

DETAIL 2-4D
OVERBOARD DISCHARGE
NO SCALE

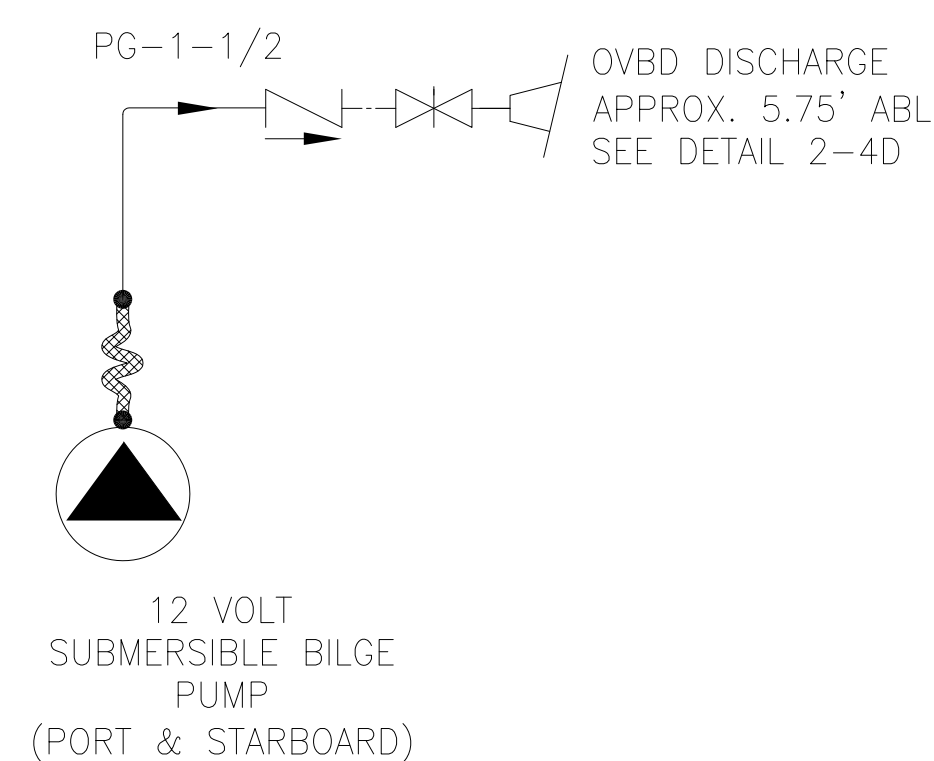
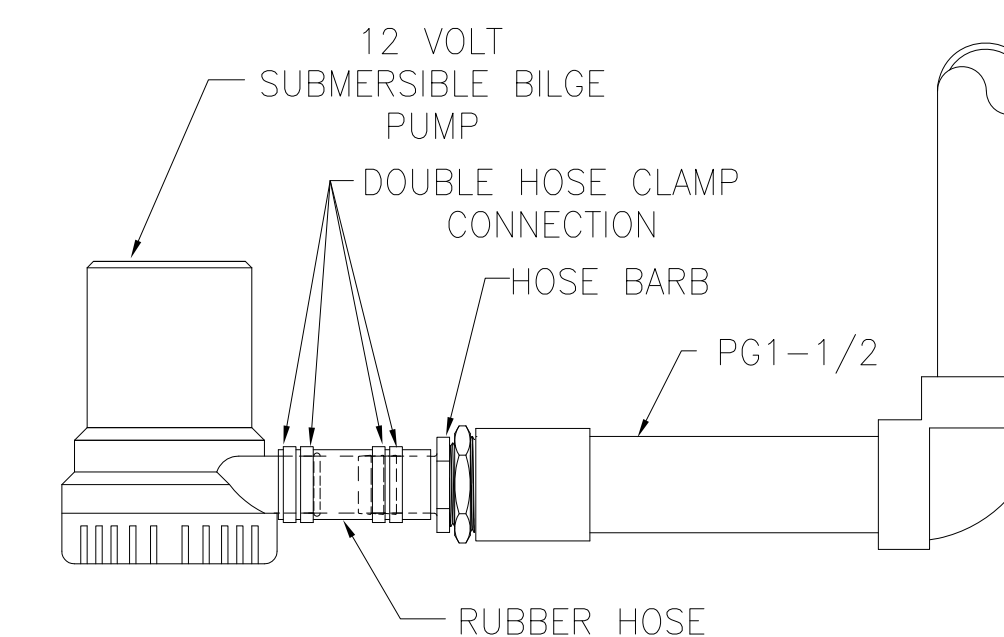
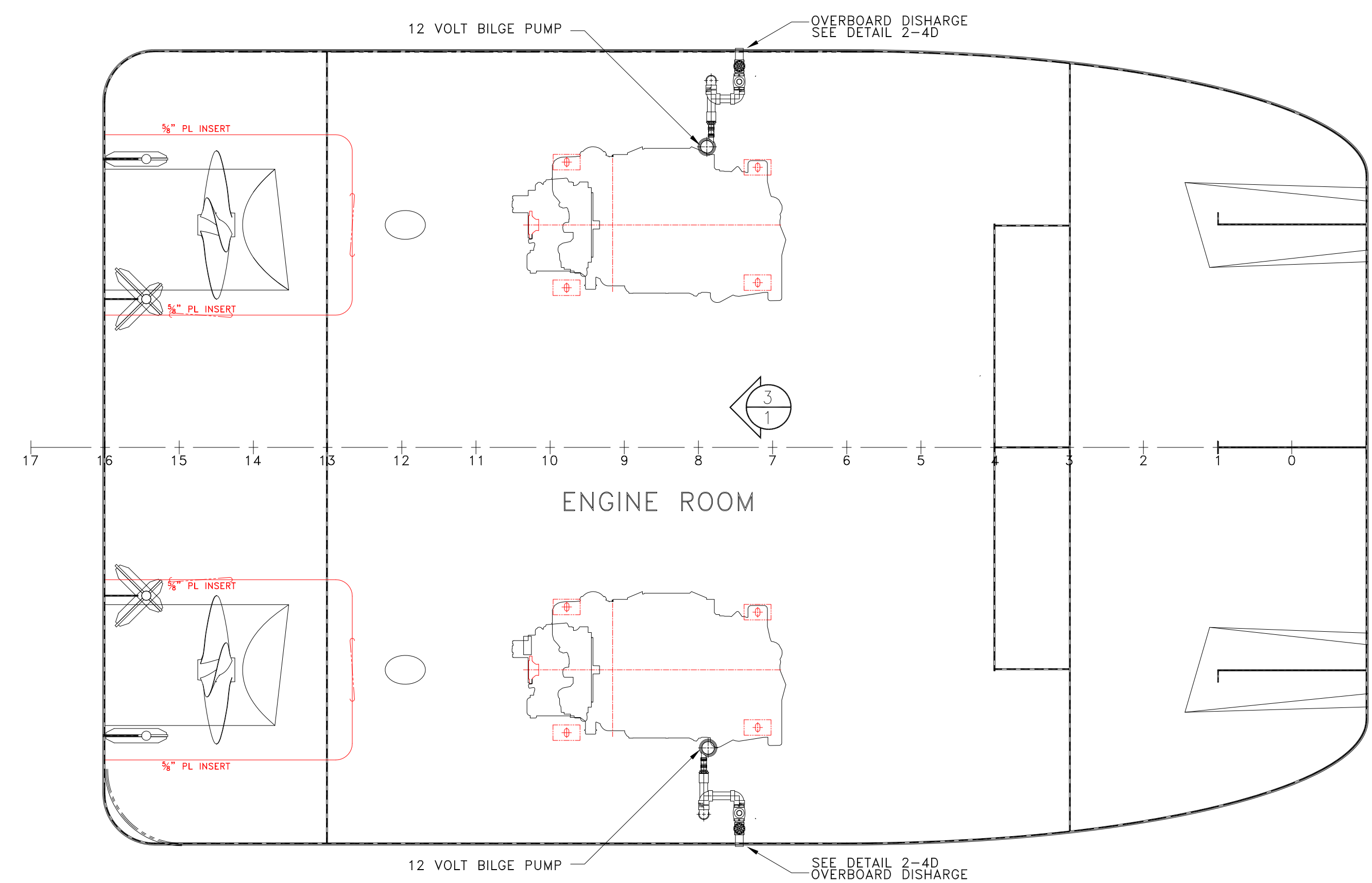


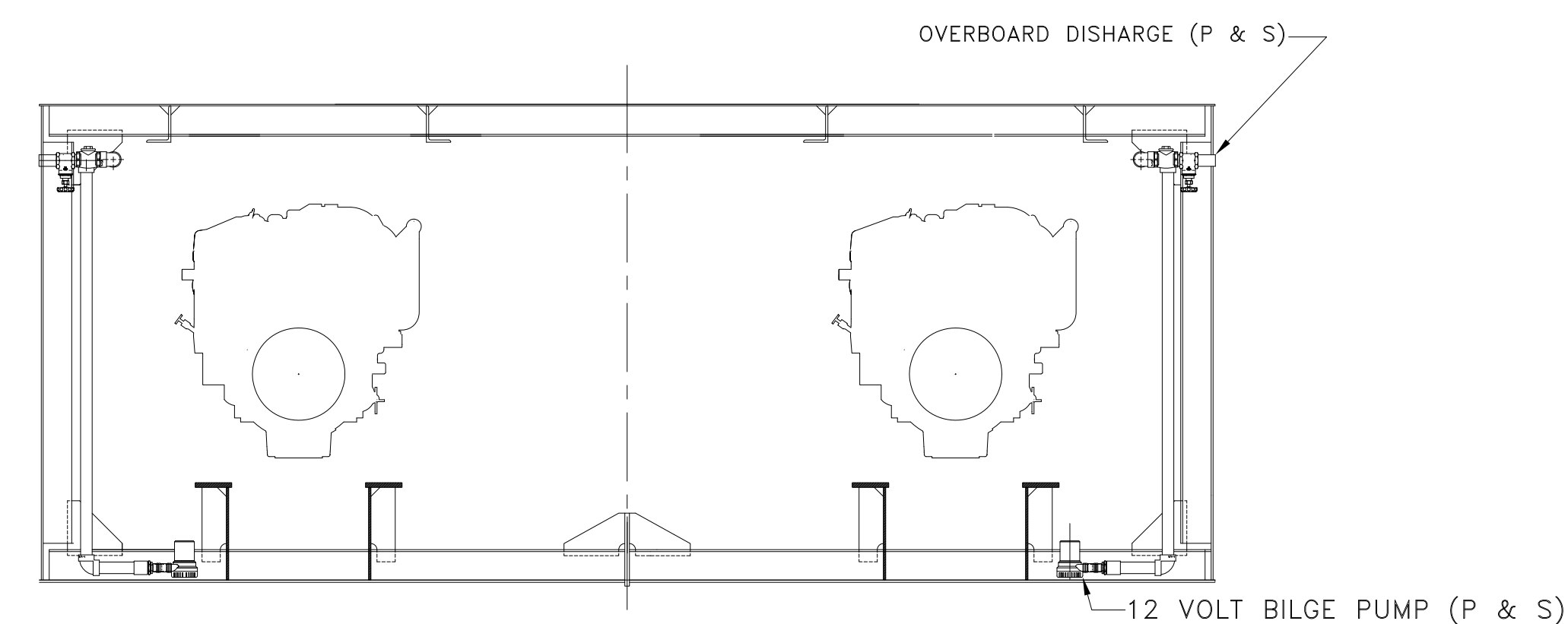
DIAGRAM 2-1A
BILGE SYSTEM PIPING SCHEMATIC



DETAIL 2-1E
12 VOLT PUMP CONNECTION
NO SCALE



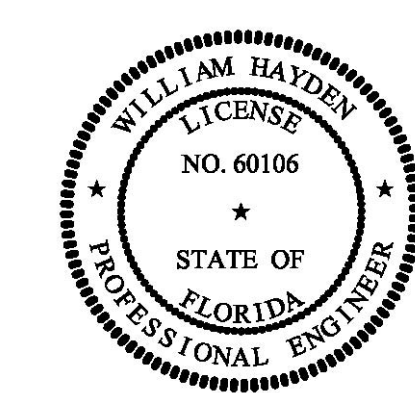
HOLD



1 12 VOLT BILGE PUMP PIPING
SCALE: 1/2" = 1'-0"

GENERAL NOTES

NO.	DESCRIPTION
1.	MATERIAL AND WORKMANSHIP SHALL CONFORM TO U.S. COAST GUARD REQUIREMENTS FOR SUBCHAPTER "M" VESSELS.
2.	THIS DRAWING IS DIAGRAMMATIC AND DOES NOT REPRESENT A COMPLETE DETAILED DESIGN. THE CONTRACTOR SHALL DEVELOP A DETAILED DESIGN THAT PROVIDES A FULLY FUNCTIONAL ARRANGEMENT SUITABLE FOR INSTALLATION, TAKING INTO ACCOUNT ALL FROM THE SHIP AND NECESSARY SYSTEM INTERFACES AND INTERFERENCES. DIMENSIONS SHALL BE VERIFIED MANUFACTURERS' CERTIFIED DRAWINGS AS APPROPRIATE.
3.	PIPING SHALL BE RUN AS DIRECTLY AS PRACTICABLE WITH A MINIMUM NUMBER OF BENDS AND FITTINGS AND WITH SUFFICIENT TAKE DOWN JOINTS TO PROVIDE FOR REMOVAL, INSPECTION, SERVICING AND REPLACEMENT OF EQUIPMENT.
4.	AVOID POCKETS IN THE PIPE LINES. BOSSES AND VALVES OR SCREWED PLUGS SHALL BE FITTED TO ENABLE COMPLETE DRAINING OF PIPES WHERE POCKETS DO OCCUR.
5.	PIPING SHALL BE ADEQUATELY SUPPORTED BY HANGERS IN ACCORDANCE WITH ASTM F708. HANGERS SHALL BE ATTACHED TO THE PIPE WITH BOLTED CLAMPS AND WELDED TO THE BASIC SHIP STRUCTURE. HANGERS SHALL NOT BE ATTACHED BY WELDING DIRECTLY TO PIPES.
6.	BOTH PUMPS SHALL BE CAPABLE OF REMOTE STARTING FROM THE BRIDGE.
7.	PIPING SHALL BE THOROUGHLY CLEANED BEFORE TESTING.
8.	VALVES 1-1/2" AND SMALLER SHALL BE THREADED.



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Title: 25'x16'x6.5' NCDOT PUSHBOAT
BILGE SYSTEM

Dwg. No. **13-1393B-263** Alt. No. 0
 Sht. 2 of 2

Drawn By: JAH Date: JAN 2, 2019
 Checked By: _____ Date: _____
 App'd By: _____ Scale: 1/2" = 1'-0"
 ABS App'l: _____ USCG App'l: _____