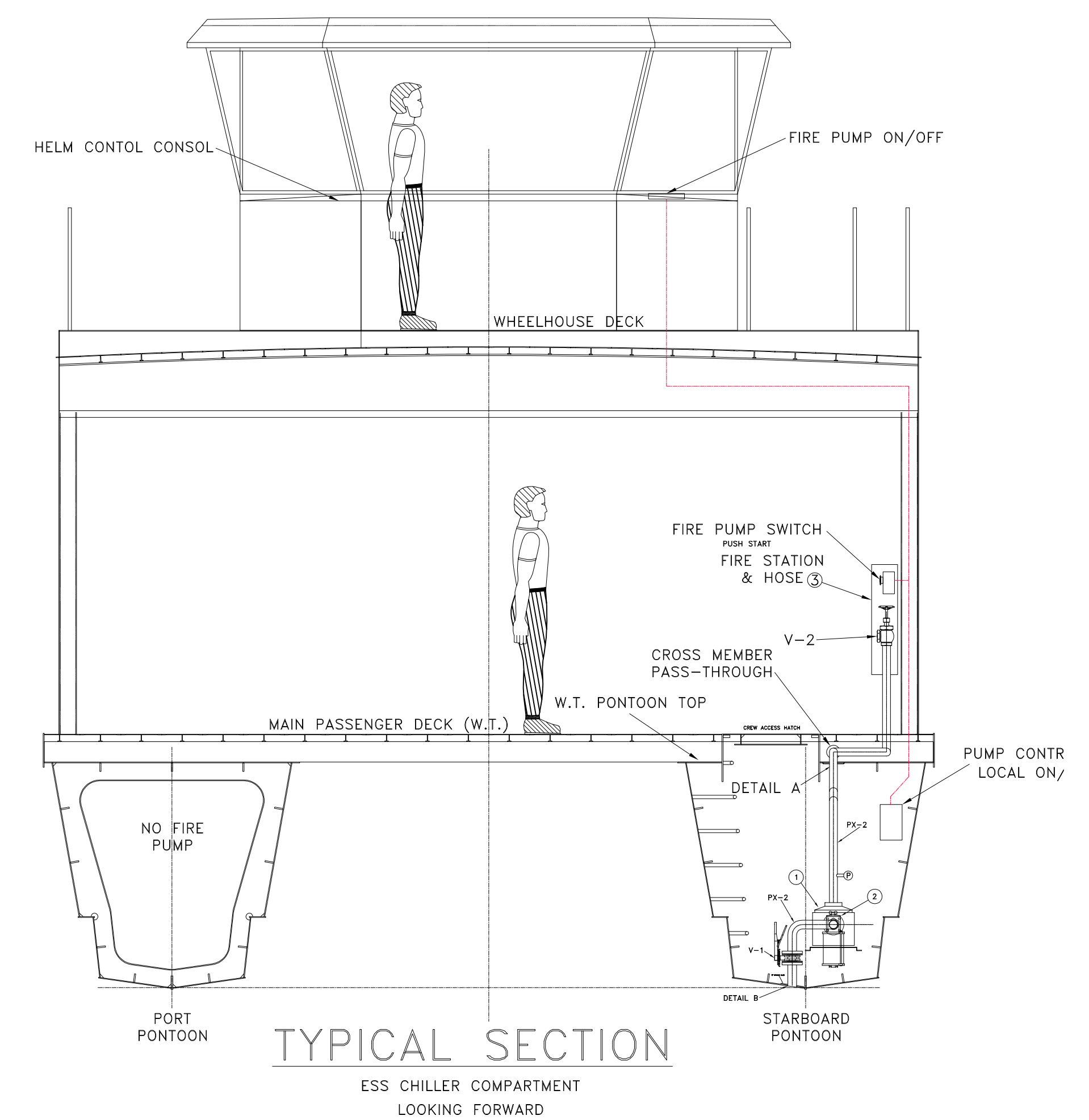
STARBOARD PONTOON PLAN
W.T. PONTOON TOP PLATE PENETRATION (DETAIL A)
PIPING ROUTE OUTSIDE HULL IN AIR GAP BETWEEN
PASSENGER DECK AND W.T. PONTOON TOP
PASSENGER DECK F.T. PENETRATION (DETAIL A)

MATERIAL & EQUIPMENT LIST				
PIECE NO.	QTY.	DESCRIPTION	MATERIAL SPECIFICATION	REMARKS
V-1	1	2" BUTTERFLY VALVE, 150 LB. WAFER TYPE, DUCTILE IRON	ASTM A-395	OR EQUAL
V-2	1	2" GLOBE VALVE, 150 LB. 90°, BRONZE, NPT THREADED	ASTM A-395	OR EQUAL
PX-#	AS REQ'D	SCH 80 PIPE, ALUMINUM	5086/6061	
F-#	AS REQ'D	SIZED TO PIPE LOCATION, FLANGED, 150#, SLIPON OR WELD-NECK, ANSI/ASME B16.5	5086/6061	
(P)	1	PRESSURE GAUGE, 0-150 PSI, STAINLESS STEEL CONNECTION.		ASME/UL
(1)	1	SELF-PRIMING FIRE PUMP, SHP, 50GPM @70 PSI, 208V 3Ø	----	OR EQUAL REMOTE START/STOP FROM LOCAL AND OPERATORS STATION
(2)	1	2" NPT STRAINER, BRONZE CASTING, S.S. ENCLOSURE, 304SS BASKET		OR EQUAL
(3)	1	FIRE STATION, 1 1/2" HOSE, VALVE, NOZZLE UNIT; 50'x1 1/2" UL19, FIRE HOSE W/ BRASS FITTINGS (NFPA 1963), 1-1/2" SHIPBOARD VARI-NOZZLE, STRAIGHT STREAM SETTING 1/2" DIA. (USCG EQUIPMENT CLASS 162.027) OR OTHER NOZZLE ACCEPTABLE TO USCG INSPECTOR	USCG APPROVED	OR EQUAL

46CFR 182.730(a)(3): NONFERROUS METALLIC PIPING MATERIALS ARE ACCEPTABLE FOR USE IN ALUMINUM BILGE, BALLAST, AND FIREMAIN PIPING ON ALUMINUM HULLED VESSELS. ENSURE RESTRICTIONS OF 46CFR 182.730(b) ARE APPLIED.

ALL COMPONENTS OF THE FIRE STATION SHALL COMPLY WITH THE REQUIREMENT OF SUBCHAPTER T SECTION 181 (46 CFR 181-C).

PIPING LONGITUDINAL RUN PASS-THROUGHS IN CROSS MEMBERS MAY BE MADE WHERE THE CROSS MEMBER WFR THAT IS IN THE VICINITY TO THE PONTOON TOP PLATE HOWEVER NUMBER OF CUTS SHOULD BE MINIMIZED



TYPICAL SECTION
ESS CHILLER COMPARTMENT
LOOKING FORWARD

-- GENERAL NOTES --				-- ALTERATIONS --				-- RESERVATIONS --				-- REFERENCES --			
NO.	DESCRIPTION	NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION	NO.	DATE	NO.	DESCRIPTION	NO.	DESCRIPTION		
1	ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH 46 CFR SUBCHAPTER T	1.	8.12.22	GENERIC PART DESIGNATIONS											

NO.	DATE	DESCRIPTION	BY
5			
4			
3			
2	1734 Emerson Street Jacksonville, Florida 32207 www.dejongandlebet.com	Phone: (904) 599-3673 Fax: (904) 599-1522 info@dejongandlebet.com	
1	S/08.12.22/E		
	S/08.04.22/E		
	P/07.13.22/E		
	MSC-USCG	OWNERS	ALT. NO.

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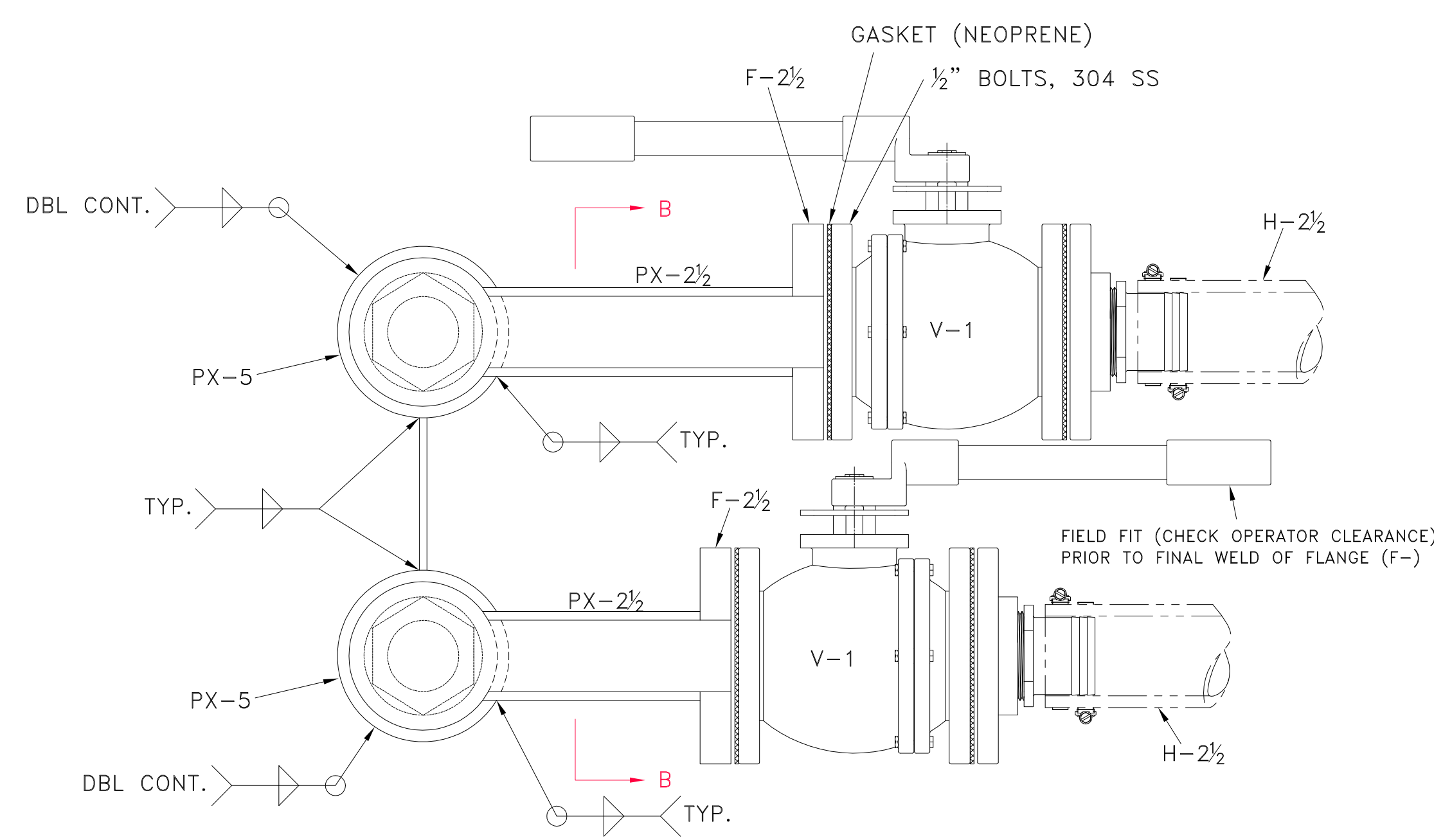
Title: **65' PASSENGER FERRY (DIESEL-ELECT HYBRID)**

FIREMAIN PIPING

Dwg. No. 22-1477-4006 Alt. No. 1
Shk. 1 OF 1

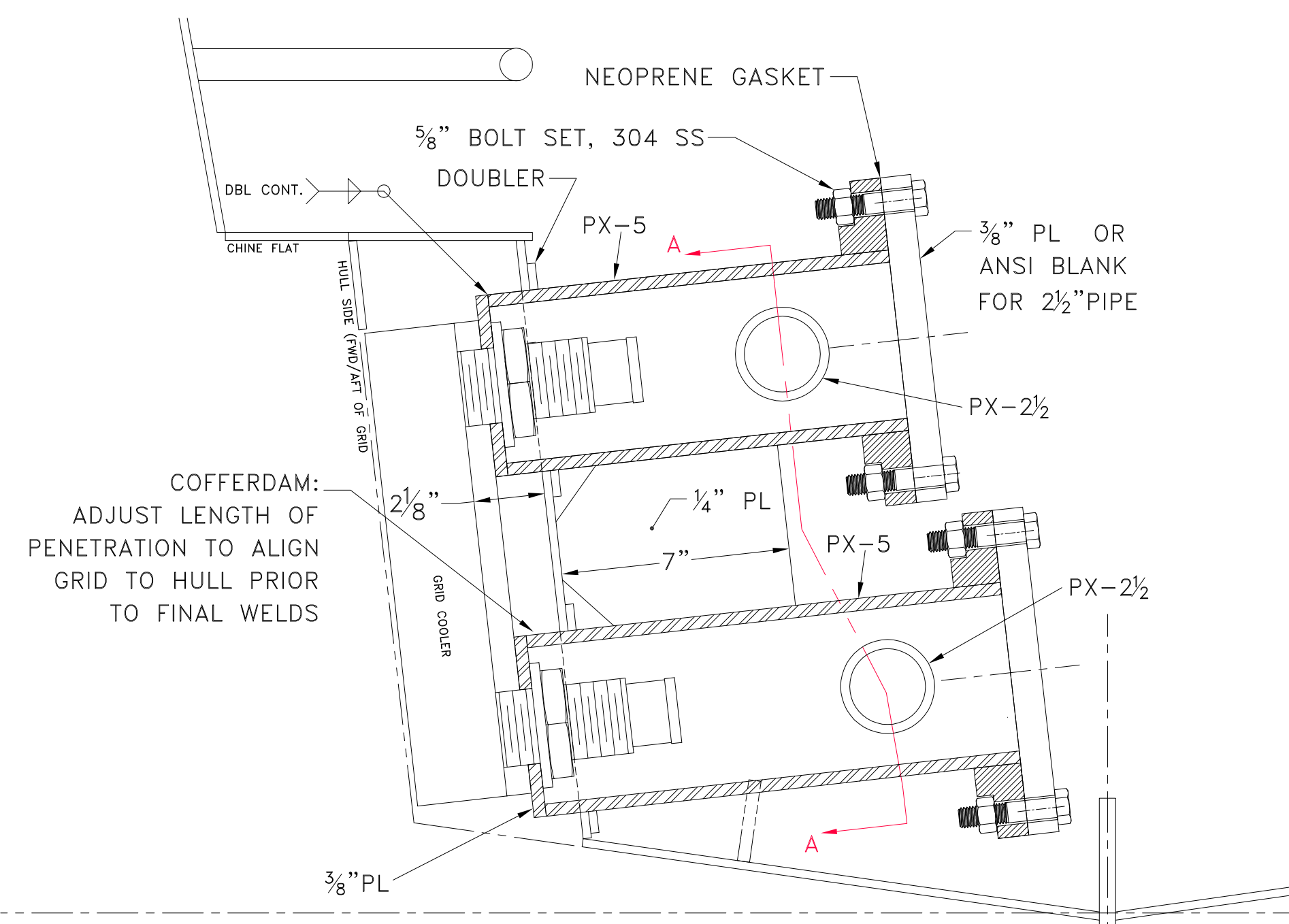
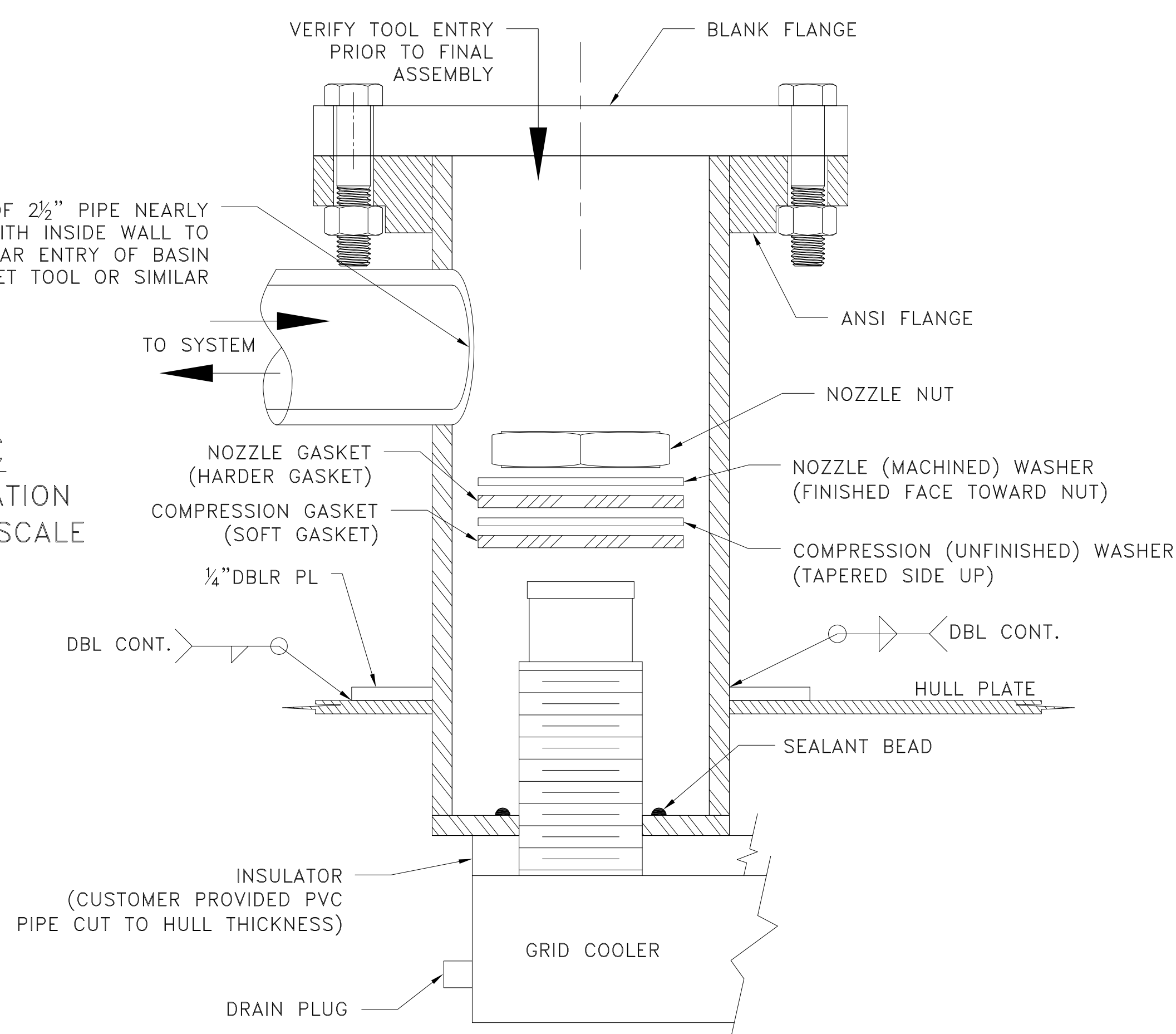
Drawn By: **JOE SILAS**
Checked By: **BRIAN BOUDREAU**
App'd By: _____
ABS App'l: _____

Date: **JULY 13, 2022**
Scale: **1/2"=1'-0"**
USCG App'l: _____

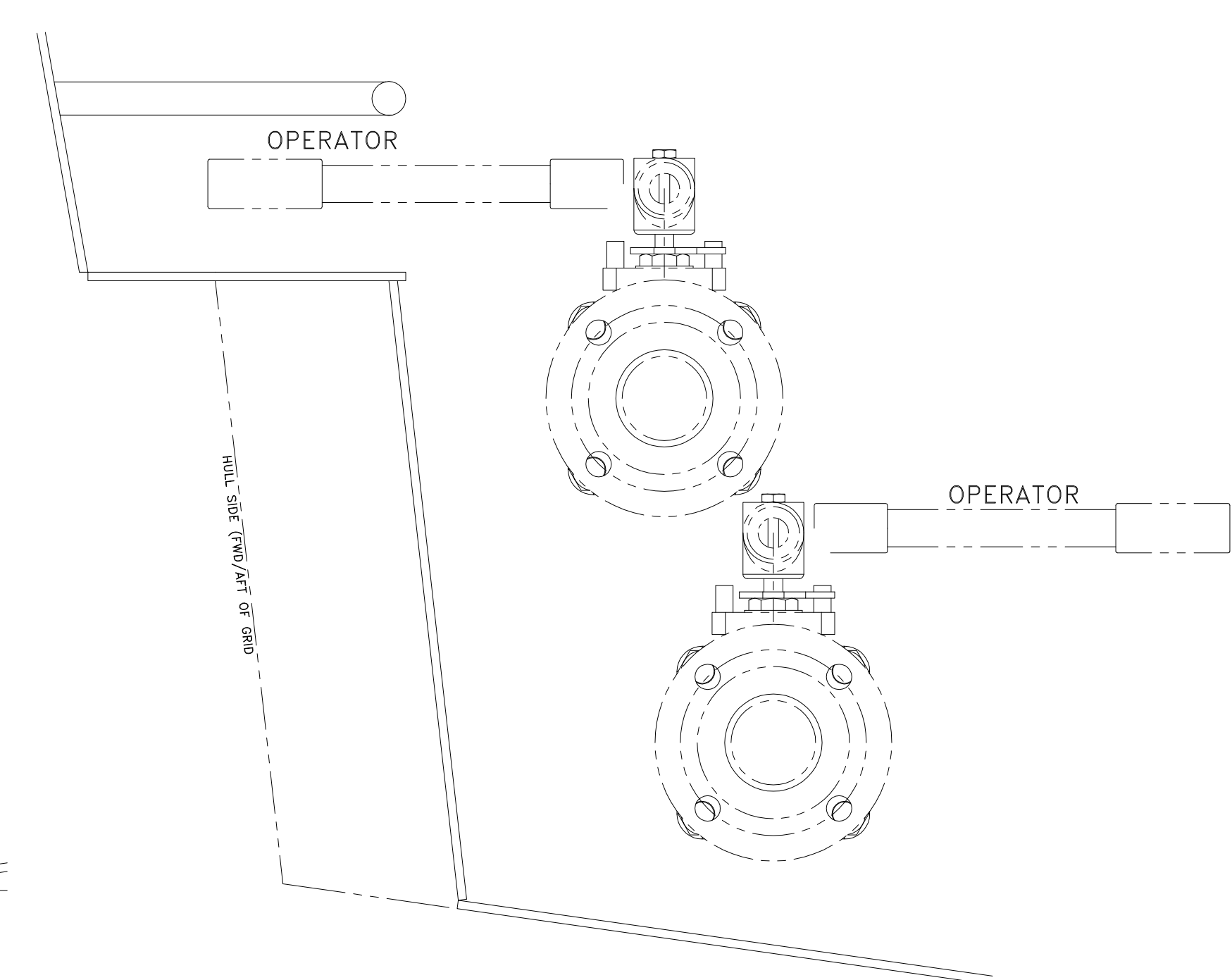


SECTION A-A
GRID COOLER COFFERDAM
3"=1'-0"

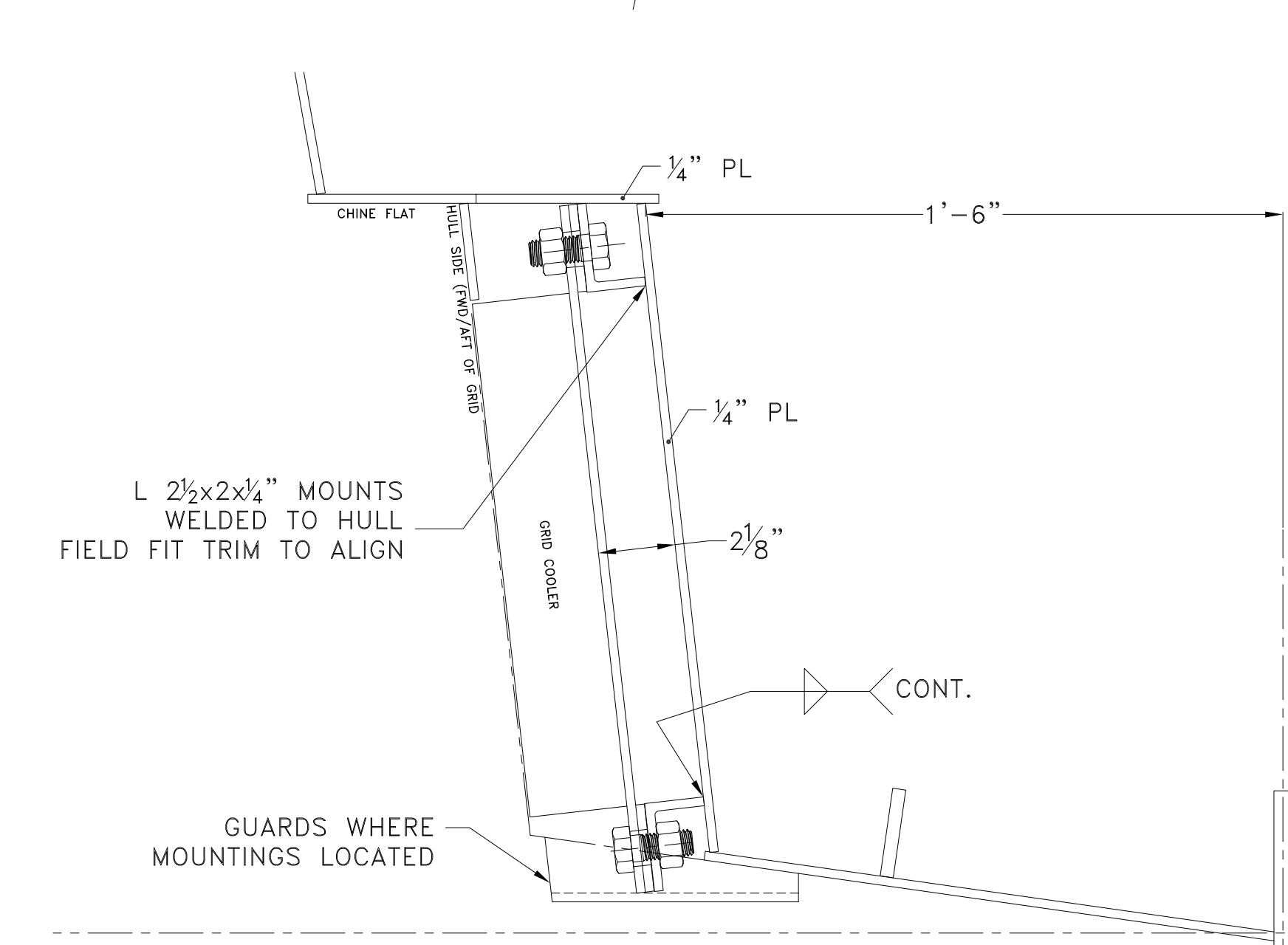
DETAIL C
NOZZLE INSTALLATION
TYPICAL NOT TO SCALE



DETAIL A:
GENERATOR GRID COOLER COFFERDAM
SCALE: 3"=1'-0"



SECTION B-B
VALVE OPERATOR
3"=1'-0"



DETAIL B:
GRID INTERMEDIATE SUPPORTS
SCALE: 3"=1'-0"

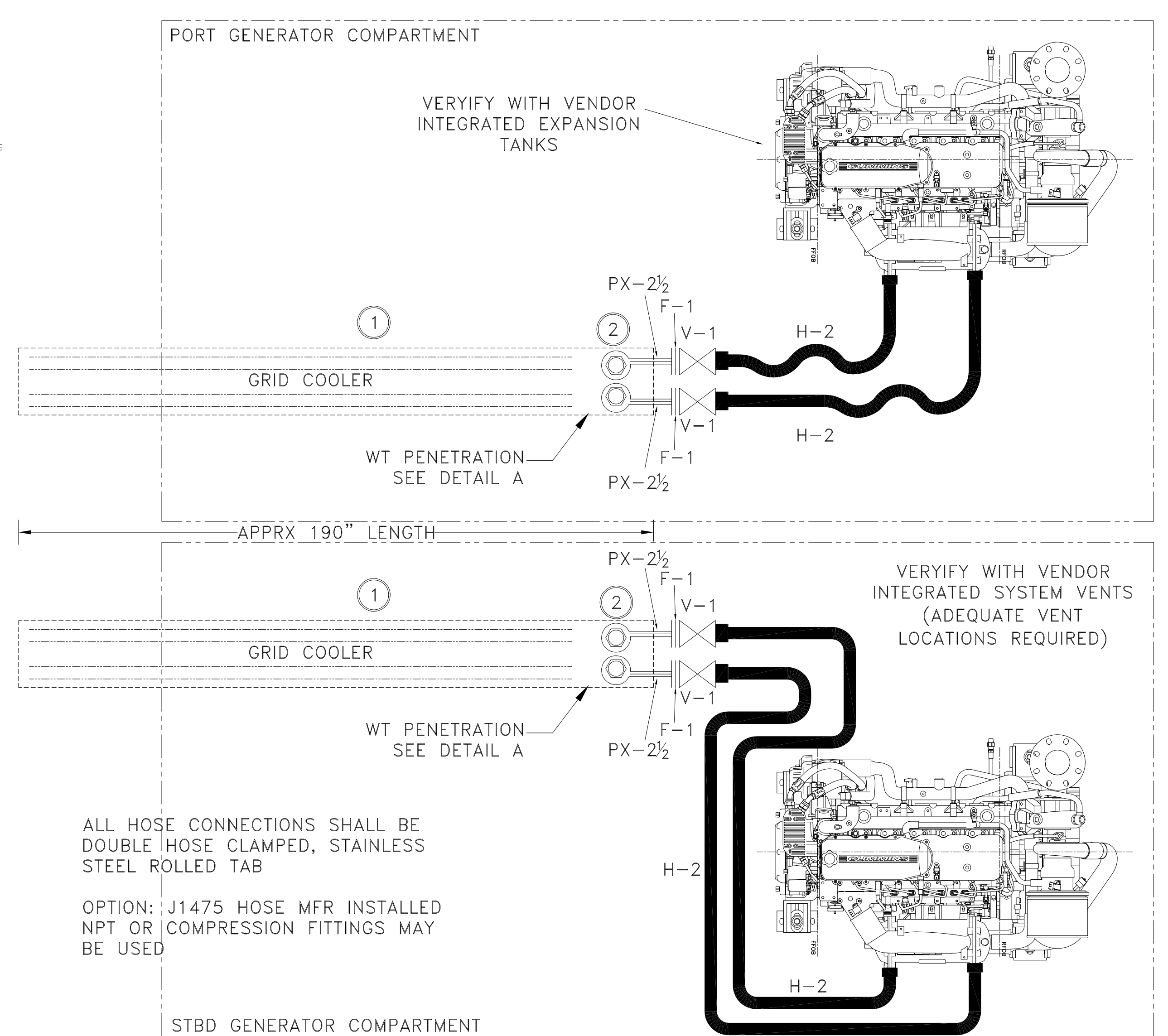
MATERIAL & EQUIPMENT LIST			
PIECE NO.	QTY.	DESCRIPTION	REMARKS
V-1	4	2 1/2" ISOLATION VALVE, BALL FLANGED, BRONZE OR S.S.	ASME SB61
CV-1	**	CHECK VALVE, IN-LINE, BRONZE OR S.S. (NOTE **)	ASTM SB61
PX-#	AS REQ'D	SIZE TO "#" SCH 80 ALUMINUM PIPE, 5086 OR 6061	ASTM B241
H-#	AS REQ'D	I.D. SIZE TO "#" REINFORCED MARINE HOSE, MIN 200PSI, MFG SHIELDS XXX OR EQ STAINLESS STEEL DOUBLE HOSE CLAMPS OR FACTORY INSTALLED THREADED J1475	SAEJ2006/UL1129
F-#	AS REQ'D	SIZE TO "#", 150# FLANGE SLIP-ON, ALUMINUM PIPE, 5086 OR 6061	ASTM B16.5, SB211
①	2	KEEL COOLER: 14,000BTU, 48GPM, 187 IN	CU-NI
②	2	COFFERDAM, 5" SCH 80 PIPE, 3/8" PLATE 1/4" GUSSETS & STIFFNERS	YARD FABRICATED, SEE SECTION A-A

** NOTE: CHECK VALVE ONLY ADDED WHERE THERE IS NOT A VALVE INTEGRAL TO THE ENGINE. ALL PIPE, HOSE, & VALVE SIZES SUBJECT TO ENGINE VENDOR INSTALLATION REQUIREMENTS.

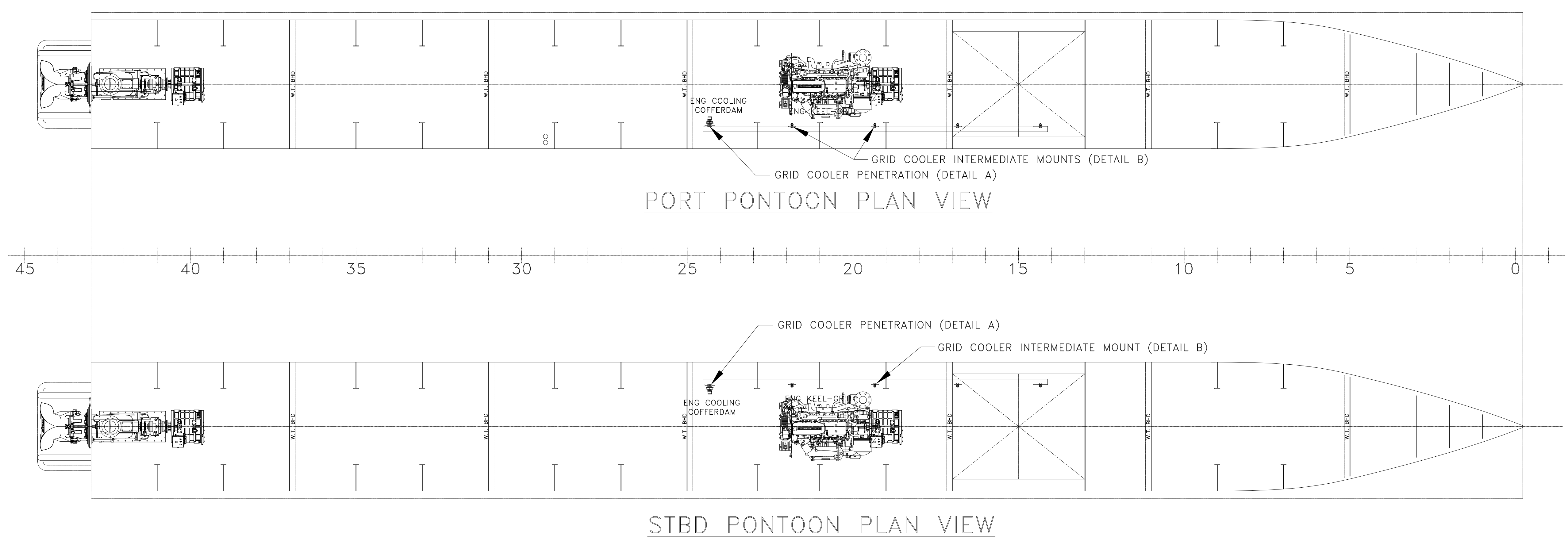
ENGINE PARTICULARS:

SEE SPECIFICATIONS
 RATING: 305 HP
 RATED SPEED: 2600 RPM
 HEAT REJECTION:
 JACKETWATER: 13,700 BTU/MIN
 AUXILIARY: 490 BTU/MIN
 COOLING SYSTEM:
 CAPACITY ENGINE & INTEGRAL EXPANSION TANK: 7.0 GAL
 MAX COOLANT TEMP - ENGINE OUI: 205°F
 MAX COOLANT TEMP - INLET: 130°F
 COOLANT FLOW TO COOLER: 48 GPM

ALL HOSE SHALL BE SECURED APPROXIMATELY EVERY 24 INCHES TO RESTRICT MOVEMENT BUT ALLOW FOR EXPANSION WITHOUT IMPARTING TENSION. AVOID ROUTING HOSES NEAR HOT COMPONENTS AND/OR PROVIDE HEAT SHIELD PROTECTION TO THE SATISFACTION OF THE OWNER.



GENERATOR COOLING SCHEMATIC
NOT TO SCALE



PORT PONTON PLAN VIEW

STBD PONTON PLAN VIEW

GENERAL NOTES				ALTERATIONS				RESERVATIONS				REFERENCES			
NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION		
1	ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH 46 CFR SUBCHAPTER T	1	GENERIC PART DESIGNATIONS												

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 Fax: (904) 599-1522
 info@dejongandlebet.com

Title: **65' PASSENGER FERRY (DIESEL-ELECT HYBRID)**

GENERATOR COOLING SYSTEM PIPING

Dwg. No. 22-1477-4008 Alt. No. 1
 Shr. 1 OF 1

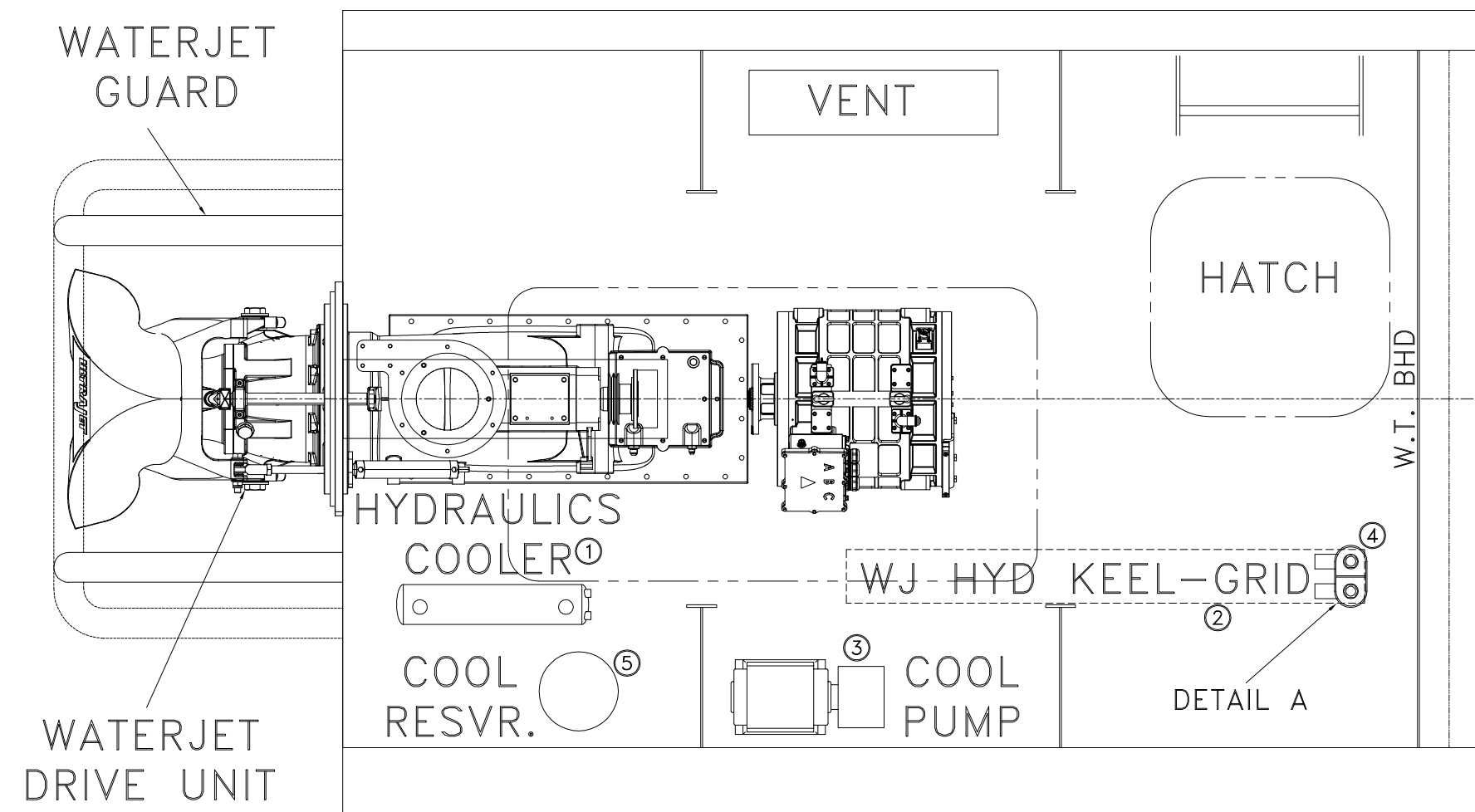
Drawn By: **JOE SILAS** Date: **JUNE 24, 2022**
 Checked By: **BRIAN BOUDREAU**
 App'd By: _____ Scale: **AS NOTED**
 ABS App'l: _____ USC App'l: _____

5
4
3
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1

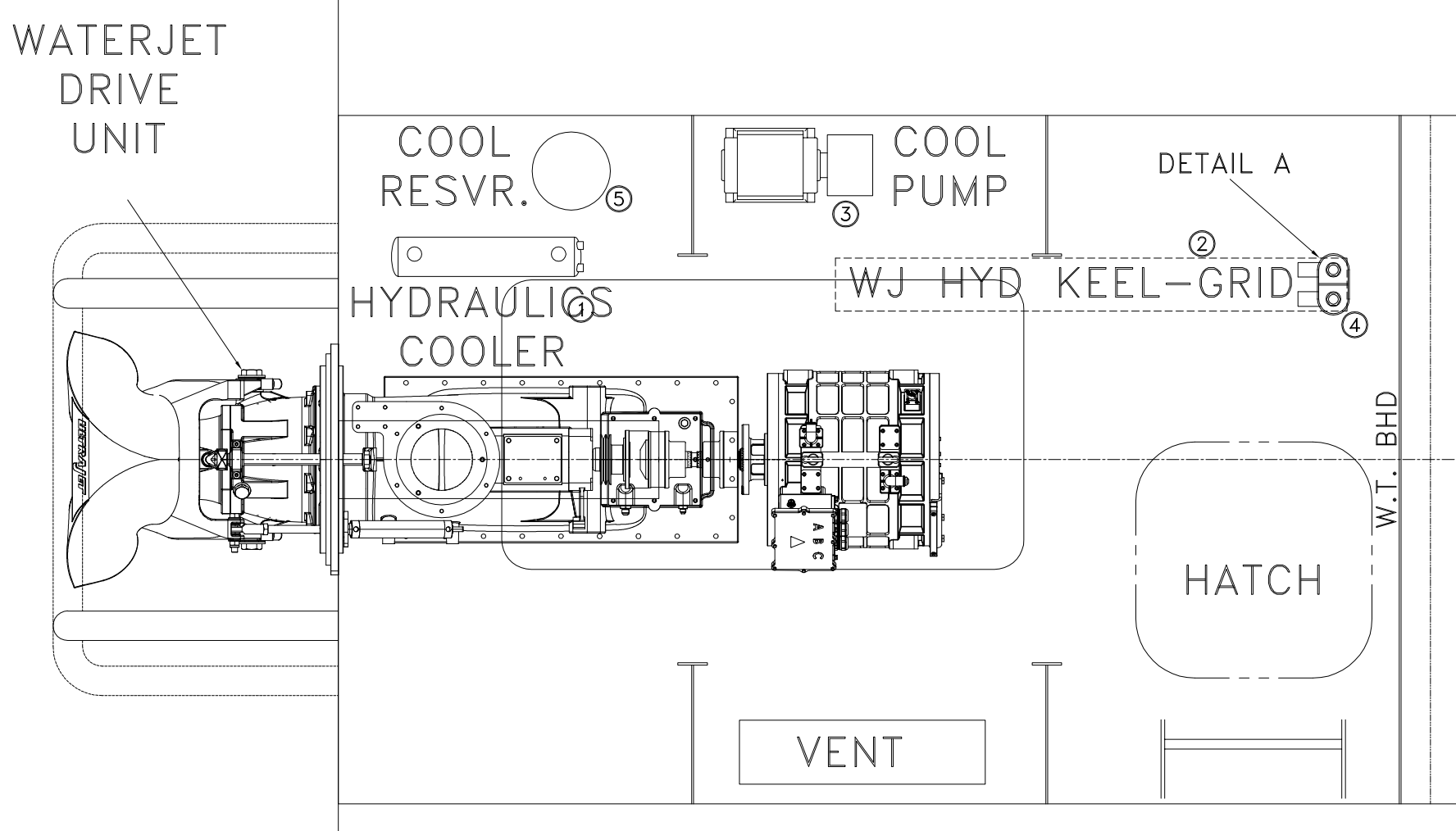
S/08.12.22/E
 S/8.4.22/E

MSC-USCG OWNERS ALT. NO.

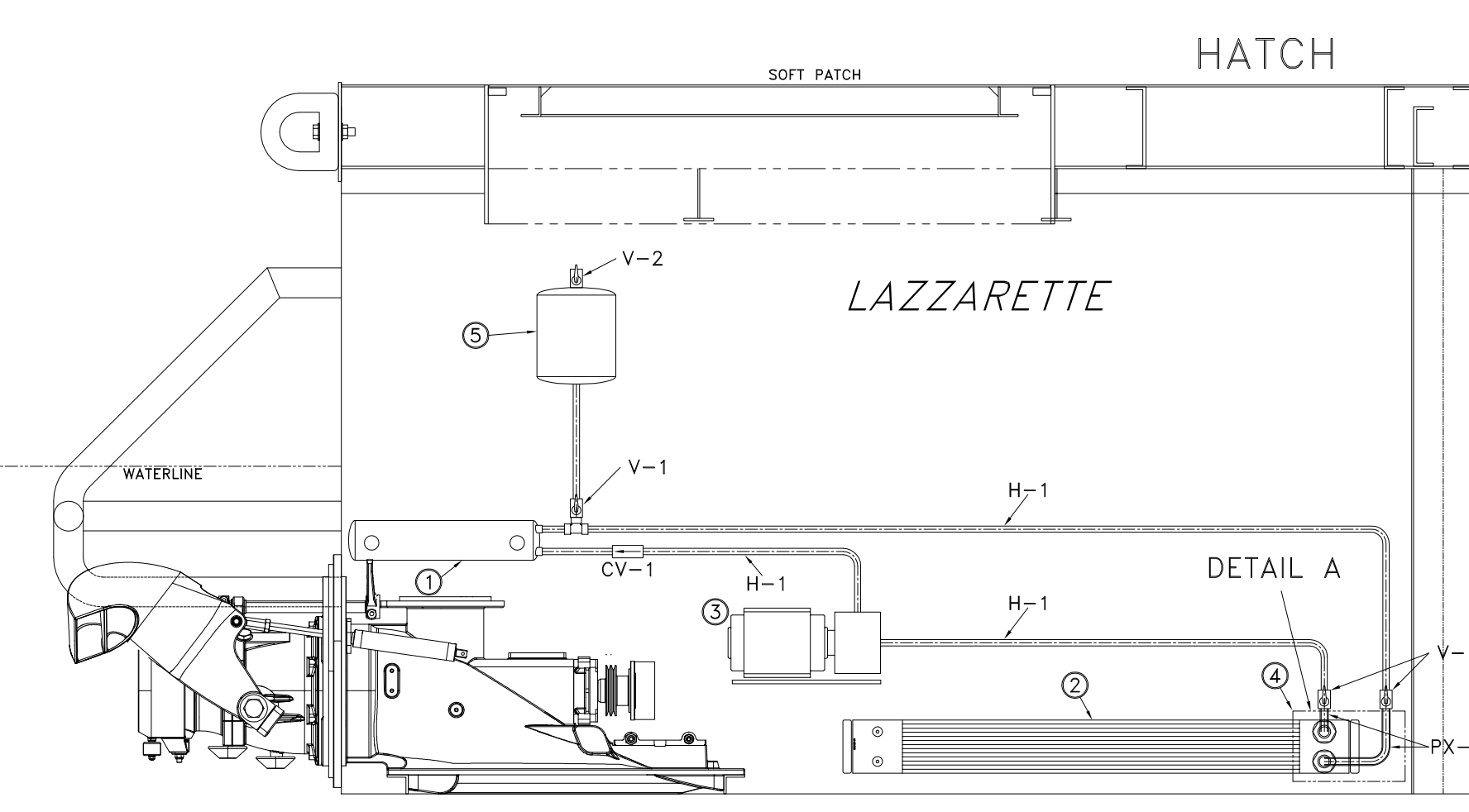
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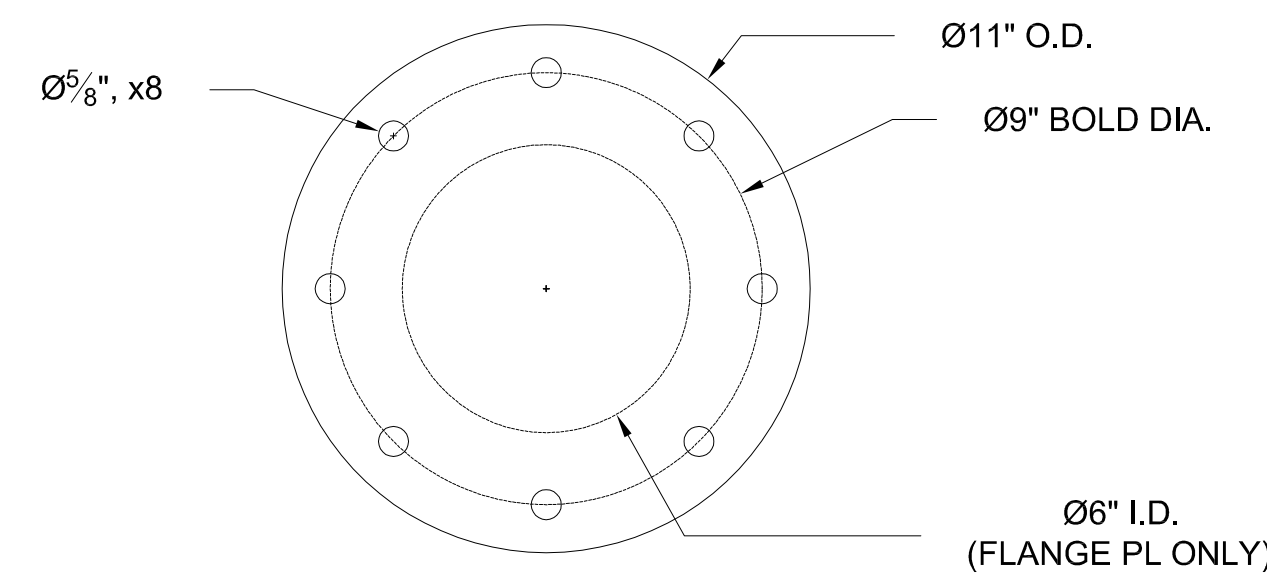
PLAN VIEW



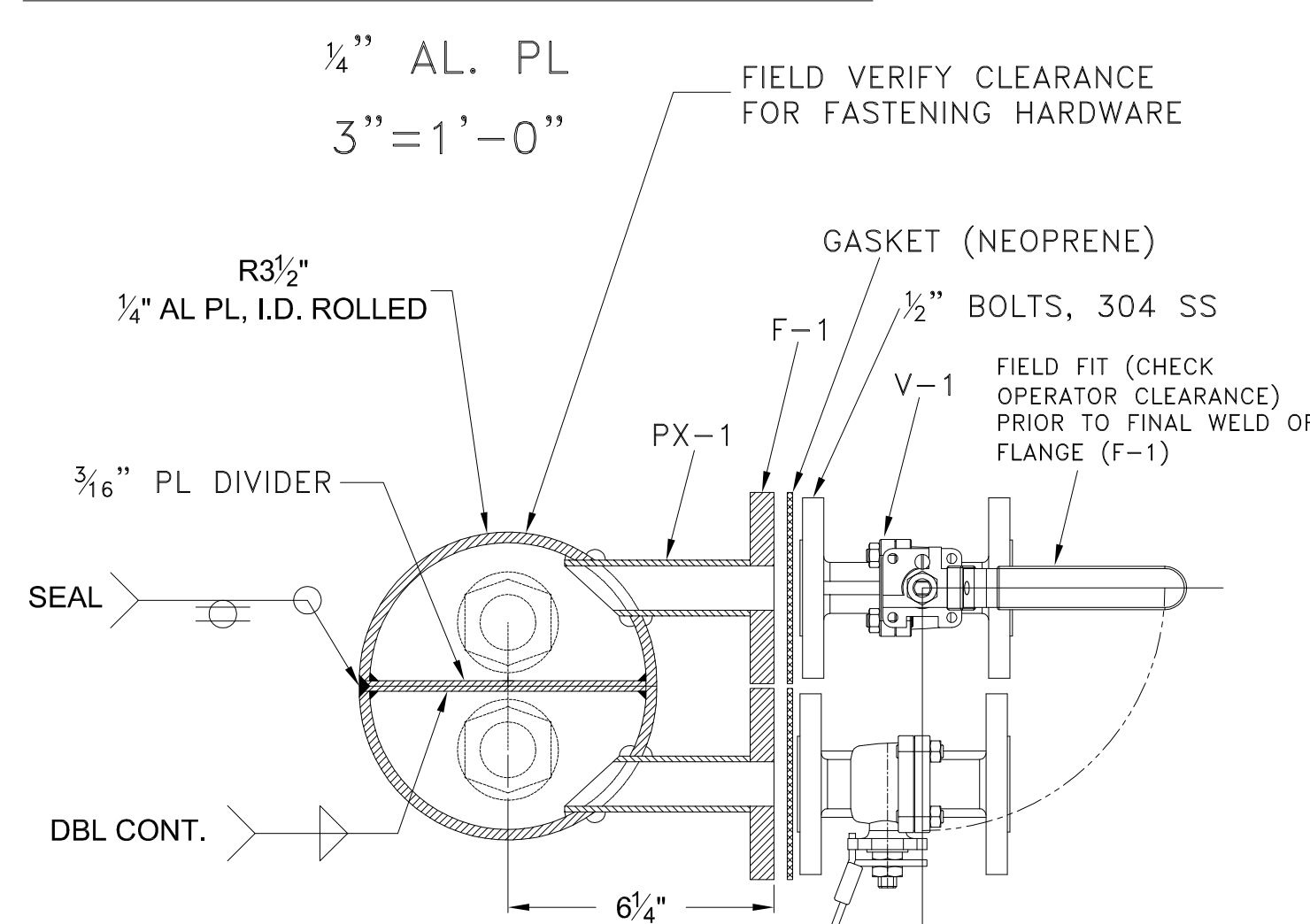
INBOARD PROFILE VIEW



LAZZARETTE



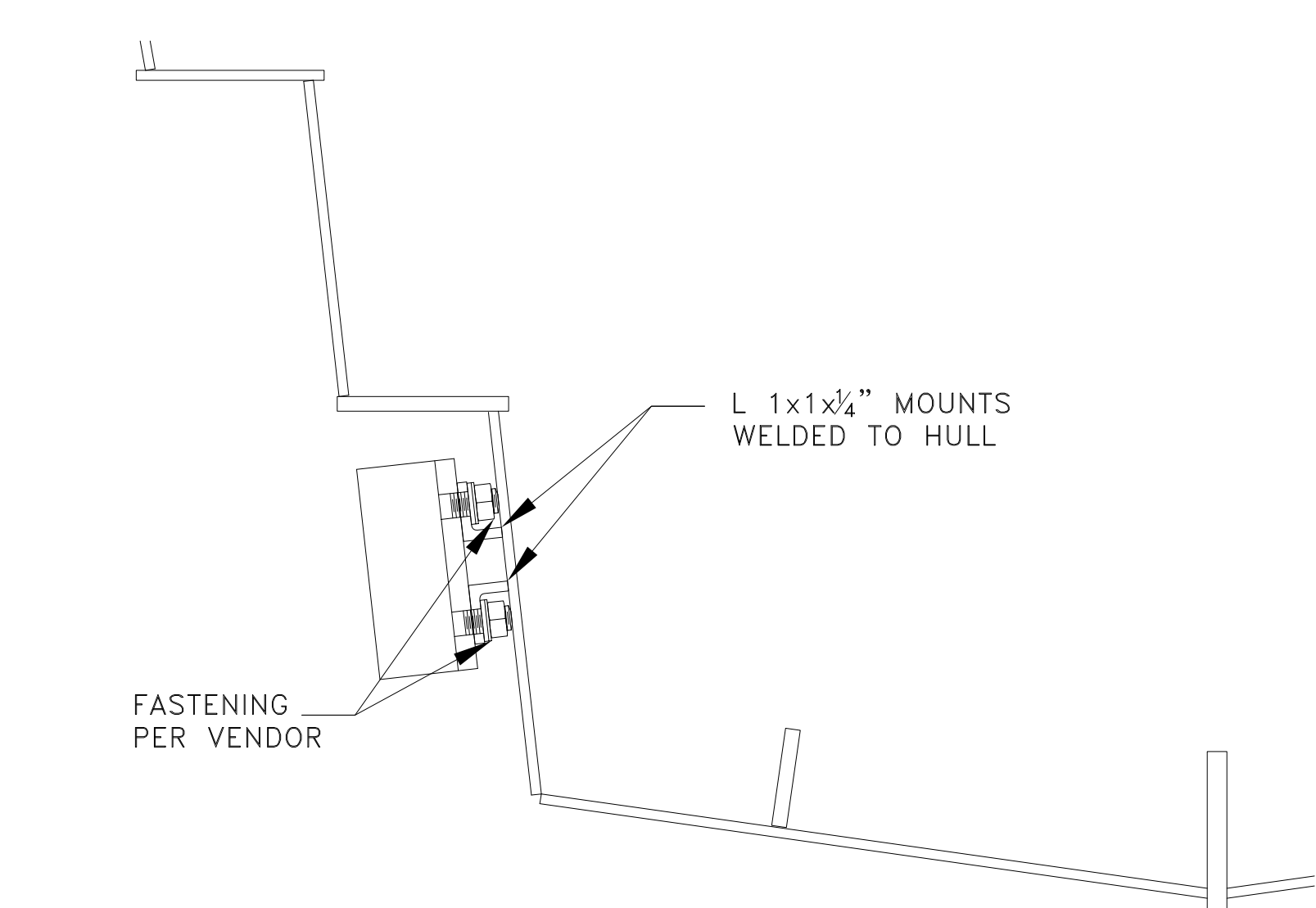
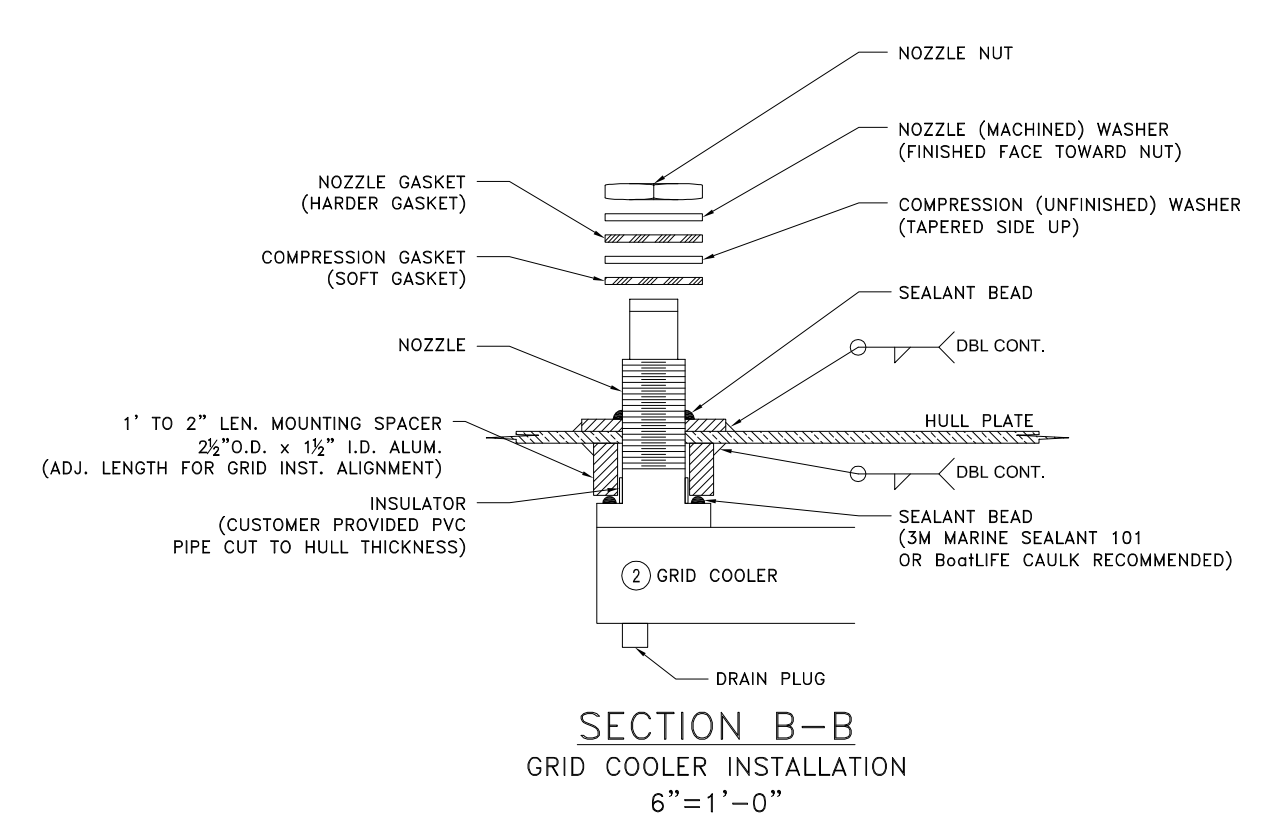
COFFERDAM COVER PLATE



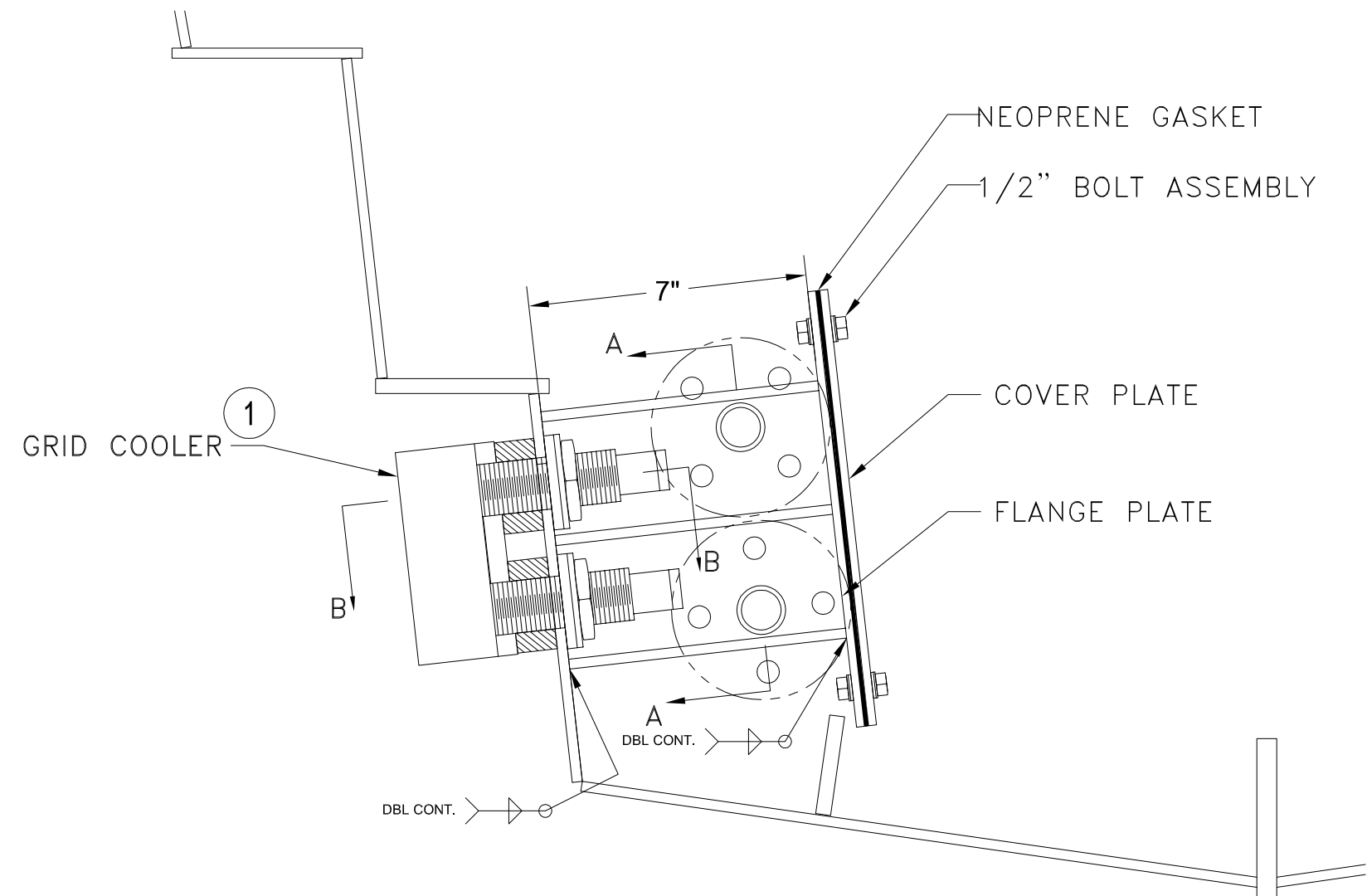
SECTION A-A:
COFFERDAM
3"=1'-0"

WATERJET PARTICULARS:
 MAKE/MODEL: SEE SPECIFICATIONS
 DRIVE: ELECTRIC MOTOR
 MOTOR RATING: 274 HP CONT.
 RATED SPEED: 2600 RPM

JET MOUNTED HYDRAULICS AND JET MOUNTED HYDRO-MECHANICAL CONTROL



DETAIL B:
GRID COOLER INTERMEDIATE SUPPORT
SCALE: 3"=1'-0"

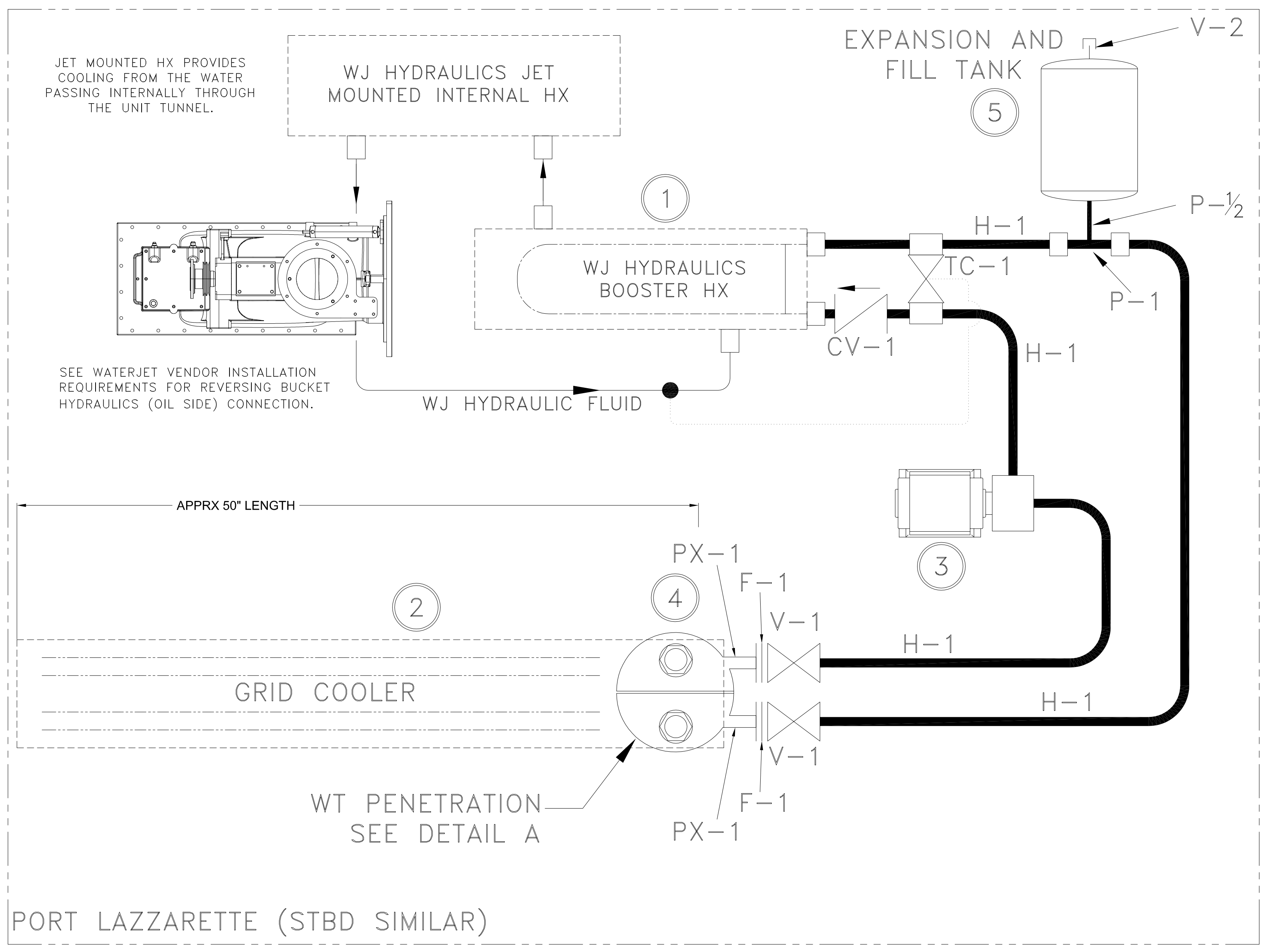


DETAIL A:
GRID COOLER COFFERDAM
SCALE: 3"=1'-0"

MATERIAL & EQUIPMENT LIST

PIECE NO.	QTY.	DESCRIPTION	MFG/ MODEL	STANDARDS
1	2	HEAT EXCHANGER, WATER-COOLED OIL COOLER PORT SIZE: 3/4" OIL, 3/4" WATER, 4 TO 20 GPM BTU/HR: TBD	SHELL-TUBE	WATERJET VENDOR TO PROVIDE BTU/HR RATING
2	2	KEEL COOLER, COPPER NICKEL, 500BTU, 6GPM, 50 IN.		-
3	2	SELF-PRIMING PUMP, 3/4HP INLET: 1 1/2", OULET: 1 1/2" (W/ REDUCERS) 115/230V AC, 29GPM @ 20FT		-
4	2	HULL PENETRATION COFFERDAM MIN 1/4" PL, 6061/5086 ALUM 1" FLANGED WATER INLET/OUTLET, 304 STAINLESS STEEL FITTINGS	SY FABRICATED (OR OTS EQ.)	SEE DETAIL A-A
5	2	EXPANSION/FILL TANK, 5 TO 15 GAL COATED STEEL OR STAINLESS STEEL 1/2" NPT CONN., <15PSI	SY FABRICATED (OR OTS EQ.)	SEE NOTE BELOW
TC-1	2	1" D.A. REGULATOR VALVE (TEMPERATURE CONTROL) BODY: BRONZE OR S.S., FASTENERS: 304 STAINLESS STEEL		
V-1	6	1" BALL VALVE (OR BTRFLY), FLANGED BODY: BRONZE OR S.S., FASTENERS: 304 STAINLESS STEEL		ASME B61
V-2	2	1/4" VENT VALVE, GLOBE OR BALL BRONZE, FNPT		ASME B61
CV-1	2	IN-LINE CHECK VALVE, (SIZE TO SERVICE LINE) BRONZE, 200#WOG, FNPT, THREADED		ASME B61
P-#	-	SCHEDULE 10 STAINLESS STEEL TUBE 304 STAINLESS STEEL, ALL PIPE, FITTINGS, & FASTENERS	SHIPYARD	
PX-#	-	SCHEDULE 80 PIPE 6061-T6 ALUMINUM	SHIPYARD	
H-#	-	HOSE, SIZED TO # INDICATED DOUBLE HOSE CLAMP OR MFG THREADED FITTINGS FASTENERS: 300 SERIES STAINLESS STEEL	SHIPYARD	J2006, OPTION J1942
F-#	-	FLANGE 150# SLIPON 6061-T6 ALUMINUM FASTENERS: 304 STAINLESS STEEL	SHIPYARD	

EXPANSION TANK NORMAL OPERATING PRESSURE VENTED TO ATM.



WATERJET HYDRAULICS COOLING SCHEMATIC (X2)
 PORT AND STARBOARD SIDES IDENTICAL
 AND INDEPENDENT
 NOT TO SCALE

GENERAL NOTES	
NO.	DESCRIPTION
1	ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH 46 CFR SUBCHAPTER T

ALTERATIONS		
NO.	DESCRIPTION	DATE BY NO.
1	GENERIC PART DESIGNATIONS	8.12.22 JS

REFERENCES	
NO.	DESCRIPTION
5	
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 Naval Architects
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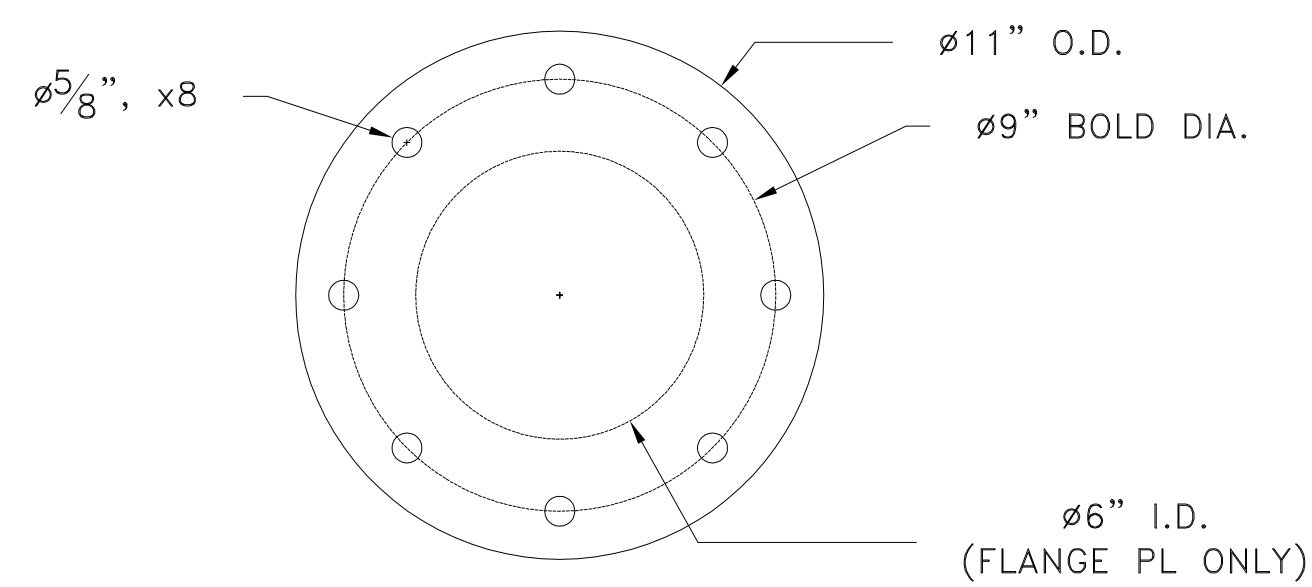
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65' PASSENGER FERRY (DIESEL-ELECT HYBRID)
EXHAUST MIXER & WATERJET HYDRAULICS COOLING

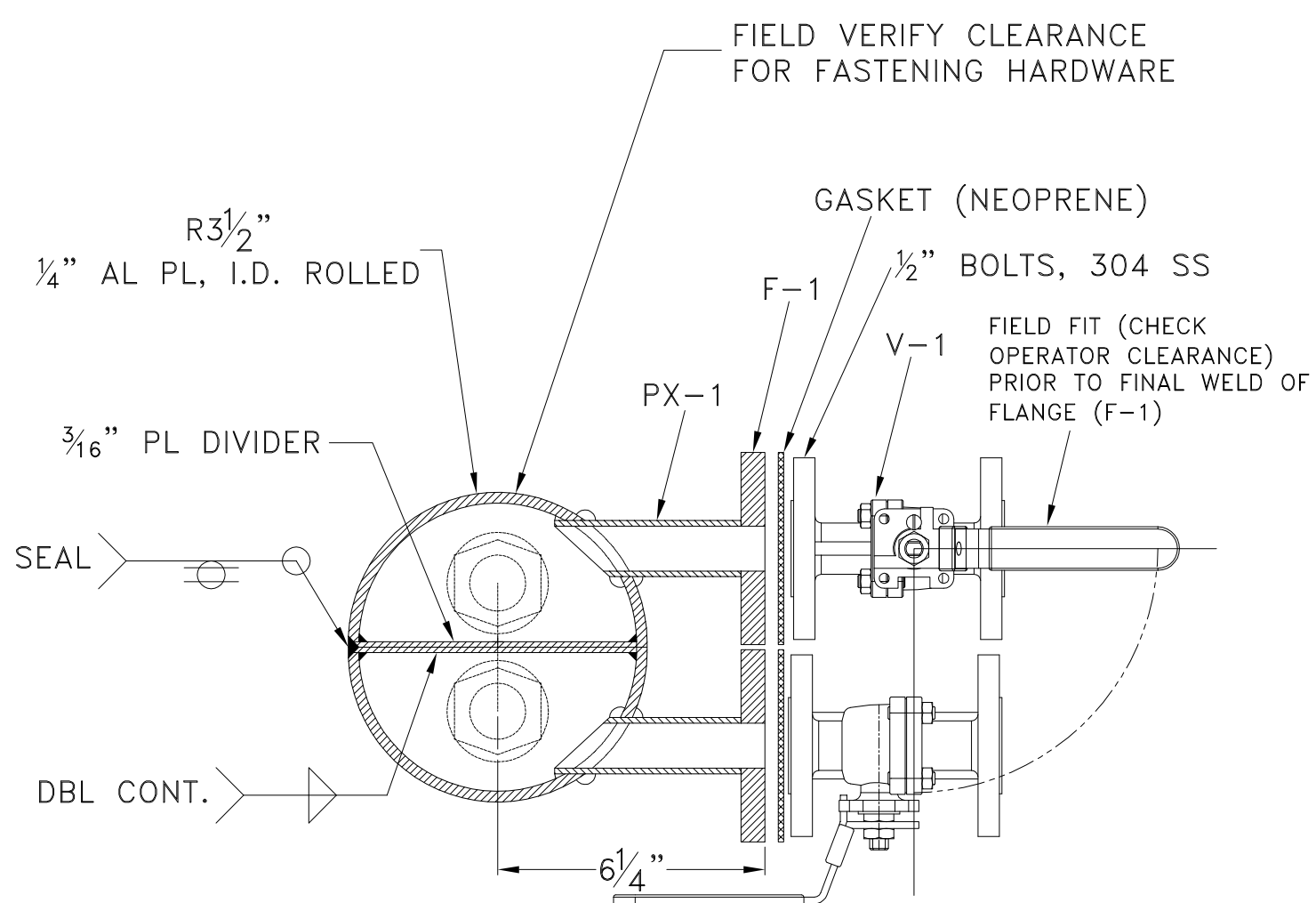
Dwg. No. 22-1477-4010 Alt. No. 1
 Shk. 1 OF 1

Drawn By: BRIAN BOUDREAU Date: 12 JUL 2022
 Checked By: Date:
 App'd By: Scale: 1/2"=1'-0"
 ABS App'l: USCG App'l:



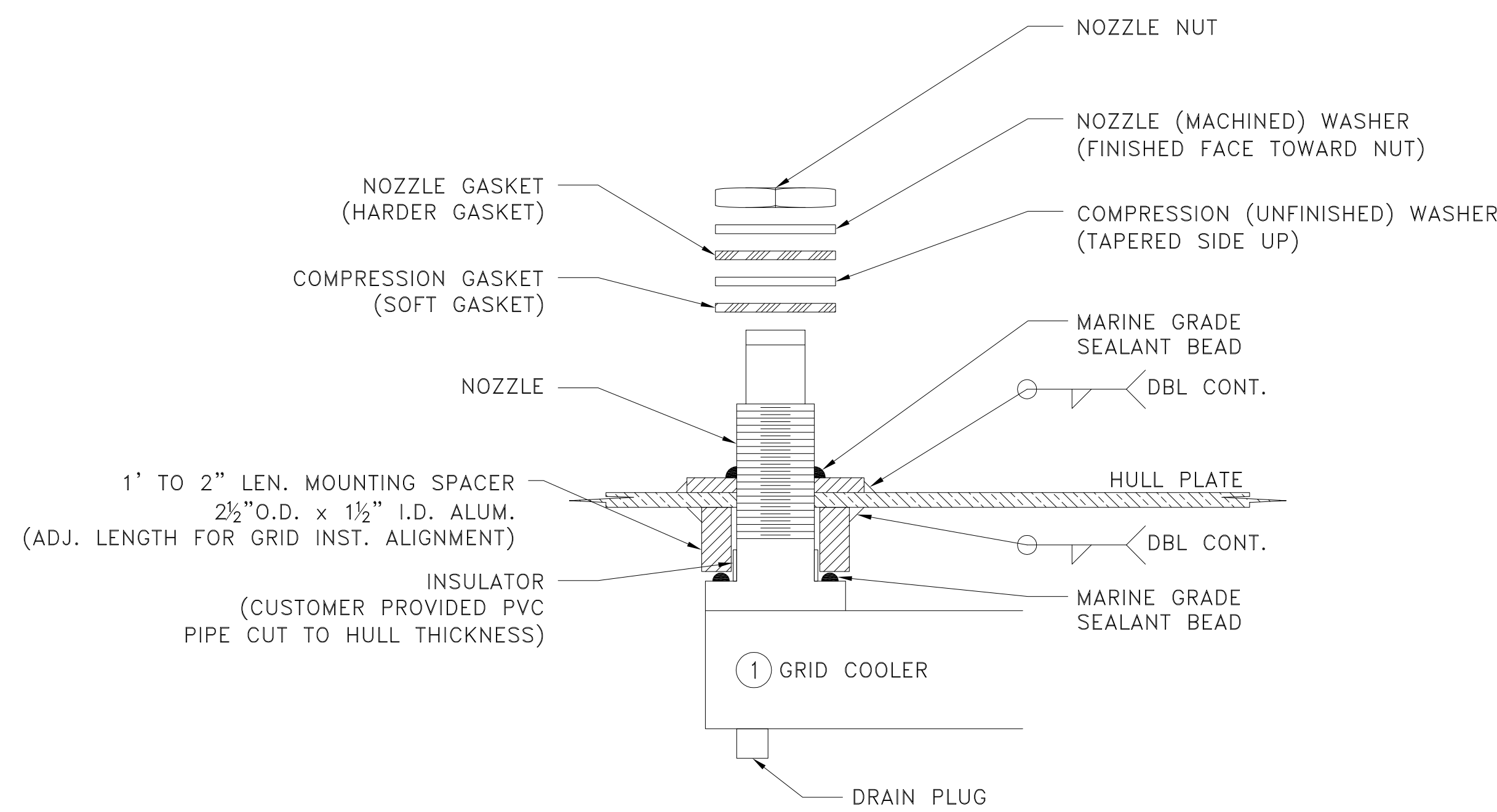
COFFERDAM COVER PLATE

1/4" AL. PL
3"=1'-0"



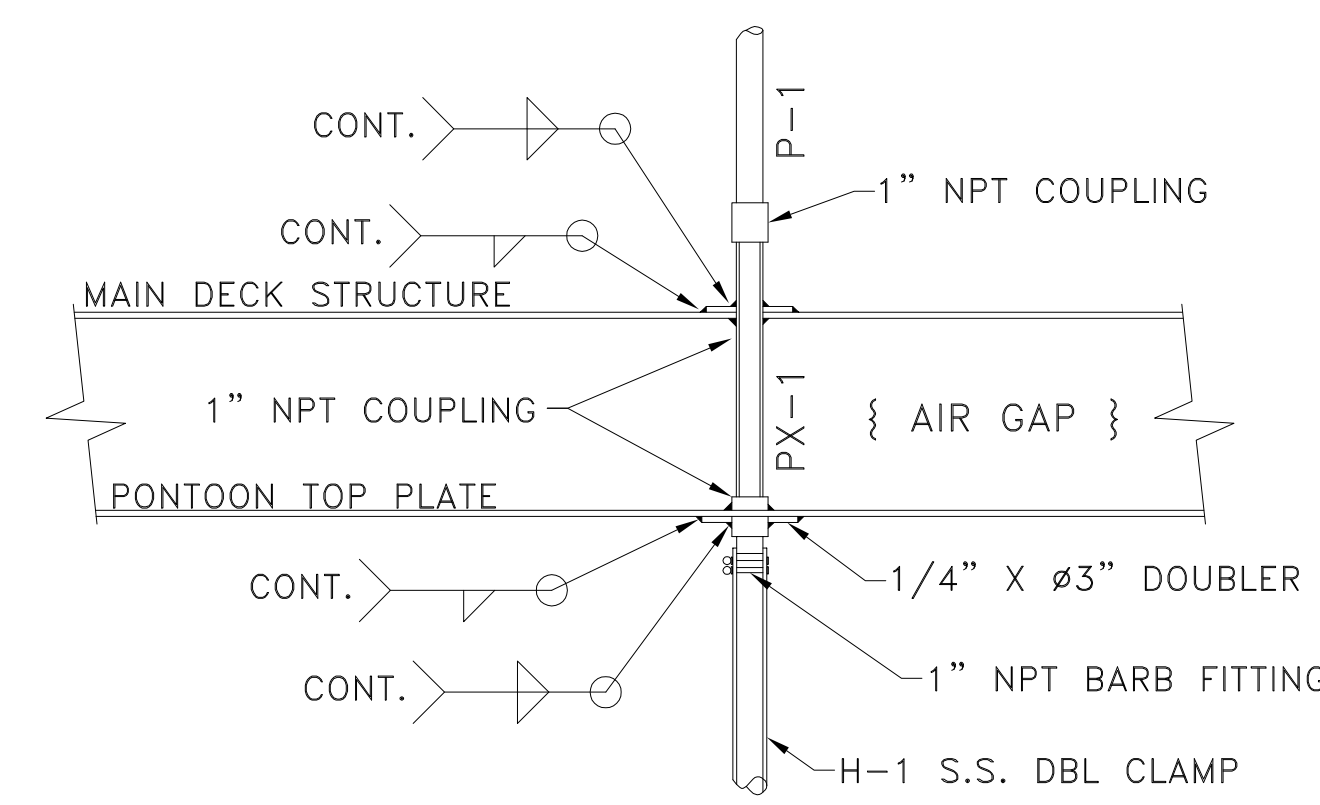
**SECTION A-A:
COFFERDAM**

3"=1'-0"



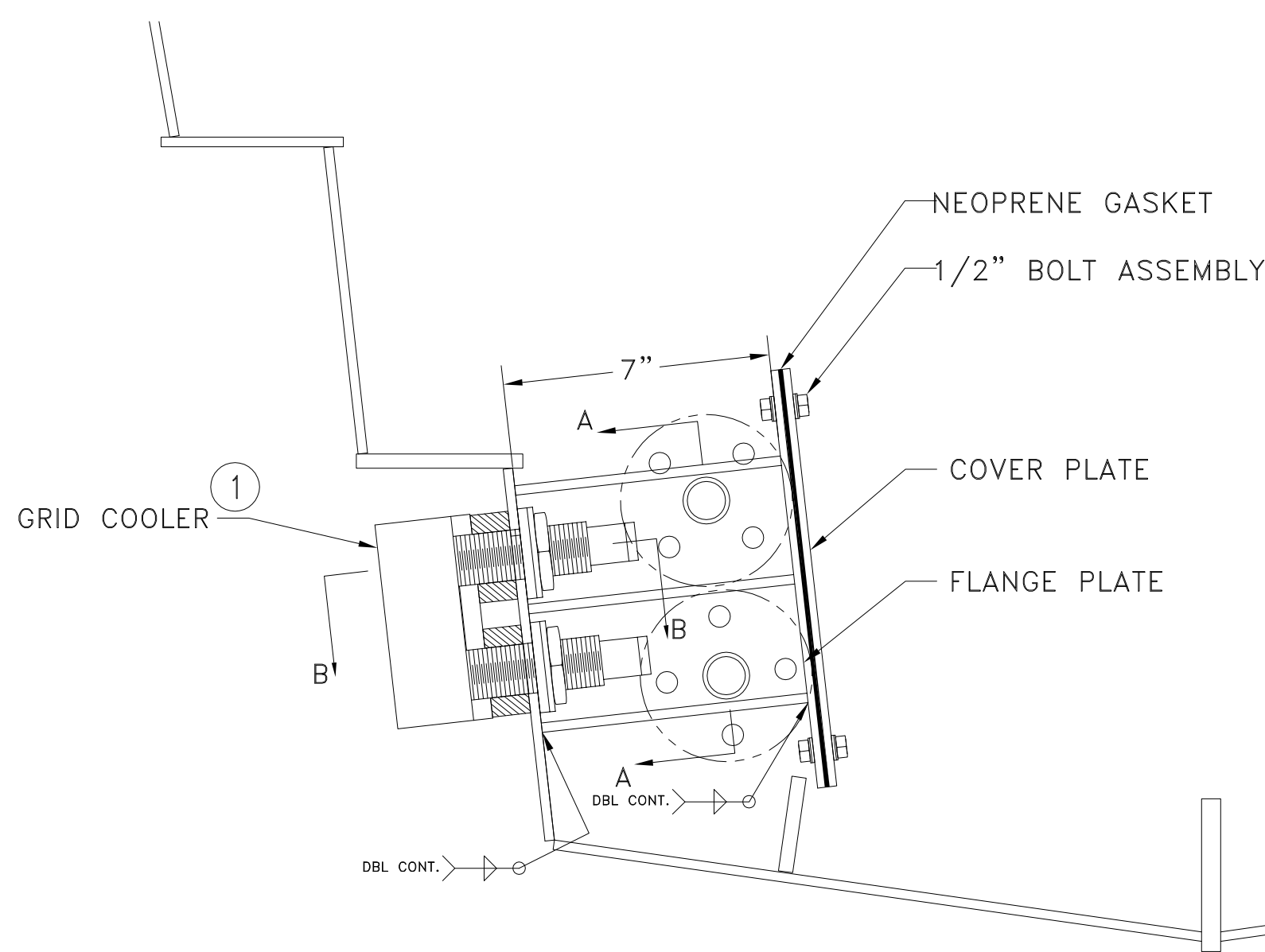
**SECTION B-B
GRID COOLER INSTALLATION**

6"=1'-0"



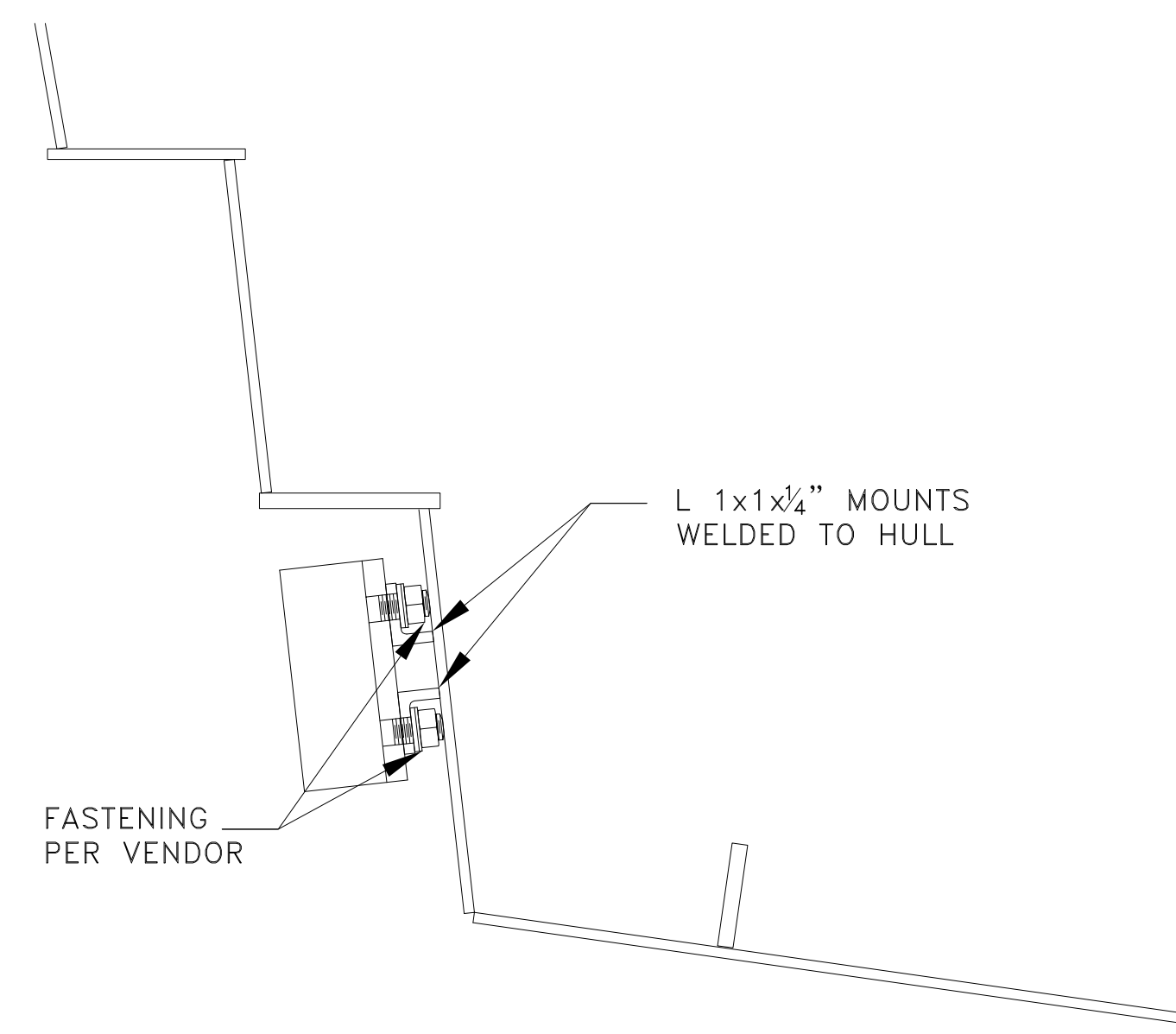
**DETAIL-C
WT PENETRATION**

1 1/2"=1'-0"



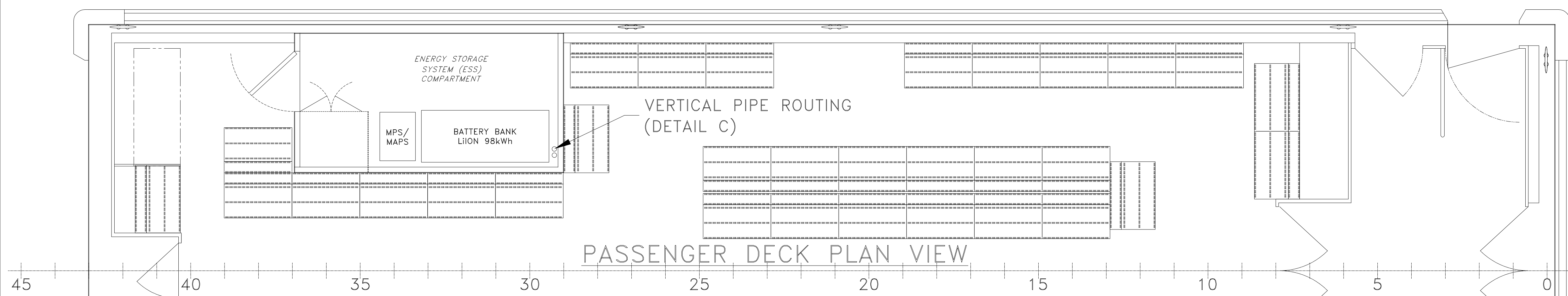
**DETAIL A:
GRID COOLER COFFERDAM**

SCALE: 3"=1'-0"

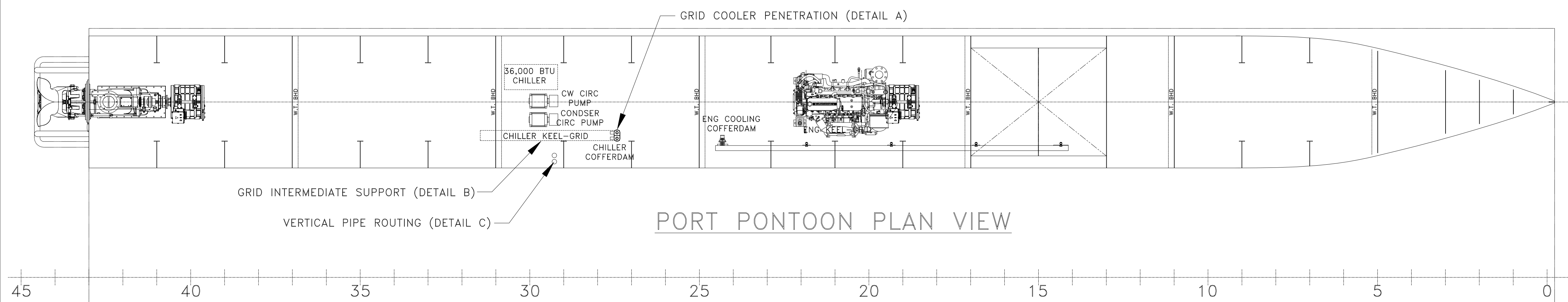


**DETAIL B:
GRID COOLER INTERMEDIATE SUPPORT**

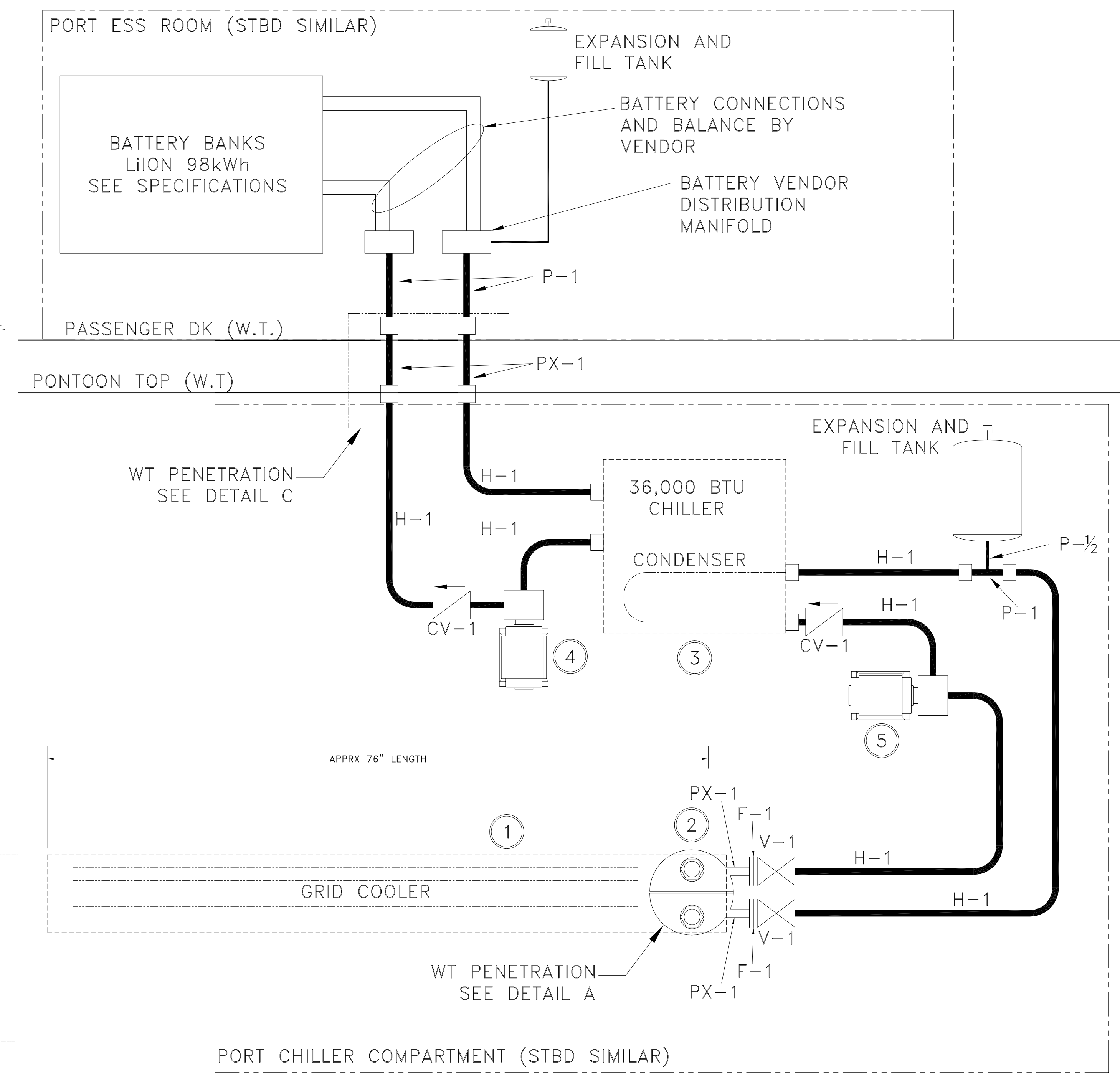
SCALE: 3"=1'-0"



PASSENGER DECK PLAN VIEW



PORT PONTOON PLAN VIEW



BATTERY SYSTEM COOLING SCHEMATIC (X2)

PORT AND STARBOARD SIDES IDENTICAL
AND INDEPENDENT
NOT TO SCALE

MATERIAL & EQUIPMENT LIST			
PIECE NO.	QTY.	DESCRIPTION	SPECS / REMARKS
V-1	4	1" ISOLATION VALVE, BTRFLY OR BALL FLANGED, BRONZE OR S.S.	ASME SB61
CV-1	4	1" CHECK VALVE, IN-LINE, BRONZE OR S.S.	ASTM SB61
PX-#	AS REQ'D	SIZE TO "#" SCH 80 ALUMINUM PIPE, 5086 OR 6061	ASTM B241
H-#	AS REQ'D	I.D. SIZE TO "#" REINFORCED MARINE HOSE, MIN 200PSI, STAINLESS STEEL DOUBLE HOSE CLAMPS OR FACTORY INSTALLED THREADED	SAEJ2006/UL1129
F-#	AS REQ'D	SIZE TO "#", 150# FLANGE SLIP-ON, ALUMINUM PIPE, 5086 OR 6061	ASTM B16.5, SB211
1	2	KEEL COOLER: 500BTU/MIN, 6 GPM, 74 IN.	
2	2	COFFERDAM, 1/4" AL PLATE W 1" NPT SCH 40 PIPE	YARD FABRICATED, SEE SECTION A-A
3	2	CHILLER: 36,000 BTU	
4	2	CHILLED WATER CIRCULATION PUMP: 1/2HP CENTRIFUGAL 120/240VAC 29GPM @ 20FT HEAD	OR EQUAL
5	2	CONDENSOR CIRCULATION PUMP: 1/2HP CENTRIFUGAL 120/240VAC 29GPM @ 20FT HEAD	OR EQUAL

GENERAL NOTES		ALTERATIONS		RESERVATIONS		REFERENCES	
NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION
1	ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH 46 CFR SUBCHAPTER T	1	GENERIC PART DESIGNATIONS				

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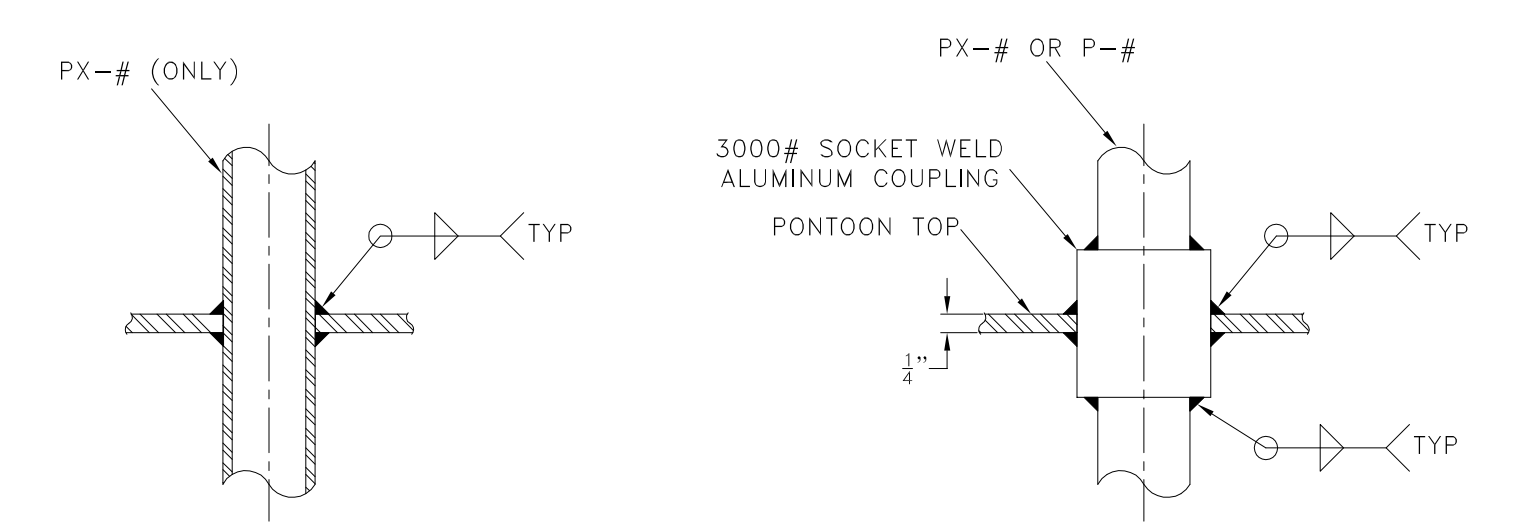
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65' PASSENGER FERRY (DIESEL-ELECT HYBRID)
BATTERY (ESS) SYSTEM COOLING PIPING

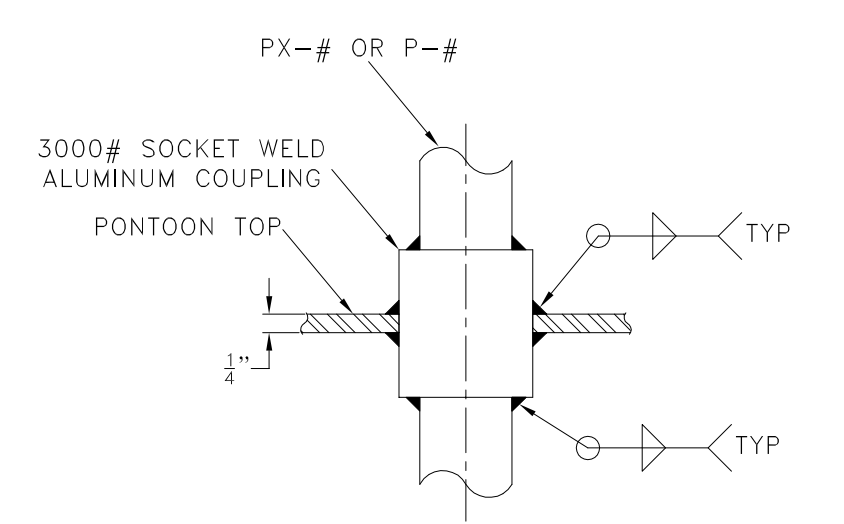
Dwg. No. 22-1477-4022 Alt. No. 1 Sh. 1 OF 1

Drawn By: **JOE SILAS**
 Checked By: **BRIAN BOUDREAU**
 App'd By:
 ABS App'l:

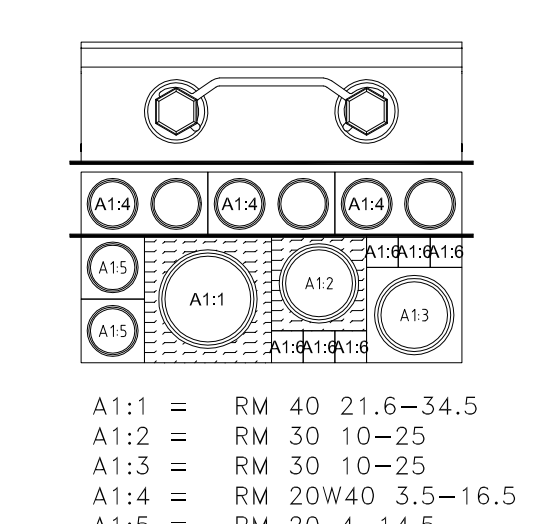
Date: **JUNE 24, 2022**
 Scale: 3/4"=1'-0" OR AS NOTED
 USCG App'l:



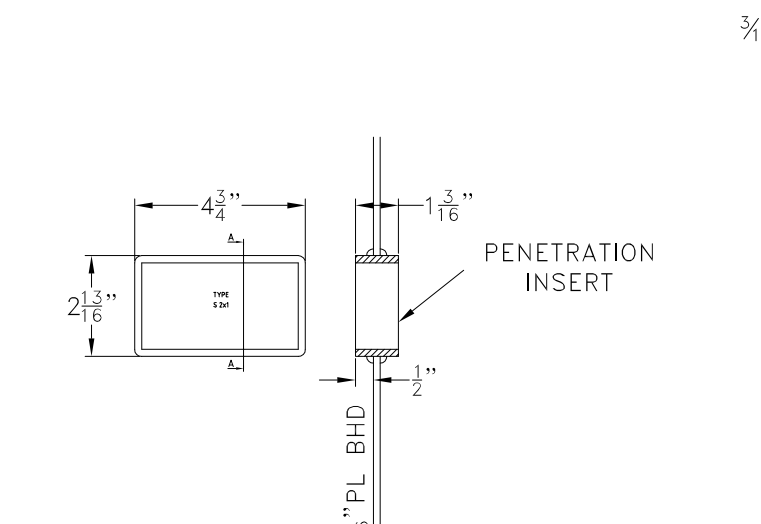
DETAIL A
PONTON W.T. TOP PENETRATION
TANK VENT, FILL, SHUTOFF TUBE
NOT TO SCALE



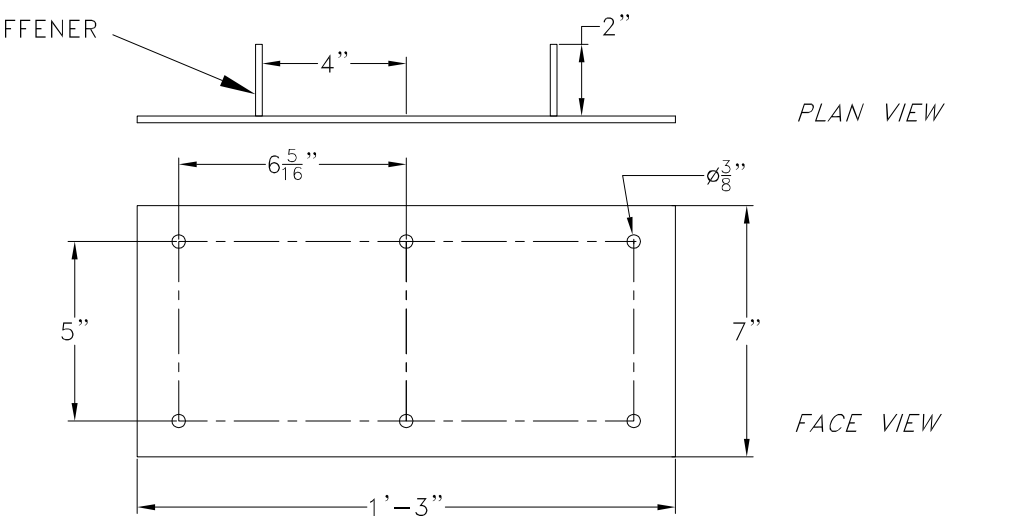
DETAIL B
FUEL TANK O.T. TOP PENETRATION
NOT TO SCALE



DETAIL C-1
PONTON BHD PENETRATION
FILL DETAIL



DETAIL C-2
PONTON BHD PENETRATION
INSERT, ALUMINUM



DETAIL D
FUEL FILTER MOUNTING
3/16" PL, 6056 AL

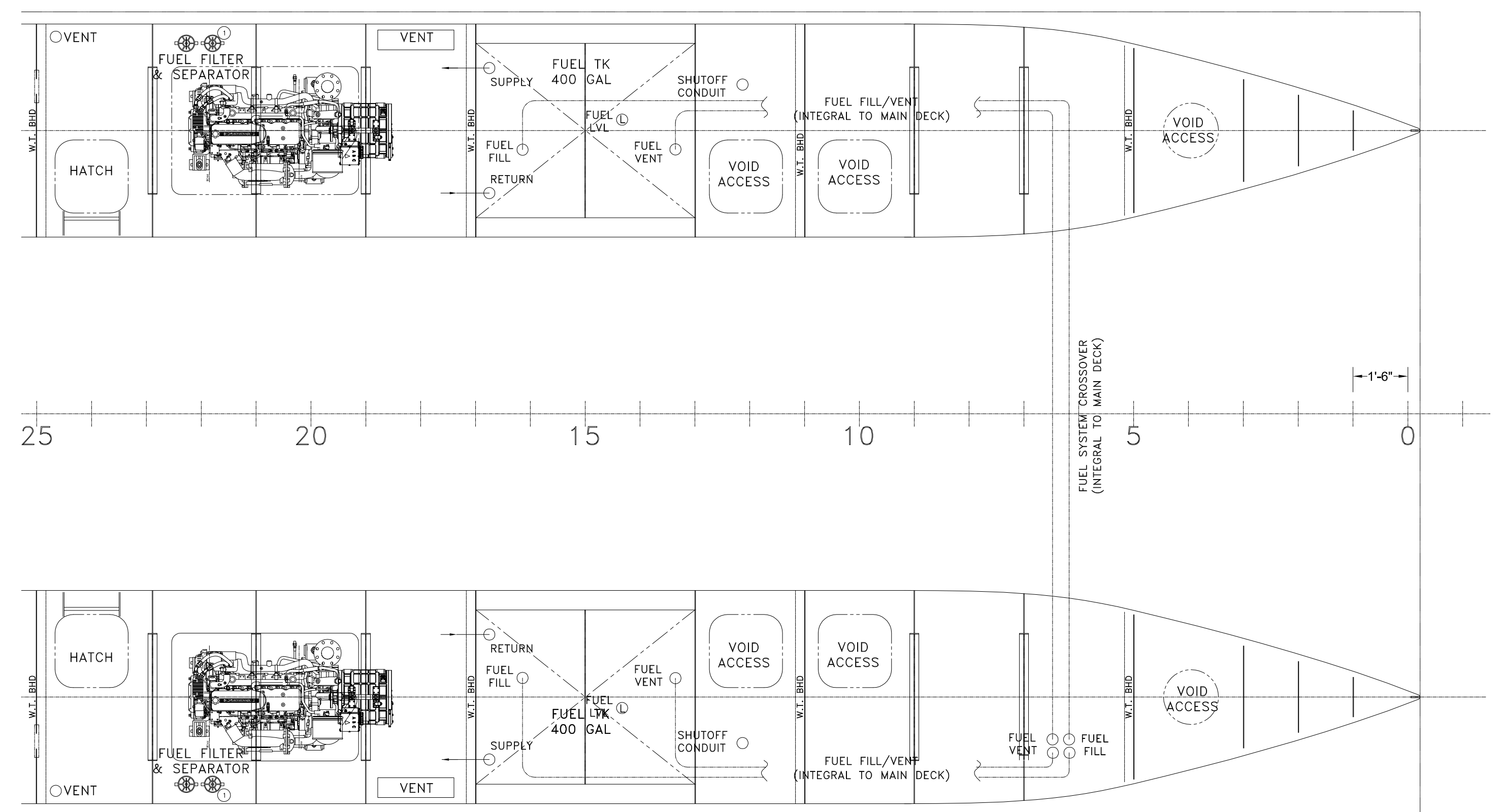
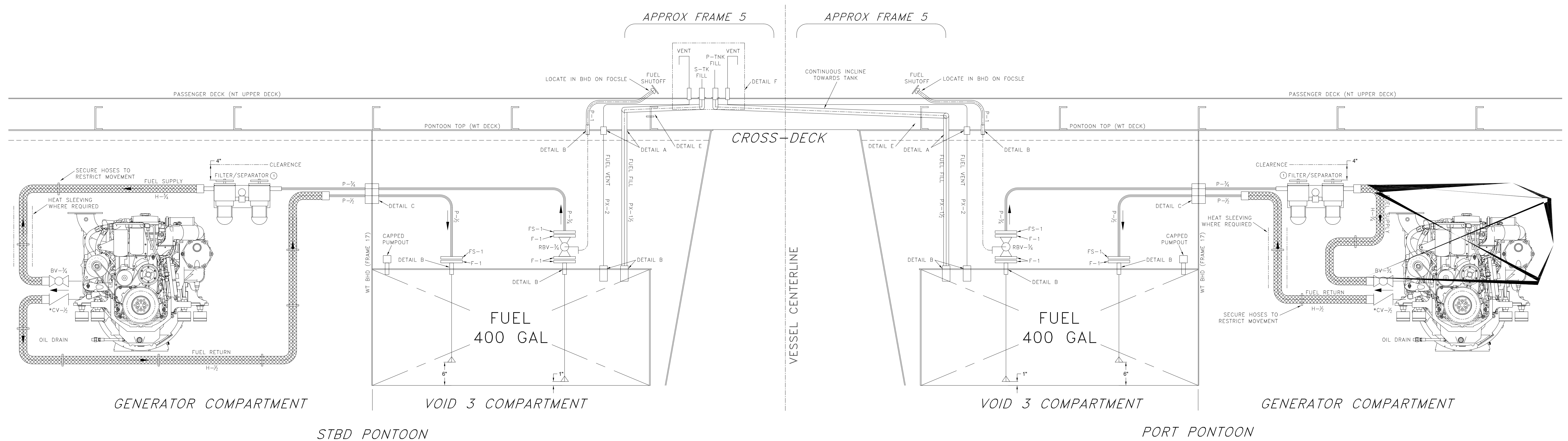
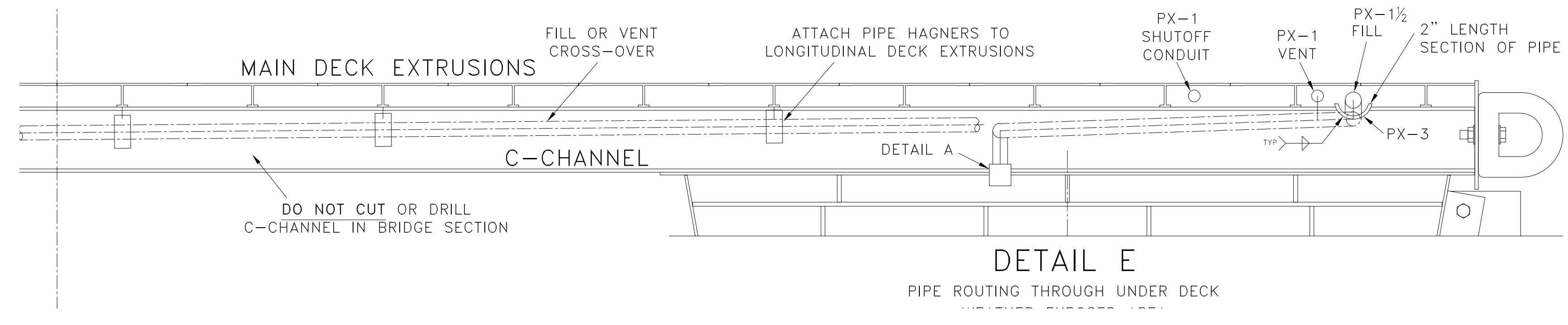
- 1. MOUNT FILTER ASSEMBLY AS CLOSE TO VERTICAL AS POSSIBLE, DO NOT EXCEED 10° FROM VERTICAL.
2. DO NOT REMOVE VALVE FITTINGS AS THEY ARE INTEGRAL COMPONENTS TO THE VALVE BODY.

BILL OF MATERIALS table with columns: #, QTY, SERVICE, TYPE, MAKE/MODEL, MATERIAL, SPEC. Includes items like Fuel Filter, Sch. 80 Pipe, Fuel Hose, Fittings, Level Detector, and Remote Shutdown Valve.

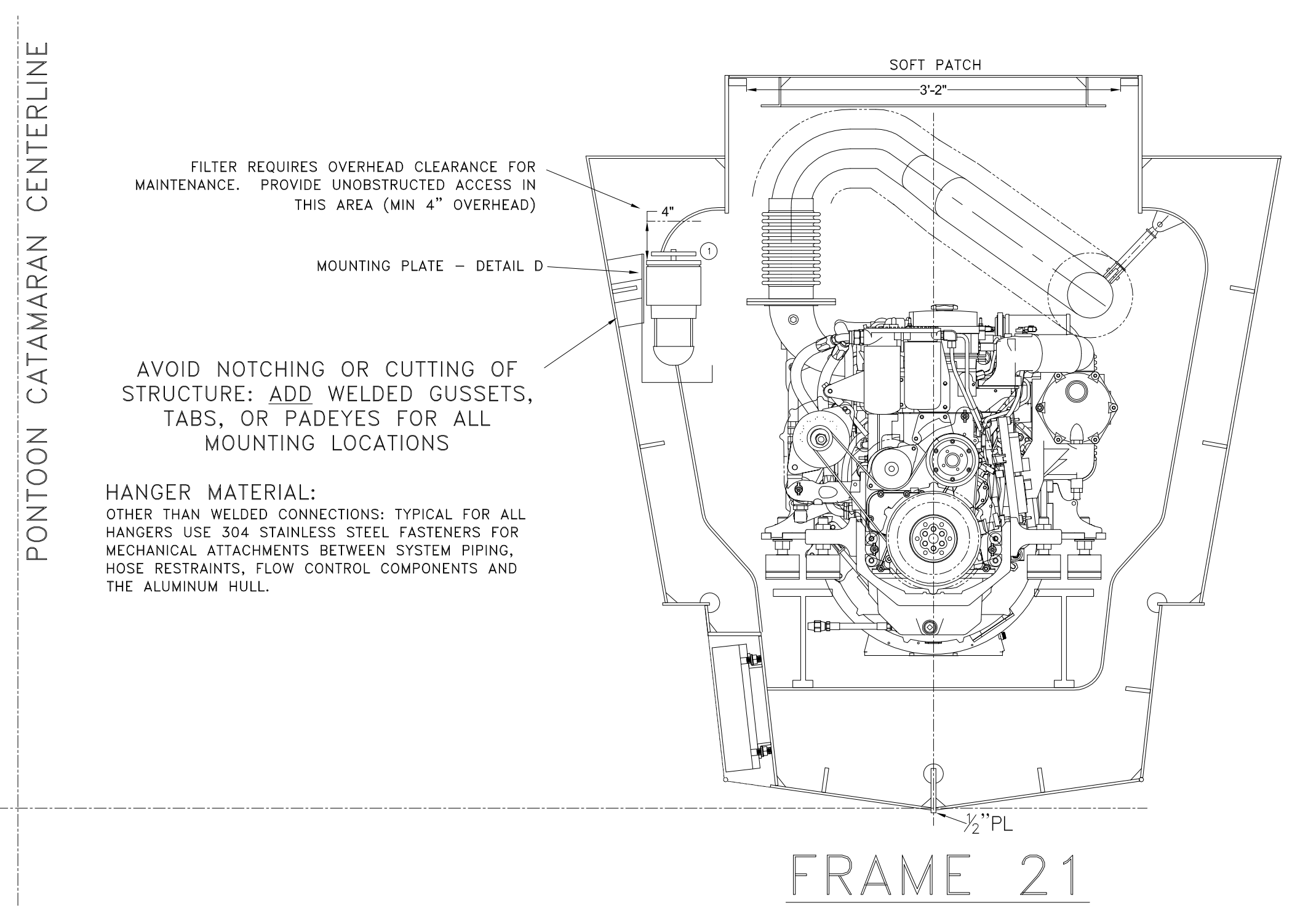
SYMBOLS LIST table with symbols for various components like valves, pumps, and filters.

ENGINE PARTICULARS: ENGINE: 605 HP, RATED SPEED: 2800 RPM, FUEL CONSUMPTION (RATED): 15.5 GAL/HR, etc.

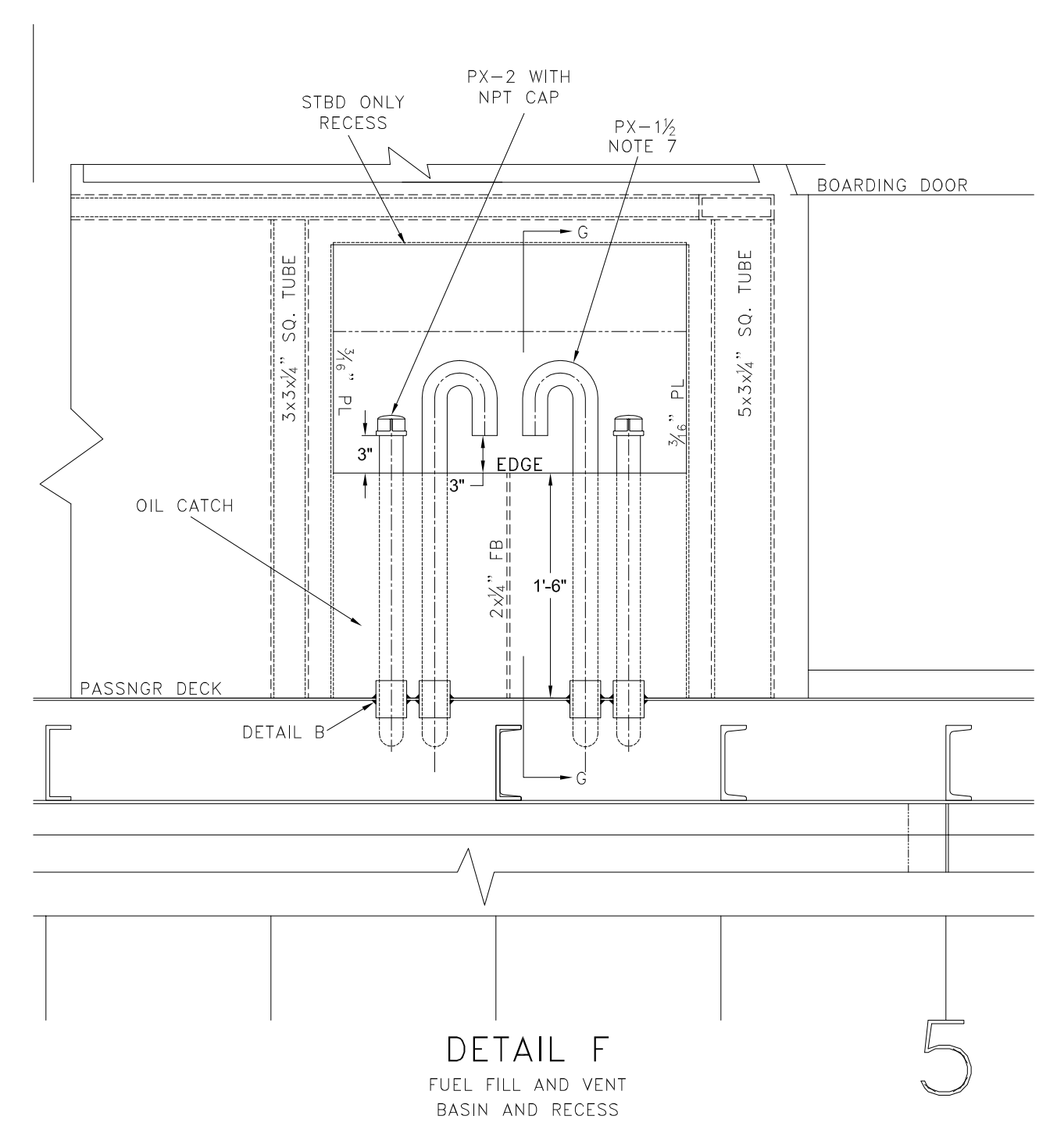
NOTE: FOR PIPE FASTENERS, AVOID 316L OR ANY 400 SERIES STAINLESS STEEL FASTENERS WHERE HEAT AND DISMISAR METALS ARE PRESENT.



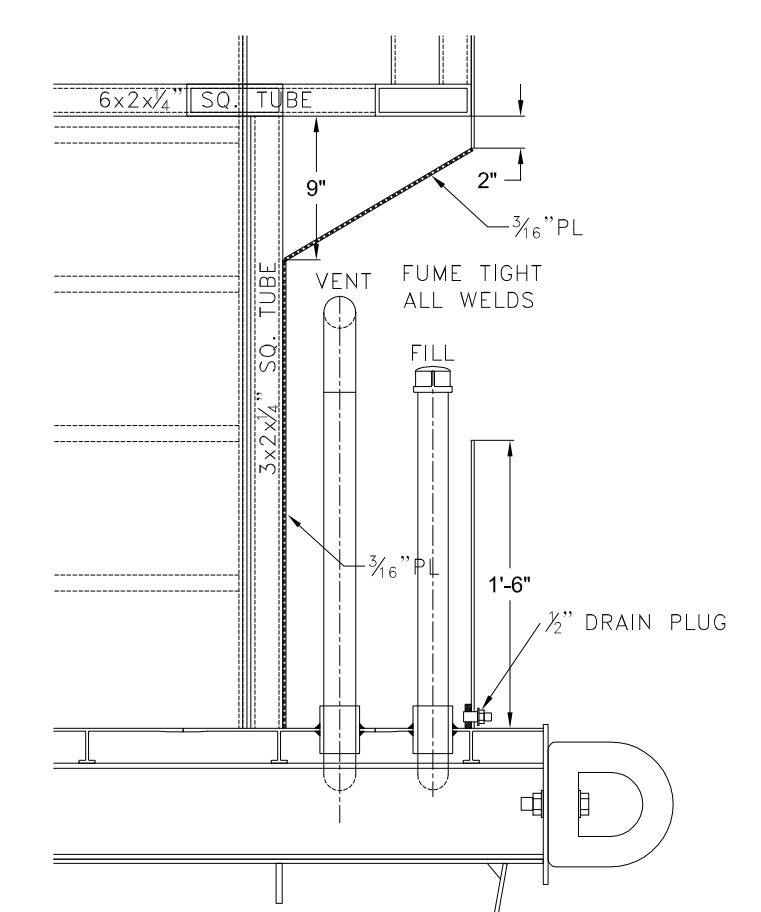
HOLD/UNDER DECK PLAN VIEW



FRAME 21



DETAIL F
FUEL FILL AND VENT
BASIN AND RECESS



DETAIL GG
FUEL FILL AND VENT SECTION
BASIN AND RECESS

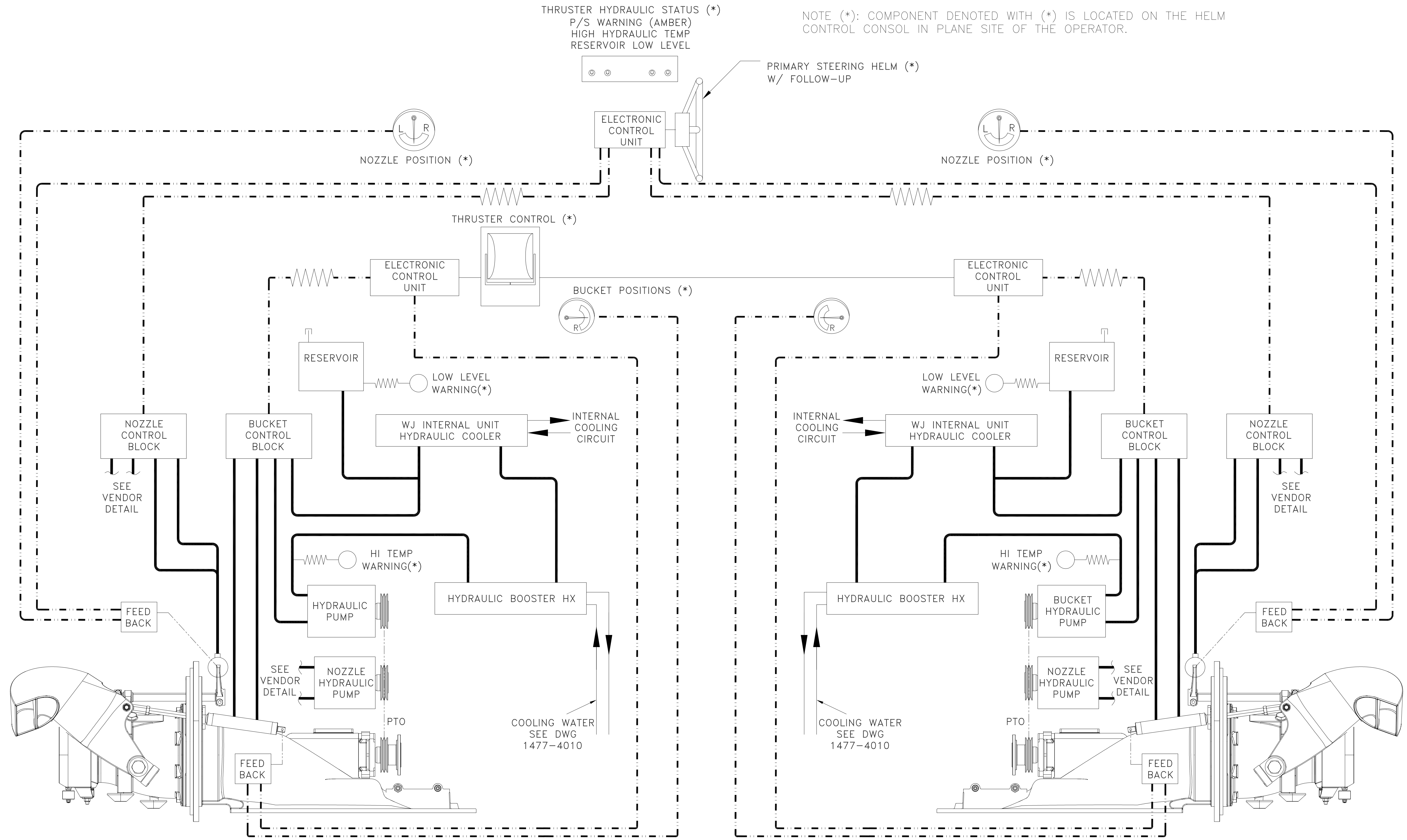
GENERAL NOTES table with 7 numbered notes regarding materials, fuel lines, hoses, valves, and safety requirements.

ALTERATIONS table with columns for NO., DESCRIPTION, DATE, BY, NO., and REFERENCES.

REFERENCES table with columns for NO., DESCRIPTION, and DATE.

DeJong & Lebet, Inc. logo and contact information including address, phone, and website.

Project information including title '65' PASSENGER FERRY (DIESEL-ELECT HYBRID) FUEL SYSTEM PIPING', drawing number, date, and scale.



NOTE (*): COMPONENT DENOTED WITH (*) IS LOCATED ON THE HELM CONTROL CONSOL IN PLANE SITE OF THE OPERATOR.

HYDRAULIC SYSTEM SCHEMATIC

PORT & STARBOARD WATERJETS
SEE VENDOR INSTALLATION REQUIREMENTS FOR DETAIL

*** HIERARCHY ***
THIS SCHEMATIC IS A SIMPLIFIED DIAGRAM OF DESIRED OPERATIONAL AND MAINTENANCE CHARACTERISTICS OF THE WATERJET UNIT; VENDOR TO INCORPORATE AS MUCH AS POSSIBLE WITHIN NORMAL DESIGN AND LIMITATIONS. ITEMS THAT ARE SIGNIFICANT DEVIATIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEERS FOR FINAL DECISION.

SCHEMATIC LEGEND

- ELECTRONIC CONTROL AND INDICATION WIRING: REFER TO VENDOR INSTALLATION REQUIREMENTS FOR ELECTRONIC CONTROL WIRING HARNESS SPECIFICATIONS AND FINAL ARCHITECTURE.
- HYDRAULIC FLUID PIPE AND HOSE: ALL PIPING AND HOSES SHALL BE SPECIFIED TO MEET 46 CFR SUBCHAPTER T REQUIREMENTS. REFER TO VENDOR INSTALLATION REQUIREMENTS FOR SIZING AND SYSTEM TEMPERATURE AND PRESSURE LIMITATIONS.
- MECHANICAL INTERFACE: COMPONENTS SUCH AS POWER TAKEOFF (PTO) AND LINKAGES SHALL BE SPECIFIED AND INSTALLED TO MEET 46 CFR SUBCHAPTER T REQUIREMENTS. REFER TO COMPONENT SPECIFIC VENDOR INSTALLATION REQUIREMENTS FOR APPLICATION.

SYSTEM SPECIFIC REQUIREMENTS

- WATERJET THRUSTER MUST BE REVERSIBLE TO ALLOW THE OPERATOR TO BACK FLUSH THE INTAKE NOZZLE WITH MINIMUM INTERVENTION.
 - PROVIDE ANTI-REVERSING CLUTCH FOR HYDRAULIC PTO
 - ENSURE BUCKETS CAN BE POSITIONED FOR WATERJET REVERSAL
- SYSTEM SHALL INCLUDE A HYDRAULIC RESERVOIR LEVEL INDICATOR (AMBER WARNING LIGHT) ON THE HELMSTATION CONSOL.
- SYSTEM SHALL INCLUDE A HYDRAULIC FLUID HIGH TEMPERATURE INDICATOR (AMBER WARNING LIGHT) ON THE HELM STATION CONSOL

GENERAL NOTES	
NO.	DESCRIPTION
1	ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH 46 CFR SUBCHAPTER T.
2	HYDRAULIC OIL LINES TO BE SEAMLESS 304 STAINLESS STEEL PIPE WITH MINIMUM WALL 0.035 INCH.
3	FLEXIBLE NON-METALLIC HOSES AND FITTINGS SHALL CONFORM TO SAE J1942 AND J1475 SPECIFICATIONS.
HOSES SHALL BE FITTED WITH FIRE SLEEVES WHERE REQUIRED UNDER SAE J1942.	

ALTERATIONS		REFERENCES	
NO.	DESCRIPTION	DATE	BY NO.
1.	GENERIC PART DESIGNATIONS	8.12.22	JS

NO.	DESCRIPTION	DATE	BY NO.
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Title: 65' PASSENGER FERRY (DIESEL-ELECT HYBRID)

**WATERJET THRUSTER
HYDRAULICS SYSTEM**

Dwg. No. 22-1477-4072 Alt. No. 1 Sh. 1 OF 1

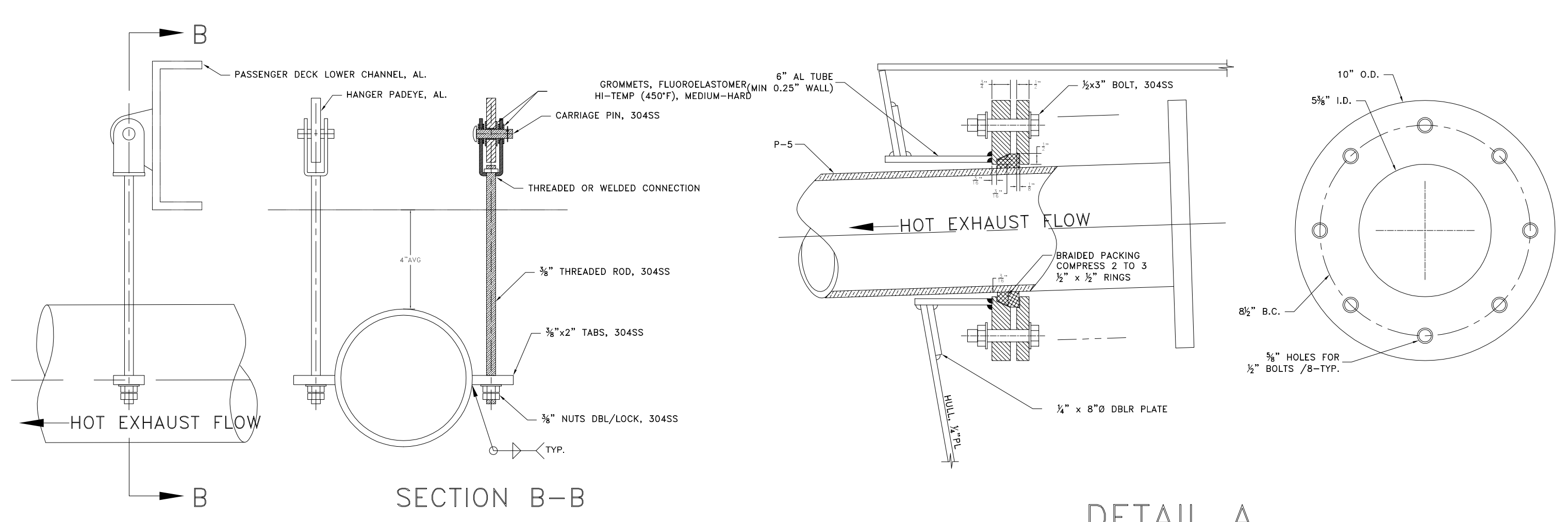
Drawn By: BRIAN BOUDREAU Date: 21 JUL 2022

Checked By: _____ Date: _____

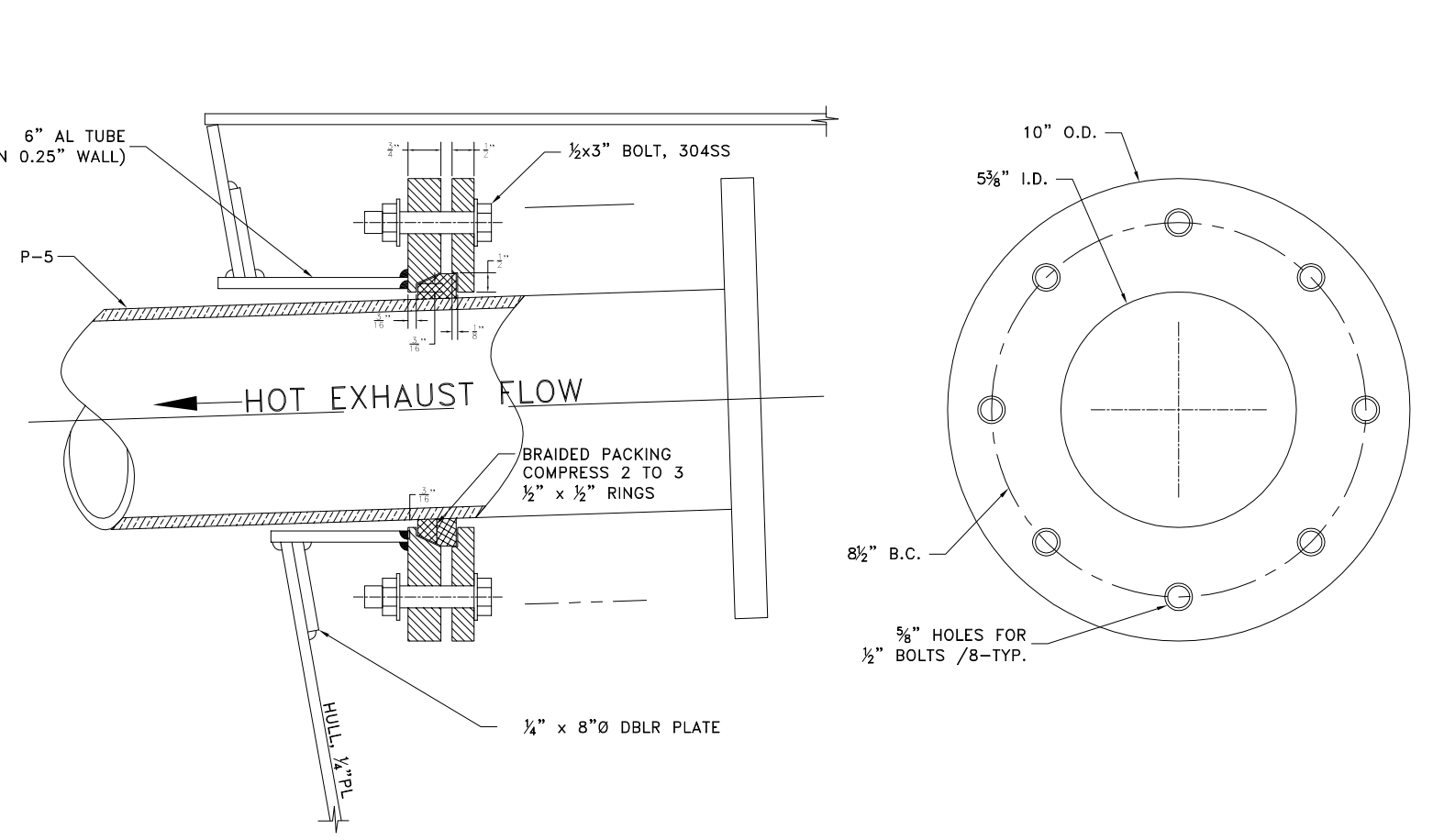
App'd By: _____ Date: _____

Scale: 1/2" = 1'-0"

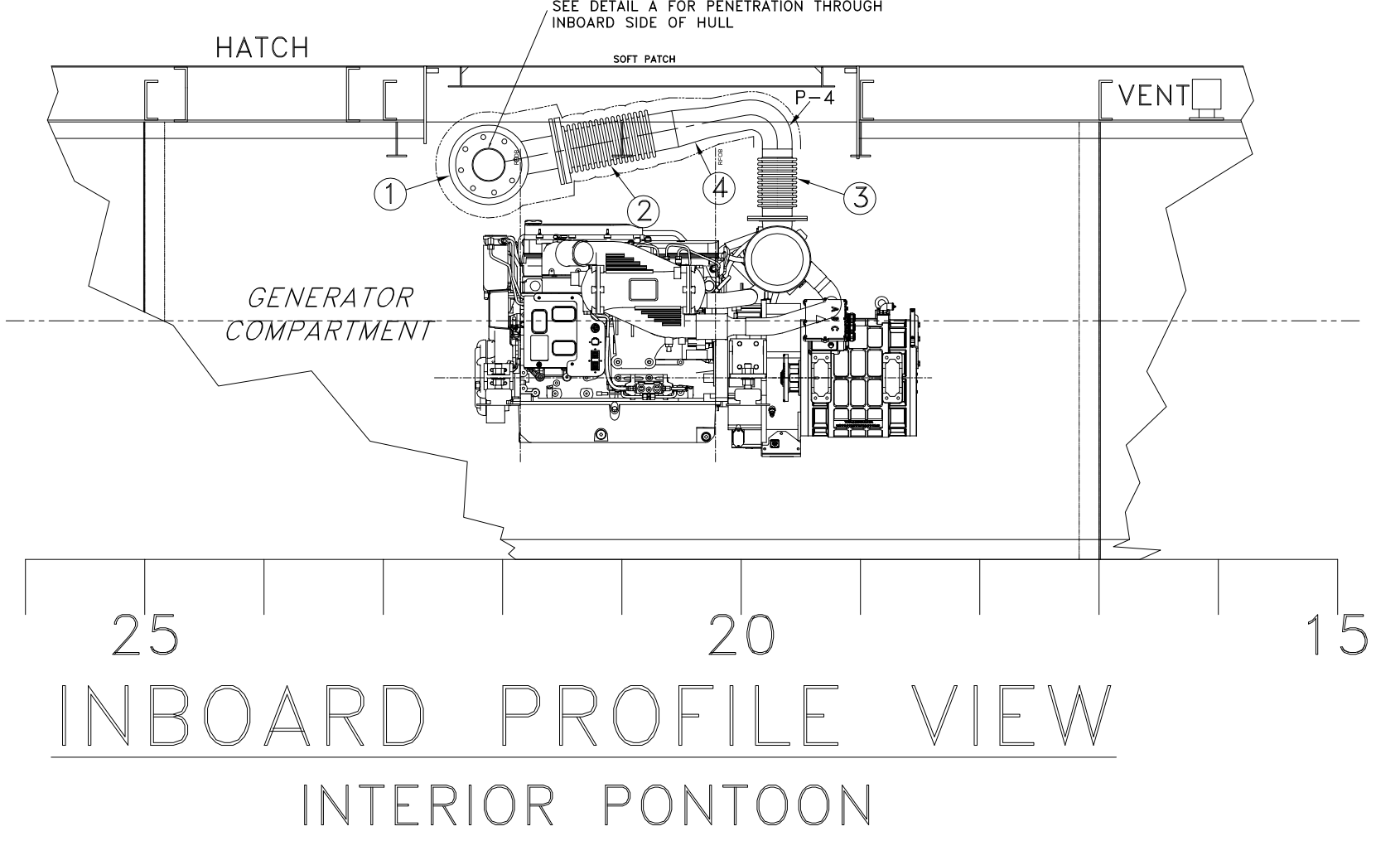
USCG App'l: _____



DETAIL B
TYPICAL EXTERIOR HANGER
NOT TO SCALE



DETAIL A
HULL PENETRATION

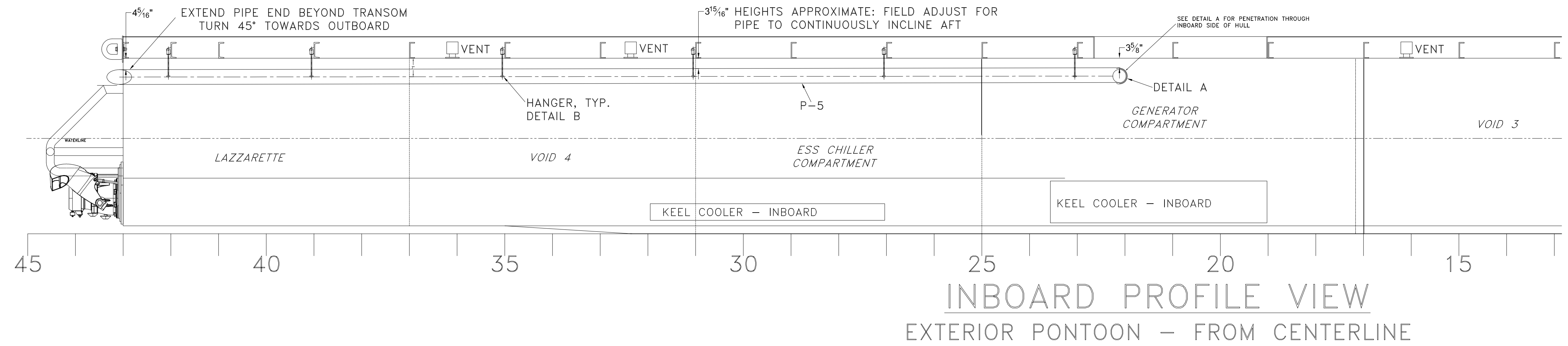


INBOARD PROFILE VIEW
INTERIOR PONTOON

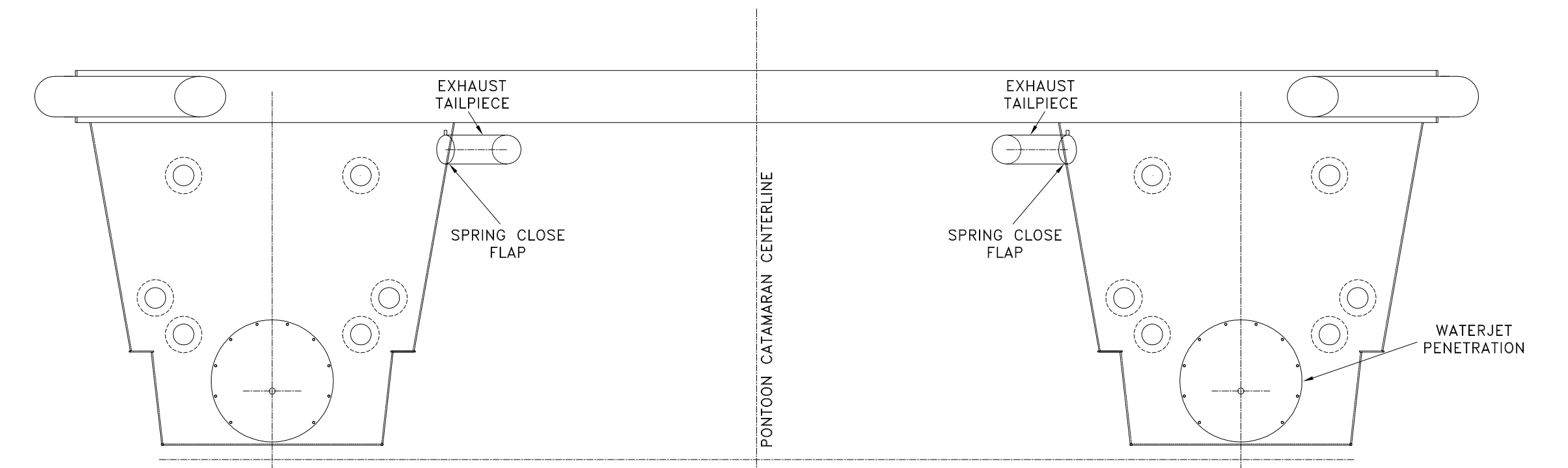
ENGINE PARTICULARS:
ENGINE: SEE SPECIFICATIONS
RATING: 305 HP
RATED SPEED: 2600 RPM
EXHAUST FLOW: 1325 CFM
EXHAUST TEMP: 1073 °F
EXHAUST DIA: 4 INCH

MATERIAL & EQUIPMENT LIST				
PIECE NO.	QTY.	DESCRIPTION	MFG / MODEL	REMARKS
1	2	SILENCER, CRITICAL GRADE 5" END-INLET, 5" END-OUTLET, FLANGED 304 STAINLESS STEEL		
2	4	FLEX CONNECTORS, 321 SS 5" FLANGED X TUBE FITTING 304 STAINLESS STEEL FITTINGS/FASTENERS, HI-TEMP BLANKETS		
3	2	FLEX CONNECTORS, 321 SS 4" FLANGED X TUBE FITTING 304 STAINLESS STEEL FITTINGS/FASTENERS, HI-TEMP BLANKETS		MATCH 4" FLG TO ENG EXHAUST
4	2	REDUCER ELBOW, CUSTOM BUILT 4" INLET, 5" OUTLET, FIELD FIT TO SUIT 304 STAINLESS STEEL	SHIPYARD	
P-#	-	SCHEDULE 10 STAINLESS STEEL TUBE, SIZED TO # 304 STAINLESS STEEL, ALL PIPE, FITTINGS, & FASTENERS	SHIPYARD	
PX-#	-	SCHEDULE 80 PIPE, SIZED TO # 6061-T6 ALUMINUM	SHIPYARD	
F-#	-	FLANGE, 3/8" MIN THICKNESS, USE 125# DIMS AND BOLT PATTERN STANDARD FLANGE FACE FINISH FASTENERS: 300 SERIES STAINLESS STEEL	SHIPYARD	SEE NOTE BELOW
FX-#	-	FLANGE 125# SLIPON 6061-T6 ALUMINUM FASTENERS: 304 STAINLESS STEEL	SHIPYARD	SEE NOTE BELOW

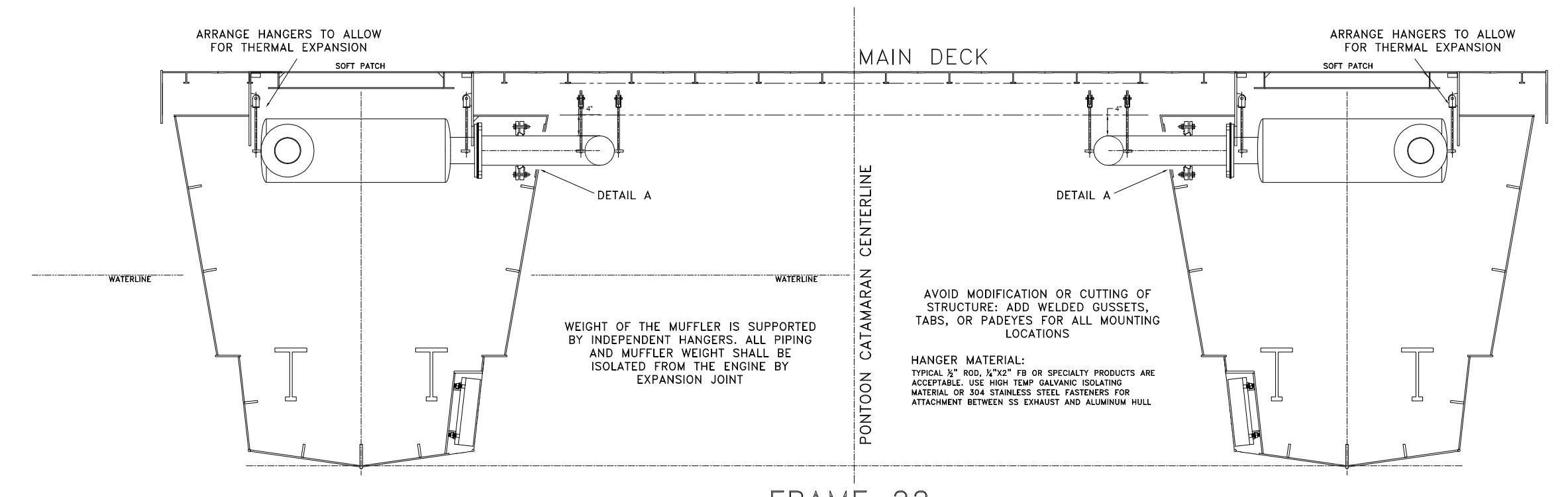
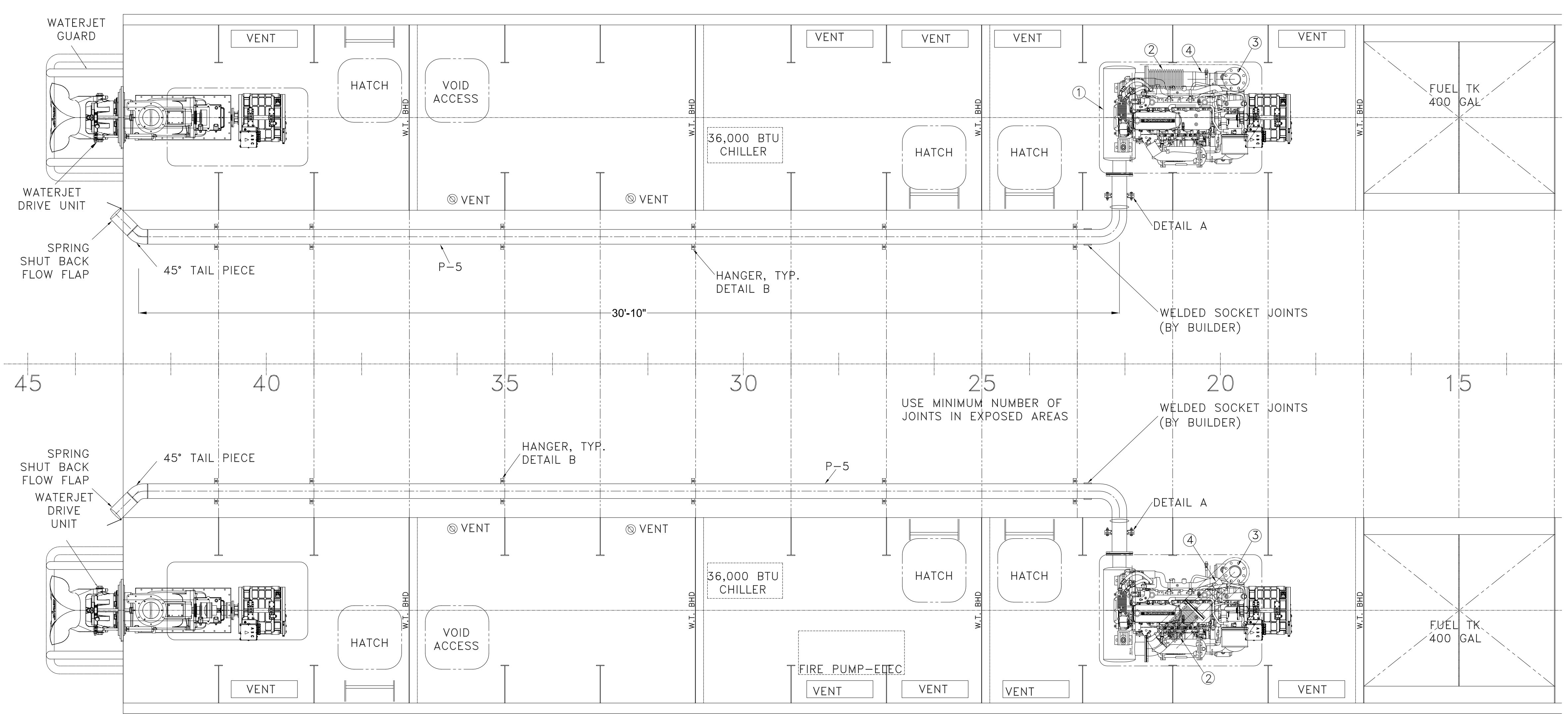
NOTE: FOR EXHAUST PIPE FASTENERS: AVOID 316L OR ANY 400 SERIES STAINLESS STEEL FASTENERS WHERE HEAT AND DISIMAR METALS ARE PRESENT, SELECT 304 STAINLESS STEEL WHERE POSSIBLE.



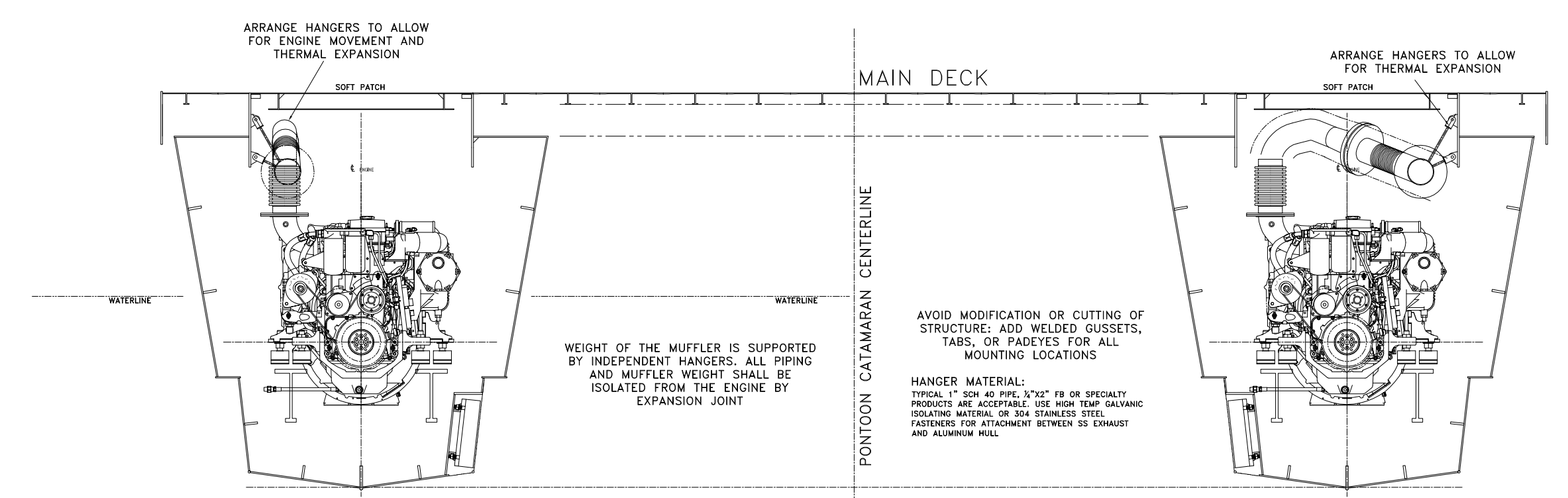
INBOARD PROFILE VIEW
EXTERIOR PONTOON - FROM CENTERLINE



FRAME 42
SHIPYARD FAB/LOCATE SUPPORTS
TYPICAL FOR SOLID EXHAUST PIPE
(APPROX 72" EXTERIOR SPACING)



FRAME 22
SHIPYARD FAB/LOCATE SUPPORTS
TYPICAL FOR SOLID EXHAUST PIPE
(APPROX 72" EXTERIOR SPACING)



FRAME 21
SHIPYARD FAB/LOCATE SUPPORTS
TYPICAL FOR SOLID EXHAUST PIPE
(APPROX 48" INTERIOR SPACING)

GENERAL NOTES		ALTERATIONS		REFERENCES	
NO.	DESCRIPTION	NO.	DESCRIPTION	DATE	BY NO.
1	ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH 46 CFR SUBCHAPTER T	1	GENERIC PART DESIGNATIONS	8.12.22	JS
2	PIPING SHALL BE RUN AS DIRECTLY AS POSSIBLE WITH A MINIMUM NUMBER OF BENDS AND FITTINGS. PROVIDE A TAKE-DOWN JOINT FOR EACH COMPARTMENT				
3	PRIOR TO FABRICATION OF WELDING PIPE ASSEMBLIES, VERIFY EQUIPMENT CONNECTIONS FOR SIZE, LOCATION AND TYPE IN ACCORDANCE WITH MANUFACTURER CERTIFIED DRAWINGS, OR DIRECTLY FROM THE EQUIPMENT. TEMPLATE BOLTING PATTERNS AND CONNECTIONS AS REQUIRED.				
4	PIPE HANGERS SHALL MEET THE REQUIREMENTS OF ASTM F708. THE CONTRACTOR SHALL DESIGN AND INSTALL PIPE HANGERS AS NECESSARY TO ADEQUATELY SUPPORT EXHAUST SYSTEMS UNDER STATIC AND DYNAMIC LOADS IMPOSED BY VESSEL MOTIONS, VIBRATION AND THERMAL EXPANSION. THERMAL INSULATION GASKETS SHALL BE INSTALLED BETWEEN THE EXHAUST PIPE AND THE HANGER ATTACHMENT TO THE SHIP.				
5	PROVIDE EXPANSION JOINTS WHERE REQUIRED TO ACCOMMODATE THERMAL GROWTH OF EXHAUST PIPES. EXPANSION JOINTS ARE TO BE STAINLESS STEEL MULTI-PLY LAMINATE				
6	WEIGHT TRANSMITTED TO EACH ENGINE EXHAUST OUTLET CONNECTION IS NOT TO EXCEED THE MANUFACTURER'S RECOMMENDATIONS IN ANY CONDITION				
7	INSULATION FOR ENGINE EXHAUST PIPING AND SILENCERS SHALL BE REMOVABLE INSULATION BLANKETS HAVING A 2" MINIMUM THICKNESS. BLANKETS SHALL BE FASTENED WITH STAINLESS STEEL WIRKS AND LACING. INSULATION MATERIALS AND INSTALLATION DETAILS SHALL BE IN ACCORDANCE WITH ASTM F585				
8	CONTRACTOR SHALL VERIFY ENGINE EXHAUST BACK-PRESSURE REQUIREMENTS AND CONNECTION DETAILS PRIOR TO ORDERING MATERIALS.				
9	PRIOR TO BEING PLACED INTO SERVICE THE EXHAUST PIPING SHALL BE CHECKED FOR LEAKS. SMALL LEAKS MAY BUILD UP OVER TIME. ALL COMPARTMENTS WITH EXHAUST JOINTS SHALL BE VENTED				
10	1/4" PIPE TAPS SHALL BE INSTALLED ON ENGINE EXHAUST OUTLET PIPING TO FACILITATE BACK PRESSURE MEASUREMENTS.				

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Project: 65' PASSENGER FERRY (DIESEL-ELECT HYBRID)
GENERATOR EXHAUST PIPING
 Dwg. No. 22-1477-4076 Alt. No. 1 Sh. 1 OF 1
 Drawn By: BRIAN BOUDREAU Date: 01 JUL 2022
 Checked By: _____
 App'd By: _____ Scale: 1/2" = 1'-0"
 ABS App'l: _____ USCG App'l: _____

- DRAWING SUBMITTALS -

3

2

1

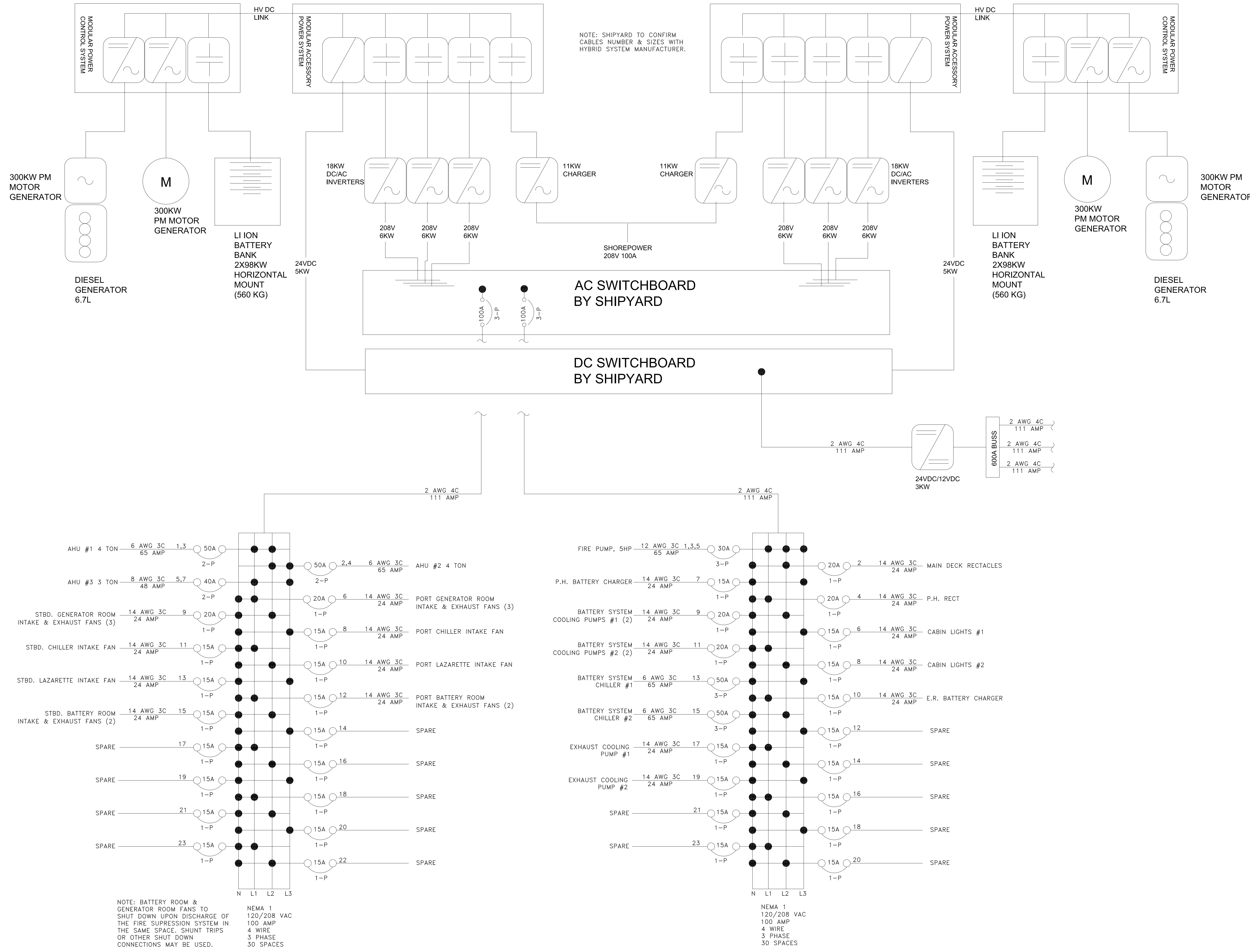
- GENERAL NOTES -	
NO.	DESCRIPTION
1	ALL CIRCUIT BREAKERS SHALL MEET REQ'Y PER CFR 46.120.380 (M); EACH CIRCUIT BREAKER MUST MEET UL 489, "MOLDED-CASE CIRCUIT BREAKERS AND CIRCUIT BREAKER ENCLOSURES; OR OTHER STANDARD SPECIFIED BY THE COMMANDANT, AND BE OF THE MANUALLY RESET TYPE DESIGNED FOR: (1) INVERSE TIME DELAY; (2) INSTANTANEOUS SHORT CIRCUIT PROTECTION; AND (3) SWITCHING DUTY IF THE BREAKER IS USED AS A SWITCH. (N) EACH CIRCUIT BREAKER MUST INDICATE WHETHER IT IS IN THE OPEN OR CLOSED POSITION.
2	ALL ELECTRICAL WIRE SHALL BE UL APPROVED BOAT OR UL MARINE CABLE
3	ALL METALLIC ENCLOSURES AND FRAMES OF ELECTRICAL EQUIPMENT SHALL BE PERMANENTLY GROUNDED TO THE HULL

- ALTERATIONS -			
NO.	DESCRIPTION	DATE	BY

- RESERVATIONS -	
NO.	DESCRIPTION

- REFERENCES -	
NO.	DESCRIPTION
1	

					12
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S/B.4.22/E					
- DRAWING SUBMITTALS -					



300KW PM MOTOR GENERATOR

300KW PM MOTOR GENERATOR

LI ION BATTERY BANK

208V 6KW

11KW CHARGER

SHOREPOWER

208V 6KW

208V 6KW

208V 6KW

24VDC 5KW

24VDC 12VDC 3KW

2 AWG 4C 111 AMP

2 AWG 4C 111 AMP

600A BUS

2 AWG 4C 111 AMP

2 AWG 4C 111 AMP

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2 AWG 4C 111 AMP

NOTE: SHIPYARD TO CONFIRM CABLES NUMBER & SIZES WITH HYBRID SYSTEM MANUFACTURER.

AC SWITCHBOARD BY SHIPYARD

DC SWITCHBOARD BY SHIPYARD

NOTE: BATTERY ROOM & GENERATOR ROOM FANS TO SHUT DOWN UPON DISCHARGE OF THE FIRE SUPPRESSION SYSTEM IN THE SAME SPACE. SHUNT TRIPS OR OTHER SHUT DOWN CONNECTIONS MAY BE USED.

NEMA 1
120/208 VAC
100 AMP
4 WIRE
3 PHASE
30 SPACES

NEMA 1
120/208 VAC
100 AMP
4 WIRE
3 PHASE
30 SPACES

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Title: 65'x22'x3' PASSENGER VESSEL
(DIESEL ELECTRIC HYBRID)
AC ELECTRICAL DISTRIBUTION

Dwg. No. 22-1477-5000 Alt. No. 1
Sht. 1 of 1

Drawn By: Christopher Duncan Date: JULY 06, 2022
Checked By: ED Vaughn Date:
App'd By: Scale: NONE
ABS App'l: USCG App'l:
Date:
Scale:
USCG App'l:

ANSI-E (34"x44")

3

2

1

DC ELECTRICAL B.O.M.					
ITEM	QUANTITY	DESCRIPTION	PART NUMBER	MANUFACTURER	NOTES
10	2	FUSE CARTRIGE TYPE 80 AMP	LBJ-80SP OR EQUAL		UL APPROVED CARTRIDGE TYPE
11	2	FUSE CARTRIGE TYPE 100AMP J CLASS	LPJ-100SP OR EQUAL		UL APPROVED CARTRIDGE TYPE
12	2	FUSE BLOCK	J60100-1CR OR EQUAL		UL APPROVED
13	5	MASTER DISCONNECT SWITCH	C/H M284-02		
14	1	BATTERY MANAGEMENT PANEL	8693		11 POSITIONS AUXILLARY CIRCUITS, 525a/1000A
15	3	ENGINE START BATTERY	4D		950 CCA,395 RES CAP, 193 AMP HOUR
16	2	PILOT HOUSE DEEP CYCLE BATTERY	4D		385 RES CAP, 180 AMP HOUR
17	2	DECK LIGHTS	8001177		WHITE/WHITE 5 1/2"
18	2	PH LIGHTS	8001504		RED/WHITE 6 3/4"
19	2	FLOOD LIGHTS	8001344-02		
20	2	ENGINE ROOM LIGHTS	9000500		
21	1	DC DISTRIBUTION PANEL 10 POS FOR P.H.	8082		
22	1	NAV LIGHTS PANEL 3 POS	8025		
23	1	ON OFF BOTH BATTERY SWITCH	3001		HD ON OFF WITH AFD
24	1	ON OFF BOTH BATTERY SWITCH	9001e		
25	1	BILGE PUMP PANEL CUSTOM			
	AS NEEDED	BOAT(MARINE) CABLE VARIOUS SIZES			UL APPROVED BOAT CABLE

- GENERAL NOTES -	
NO.	DESCRIPTION
1	ALL CIRCUIT BREAKERS SHALL MEET REQ'NT PER CFR 46 120.380 (M); EACH CIRCUIT BREAKER MUST MEET UL 489, "MOLDED-CASE CIRCUIT BREAKERS AND CIRCUIT BREAKER ENCLOSURES," OR OTHER STANDARD SPECIFIED BY THE COMMANDANT, AND BE OF THE MANUALLY RESET TYPE DESIGNED FOR: (1) INVERSE TIME DELAY; (2) INSTANTANEOUS SHORT CIRCUIT PROTECTION; AND (3) SWITCHING DUTY IF THE BREAKER IS USED AS A SWITCH. (N) EACH CIRCUIT BREAKER MUST INDICATE WHETHER IT IS IN THE OPEN OR CLOSED POSITION.
2	ALL BUSS TO HAVE A MIN. OF 1" SPACE BETWEEN PHASE SUPPORTED AS REQUIRED WITH PLASTIC INSULATORS.
3	ALL ELECTRICAL WIRE SHALL BE UL APPROVED BOAT OR UL MARINE CABLE
4	ALL METALLIC ENCLOSURES AND FRAMES OF ELECTRICAL EQUIPMENT SHALL BE PERMANENTLY GROUNDED TO THE HULL.

- ALTERATIONS -			
NO.	DESCRIPTION	DATE	BY

- RESERVATIONS -	
NO.	DESCRIPTION

- REFERENCES -	
NO.	DESCRIPTION
1	

NO.	DESCRIPTION	DATE	BY
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- DRAWING SUBMITTALS -

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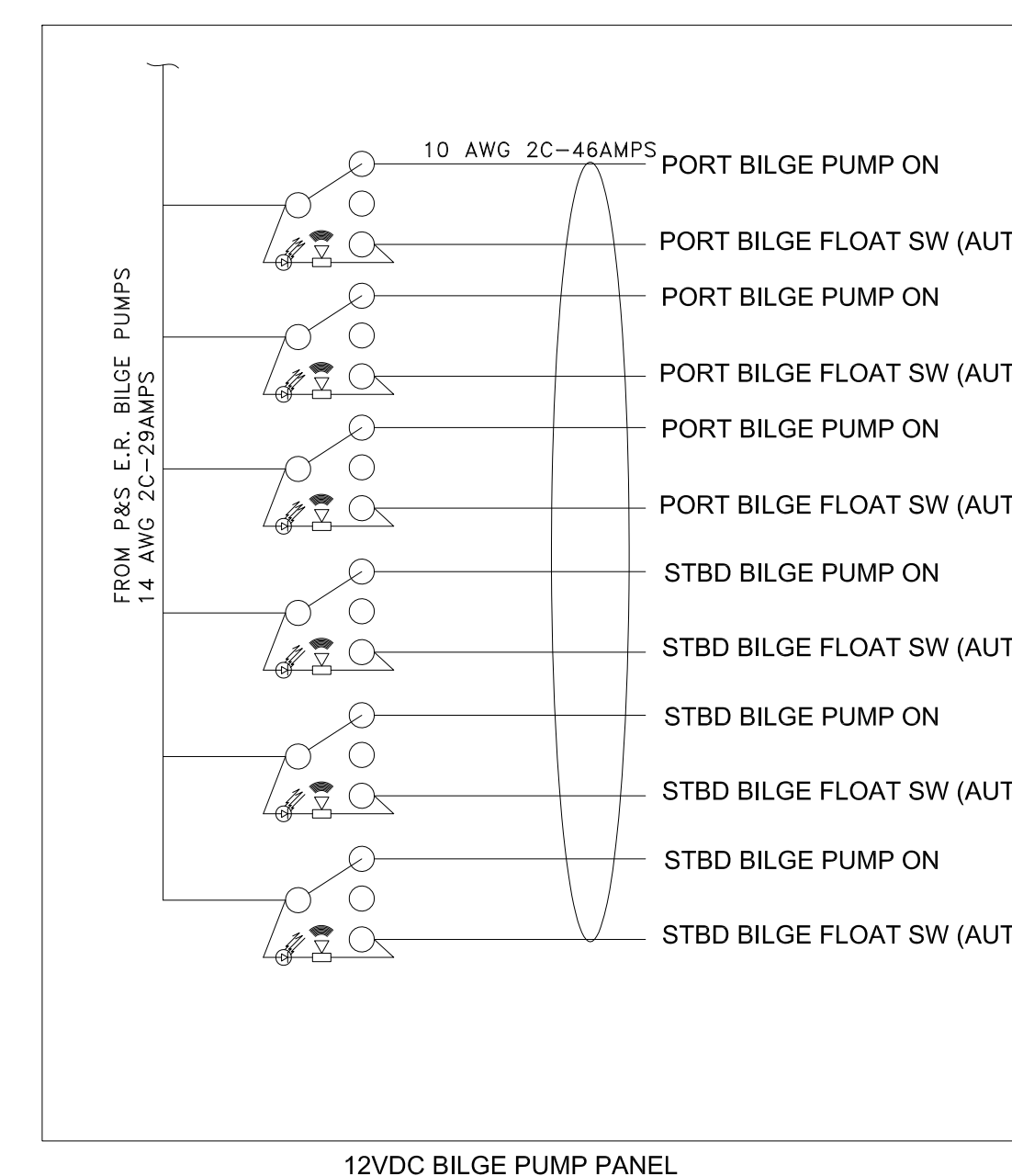
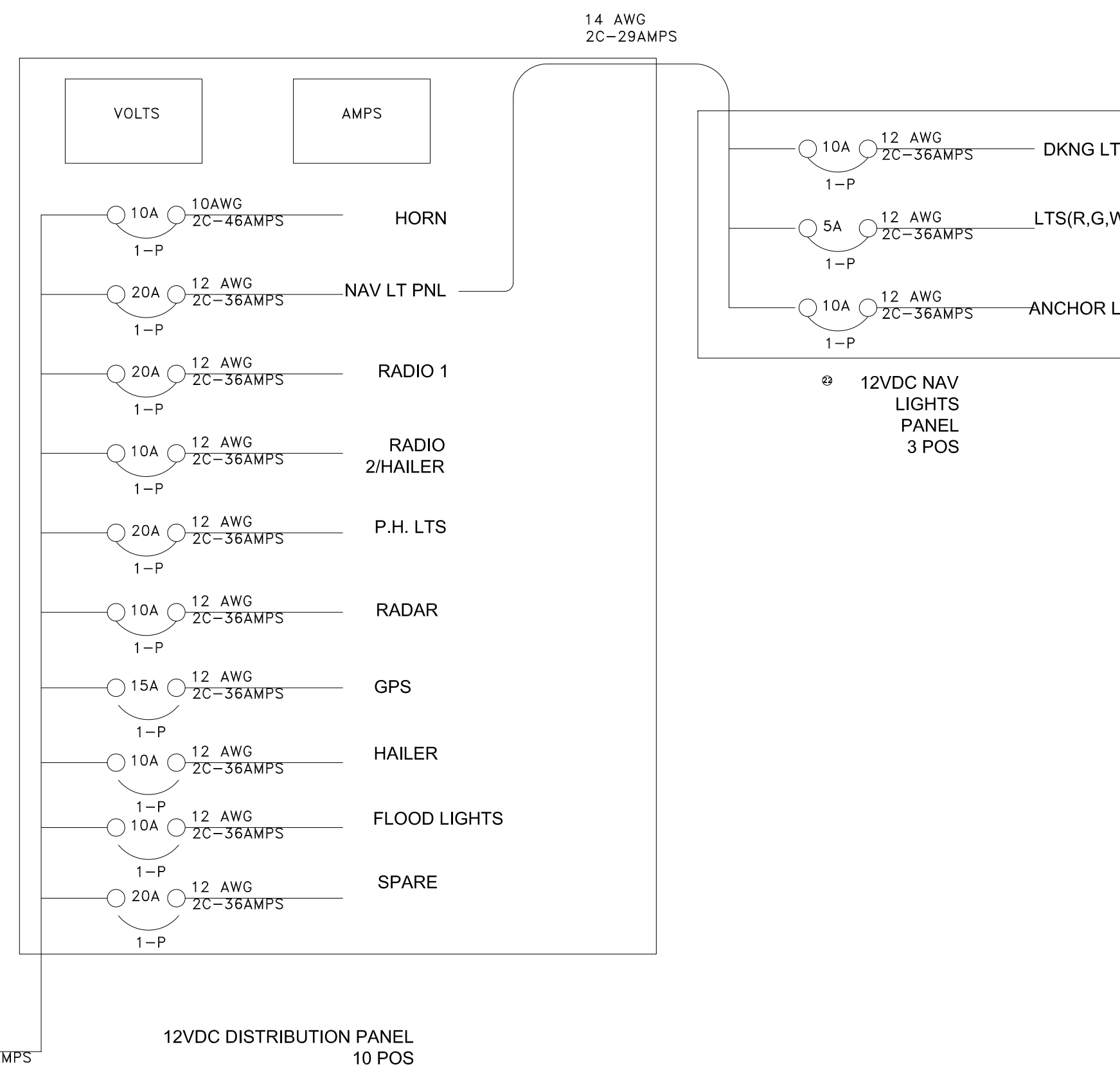
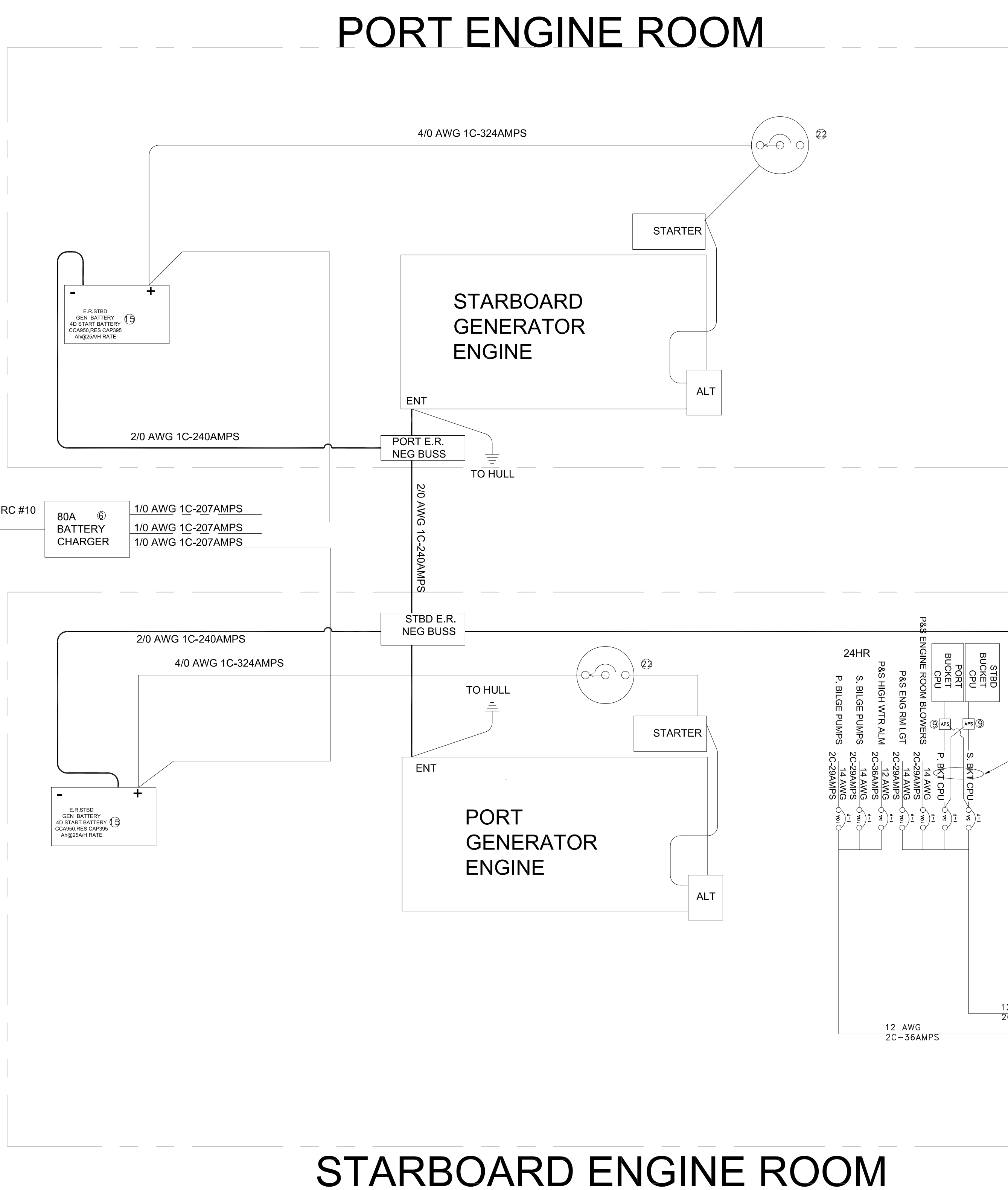
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info@dejongandlebet.com

Title: 65'x22'x3' PASSENGER VESSEL
(DIESEL ELECTRIC HYBRID)

DC ELECTRICAL ONE-LINE

Dwg. No. 22-1477-5002 Alt. No. 1
Sht. 1 of 1

Drawn By: Christopher Duncan Date: JULY 06, 2022
Checked By: ED Vaughn Date: _____
App'd By: _____ Scale: NONE
ABS App'l: _____ USCG App'l: _____



DEJONG & LEBET, NAVAL ARCHITECTS, INC.
 SHIP'S ELECTRICAL PLANT LOAD ANALYSIS
 DLI #22-1477

DATE	REV.
August 12, 2022	1

Summary of Loads
 Northern Lights 20kW 3Ph 120/208vac .8PF

CIRCUIT #	DESCRIPTION	ATTACHED LOADS (KW)	Service factor	WINTER LOAD	SUMMER LOAD
SW1-1	Pilothouse Distribution Panel	19.99		7.7	7.7
SW1-2	HVAC Distribution Panel	18.18		10.5	10.5
	TOTAL SWITCHBOARD kW	38.2		18.3	18.3
	TOTAL AMPS @ GENERATOR (.8pf)	132.5		63.3	63.3

DEJONG & LEBET, NAVAL ARCHITECTS, INC.

SHIP'S ELECTRICAL PLANT LOAD ANALYSIS

DLI #22-1477

DATE
August 12, 2022REV.
1**Pilot House Dist Panel**

CIRCUIT #	DESCRIPTION	ATTACHED LOADS (KW)	Service factor	Winter Loads	Summer Loads
1,3,5	Fire Pump (5 HP)	5.04	0.0	0.00	0.00
2	Main Deck Receptacles	0.72	0.3	0.22	0.22
7	Pilot House Battery Charger	0.24	0.6	0.15	0.15
4	Pilot House Receptacles	0.72	0.3	0.22	0.22
9	Battery System Cooling Pumps #1	0.19	0.6	0.11	0.11
6	Cabin Lights #1	0.75	0.7	0.53	0.53
11	Battery System Cooling Pumps #2	0.19	0.6	0.11	0.11
8	Cabin Lights #2	0.75	0.7	0.53	0.53
13	Battery System Chiller #1	4.49	0.5	2.25	2.25
10	ER Battery Charger	2.03	0.6	1.22	1.22
15	Battery System Chiller #2	4.49	0.5	2.25	2.25
12	Spare	0.00	0.0	0.00	0.00
17	Exhaust Cooling Pump #1	0.19	0.4	0.08	0.08
14	Spare	0.00	0.0	0.00	0.00
19	Exhaust Cooling Pump #2	0.19	0.4	0.08	0.08
16	Spare	0.00	0.0	0.00	0.00
	TOTAL PANEL kW	20.0		7.7	7.7
	TOTAL AMPS 208/120v 3 Phase	69.4		26.8	26.8

DEJONG & LEBET, NAVAL ARCHITECTS, INC.

SHIP'S ELECTRICAL PLANT LOAD ANALYSIS

DLI #22-1477

DATE
August 12, 2022REV.
1**Pilot House Dist Panel**

CIRCUIT #	DESCRIPTION	ATTACHED LOADS (KW)	Service factor	Winter Loads	Summer Loads
1,3	AHU #1 4 Ton	5.52	0.6	3.31	3.31
2,4	AHU #2 4 Ton	5.52	0.6	3.31	3.31
5,7	AHU #3 Daikin 4 Ton	4.58	0.6	2.75	2.75
6	Port Generator Rm Intake & Exhaust Fans	0.89	0.4	0.36	0.36
9	Stbd. Generator Rm Intake & Exhaust Fans	0.89	0.4	0.36	0.36
8	Port Chiller Intake Fan	0.10	0.6	0.06	0.06
11	Stbd. Chiller Intake Fan	0.10	0.6	0.06	0.06
10	Port Lazarette Intake Fan	0.10	0.5	0.05	0.05
13	Stbd. Lazarette Intake Fan	0.10	0.5	0.05	0.05
12	Port Battery Room Intake & Exhaust Fans	0.19	0.6	0.12	0.12
15	Stbd. Battery Room Intake & Exhaust Fans	0.19	0.6	0.12	0.12
14	Spare	0.00	0.0	0.00	0.00
	TOTAL PANEL kW	18.2		10.5	10.5
	TOTAL AMPS 208/120v 3 Phase	63.1		36.6	36.6

DEJONG & LEBET, NAVAL ARCHITECTS, INC.

SHIP'S ELECTRICAL PLANT LOAD ANALYSIS
DLI #22-1477

DATE
August 12, 2022

REV.
1

12vDC

Pilothouse DC Load Analysis

CIRCUIT #	A	AMPERES	CIRCUIT #	B	AMPERES
1	Horn	0.83	4	Radio 2 Hailer/PA	5.50
2	NAV LIGHTS	10.00			
3	Radio 1 Hailer/PA	5.50			
5	P.H. Lights	5.80			
6	Radar/Chartplotter Navnet T214w built in GPS	10.00			
7	Cabin Light Backup Inverter (Direct from	40.00			
8	Firepump Clutch	4.00			
	TOTAL COLUMN A	76.13		TOTAL COLUMN B	5.50
				10% COLUMN B	0.55
				LARGEST ITEM COLUMN B	5.50
				Ships Service Battery Selection	
	TOTAL DC LOAD COLUMN A + LARGEST COLUMN B	81.63		87.13 x 3hrs=261.4 Ah, 2x 180	
				Ah battery connected	
	Peukerts $T=0.0292 \times I^{1.225} \times 60$	T=	434.14	parallel=360 Ah. Rating @	
	T=battery reserve in minutes			20Ah rating=(.5 x 360=180	
	I=Total Current of Column A in Amperes			useable Ah), therefore use	
	Battery Bank Amp Hours(Reserve capacity)		360Ah(770ResCap)*	Peukerts method for sizing	
	*2x 12V 4D AGM connected in Parralel (385Res Cap x 2 =770 Res Cap)		434.14<770	Battery Bank	
			therefore acceptable		
			reserve capacity.		

DEJONG & LEBET, NAVAL ARCHITECTS, INC.

SHIP'S ELECTRICAL PLANT LOAD ANALYSIS
DLI #22-1477

DATE
August 12, 2022

REV.
1

12vDC

Engine Room Panel DC Load Analysis (Primary Charge from Engine Driven Alt, Secondary from ER batt Charger)

CIRCUIT #	A	AMPERES	CIRCUIT #	B	AMPERES
1	Port Bilge Pump	5.50	4	P&S Engine Room Light	1.40
2	Starboard Bilge Pump	5.50			
3	Port High Water Alarm	15.00			
5	Starboard High Water Alarm	15.00			
6	Starboard Bucket Controller	4.00			
7	Port Bucket Controller	4.00			
	TOTAL COLUMN A	49.00		TOTAL COLUMN B	1.40
				10% COLUMN B	0.14
				LARGEST ITEM COLUMN	1.40
				Ships Service Battery Selection	
	TOTAL DC LOAD COLUMN A + LARGEST COLUMN B	50.40		46.4 x 3hrs=139.2Ah, 3x 193 ah battery connected parallel=579Ah. Rating @ 20Ah rating=(.5 x 579=289.5 useable Ah), therefore use either method for sizing Battery Bank	
	Peukerts $T=0.0292 \times I^{1.225} \times 60$	240.49			
	T=battery reserve in minutes				
	I=Total Current of Column A in Amperes				
	Battery Bank Amp Hours(Reserve capacity)	579Ah(1185ResCap)*			
	*3x 12V 4D AGM connected in Parralel (395Res Cap x 3 =1185 Res Cap)	240.5<1185 therefore acceptable reserve capacity.			

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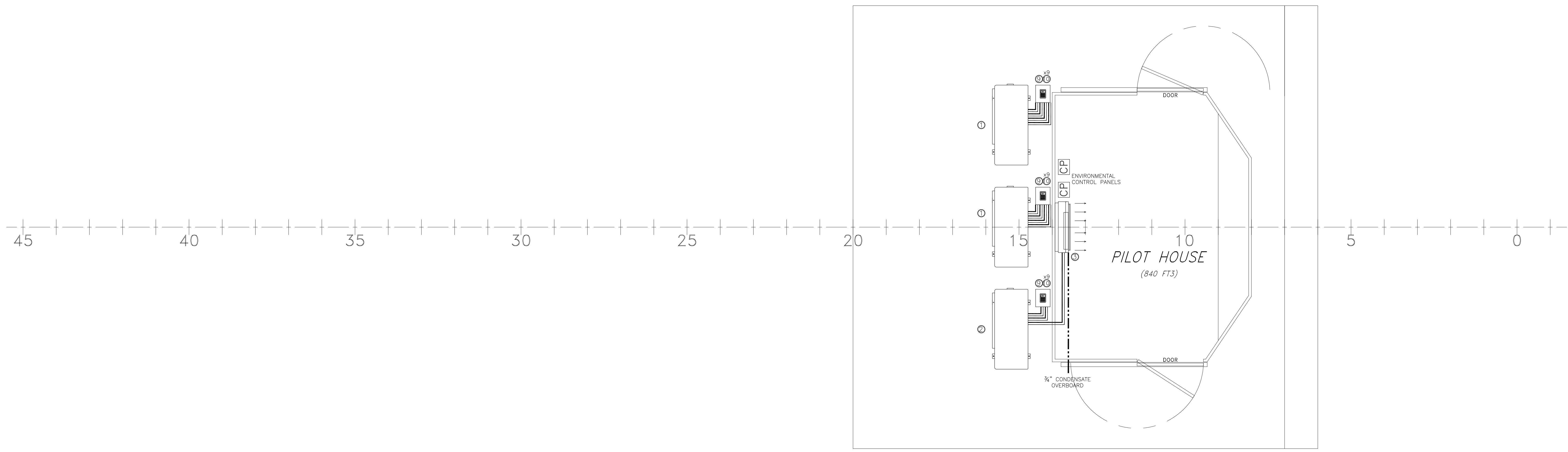
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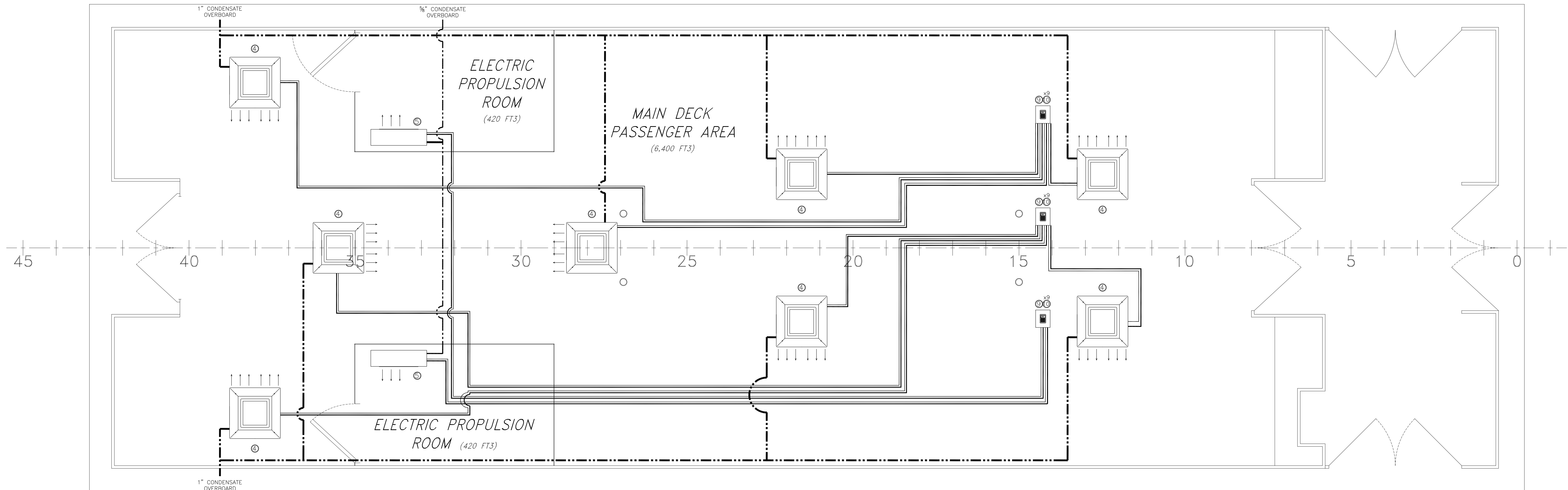
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WHEELHOUSE A/C UNIT LAYOUT



MAIN DECK A/C UNIT LAYOUT

GENERAL NOTES		ALTERATIONS		RESERVATIONS		REFERENCES	
NO.	DESCRIPTION	NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION

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65' PASSENGER FERRY (DIESEL-ELECT HYBRID)
HVAC LAYOUT AND DETAILS

Dwg. No. 22-1477-7000 Alt. No. 0 SH. 1 OF 2

Drawn By: **JOE SILAS** Date: **JUNE 1, 2022**
 Checked By: **ED VAUGHN**
 App'd By: _____
 ABS App'l: _____

Date: _____
 Scale: **NOT TO SCALE**
 USCG App'l: _____

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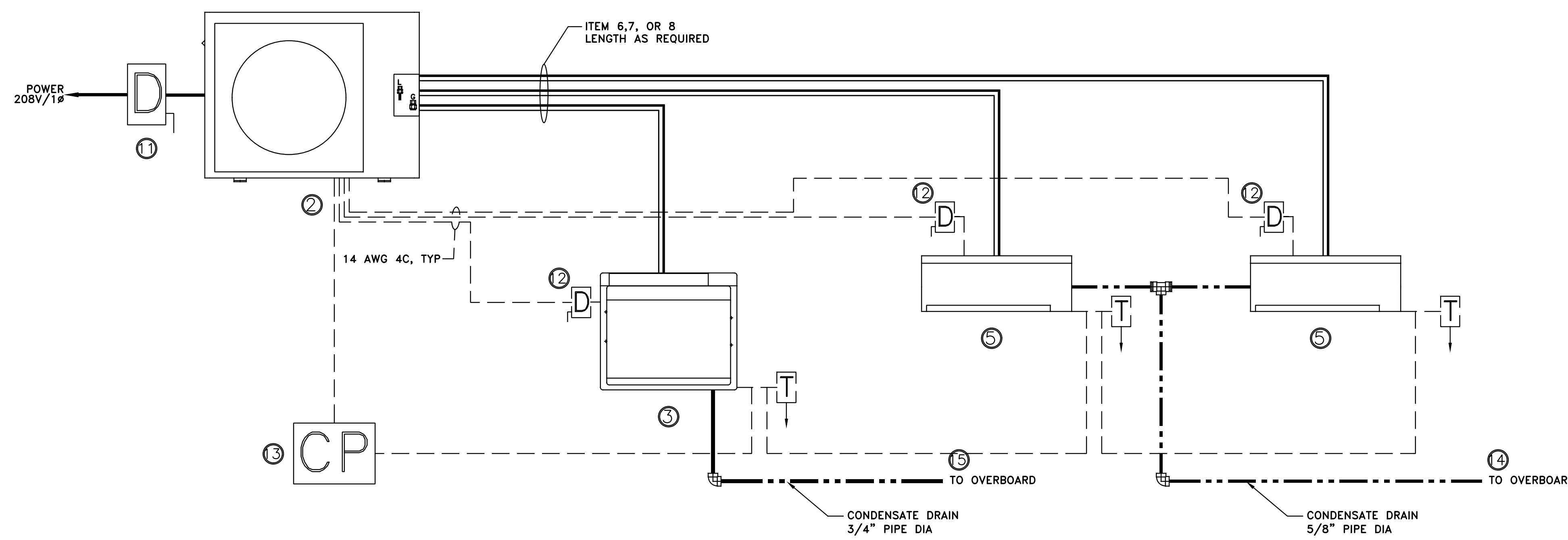
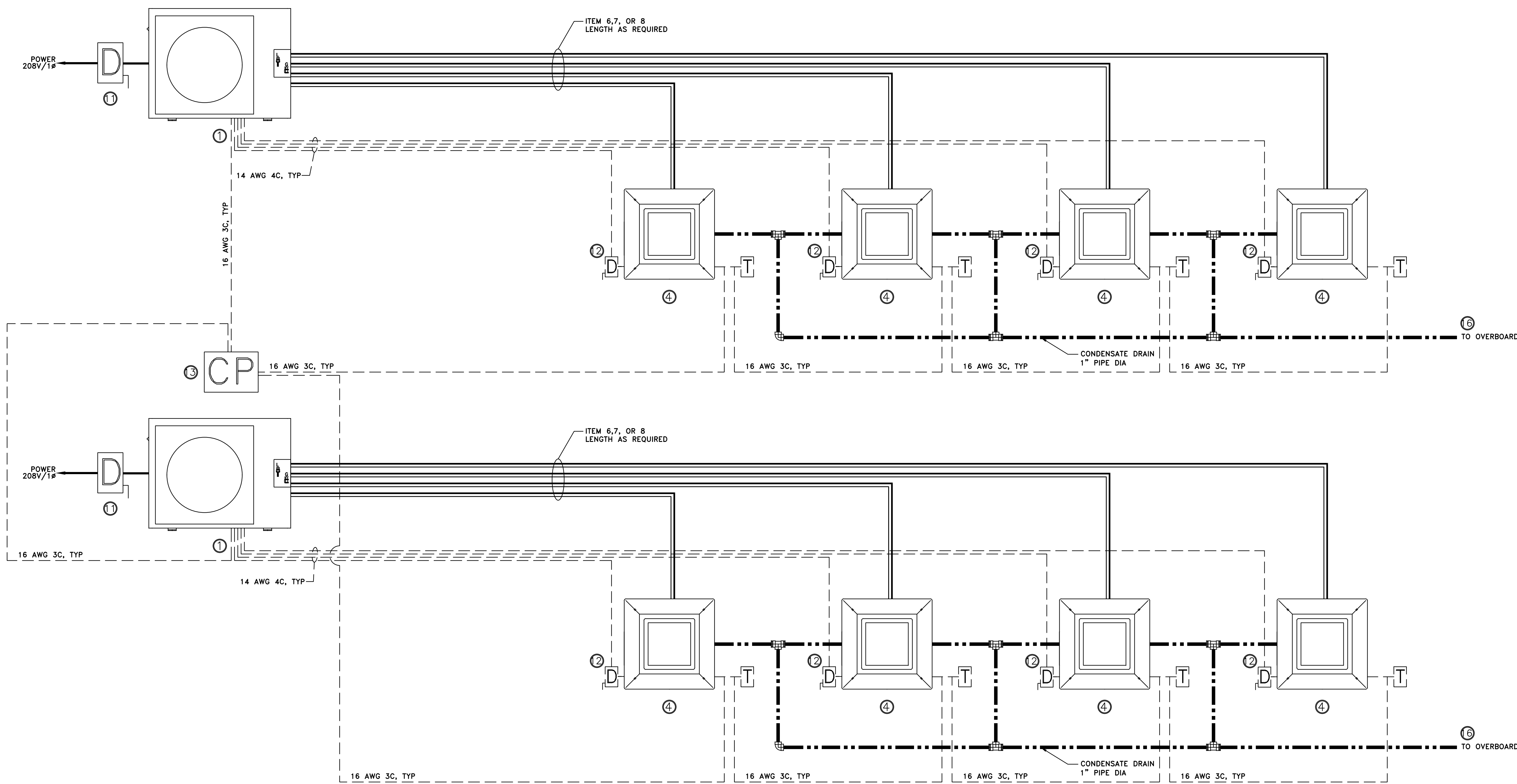
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ANSI-E (34"x44")

EQUIPMENT SCHEDULE

PART NUMBER	LOCATION	QTY	AIR HANDLER TYPE	BTU	DESCRIPTION
1	UPPER DECK, AFT OF WHEEL HOUSE	2	HEAT PUMP CONDENSER	48,000	
2	UPPER DECK, AFT OF WHEEL HOUSE	1	HEAT PUMP CONDENSER	36,000	
3	WHEEL HOUSE	1	FLOOR MOUNTED	15,000	
4	PASSENGER CABIN	8	CASSETTE	12,000	
5	ELECTRONICS ROOM	2	WALL MOUNTED	9,000	
6	MINI SPLIT INSULATED LINE SET, 15' LENGTH	AS REQ	WHEELHOUSE UNIT	1/2" SUCTION LINE 1/4" LIQUID LINE	
7	MINI SPLIT INSULATED LINE SET, 30' LENGTH	AS REQ	PASSENGER CABIN UNITS	1/2" SUCTION LINE 1/4" LIQUID LINE	
8	MINI SPLIT INSULATED LINE SET, 65' LENGTH	AS REQ	ELECTRONICS ROOM UNITS	1/2" SUCTION LINE 1/4" LIQUID LINE	
9	DECK PENETRATION SEAL FRAME	3	WHEELHOUSE DECK		
10	DECK PENETRATION SEAL GLANDS	27	WHEELHOUSE DECK		
11	MAIN DISCONNECT 60A, 208V AC, 1P, 2 POLE	3	COMPRESSOR		
12	LOCAL DISCONNECT 30A, 600V AC, 1P, 3 POLE	11	INTERIOR UNIT		
13	MAIN ENVIRONMENTAL CONTROL INTERFACE	2	WHEELHOUSE		
14	CONDENSATE DRAIN	AS REQ	ELECTRONICS ROOM UNITS		5/8" PVC
15	CONDENSATE DRAIN	AS REQ	WHEELHOUSE UNIT		3/4" PVC
16	CONDENSATE DRAIN	AS REQ	CASSETTE UNITS		1" PVC
17	MAIN POWER SUPPLY	AS REQ	SUPPLY FROM 208 PANEL		14 AWG 4C
18	ENVIRONMENTAL CONTROL WIRING	AS REQ	SUPPLY FROM 208 PANEL		16 AWG 3C



— GENERAL NOTES —

— ALTERATIONS —

— RESERVATIONS —

— REFERENCES —

NO.	DESCRIPTION	NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	NO.	DESCRIPTION
		1.1	GENERIC EQUIPMENT DESIGNATION	8.12.22	EV				

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Title: 65' PASSENGER FERRY (DIESEL-ELECT HYBRID)
HVAC LAYOUT AND DETAILS

Dwg. No. 22-1477-7000 Alt. No. 1
 Sht. 2 OF 2

Drawn By: **JOE SILAS** Date: **JUNE 1, 2022**
 Checked By: **ED VAUGHN** Date: _____
 App'd By: _____ Scale: **NOT TO SCALE**
 ABS App'l: _____ USCG App'l: _____

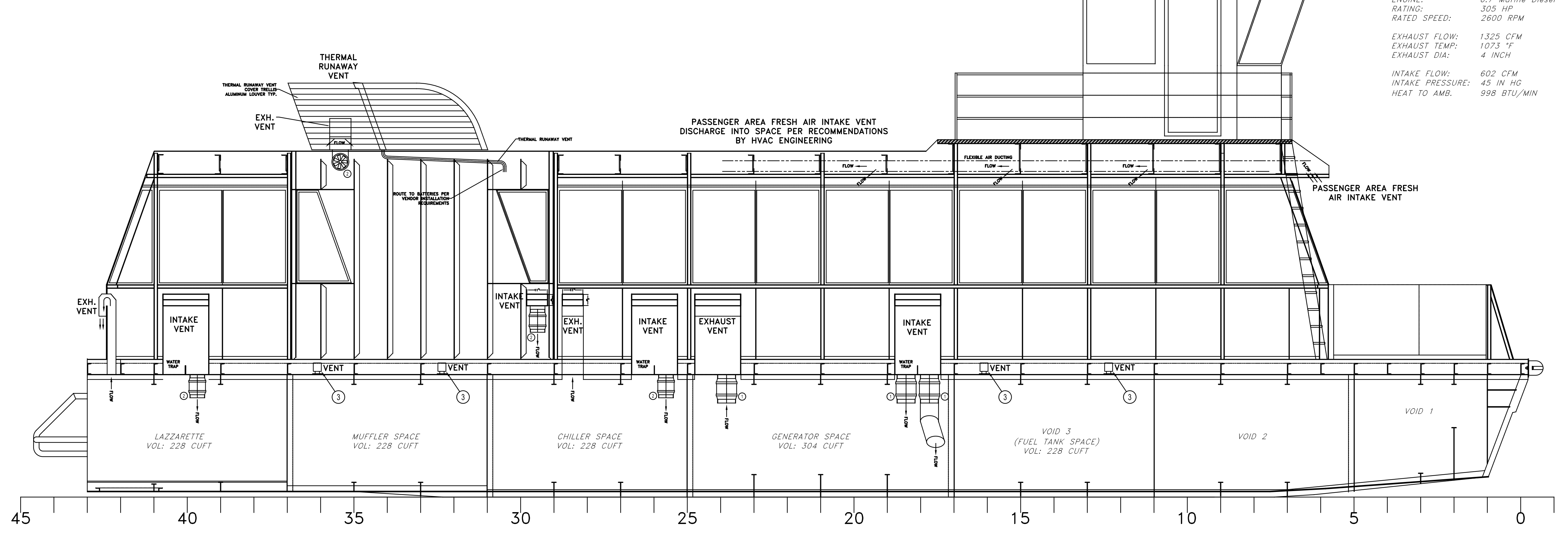
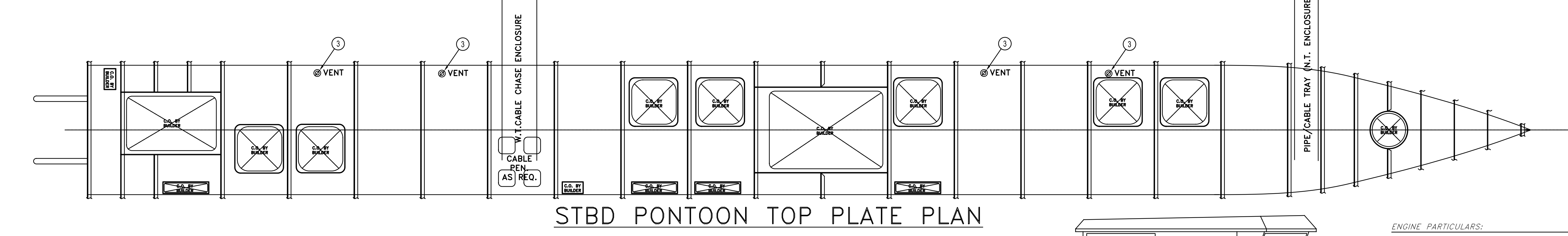
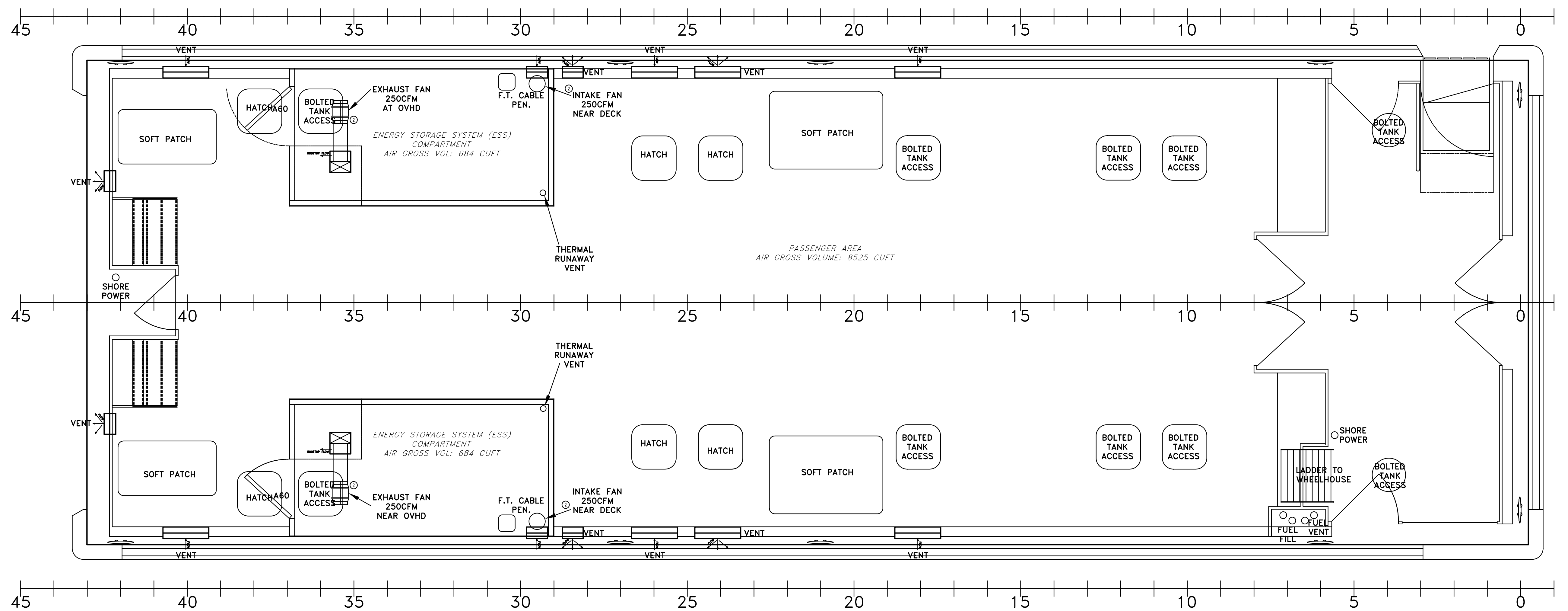
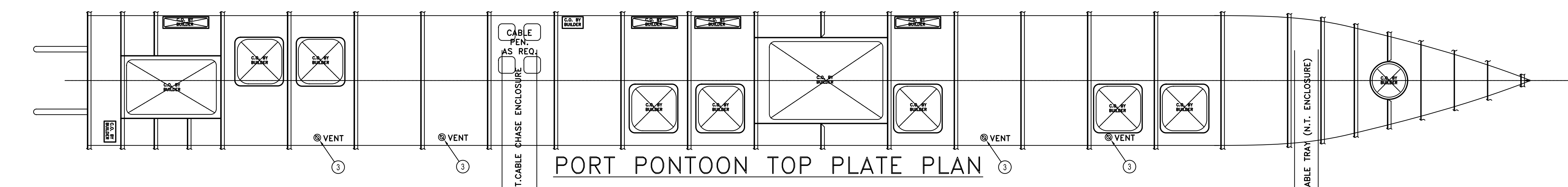
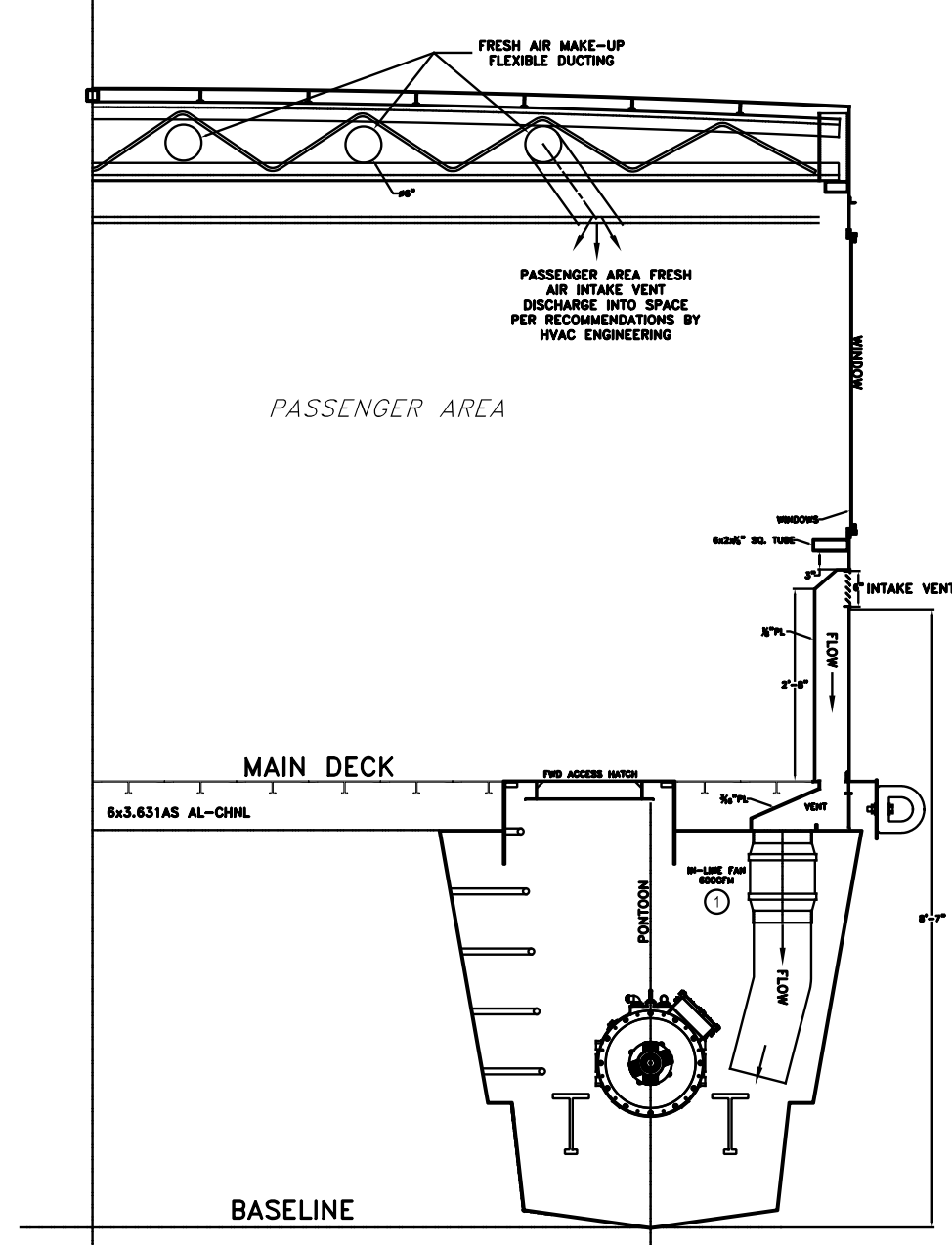
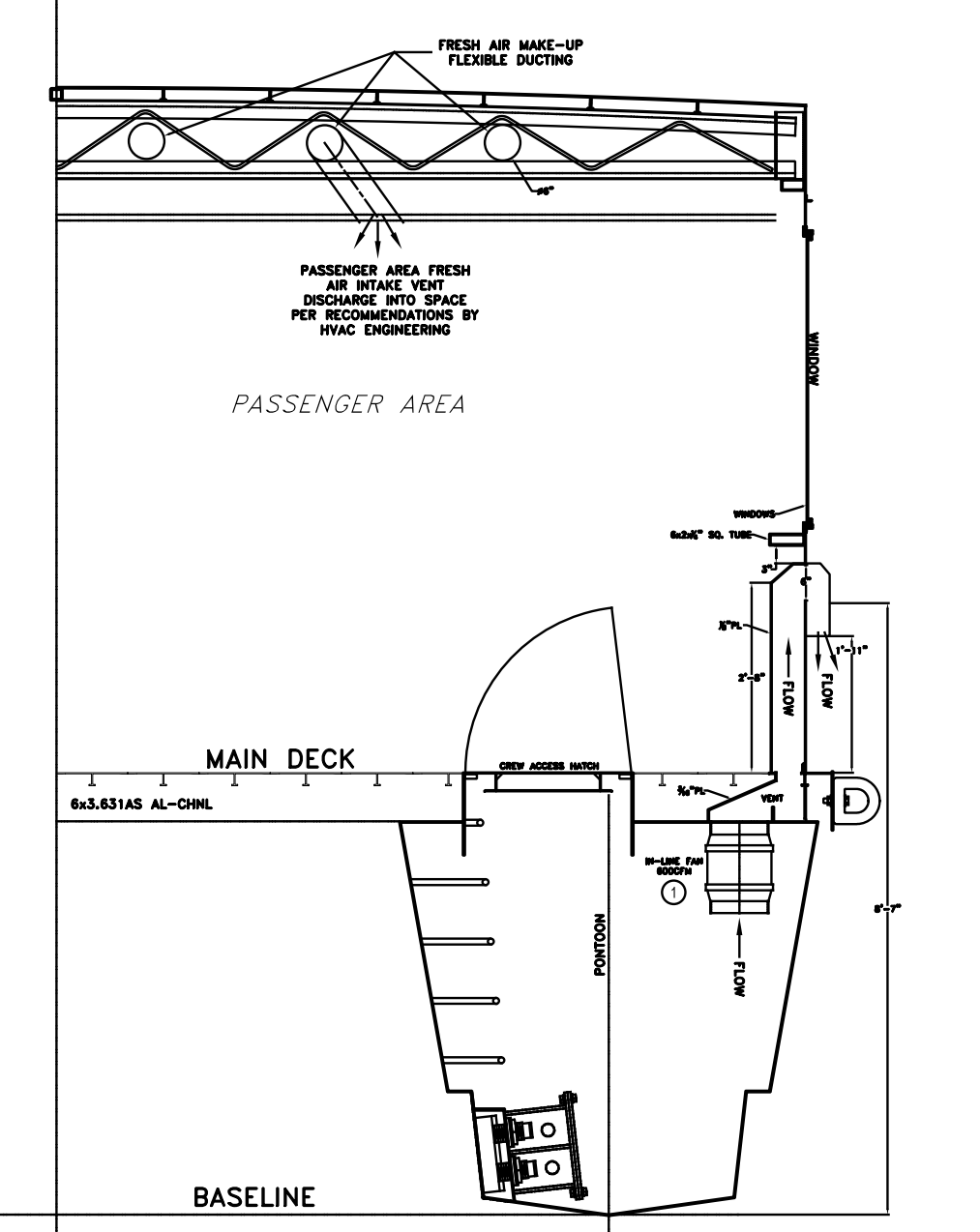
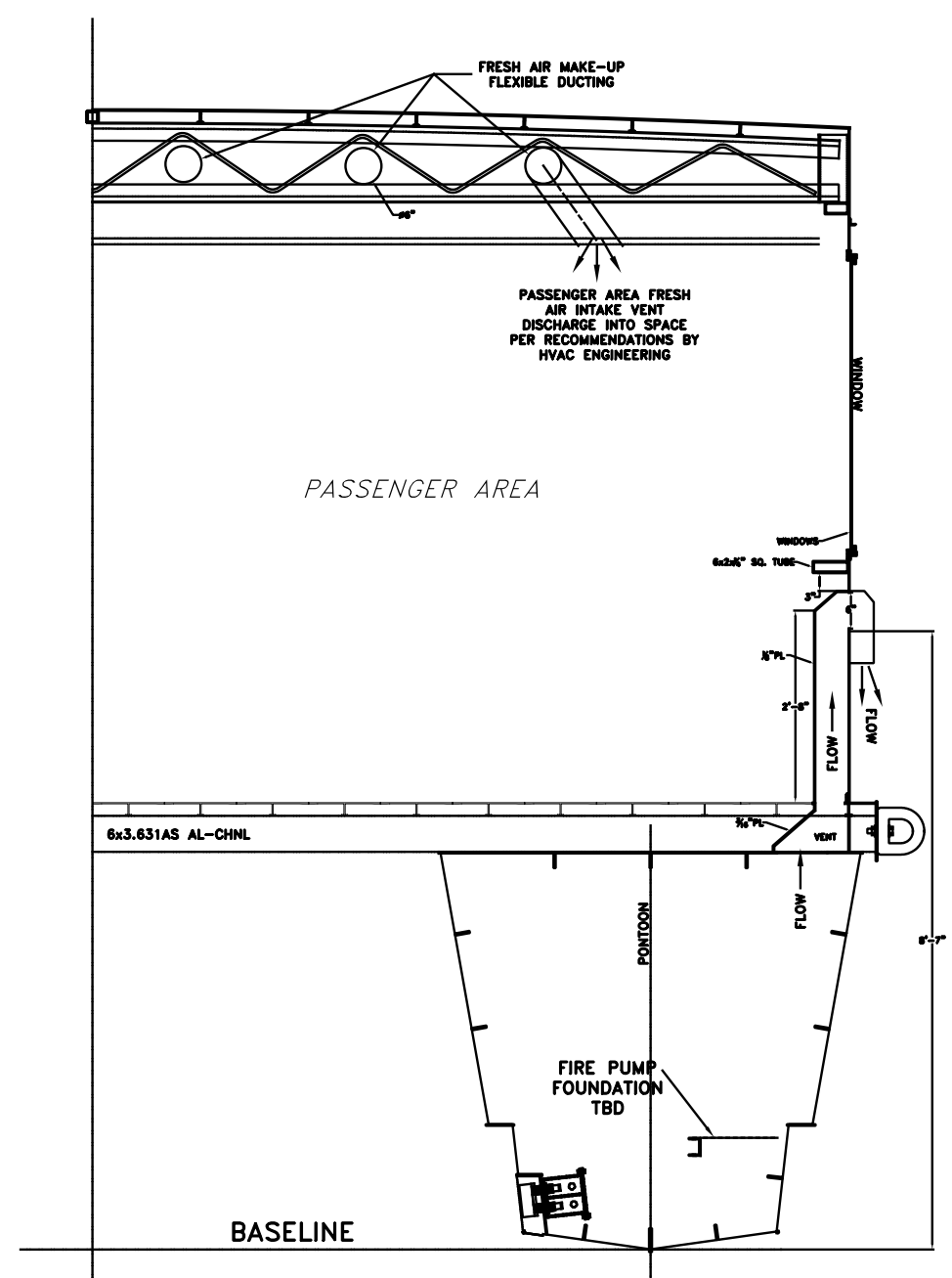
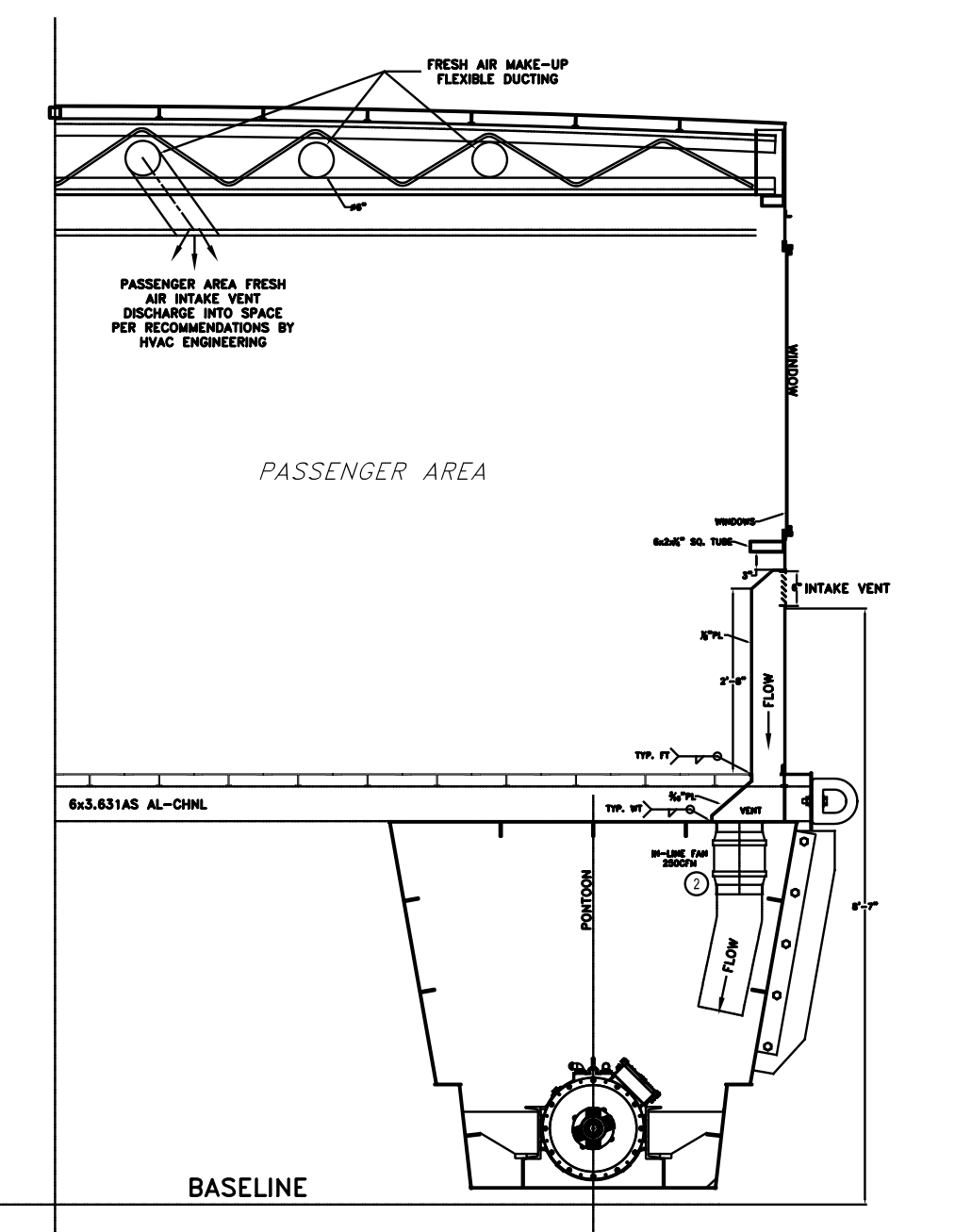
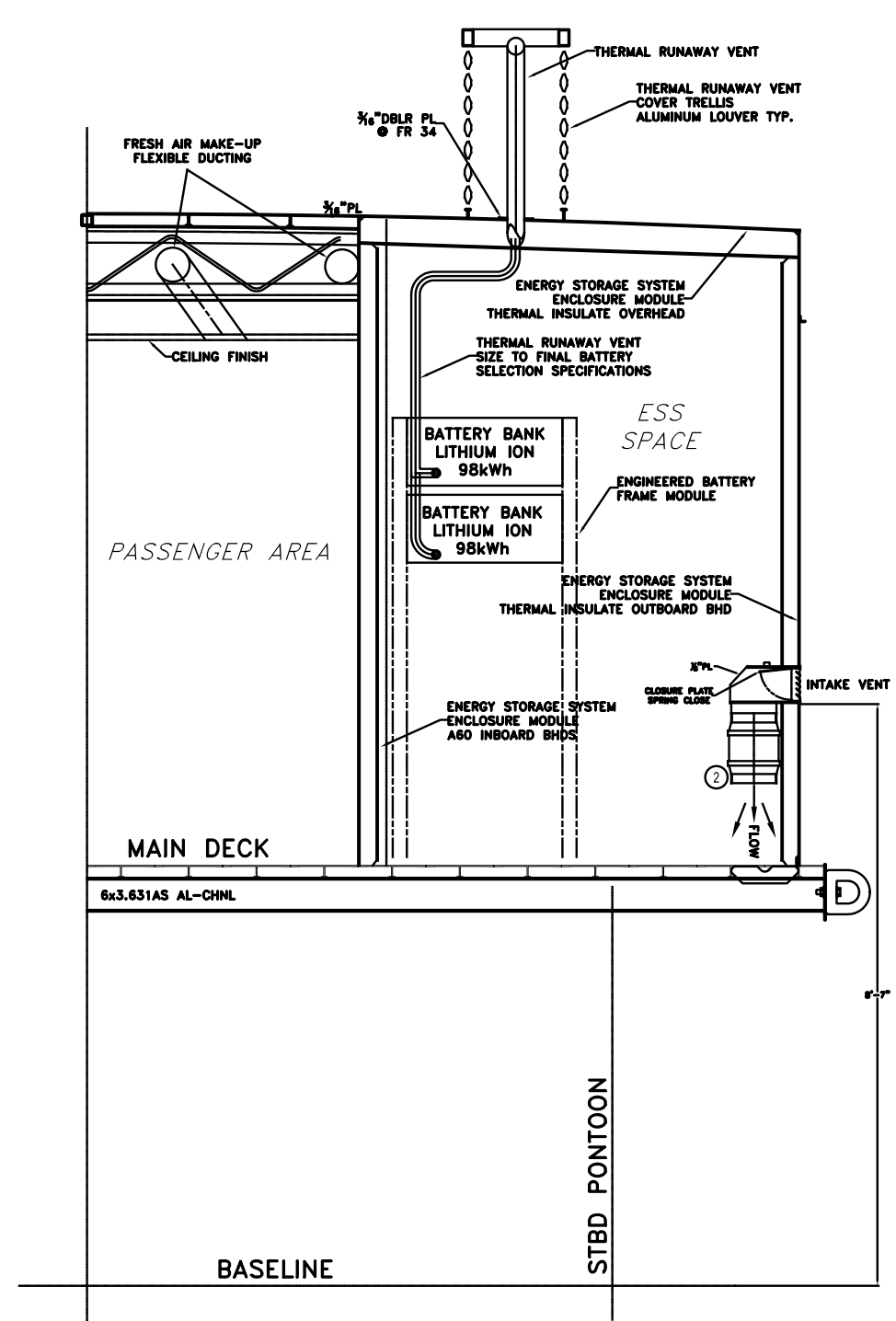
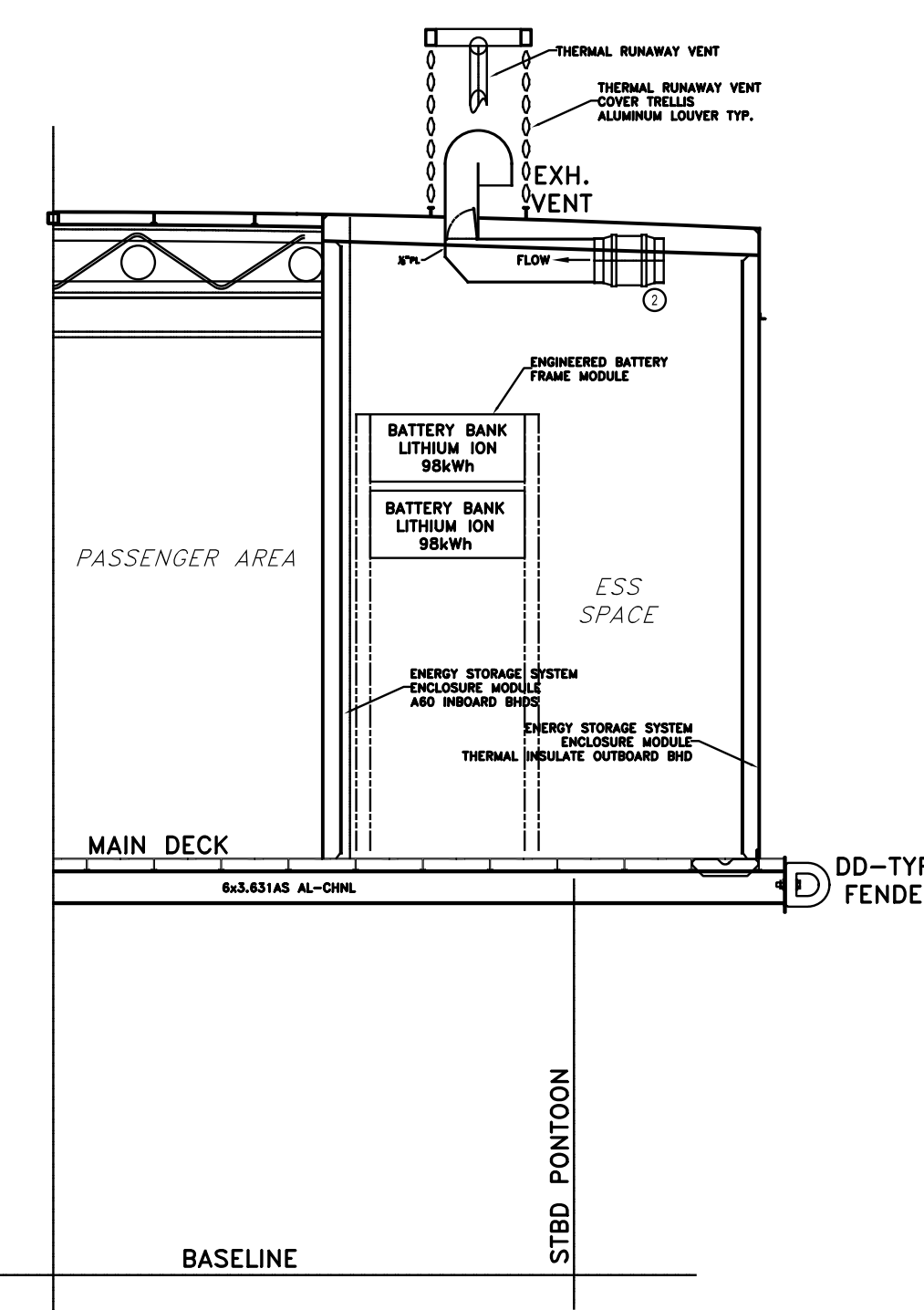
— DRAWING SUBMITTALS —

MATERIAL & EQUIPMENT LIST			
PIECE NO.	QTY.	DESCRIPTION	REMARKS
①	6	INLINE FAN, 610 CFM, 12" DIA 115V, 60HZ	NOTE (*), GEN COMPARTMENT
②	8	INLINE FAN, 250 CFM, 8" DIA 115V, 60HZ	FANS IN ESS REQ. NON-SPARKING IAW ASTM F3553-19
③	8	AIR PIPE HEAD (BALL VENT), WT CERT. 2 1/2" INLET, NPT THREADED, ALUM	FLANGE CONN. ALSO ACCEPTABLE

NOTE (*): NON-METALLIC MATERIALS MAY BE USED BELOW PONTOON TOP PENETRATION PROVIDED COMPONENT IS CAPABLE OF CONTINUOUS EXPOSURE TO TEMPERATURE RANGE (-22°F TO 185°F) WITHOUT FAILURE.

NON-METALLIC COMPONENTS SHALL BE INSTALLED AT LEAST 9 INCHES HORIZONTALLY (OR BELOW) AND 18 ABOVE ANY SURFACE CAPABLE OF REACHING A TEMPERATURE OF 200°F UNDER NORMAL OPERATING CONDITIONS.

LOUVERS:
GENERATOR ROOM INTAKE: MINIMUM AREA = 1 SQFT



ENGINE PARTICULARS:
ENGINE: 6.7 Marine Diesel
RATING: 305 HP
RATED SPEED: 2600 RPM
EXHAUST FLOW: 1325 CFM
EXHAUST TEMP: 1073 °F
EXHAUST DIA: 4 INCH
INTAKE FLOW: 602 CFM
INTAKE PRESSURE: 45 IN HG
HEAT TO AMB: 998 BTU/MIN

GENERAL NOTES		ALTERATIONS		REFERENCES	
NO.	DESCRIPTION	NO.	DESCRIPTION	DATE BY NO.	DESCRIPTION
		1.1	GENERIC PART DESIGNATIONS	8.12.22	EV

NO.	DESCRIPTION	DATE	BY	NO.
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OWNERS	MSC-USCG	ALT.	NO.

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Title: 65' PASSENGER FERRY (DIESEL-ELECT HYBRID)
VENTILATION DETAIL & PLAN

Dwg. No. 22-1477-7010 A11 No. 1
 SHL 1 OF 1

Drawn By: BRIAN BOUDREAU Date: 11 JUL 2022
 Checked By: Date:
 App'd By: Scale: 3/8" = 1'-0"
 ABS App'l: USCg App'l:

ACCESS TO RECORDS AND REPORTS

1. Record Retention. The Contractor will retain, and will require its subcontractors of all tiers to retain, complete and readily accessible records related in whole or in part to the contract, including, but not limited to, data, documents, reports, statistics, leases, subcontracts, arrangements, other third party Contracts of any type, and supporting materials related to those records.
2. Retention Period. The Contractor agrees to comply with the record retention requirements in accordance with 2 C.F.R. § 200.334. The Contractor shall maintain all books, records, accounts and reports required under this Contract for a period of at not less than three (3) years after the date of termination or expiration of this Contract, except in the event of litigation or settlement of claims arising from the performance of this Contract, in which case records shall be maintained until the disposition of all such litigation, appeals, claims or exceptions related thereto.
3. Access to Records. The Contractor agrees to provide sufficient access to FTA and its contractors to inspect and audit records and information related to performance of this contract in accordance with 2 CFR § 200.337.
4. Access to the Sites of Performance. The Contractor agrees to permit FTA and its contractors access to the sites of performance under this contract in accordance with 2 CFR § 200.337.

AMERICANS WITH DISABILITIES ACT(ADA)

The contractor agrees to comply with all applicable requirements of section 504 of the Rehabilitation Act of 1973, as amended, 29 U.S.C. § 794, which prohibits discrimination on the basis of handicaps, with the Americans with Disabilities Act of 1990 (ADA), as amended, 42 U.S.C. §§ 12101 et seq., which requires that accessible facilities and services be made available to persons with disabilities, including any subsequent amendments to that Act, and with the Architectural Barriers act of 1968, as amended, 42 U.S.C. §§ 4151 et seq., which requires that buildings and public accommodations be accessible to persons with disabilities, including any subsequent amendments to that Act. In addition, the contractor agrees to comply with any and all applicable requirements issued by the FTA, DOT, DOJ, U.S. GSA, U.S. EEOC, U.S. FCC, any subsequent amendments thereto and any other nondiscrimination statute(s) that may apply to the Project.

BUS TESTING

The Contractor [Manufacturer] agrees to comply with the Bus Testing requirements under 49 U.S.C. 5318(e) and FTA's implementing regulation at 49 C.F.R. part 665 to ensure that the requisite testing is performed for all new bus models or any bus model with a major change in configuration or components, and that the bus model has achieved a passing score. Upon completion of the testing, the contractor shall obtain a copy of the bus testing reports from the operator of the testing facility and make that report(s) publicly available prior to final acceptance of the first vehicle by the recipient.

BUY AMERICA REQUIREMENTS

The contractor agrees to comply with 49 U.S.C. 5323(j) and 49 C.F.R. part 661 and 2 CFR § 200.322 Domestic preferences for procurements, which provide that Federal funds may not be obligated unless all steel, iron, and manufactured products used in FTA funded projects are produced in the United States, unless a waiver has been granted by FTA or the product is subject to a general waiver. General waivers are listed in 49 C.F.R. § 661.7.

Construction materials used in the Project are subject to the domestic preference requirement of the Build America, Buy America Act, Pub. L. 117-58, div. G, tit. IX, §§ 70911 – 70927 (2021), as implemented by the U.S. Office of Management and Budget, the U.S. Department of Transportation, and FTA. The Recipient acknowledges that this agreement is neither a waiver of § 70914(a) nor a finding under § 70914(b).

Separate requirements for rolling stock are set out at 49 U.S.C. 5323(j)(2)(C), 49 U.S.C. § 5323(u) and 49 C.F.R. § 661.11. Domestic preferences for procurements

The bidder or offeror must submit to the Agency the appropriate Buy America certification. Bids or offers that are not accompanied by a completed Buy America certification will be rejected as nonresponsive. For more information please see the FTA's Buy America webpage at: <https://www.transit.dot.gov/buyamerica>

RESTRICTIONS ON LOBBYING

Conditions on use of funds.

(a) No appropriated funds may be expended by the recipient of a Federal contract, grant, loan, or cooperative agreement to pay any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any of the following covered Federal actions: the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(b) Each person who requests or receives from an agency a Federal contract, grant, loan, or cooperative agreement shall file with that agency a certification, that the person has not made, and will not make, any payment prohibited by paragraph (a) of this section.

(c) Each person who requests or receives from an agency a Federal contract, grant, loan, or a cooperative agreement shall file with that agency a disclosure form if such person has made or has agreed to make any payment using nonappropriated funds (to include profits from any covered Federal action), which would be prohibited under paragraph (a) of this section if paid for with appropriated funds.

(d) Each person who requests or receives from an agency a commitment providing for the United States to insure or guarantee a loan shall file with that agency a statement, whether that person has made or has agreed to make any payment to influence or attempt to influence an officer or employee of any

agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with that loan insurance or guarantee.

(e) Each person who requests or receives from an agency a commitment providing for the United States to insure or guarantee a loan shall file with that agency a disclosure form if that person has made or has agreed to make any payment to influence or attempt to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with that loan insurance or guarantee.

Certification and disclosure.

(a) Each person shall file a certification, and a disclosure form, if required, with each submission that initiates agency consideration of such person for:

(1) Award of a Federal contract, grant, or cooperative agreement exceeding \$100,000; or

(2) An award of a Federal loan or a commitment providing for the United States to insure or guarantee a loan exceeding \$150,000.

(b) Each person shall file a certification, and a disclosure form, if required, upon receipt by such person of:

(1) A Federal contract, grant, or cooperative agreement exceeding \$100,000; or

(2) A Federal loan or a commitment providing for the United States to insure or guarantee a loan exceeding \$150,000,

Unless such person previously filed a certification, and a disclosure form, if required, under paragraph (a) of this section.

(c) Each person shall file a disclosure form at the end of each calendar quarter in which there occurs any event that requires disclosure or that materially affects the accuracy of the information contained in any disclosure form previously filed by such person under paragraphs (a) or (b) of this section. An event that materially affects the accuracy of the information reported includes:

(1) A cumulative increase of \$25,000 or more in the amount paid or expected to be paid for influencing or attempting to influence a covered Federal action; or

(2) A change in the person(s) or individual(s) influencing or attempting to influence a covered Federal action; or,

(3) A change in the officer(s), employee(s), or Member(s) contacted to influence or attempt to influence a covered Federal action.

(d) Any person who requests or receives from a person referred to in paragraphs (a) or (b) of this section:

(1) A subcontract exceeding \$100,000 at any tier under a Federal contract;

(2) A subgrant, contract, or subcontract exceeding \$100,000 at any tier under a Federal grant;

(3) A contract or subcontract exceeding \$100,000 at any tier under a Federal loan exceeding \$150,000; or,

(4) A contract or subcontract exceeding \$100,000 at any tier under a Federal cooperative agreement,

Shall file a certification, and a disclosure form, if required, to the next tier above.

(e) All disclosure forms, but not certifications, shall be forwarded from tier to tier until received by the person referred to in paragraphs (a) or (b) of this section. That person shall forward all disclosure forms to the agency.

(f) Any certification or disclosure form filed under paragraph (e) of this section shall be treated as a material representation of fact upon which all receiving tiers shall rely. All liability arising from an erroneous representation shall be borne solely by the tier filing that representation and shall not be shared by any tier to which the erroneous representation is forwarded. Submitting an erroneous certification or disclosure constitutes a failure to file the required certification or disclosure, respectively. If a person fails to file a required certification or disclosure, the United States may pursue all available remedies, including those authorized by section 1352, title 31, U.S. Code.

(g) For awards and commitments in process prior to December 23, 1989, but not made before that date, certifications shall be required at award or commitment, covering activities occurring between December 23, 1989, and the date of award or commitment. However, for awards and commitments in process prior to the December 23, 1989 effective date of these provisions, but not made before December 23, 1989, disclosure forms shall not be required at time of award or commitment but shall be filed within 30 days.

(h) No reporting is required for an activity paid for with appropriated funds if that activity is allowable under either subpart B or C.

CARGO PREFERENCE REQUIREMENTS

The contractor agrees:

a. to use privately owned United States-Flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to the underlying contract to the extent such vessels are available at fair and reasonable rates for United States-Flag commercial vessels;

b. to furnish within 20 working days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, "on-board" commercial ocean bill-of-lading in English for each shipment of cargo described in the preceding paragraph to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590 and to the FTA Recipient (through the contractor in the case of a subcontractor's bill-of-lading.); and

c. to include these requirements in all subcontracts issued pursuant to this contract when the subcontract may involve the transport of equipment, material, or commodities by ocean vessel.

CIVIL RIGHTS LAWS AND REGULATIONS

The following Federal Civil Rights laws and regulations apply to all contracts.

The Contractor and any subcontractor agree to comply with all the requirements prohibiting discrimination on the basis of race, color, or national origin of the Title VI of the Civil Rights Act of 1964, as amended 52 U.S.C 2000d, and U.S. DOT regulation "Nondiscrimination in Federally-Assisted Programs of the Department of Transportation – Effectuation of the Title VI of the Civil rights Act, "49 C.F. R. Part 21 and any implementing requirement FTA may issue.

1 Federal Equal Employment Opportunity (EEO) Requirements. These include, but are not limited to:

a) Nondiscrimination in Federal Public Transportation Programs. 49 U.S.C. § 5332, covering projects, programs, and activities financed under 49 U.S.C. Chapter 53, prohibits discrimination on the basis of race, color, religion, national origin, sex (including sexual orientation and gender identity), disability, or age, and prohibits discrimination in employment or business opportunity.

b) Prohibition against Employment Discrimination. Title VII of the Civil Rights Act of 1964, as amended, 42 U.S.C. § 2000e, and Executive Order No. 11246, "Equal Employment Opportunity," September 24, 1965, as amended, prohibit discrimination in employment on the basis of race, color, religion, sex, or national origin.

2 Nondiscrimination on the Basis of Sex. Title IX of the Education Amendments of 1972, as amended, 20 U.S.C. § 1681 et seq. and implementing Federal regulations, "Nondiscrimination on the Basis of Sex in Education Programs or Activities Receiving Federal Financial Assistance," 49 C.F.R. part 25 prohibit discrimination on the basis of sex.

3 Nondiscrimination on the Basis of Age. The "Age Discrimination Act of 1975," as amended, 42 U.S.C. § 6101 et seq., and Department of Health and Human Services implementing regulations, "Nondiscrimination on the Basis of Age in Programs or Activities Receiving Federal Financial Assistance," 45 C.F.R. part 90, prohibit discrimination by participants in federally assisted programs against individuals on the basis of age. The Age Discrimination in Employment Act (ADEA), 29 U.S.C. § 621 et seq., and Equal Employment Opportunity Commission (EEOC) implementing regulations, "Age Discrimination in Employment Act," 29 C.F.R. part 1625, also prohibit employment discrimination against individuals age 40 and over on the basis of age.

4 Federal Protections for Individuals with Disabilities. The Americans with Disabilities Act of 1990, as amended (ADA), 42 U.S.C. § 12101 et seq., prohibits discrimination against qualified individuals with disabilities in programs, activities, and services, and imposes specific requirements on public and private entities. Third party contractors must comply with their responsibilities under Titles I, II, III, IV, and V of the ADA in employment, public services, public accommodations, telecommunications, and other provisions, many of which are subject to regulations issued by other Federal agencies.

Civil Rights and Equal Opportunity

The Agency is an Equal Opportunity Employer. As such, the Agency agrees to comply with all applicable Federal civil rights laws and implementing regulations. Apart from inconsistent requirements imposed by Federal laws or regulations, the Agency agrees to comply with the requirements of 49 U.S.C. § 5323(h) (3) by not using any Federal assistance awarded by FTA to support procurements using exclusionary or discriminatory specifications. Under this Contract, the Contractor shall at all times comply with the following requirements and shall include these requirements in each subcontract entered into as part thereof.

1. Nondiscrimination. In accordance with Federal transit law at 49 U.S.C. § 5332, the Contractor agrees that it will not discriminate against any employee or applicant for employment because of race, color, religion, national origin, sex, disability, or age. In addition, the Contractor agrees to comply with applicable Federal implementing regulations and other implementing requirements FTA may issue.

2. Race, Color, Religion, National Origin, Sex. In accordance with Title VII of the Civil Rights Act, as amended, 42 U.S.C. § 2000e et seq., and Federal transit laws at 49 U.S.C. § 5332, the Contractor agrees to comply with all applicable equal employment opportunity requirements of U.S. Department of Labor (U.S. DOL) regulations, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor," 41 C.F.R. chapter 60, and Executive Order No. 11246, "Equal Employment Opportunity in Federal Employment," September 24, 1965, 42 U.S.C. § 2000e note, as amended by any later Executive Order that amends or supersedes it, referenced in 42 U.S.C. § 2000e note. The Contractor agrees to take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, national origin, or sex (including sexual orientation and gender identity). Such action shall include, but not be limited to, the following: employment, promotion, demotion or transfer, recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.

3. Age. In accordance with the Age Discrimination in Employment Act, 29 U.S.C. §§ 621-634, U.S. Equal Employment Opportunity Commission (U.S. EEOC) regulations, "Age Discrimination in Employment Act," 29 C.F.R. part 1625, the Age Discrimination Act of 1975, as amended, 42 U.S.C. § 6101 et seq., U.S. Health and Human Services regulations, "Nondiscrimination on the Basis of Age in Programs or Activities Receiving Federal Financial Assistance," 45 C.F.R. part 90, and Federal transit law at 49 U.S.C. § 5332, the Contractor agrees to refrain from discrimination against present and prospective employees for reason of age. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.

4. Disabilities. In accordance with section 504 of the Rehabilitation Act of 1973, as amended, 29 U.S.C. § 794, the Americans with Disabilities Act of 1990, as amended, 42 U.S.C. § 12101 et seq., the Architectural Barriers Act of 1968, as amended, 42 U.S.C. § 4151 et seq., and Federal transit law at 49 U.S.C. § 5332, the Contractor agrees that it will not discriminate against individuals on the basis of disability. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.

5. Promoting Free Speech and Religious Liberty. The Contractor shall ensure that Federal funding is expended in full accordance with the U.S. Constitution, Federal Law, and statutory and public policy requirements: including, but not limited to, those protecting free speech, religious liberty, public welfare, the environment, and prohibiting discrimination.

CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

The Contractor agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act (42 U.S.C. § 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. § 1251-1387). Violations must be reported to FTA and the Regional Office of the Environmental Protection Agency. The following applies for contracts of amounts in excess of \$150,000:

Clean Air Act

(1) The contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq.

(2) The contractor agrees to report each violation to the Agency and understands and agrees that the Agency will, in turn, report each violation as required to assure notification to the Agency, Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.

(3) The contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance

provided by FTA.

Federal Water Pollution Control Act

(1) The contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq.

(2) The contractor agrees to report each violation to the Agency and understands and agrees that the Agency will, in turn, report each violation as required to assure notification to the Agency, Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.

(3) The contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FTA.”

CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

- a. Applicability: This requirement applies to all FTA grant and cooperative agreement programs.
- b. Where applicable (see 40 U.S.C. § 3701), all contracts awarded by the non-Federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. §§ 3702 and 3704, as supplemented by Department of Labor regulations at 29 C.F.R. Part 5. See 2 C.F.R. Part 200, Appendix II.
- c. Under 40 U.S.C. § 3702, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week.
- d. The requirements of 40 U.S.C. § 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.
- e. The regulation at 29 C.F.R. § 5.5(b) provides the required contract clause concerning compliance with the Contract Work Hours and Safety Standards Act:

Compliance with the Contract Work Hours and Safety Standards Act.

- (1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
- (2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1) of this section.
- (3) Withholding for unpaid wages and liquidated damages. The agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2) of this section.
- (4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this section."

CONFORMANCE WITH ITS NATIONAL ARCHITECTURE

Intelligent Transportation Systems (ITS) projects shall conform to the National ITS Architecture and standards pursuant to 23 CFR § 940. Conformance with the National ITS Architecture is interpreted to mean the use of the National ITS Architecture to develop a regional ITS architecture in support of integration and the subsequent adherence of all ITS projects to that regional ITS architecture. Development of the regional ITS architecture should be consistent with the transportation planning process for Statewide and Metropolitan Transportation Planning (49 CFR Part 613 and 621).

DEBARMENT AND SUSPENSION

The Contractor shall comply and facilitate compliance with U.S. DOT regulations, "Nonprocurement Suspension and Debarment," 2 C.F.R. part 1200, which adopts and supplements the U.S. Office of Management and Budget (U.S. OMB) "Guidelines to Agencies on Governmentwide Debarment and Suspension (Nonprocurement)," 2 C.F.R. part 180. These provisions apply to each contract at any tier of \$25,000 or more, and to each contract at any tier for a federally required audit (irrespective of the contract amount), and to each contract at any tier that must be approved by an FTA official irrespective of the contract amount. As such, the Contractor shall verify that its principals, affiliates, and subcontractors are eligible to participate in this federally funded contract and are not presently declared by any Federal department or agency to be:

- a) Debarred from participation in any federally assisted Award;
- b) Suspended from participation in any federally assisted Award;
- c) Proposed for debarment from participation in any federally assisted Award;
- d) Declared ineligible to participate in any federally assisted Award;
- e) Voluntarily excluded from participation in any federally assisted Award; or
- f) Disqualified from participation in any federally assisted Award.

By signing and submitting its bid or proposal, the bidder or proposer certifies as follows:

The certification in this clause is a material representation of fact relied upon by the AGENCY. If it is later determined by the AGENCY that the bidder or proposer knowingly rendered an erroneous certification, in addition to remedies available to the AGENCY, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment. The bidder or proposer agrees to comply with the requirements of 2 C.F.R. part 180, subpart C, as supplemented by 2 C.F.R. part 1200, while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

DISADVANTAGED BUSINESS ENTERPRISE (DBE)

(Does not apply to projects fully funded by the Tribal Transportation Program (TTP).)

It is the policy of the Agency and the United States Department of Transportation ("DOT") that Disadvantaged Business Enterprises ("DBE's"), as defined herein and in the Federal regulations published at 49 C.F.R. part 26, shall have an equal opportunity to participate in DOT-assisted contracts.

The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 C.F.R. part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the Agency deems appropriate, which may include, but is not limited to:

- (1) Withholding monthly progress payments;
- (2) Assessing sanctions;
- (3) Liquidated damages; and/or
- (4) Disqualifying the contractor from future bidding as non-responsible. 49 C.F.R. § 26.13(b).

Prime contractors are required to pay subcontractors for satisfactory performance of their contracts no later than 30 days from receipt of each payment the Agency makes to the prime contractor. 49 C.F.R. § 26.29(a).

Finally, for contracts with defined DBE contract goals, the contractor shall utilize the specific DBEs listed unless the contractor obtains the Agency's written consent; and that, unless the Agency's consent is provided, the contractor shall not be entitled to any payment for work or material unless it is performed or supplied by the listed DBE. 49 C.F.R. § 26.53(f) (1).

ENERGY CONSERVATION

The contractor agrees to comply with mandatory standards and policies relating to energy efficiency, which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. § 6201).

EQUAL EMPLOYMENT OPPORTUNITY

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer, recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.
- (2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.
- (3) The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.
- (4) The contractor will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under section 202 of Executive Order 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (5) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (6) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- (7) In the event of the contractor's non-compliance with the nondiscrimination clauses of this contract or with any of such rules, regulations, or orders, this contract may be canceled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- (8) The contractor will include the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as may be directed by the Secretary of Labor as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that in the event the contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

CHANGES TO FEDERAL REQUIREMENTS

Federal requirements that apply to the Recipient or the Award, the accompanying Underlying Agreement, and any Amendments thereto may change due to changes in federal law, regulation, other requirements, or guidance, or changes in the Recipient's Underlying Agreement including any information incorporated by reference and made part of that Underlying Agreement; and

Applicable changes to those federal requirements will apply to each Third Party Agreement and parties thereto at any tier.

FLY AMERICA

a) Definitions. As used in this clause—

1) "International air transportation" means transportation by air between a place in the United States and a place outside the United States or between two places both of which are outside the United States. 2) "United States" means the 50 States, the District of Columbia, and outlying areas. 3) "U.S.-flag air carrier" means an air carrier holding a certificate under 49 U.S.C. Chapter 411.

b) When Federal funds are used to fund travel, Section 5 of the International Air Transportation Fair Competitive Practices Act of 1974 (49 U.S.C. 40118) (Fly America Act) requires contractors, Agencies, and others use U.S.-flag air carriers for U.S. Government-financed international air transportation of personnel (and their personal effects) or property, to the extent that service by those carriers is available. It requires the Comptroller General of the United States, in the absence of satisfactory proof of the necessity for foreign-flag air transportation, to disallow expenditures from funds, appropriated or otherwise established for the account of the United States, for international air transportation secured aboard a foreign-flag air carrier if a U.S.-flag air carrier is available to provide such services.

c) If available, the Contractor, in performing work under this contract, shall use U.S.-flag carriers for international air transportation of personnel (and their personal effects) or property.

d) In the event that the Contractor selects a carrier other than a U.S.-flag air carrier for international air transportation, the Contractor shall include a statement on vouchers involving such transportation essentially as follows:

Statement of Unavailability of U.S.-Flag Air Carriers

International air transportation of persons (and their personal effects) or property by U.S.-flag air carrier was not available or it was necessary to use foreign-flag air carrier service for the following reasons. See FAR § 47.403. [State reasons]:

e) Contractor shall include the substance of this clause, including this paragraph (e), in each subcontract or purchase under this contract that may involve international air transportation.

FEDERAL TAX LIABILITY AND RECENT FELONY CONVICTIONS

(1) The contractor certifies that it:

(a) Does not have any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability; and

(b) Was not convicted of the felony criminal violation under any Federal law within the preceding 24 months.

If the contractor cannot so certify, the Recipient will refer the matter to FTA and not enter into any Third Party Agreement with the Third Party Participant without FTA's written approval.

(2) Flow-Down. The Recipient agrees to require the contractor to flow this requirement down to participants at all lower tiers, without regard to the value of any subagreement.

INCORPORATION OF FEDERAL TRANSIT ADMINISTRATION (FTA) TERMS

The provisions within include, in part, certain Standard Terms and Conditions required under the Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (2 CFR § 200), whether or not expressly set forth in the preceding contract provisions. All contractual provisions required by DOT, detailed in 2 CFR § 200 or as amended by 2 CFR § 1201, or the most recent version of FTA Circular 4220.1 are hereby incorporated by reference. Anything to the contrary herein notwithstanding, all mandated terms shall be deemed to control in the event of a conflict with other provisions contained in this Contract. The Contractor shall not perform any act, fail to perform any act, or refuse to comply with any request which would cause a violation of the FTA terms and conditions.

NO GOVERNMENT OBLIGATION TO THIRD PARTIES

The Recipient and Contractor acknowledge and agree that, notwithstanding any concurrence by the Federal Government in or approval of the solicitation or award of the underlying Contract, absent the express written consent by the Federal Government, the Federal Government is not a party to this Contract and shall not be subject to any obligations or liabilities to the Recipient, Contractor or any other party (whether or not a party to that contract) pertaining to any matter resulting from the underlying Contract. The Contractor agrees to include the above clause in each subcontract financed in whole or in part with Federal assistance provided by the FTA. It is further agreed that the clause shall not be modified, except to identify the subcontractor who will be subject to its provisions.

NOTICE TO FTA AND U.S. DOT INSPECTOR GENERAL OF INFORMATION RELATED TO FRAUD, WASTE, ABUSE, OR OTHER LEGAL MATTERS

(Does not apply to projects fully funded by the Tribal Transportation Program (TTP).)

It is the policy of the Agency and the United States Department of Transportation ("DOT") that Disadvantaged Business Enterprises ("DBE's"), as defined herein and in the Federal regulations published at 49 C.F.R. part 26, shall have an equal opportunity to participate in DOT-assisted contracts.

The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 C.F.R. part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the Agency deems appropriate, which may include, but is not limited to:

- (1) Withholding monthly progress payments;
- (2) Assessing sanctions;
- (3) Liquidated damages; and/or
- (4) Disqualifying the contractor from future bidding as non-responsible. 49 C.F.R. § 26.13(b).

Prime contractors are required to pay subcontractors for satisfactory performance of their contracts no later than 30 days from receipt of each payment the Agency makes to the prime contractor. 49 C.F.R. § 26.29(a).

Finally, for contracts with defined DBE contract goals, the contractor shall utilize the specific DBEs listed unless the contractor obtains the Agency's written consent; and that, unless the Agency's consent is provided, the contractor shall not be entitled to any payment for work or material unless it is performed or supplied by the listed DBE. 49 C.F.R. § 26.53(f) (1).

PRE-AWARD AND POST-DELIVERY AUDITS OF ROLLING STOCK PURCHASES

(Does not apply to projects fully funded by the Tribal Transportation Program (TTP).)

The Contractor agrees to comply with 49 U.S.C. § 5323(m) and FTA's implementing regulation at 49 C.F.R. part 663. The Contractor shall comply with the Buy America certification(s) submitted with its proposal/bid. The Contractor agrees to participate and cooperate in any pre-award and post-delivery audits performed pursuant to 49 C.F.R. part 663 and related FTA guidance.

PROGRAM FRAUD AND FALSE OR FRAUDULENT STATEMENTS AND RELATED ACTS

The Contractor acknowledges that the provisions of the Program Fraud Civil Remedies Act of 1986, as amended, 31 U.S.C. § 3801 et seq. and U.S. DOT regulations, "Program Fraud Civil Remedies," 49 C.F.R. part 31, apply to its actions pertaining to this Project. Upon execution of the underlying contract, the Contractor certifies or affirms the truthfulness and accuracy of any statement it has made, it makes, it may make, or causes to be made, pertaining to the underlying contract or the FTA assisted project for which this contract work is being performed. In addition to other penalties that may be applicable, the Contractor further acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification, the Federal Government reserves the right to impose the penalties of the Program Fraud Civil Remedies Act of 1986 on the Contractor to the extent the Federal Government deems appropriate.

The Contractor also acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification to the Federal Government under a contract connected with a project that is financed in whole or in part with Federal assistance originally awarded by FTA under the authority of 49 U.S.C. chapter 53, the Government reserves the right to impose the penalties of 18 U.S.C. § 1001 and 49 U.S.C. § 5323(l) on the Contractor, to the extent the Federal Government deems appropriate.

The Contractor agrees to include the above two clauses in each subcontract financed in whole or in part with Federal assistance provided by FTA. It is further agreed that the clauses shall not be modified, except to identify the subcontractor who will be subject to the provisions.

PROHIBITION ON CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT.

a. Recipients and subrecipients are prohibited from obligating or expending loan or grant funds to:

1. Procure or obtain;
2. Extend or renew a contract to procure or obtain; or
3. Enter into a contract (or extend or renew a contract) to procure or obtain equipment, services, or systems that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any

system. As described in Public Law 115-232, section 889, covered telecommunications equipment is telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).

- i. For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities).
 - ii. Telecommunications or video surveillance services provided by such entities or using such equipment.
 - iii. Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of the National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.
- b. In implementing the prohibition under Public Law 115-232, section 889, subsection (f), paragraph (1), heads of executive agencies administering loan, grant, or subsidy programs shall prioritize available funding and technical support to assist affected businesses, institutions and organizations as is reasonably necessary for those affected entities to transition from covered communications equipment and services, to procure replacement equipment and services, and to ensure that communications service to users and customers is sustained.
- c. See Public Law 115-232, section 889 for additional information.
- d. See also § 200.471.

PROMPT PAYMENT

(Does not apply to projects fully funded by the Tribal Transportation Program (TTP).)

The contractor is required to pay its subcontractors performing work related to this contract for satisfactory performance of that work no later than 30 days after the contractor's receipt of payment for that work. In addition, the contractor is required to return any retainage payments to those subcontractors within 30 days after the subcontractor's work related to this contract is satisfactorily completed.

The contractor must promptly notify the Agency, whenever a DBE subcontractor performing work related to this contract is terminated or fails to complete its work and must make good faith efforts to engage another DBE subcontractor to perform at least the same amount of work. The contractor may not terminate any DBE subcontractor and perform that work through its own forces or those of an affiliate without prior written consent of the Agency.

SPECIAL NOTIFICATION REQUIREMENTS FOR STATES

Applies to States –

a. To the extent required under federal law, the State, as the Recipient, agrees to provide the following information about federal assistance awarded for its State Program, Project, or related activities:

- (1) The Identification of FTA as the federal agency providing the federal assistance for a State Program or Project;
- (2) The Catalog of Federal Domestic Assistance Number of the program from which the federal assistance for a State Program or Project is authorized; and
- (3) The amount of federal assistance FTA has provided for a State Program or Project.

b. Documents - The State agrees to provide the information required under this provision in the following documents: (1) applications for federal assistance, (2) requests for proposals or solicitations, (3) forms, (4) notifications, (5) press releases, and (6) other publications.

SAFE OPERATION OF MOTOR VEHICLES

Seat Belt Use

The Contractor is encouraged to adopt and promote on-the-job seat belt use policies and programs for its employees and other personnel that operate company-owned vehicles, company rented vehicles, or personally operated vehicles. The terms "company-owned" and "company-leased" refer to vehicles owned or leased either by the Contractor or Agency.

Distracted Driving

The Contractor agrees to adopt and enforce workplace safety policies to decrease crashes caused by distracted drivers, including policies to ban text messaging while using an electronic device supplied by an employer, and driving a vehicle the driver owns or rents, a vehicle Contractor owns, leases, or rents, or a privately-owned vehicle when on official business in connection with the work performed under this Contract.

SIMPLIFIED ACQUISITION THRESHOLD

Contracts for more than the simplified acquisition threshold, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. § 1908, or otherwise set by law, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate. (Note that the simplified acquisition threshold determines the procurement procedures that must be employed pursuant to 2 C.F.R. §§ 200.317–200.327. The simplified acquisition threshold does not exempt a procurement from other eligibility or processes requirements that may apply. For example, Buy America's eligibility and process requirements apply to any procurement in excess of \$150,000. 49 U.S.C. § 5323(j)(13).

SEVERABILITY

The Contractor agrees that if any provision of this agreement or any amendment thereto is determined to be invalid, then the remaining provisions thereof that conform to federal laws, regulations, requirements, and guidance will continue in effect.

TERMINATION

Termination for Convenience (General Provision)

The Agency may terminate this contract, in whole or in part, at any time by written notice to the Contractor when it is in the Agency's best interest. The Contractor shall be paid its costs, including contract close-out costs, and profit on work performed up to the time of termination. The Contractor shall promptly submit its termination claim to Agency to be paid the Contractor. If the Contractor has any property in its possession belonging to Agency, the Contractor will account for the same, and dispose of it in the manner Agency directs.

Termination for Default [Breach or Cause] (General Provision)

If the Contractor does not deliver supplies in accordance with the contract delivery schedule, or if the contract is for services, the Contractor fails to perform in the manner called for in the contract, or if the Contractor fails to comply with any other provisions of the contract, the Agency may terminate this contract for default. Termination shall be effected by serving a Notice of Termination on the Contractor setting forth the manner in which the Contractor is in default. The Contractor will be paid only the contract price for supplies delivered and accepted, or services performed in accordance with the manner of performance set forth in the contract. If it is later determined by the Agency that the Contractor had an excusable reason for not performing, such as a strike, fire, or flood, events which are not the fault of or are beyond the control of the Contractor, the Agency, after setting up a new delivery of performance schedule, may allow the Contractor to continue work, or treat the termination as a Termination for Convenience.

Opportunity to Cure (General Provision)

The Agency, in its sole discretion may, in the case of a termination for breach or default, allow the Contractor [an appropriately short period of time] in which to cure the defect. In such case, the Notice of Termination will state the time period in which cure is permitted and other appropriate conditions

If Contractor fails to remedy to Agency's satisfaction the breach or default of any of the terms, covenants, or conditions of this Contract within [10 days] after receipt by Contractor of written notice from Agency setting forth the nature of said breach or default, Agency shall have the right to terminate the contract without any further obligation to Contractor. Any such termination for default shall not in any way operate to preclude Agency from also pursuing all available remedies against Contractor and its sureties for said breach or default.

Waiver of Remedies for any Breach

In the event that Agency elects to waive its remedies for any breach by Contractor of any covenant, term or condition of this contract, such waiver by Agency shall not limit Agency's remedies for any succeeding breach of that or of any other covenant, term, or condition of this contract.

Termination for Convenience (Professional or Transit Service Contracts)

The Agency, by written notice, may terminate this contract, in whole or in part, when it is in the Agency's interest. If this contract is terminated, the Agency shall be liable only for payment under the payment provisions of this contract for services rendered before the effective date of termination.

Termination for Default (Supplies and Service)

If the Contractor fails to deliver supplies or to perform the services within the time specified in this contract or any extension, or if the Contractor fails to comply with any other provisions of this contract, the Agency may terminate this contract for default. The Agency shall terminate by delivering to the Contractor a Notice of Termination specifying the nature of the default. The Contractor will only be paid the contract price for supplies delivered and accepted, or services performed in accordance with the manner or performance set forth in this contract. If, after termination for failure to fulfill contract obligations, it is determined that the Contractor was not in default, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of the Agency.

Termination for Default (Transportation Services)

If the Contractor fails to pick up the commodities or to perform the services, including delivery services, within the time specified in this contract or any extension, or if the Contractor fails to comply with any other provisions of this contract, the Agency may terminate this contract for default. The Agency shall terminate by delivering to the Contractor a Notice of Termination specifying the nature of default. The Contractor will only be paid the contract price for services performed in accordance with the manner of performance set forth in this contract.

If this contract is terminated while the Contractor has possession of Agency goods, the Contractor shall, upon direction of the Agency, protect and preserve the goods until surrendered to the Agency or its agent. The Contractor and Agency shall agree on payment for the preservation and protection of goods. Failure to agree on an amount will be resolved under the Dispute clause.

If, after termination for failure to fulfill contract obligations, it is determined that the Contractor was not in default, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of the Agency.

Termination for Default (Construction)

If the Contractor refuses or fails to prosecute the work or any separable part, with the diligence that will ensure its completion within the time specified in this contract or any extension or fails to complete the work within this time, or if the Contractor fails to comply with any other provision of this contract, Agency may terminate this contract for default. The Agency shall terminate by delivering to the Contractor a Notice of Termination specifying the nature of the default. In this event, the Agency may take over the work and complete it by contract or otherwise, and may take possession of and use any materials, appliances, and plant on the work site necessary for completing the work. The Contractor and its sureties shall be liable for any damage to the Agency resulting from the Contractor's refusal or failure to complete the work within specified time, whether or not the Contractor's right to proceed with the work is terminated. This liability includes any increased costs incurred by the Agency in completing the work.

The Contractor's right to proceed shall not be terminated nor shall the Contractor be charged with damages under this clause if: 1. The delay in completing the work arises from unforeseeable causes beyond the control and without the fault or negligence of the Contractor. Examples of such causes include: acts of God, acts of Agency, acts of another contractor in the performance of a contract with Agency, epidemics, quarantine restrictions, strikes, freight embargoes; and 2. The Contractor, within [10] days from the beginning of any delay, notifies Agency in writing of the causes of delay. If, in the judgment of Agency, the delay is excusable, the time for completing the work shall be extended. The judgment of Agency shall be final and conclusive for the parties, but subject to appeal under the Disputes clause(s) of this contract. 3. If, after termination of the Contractor's right to proceed, it is determined that the Contractor was not in default, or that the delay was excusable, the rights and obligations of the parties will be the same as if the termination had been issued for the convenience of Agency.

Termination for Convenience or Default (Architect and Engineering)

The Agency may terminate this contract in whole or in part, for the Agency's convenience or because of the failure of the Contractor to fulfill the contract obligations. The Agency shall terminate by delivering to the Contractor a Notice of Termination specifying the nature, extent, and effective date of the termination. Upon receipt of the notice, the Contractor shall (1) immediately discontinue all services affected (unless the notice directs otherwise), and (2) deliver to the Agency's Contracting Officer all data, drawings, specifications, reports, estimates, summaries, and other information and materials accumulated in performing this contract, whether completed or in process. Agency has a royalty-free, nonexclusive, and irrevocable license to reproduce, publish or otherwise use, all such data, drawings, specifications, reports, estimates, summaries, and other information and materials.

If the termination is for the convenience of the Agency, the Agency's Contracting Officer shall make an equitable adjustment in the contract price but shall allow no anticipated profit on unperformed services. If the termination is for failure of the Contractor to fulfill the contract obligations, the Agency may complete the work by contract or otherwise and the Contractor shall be liable for any additional cost incurred by the Agency. If, after termination for failure to

fulfill contract obligations, it is determined that the Contractor was not in default, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of Agency

Termination for Convenience or Default (Cost-Type Contracts)

The Agency may terminate this contract, or any portion of it, by serving a Notice of Termination on the Contractor. The notice shall state whether the termination is for convenience of Agency or for the default of the Contractor. If the termination is for default, the notice shall state the manner in which the Contractor has failed to perform the requirements of the contract. The Contractor shall account for any property in its possession paid for from funds received from the Agency, or property supplied to the Contractor by the Agency. If the termination is for default, the Agency may fix the fee, if the contract provides for a fee, to be paid the Contractor in proportion to the value, if any, of work performed up to the time of termination. The Contractor shall promptly submit its termination claim to the Agency and the parties shall negotiate the termination settlement to be paid the Contractor.

If the termination is for the convenience of Agency, the Contractor shall be paid its contract close-out costs, and a fee, if the contract provided for payment of a fee, in proportion to the work performed up to the time of termination.

If, after serving a Notice of Termination for Default, the Agency determines that the Contractor has an excusable reason for not performing, the Agency, after setting up a new work schedule, may allow the Contractor to continue work, or treat the termination as a Termination for Convenience.

TRAFFICKING IN PERSONS

The contractor agrees that it and its employees that participate in the Recipient's Award, may not:

- (a) Engage in severe forms of trafficking in persons during the period of time that the Recipient's Award is in effect;
- (b) Procure a commercial sex act during the period of time that the Recipient's Award is in effect; or
- (c) Use forced labor in the performance of the Recipient's Award or subagreements thereunder.

VIOLATION AND BREACH OF CONTRACT

Disputes:

Disputes arising in the performance of this Contract that are not resolved by agreement of the parties shall be decided in writing by the authorized representative of the agency. This decision shall be final and conclusive unless within [10] days from the date of receipt of its copy, the Contractor mails or otherwise furnishes a written appeal to the agencies authorized representative. In connection with any such appeal, the Contractor shall be afforded an opportunity to be heard and to offer evidence in support of its position. The decision of the agencies authorized representative shall be binding upon the Contractor and the Contractor shall abide by the decision.

Performance during Dispute:

Unless otherwise directed by the agencies authorized representative, contractor shall continue performance under this contract while matters in dispute are being resolved.

Claims for Damages:

Should either party to the contract suffer injury or damage to person or property because of any act or omission of the party or of any of his employees, agents or others for whose acts he is legally liable, a claim for damages therefore shall be made in writing to such other party within a reasonable time after the first observance of such injury or damage.

Remedies:

Unless this contract provides otherwise, all claims, counterclaims, disputes and other matters in question between the agencies authorized representative and contractor arising out of or relating to this agreement or its breach will be decided by arbitration if the parties mutually agree, or in a court of competent jurisdiction within the State in which the Agency is located.

Rights and Remedies:

Duties and obligations imposed by the contract documents and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law. No action or failure to act by the Agency or contractor shall constitute a waiver of any right or duty afforded any of them under the contract, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach thereunder, except as may be specifically agreed in writing.

Federal Certifications

CERTIFICATION AND RESTRICTIONS ON LOBBYING

I, _____ hereby certify
(Name and title of official)

On behalf of _____ that:
(Name of Bidder/Company Name)

- No federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, and officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.
- If any funds other than federal appropriated funds have been paid or will be paid to any person influencing or attempting to influence an officer or employee of any agency, a Member of Congress, and officer or employee of Congress, or an employee of a Member of Congress in connection with the federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form – LLL, “Disclosure Form to Report Lobbying,” in accordance with its instructions.
- The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including sub-contracts, sub-grants and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. § 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.,

Name of Bidder/Company Name: _____

Type or print name: _____

Signature of authorized representative: _____ Date _____ / _____ / _____

GOVERNMENT-WIDE DEBARMENT AND SUSPENSION (NONPROCUREMENT)

Recipients, contractors, and subcontractors that enter into covered transactions are required to verify that the entity (as well as its principals and affiliates) with which they propose to contract or subcontract is not excluded or disqualified. This is done by: (a) checking the SAM exclusions; (b) collecting a certification from that person (found below); or (c) adding a clause or condition to the contract or subcontract.

Instructions for Certification: By signing and submitting this bid or proposal, the prospective lower tier participant is providing the signed certification set out below.

(1) It will comply and facilitate compliance with U.S. DOT regulations, "Nonprocurement Suspension and Debarment," 2 CFR part 1200, which adopts and supplements the U.S. Office of Management and Budget (U.S. OMB) "Guidelines to Agencies on Governmentwide Debarment and Suspension (Nonprocurement)," 2 CFR part 180,

(2) To the best of its knowledge and belief, that its Principals and Subrecipients at the first tier:

- a. Are eligible to participate in covered transactions of any Federal department or agency and are not presently:
 1. Debarred,
 2. Suspended,
 3. Proposed for debarment,
 4. Declared ineligible,
 5. Voluntarily excluded, or
 6. Disqualified,
- b. Its management has not within a three-year period preceding its latest application or proposal been convicted of or had a civil judgment rendered against any of them for:
 1. Commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction, or contract under a public transaction,
 2. Violation of any Federal or State antitrust statute, or,
 3. Commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making any false statement, or receiving stolen property,
- c. It is not presently indicted for, or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses listed in the preceding subsection 2.b of this Certification,

a. It has not had one or more public transactions (Federal, State, or local) terminated for cause or default within a three-year period preceding this Certification,

a. If, at a later time, it receives any information that contradicts the statements of subsections 2.a – 2.d above, it will promptly provide that information to FTA,

- a. It will treat each lower tier contract or lower tier subcontract under its Project as a covered lower tier contract for purposes of 2 CFR part 1200 and 2 CFR part 180 if it:
 1. Equals or exceeds \$25,000,,
 2. Is for audit services, or,
 3. Requires the consent of a Federal official, and
- b. It will require that each covered lower tier contractor and subcontractor:
 1. Comply and facilitate compliance with the Federal requirements of 2 CFR parts 180 and 1200, and
 2. Assure that each lower tier participant in its Project is not presently declared by any Federal department or agency to be:
 - a. Debarred from participation in its federally funded Project,
 - b. Suspended from participation in its federally funded Project,
 - c. Proposed for debarment from participation in its federally funded Project,
 - d. Declared ineligible to participate in its federally funded Project,
 - e. Voluntarily excluded from participation in its federally funded Project, or
 - f. Disqualified from participation in its federally funded Project, and

(3) It will provide a written explanation as indicated on a page attached in FTA's TrAMS platform or the Signature Page if it or any of its principals, including any of its first tier Subrecipients or its Third-Party Participants at a lower tier, is unable to certify compliance with the preceding statements in this Certification Group.,

Certification

Contractor: _____

Signature of Authorized Official: _____ Date _____ / _____ / _____

Name and Title of Contractor's Authorized Official: _____

BUS TESTING CERTIFICATION

The undersigned bidder [Contractor/Manufacturer] certifies that the vehicle model or vehicle models offered in this bid submission complies with 49 U.S.C 5318(e) and FTA's implementing regulation at 49 CFR Part 665.

A copy of the test report (for each bid ITEM) prepared by the Federal Transit Administration's (FTA) Altoona, Pennsylvania Bus Testing Center is attached to this certification and is a true and correct copy of the test report as prepared by the facility.

The undersigned understands that misrepresenting the testing status of a vehicle acquired with Federal financial assistance may subject the undersigned to civil penalties as outlined in the U.S. Department of Transportation's regulation on Program Fraud Civil Remedies, 49 CFR Part 31. In addition, the undersigned understands that FTA may suspend or debar a manufacturer under the procedures in 49 CFR Part 29.,

Name of Bidder/Company Name: _____

Type or print name: _____

Signature of authorized representative: _____

Date of Signature: _____ / _____ / _____

PRE-AWARD BUY AMERICA CERTIFICATION

(Does not apply to projects fully funded by the Tribal Transportation Program (TTP).)

As required by 49 CFR part 663 – Subpart B, _____ (the recipient) is satisfied that the vehicles to be purchased, _____ (number and description of vehicles) from _____ (the manufacturer), meet the requirements of 49 U.S.C. 5323(j), as amended. The recipient, or its appointed auditor _____ (the auditor – not the manufacturer or its agent), has reviewed documentation provided by the manufacturer, which lists (1) the proposed component and subcomponent parts of the vehicles identified by manufacturer, country of origin, and cost; and (2) the proposed location of the final assembly point for the vehicles, including a description of the activities that will take place at the final assembly point and the cost of final assembly.

Date : _____

Recipient Authorized Signature: _____

Print Name: _____

Title : _____

PRE-AWARD BUY AMERICA CERTIFICATE OF NON-COMPLIANCE

As required by 49 CFR part 663 – Subpart B, _____ (the recipient) keeps on file a certification that there is a letter from FTA which grants a waiver to the rolling stock to be purchased, _____ (number and description of rolling stock), from the Buy America requirements under 49 U.S.C. 5323(j)(2)(A),(2)(B), or (2)(D), as amended.

Date : _____

Recipient Authorized Signature: _____

Print Name: _____

Title : _____

PRE-AWARD FMVSS COMPLIANCE CERTIFICATION

As required by 49 CFR part 663 – Subpart D, _____ (the recipient)

certifies that it received, at the pre-award stage, a copy of

_____ 's (the manufacturer) self-certification information

stating that the vehicles, _____ (number and

description of vehicles), will comply with the relevant Federal Motor Vehicle Safety Standards

issued by the National Highway Traffic Safety Administration in 49 CFR part 571.

Date: _____

Recipient Authorized Signature: _____

Print Name: _____

Title : _____

PRE-AWARD CERTIFICATION OF FMVSS INAPPLICABILITY

As required by 49 CFR part 663 – Subpart D,; _____ (the

recipient) certifies that it received at the pre-award stage, a statement from

_____ (the manufacturer) indicating that

the vehicles, _____ (number and

description of vehicles), will not be subject to the Federal Motor Vehicle Safety Standards

issued by the National Highway Traffic Safety Administration in 49 CFR part 571.

Date: _____

Recipient Authorized Signature: _____

Print Name: _____

Title : _____

PRE-AWARD PURCHASER'S REQUIREMENTS CERTIFICATION

As required by 49 CFR part 663 – Subpart B, _____ (the recipient) certifies that the vehicles to be purchased, _____ (number and description of vehicles) from , _____ (the manufacturer), are the same product described in the recipient's solicitation specification and that the proposed manufacturer is a responsible manufacturer with the capability to produce vehicles that meet the specifications set forth in the solicitation.

Date : _____

Recipient Authorized Signature: _____

Print Name: _____

Title : _____

CERTIFICATE OF COMPLIANCE WITH BUY AMERICA ROLLING STOCK REQUIREMENTS

The bidder or offeror hereby certifies that it will comply with the requirements of 49 U.S.C. 5323(j), and the applicable regulations in 49 CFR § 661.11

Date : _____

Signature: _____

Company : _____

Print Name: _____

Title : _____

CERTIFICATE OF NON-COMPLIANCE WITH BUY AMERICA ROLLING STOCK REQUIREMENTS

The bidder or offeror hereby certifies that it cannot comply with the requirements of 49 U.S.C. 5323(j) but may qualify for an exemption to the requirement consistent with 49 U.S.C. 5323(j)(2), as amended, and the applicable regulations in 49 CFR § 661.7.

Date : _____

Signature: _____

Company: _____

Print Name: _____

Title : _____

ON-SITE MANUFACTURER INSPECTION COMPLIANCE CERTIFICATION

(Post-Delivery purchaser's requirement, in compliance with the federal requirements of 49 U.S.C. Section 5323(m))

ON-SITE MANUFACTURER INSPECTION COMPLIANCE CERTIFICATION

(Rolling Stock Procurements for more than 10 vehicles for areas >200,000 in population)

As required by 49 CFR Part 663-Subpart C, the

(Recipient's name)

Certifies that a resident inspector,

(Name of inspector)

Was at _____

(the manufacturer's)

manufacturing site during the period of manufacture of the buses,

(description of buses).

The inspector visually inspecting the buses, the _____ (the recipient) has reviewed the inspection documentation, maintains a copy of this report, and certifies that the buses meet the contract specifications.

ON-SITE MANUFACTURER INSPECTION COMPLIANCE CERTIFICATION

(Rolling Stock Procurements for more than 20 vehicles for areas < 200,000 in population)

As required by 49 CFR Part 663-Subpart C, the

(Recipient's name)

Certifies that a resident inspector,

(Name of inspector)

Was at _____

(the manufacturer's)

manufacturing site during the period of manufacture of the buses,

(description of buses).

The inspector visually inspecting the buses, the _____ (the recipient) has reviewed the inspection documentation, maintains a copy of this report, and certifies that the buses meet the contract specifications.

Signature _____ Date ____ / ____ / ____

Title _____

TRANSIT VEHICLE MANUFACTURER (TVM) DBE CERTIFICATION

Pursuant to the provisions of Section 105(f) of the Surface Transportation Assistance Act of 1982, each bidder for this contract must certify that it has complied with the requirements of 49 CFR Part 26.49, regarding the participation of Disadvantaged Business Enterprises (DBE) in FTA assisted procurements of transit vehicles. Absent this certification, properly completed and signed, a bid shall be deemed non-responsive.

Certification:

I hereby certify, for the bidder named below, that it has complied with the provisions of 49 CFR Part 26.49 and that I am duly authorized by said bidder to make this certification.

BIDDER/COMPANY

Name of Bidder/Company _____

Signature of Representative _____

Type or Print Name _____

Title _____ Date ____/____/____

POST-DELIVERY BUY AMERICA CERTIFICATION

(Does not apply to projects fully funded by the Tribal Transportation Program (TTP).)

As required by 49 CFR part 663 – Subpart C, _____ (the recipient) certifies that it is satisfied that the vehicles received, _____ (number and description of vehicles) from _____ (the manufacturer), meet the requirements of 49 U.S.C. 5323(j), as amended. The recipient, or its appointed auditor _____ (the auditor – not the manufacturer or its agent), has reviewed documentation provided by the manufacturer, which lists (1) the actual component and subcomponent parts of the vehicles identified by the manufacturer, country of origin, and cost; and (2) the actual location of the final assembly point for the vehicles, including a description of the activities that took place at the final assembly point and the cost of final assembly.

Date : _____

Recipient Authorized Signature: _____

Print Name: _____

Title : _____

POST-DELIVERY BUY AMERICA CERTIFICATE OF NON-COMPLIANCE

As required by 49 CFR part 663 – Subpart C, _____ (the recipient) certifies that there is a letter from FTA which grants a waiver to the vehicles received, _____ (manufacturer, number and description of vehicles) from the Buy America requirements under 49 U.S.C. 5323(j), as amended.

Date : _____

Recipient Authorized Signature: _____

Print Name: _____

Title : _____

POST-DELIVERY FMVSS COMPLIANCE CERTIFICATION

As required by 49 CFR part 663 – Subpart D, _____ (the recipient) certifies that it received, at the post-delivery stage, a copy of _____'s the (manufacturer) self-certification information stating that the vehicles, _____ (number and description of vehicles), comply with the relevant Federal Motor Vehicle Safety Standards issued by the National Highway Traffic Safety Administration in 49 CFR part 571.

Date : _____

Recipient Authorized Signature: _____

Print Name: _____

Title : _____

POST-DELIVERY CERTIFICATION OF FMVSS INAPPLICABILITY

As required by 49 CFR part 663 – Subpart D, _____ (the recipient) certifies that it received at the pre-award stage, a statement from , _____'s (the manufacturer) indicating that the vehicles _____(number and description of vehicles), are not subject to the Federal Motor Vehicle Safety Standards issued by the National Highway Traffic Safety Administration in 49 CFR part 571.

Date : _____

Recipient Authorized Signature: _____

Print Name: _____

Title : _____

POST-DELIVERY PURCHASER'S REQUIREMENTS CERTIFICATION

As required by 49 CFR part 663 – Subpart C, _____ (the recipient) certifies that a resident inspector, _____ (the resident inspector – not an agent or employee of the manufacturer), was at _____ 's (the manufacturer), manufacturing site during the period of manufacture of the vehicles, _____ (number and description of the vehicles). The inspector monitored manufacturing and completed a report on the manufacture of the vehicles and provided accurate records of all vehicle construction activities. The report addresses how the construction and operation of the vehicles fulfill the contract specifications. After reviewing the report, visually inspecting the vehicles, and performance testing the vehicles, the recipient certifies that the vehicles meet the contract specifications.

Date : _____

Recipient Authorized Signature: _____

Print Name: _____

Title : _____

POST-DELIVERY PURCHASER'S REQUIREMENTS CERTIFICATION

As required by 49 CFR part 663 – Subpart C, after visually inspecting and road testing the contract vehicles, _____ (the recipient) certifies that the vehicles, _____ (number and description of vehicles) from _____ (the manufacturer), meet the contract specifications.

Date : _____

Recipient Authorized Signature: _____

Print Name: _____

Title : _____