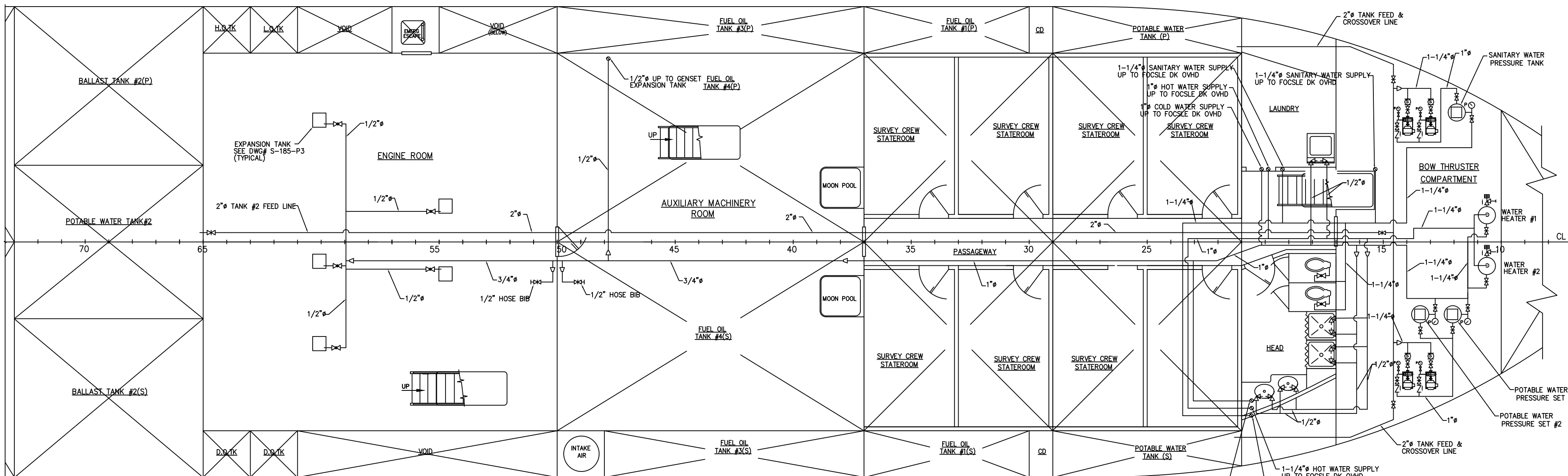


SYMBOL LIST	
SYMBOL	DESCRIPTION
	VALVE, GATE
	VALVE, CHECK
	VALVE, BALL
	VALVE, SHUT-OFF
	VALVE, PRESSURE RELIEF, SET @
	GAUGE, PRESSURE
	PIPE DOWN
	PIPE UP
	REDUCER
	COLD WATER
	HOT WATER
	SANITARY WATER

MATERIAL SCHEDULE										EQUIPMENT LIST						
NO.	SYSTEMS	SIZES	PIPE	VALVES		FITTINGS	TAKE-DOWN JOINTS	ASTM SPEC		GASKETS	EQUIPMENT	QTY	DESCRIPTION	MATERIAL	MFR	REMARKS
				BODIES	TRIM			BOLTS	NUTS							
1	HOT AND COLD POTABLE WATER	1/2" TO 2"	GALV. STEEL SCH. 40 ASTM A-53	BALL, BRZ 150# THD ASTM B-62	BRONZE	GALVANIZED 150#	UNION, GALV.	N/A	N/A	N/A	WATER HEATER	2	50 GAL		A.O.SMITH	MODEL# EEH-52 480V
2	SANITARY WATER	1 1/4"	SCH. 40 BLK STEEL ASTM A-53 GR A OR B	GATE, BRZ 150# THD ASTM B-62	BRONZE	BW, SCH 40 SWEEP, STL ASTM A-234	FLG, BLK STL 150#, FORGED ASTM A 105	A 307	A 307	RF	PRESSURE PUMP	4	1 HP 1.25"X.75"		MC DONALD	MODEL# 8111-HP 460V
				CHECK, BRZ 125# FLG	BRONZE						BLADDER TANK	3	41 GALLONS		CLAYTON MARK	MODEL# CM10050
	STEEL DECK/BHD PIPE PENETRATION	ALL	SCH. 80 GALV/BLK STL ASTM A-53 GR A OR B								MEDIA FILTER	1	WASHABLE ELEMENT		OFFSHORE MARINE LABORATORY	
											UPPER BLADDER TANK	1	5 GALLONS		YARD FAB	SANITARY SUPPLY

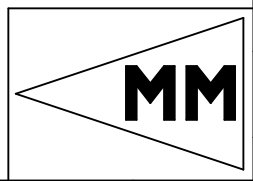


GENERAL NOTES

1. ALL JUMPER LINES BETWEEN SHUT-OFF VALVE AND FAUCET TO BE PVC.
2. ALL LINES TO EXPANSION TANKS, FIXTURES ETC. TO BE 1/2".
3. RELIEF VALVE AT HOT WATER HEATER TO BE SET AT 100 PSI.
4. ALL WELDING, MATERIALS AND COMPONENTS TO BE USCG APPROVED.
5. THIS DRAWING REPRESENTS A DIAGRAMMATIC TYPE SYSTEM DESCRIPTION. DO NOT SCALE. SOME EQUIPMENT AND PIPE RUNS MAY BE SHOWN OUT OF PLACE TO ALLOW ALL SYSTEM COMPONENTS TO BE CLEARLY SHOWN.

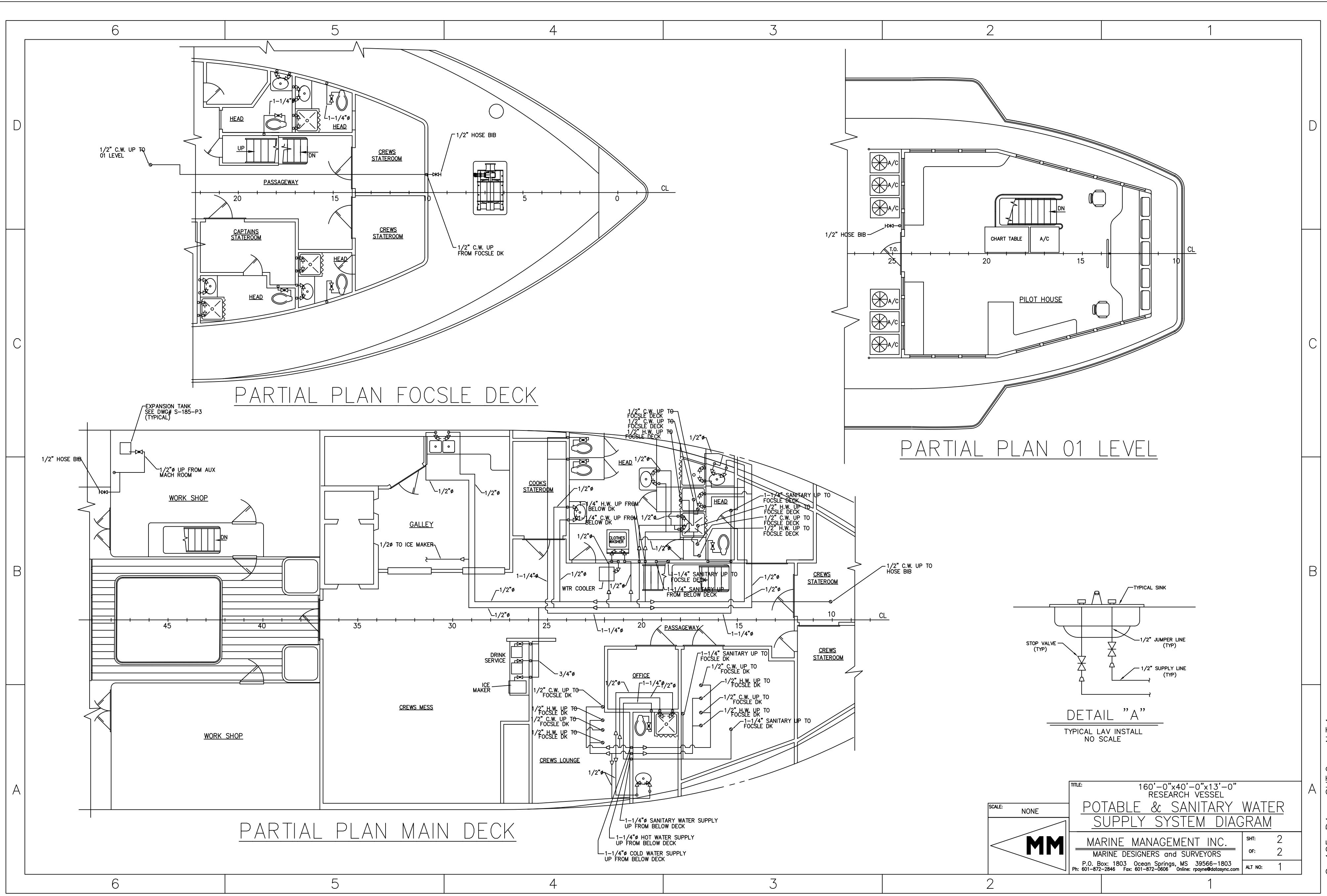
SYSTEM DIAGRAM BELOW MAIN DECK

1	ISSUED FOR CONSTRUCTION	RLP
NO.	ALTERATIONS	BY/DATE
TITLE: 160'-0"x40'-0"x13'-0" RESEARCH VESSEL POTABLE & SANITARY WATER SUPPLY SYSTEM DIAGRAM		
PREPARED FOR: CAMERON OFFSHORE BOATS, INC. CAMERON, LOUISIANA		
MARINE MANAGEMENT INC. MARINE DESIGNERS and SURVEYORS P.O. Box: 1803 Ocean Springs, MS 39566-1803 Ph: 601-872-2846 Fax: 601-872-0606 Online: rpoym@atastary.com		
SH:	1	
OF:	2	
ALT NO:	1	



DRAWN BY:	MGH	DATE:	3/17/99
CHECKED BY:		DATE:	
APPROVED BY:		DATE:	
APPROVED BY:		DATE:	
SCALE:	NONE	CONTRACT NO.:	S-185-32
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DWG. NO.:	S-185-P4		

S-185-P4 ALT.1



PARTIAL PLAN FOCSLE DECK

PARTIAL PLAN 01 LEVEL

PARTIAL PLAN MAIN DECK

DETAIL "A"
TYPICAL LAV INSTALL
NO SCALE

SCALE: NONE	TITLE:	160'-0"x40'-0"x13'-0" RESEARCH VESSEL
		POTABLE & SANITARY WATER SUPPLY SYSTEM DIAGRAM
	MARINE MANAGEMENT INC.	SHT: 2
	MARINE DESIGNERS and SURVEYORS	OF: 2
	P.O. Box: 1803 Ocean Springs, MS 39566-1803 Ph: 601-872-2846 Fax: 601-872-0606 Online: rpoym@satatync.com	ALT NO: 1

S-185-P4 SHT.2 ALT.1