BLGE USCG CLASS II PIPING) ID QT	SIZE 2" AND BELOW		MATERIAL STEEL UNION, AS' A105 MSS-SP-83, CLA 3000	(EDOWN JOINTS		ATERIAL SCH	HEDULE								GENERAL NOTES
IREMAIN AND BILGE USCG CLASS II PIPING)	SIZE 2" AND BELOW 2-1/2" AND	MATERIAL CARBON STEEL, ASTM A53 OR ASTM A106, GR B, SCH 80 ANSI B36.10 SEAMLESS OR	STEEL UNION, AST A105 MSS-SP-83, CLA	(5	1									ULIVELIVAL INUTES
IREMAIN AND BILGE USCG CLASS II PIPING)	2" AND BELOW 2-1/2" AND	CARBON STEEL, ASTM A53 OR ASTM A106, GR B, SCH 80 ANSI B36.10 SEAMLESS OR	STEEL UNION, AST A105 MSS-SP-83, CLA		CACKETC			VALVES		FLEX	FITTINGS	MAX WO	ORKING COND	ITIONS	REMARKS	PIPING SYSTEM DESIGN, MATERIAL, INSTALLATION, TESTING AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH U.S. COAST GUARD
ID QTY	AND [′]	SEAMLESS OR	SOCKET WELD	'	GASKETS	BOLTING N/A	BALL, CHECK: THREADED OR FL STEEL, ASTM A10 GR WCB, ANSI B1 NPT, CLASS 150	.ANGED, 05 OR A216 16.34	TRIM BRONZE, 316 STAINLESS STEEL, OR SAME AS BODY	CONN'S NONE	TYPE & MATERIAL STEEL, ASTM A105 OR A234, GR WPB, ANSI B16.11, CLASS 3000, NPT OR SOCKET WELD	SYSTEM FIREMAIN & BILGE	PRESSURE 60 PSI	TEMP 100 °F	SEE GEN NOTE 6	REQUIREMENTS. 2. THIS DRAWING IS A DIAGRAMMATIC ILLUSTRATION OF A PIPING SYSTEM. PIPING ARRANGEMENTS WITHIN THE VESSEL SHALL BE DEVELOPED BY THE CONTRACTOR. DIAGRAM DATA SHALL BE CONFIRMED BY THE CONTRACTOR BASED ON THE ACTUAL PIPING ARRANGEMENTS AND MANUFACTURER'S CERTIFIED DATA FOR EQUIPMENT SELECTED.
		ERW		R GARLO , EQUAL	OCK 5500 OR	BOLTS: STEEL ASTM A307, ANSI B18.2.1 GR B NUTS: STEEL ASTM A563, ANSI B18.2.2 GR A	BUTTERFLY: FLANGED, WAFER STEEL, ASTM A10 GR WCB, ANSI B1 CLASS 150 MSS-SP-67	OR LUG 05 OR A216	MONEL STEM AND DISK, BUNA-N SEAT, RENEWABLE		STEEL, ASTM A234, GR WPB, ANSI B16.9, AND B16.28, SCH 80, BUTTWELD					3. SYSTEM INSTALLATION SHALL PERMIT CLEAR PASSAGE ALONG WALKWAYS AND LADDERWAYS; CLEAR ACCESS FOR OPERATION AND ROUTINE MAINTENANCE; CLEAR ACCESS TO ALL DOORS, HATCHES AND OPENINGS; AND, AS MUCH AS IS PRACTICABLE, BE FREE OF INTERFERENCE TO THE READY REMOVAL OF EQUIPMENT AND COMPONENTS USING PIPING TAKEDOWN JOINTS.
					EQUIPME	NT LIST (OR E	QUAL)									4. BULKHEAD AND DECK PIPING PENETRATIONS SHALL MAINTAIN THE
E01 01 .	QTY DESCRIPTION CAPACITY/RATING MFR AND PART NO. REMARKS											WATERTIGHT, FUMETIGHT AND FIRE RATING OF THE BOUNDARY PER REGULATORY BODY REQUIREMENTS. REINFORCING PENETRATION SLEEVES SHALL BE FITTED TO MAINTAIN STRUCTURAL INTEGRITY OF				
521-01 1	1 FIRE PU				PM @ 60 PSI		X2C (OR EQUAL)		<u> </u>		AB, SELF-PRIMING					THE BOUNDARY.
521-02 1 521-03 2	1 BILGE F	PUMP X BASKET STRA	JINER 2-1/2"		PM @ 60 PSI PERFORATIONS		X2C (OR EQUAL) 72 (OR EQUAL)				AB, SELF-PRIMING N. MONEL BASKET					5. SYSTEM INSTALLATION SHALL COMPLY WITH THE FOLLOWING ASTM SHIPBUILDING AND MARINE TECHNOLOGY STANDARDS:
521-04 1		MANIFOLD	MIVELY, Z 1/Z		-	LATON MODEL	- (OK EQUAE)		D TO DEVELOP		v, MONEE BASINET					a. RIGID PIPE HANGERS SHALL BE IN ACCORDANCE WITH <u>ASTM F708.</u> EXCEPTION: PARAGRAPH 1.3 IS NOT APPLICABLE.
				STATION	STATIONS							ı				b. INSTRUMENTATION PIPING ASSEMBLIES SHALL BE IN ACCORDANCE WITH ASTM F721. EXCEPTION: INSTALL 1/2-INCH ROOT VALVE
NO LOCAT		HOSE LENGTH (I	, , , , , , , , , , ,	` '	TEDIOD FIDE II	REMARKS	ID I COATION	4								WITH ≤ 4 INCH STAND-OFF.
01 UPPER 02 MAIN D		50 50	1-1/2			HYDRANT, SEE REF 2 FO		1								c. VALVE LABEL PLATES SHALL BE IN ACCORDANCE WITH ASTM F992. INSTALL TYPE 1, GRADE E, CLASS 2, LETTER SIZE 2, PLATE SIZE TO SUIT.
03 MAIN D	DECK	50	1-1/2	" EX	(TERIOR FIRE H	HYDRANT, SEE REF 2 F	OR LOCATION	J								d. SUCTION STRAINER BOXES SHALL BE IN ACCORDANCE WITH <u>ASTM</u> <u>F986</u> . INSTALL TYPE 1 OR 2 TO SUIT ARRANGEMENTS.
																e. OVERBOARD DISCHARGE CONNECTIONS SHALL BE IN ACCORDANCE WITH <u>ASTM F994</u> . INSTALL TYPE IV.
																f. ALL DECK AND WATERTIGHT BULKHEAD PENETRATIONS SHALL HAVE REINFORCING SLEEVES.
																6. ALL RESILIENTLY SEATED VALVES SHALL BE USCG CATEGORY A.
																7. ALL WELDING IS TO BE IN ACCORDANCE WITH USCG.
																8. BILGE LINES PIERCING THE COLLISION BULKHEAD MUST BE FITTED WITH A SCREW-DOWN VALVE LOCATED ON THE FORWARD SIDE OF THE COLLISION BULKHEAD AND OPERABLE FROM THE WEATHER DECK.
																USCG CALCULATION
																46 CFR SUBCHAPTER T, 181.300 (b) 1. "ON A VESSEL OF MORE THAN 19.8 METERS (65 FEET) IN LENGTH, THE MINIMUM CAPACITY OF THE FIRE PUMP MUST BE 189 LITERS (50 GALLONS) PER MINUTE AT A PRESSURE OF NOT LESS THAN 414 kPa (60 PSI) AT THE PUMP OUTLET."
																THE SPECIFIED PUMP HAS AN OUTLET PRESSURE OF AT LEAST 60 PSI AT 50 GPM AT THE PUMP OUTLET.
			PIPING SYN		IST T											
SYMBOL PIPE	E (NEW)	DESCRIPTION		SYMBOL X"_	DIRECTION	DESCRIPTION OF FLOW ARROW WITH F	IPF SIZE									REVISIONS
																ZONE REV DESCRIPTION DATE
	.VE, BALL			B ×	VALVE, BUT											
THRE	REE-WAY BA	ALL VALVE			REDUCER, C	CONCENTRIC										
F001	OT VALVE			H	MANIFOLD, S	STOP CHECK VALVES									FREY M. A	SKAGIT COUNTY PUBLIC WORKS MT VERNON, WASHINGTON
	ERBOARD DI	SCHARGE		H-3	PUMP, CENI	TRIFUGAL					REFEREN(GUEMES ISLAND FERRY REPLACEMENT FIREMAIN AND BILGE CENERAL NOTES LIST OF SYMPOLS AND FOURMENT
GAGE	GE, VACUUM	& PRESSURE,	LOCAL READING	P	GAGE, PRES	SSURE, LOCAL READING			2. GLOS	STEN DWG.	NO. 17097.02-832-01: NO. 17097.02-070-01:	GENERAL A	RRANGEMENT	-	S2278 SSETERS SSIONAL ENGINE	GENERAL NOTES, LIST OF SYMBOLS AND EQUIPMENT GENERAL NOTES, LIST OF SYMBOLS AND EQUIPMENT 1201 WESTERN AVENUE, SUITE 20 SEATTLE, WASHINGTON 89101 T+1 206.624.7860 GLOSTEN.CC
B BASK	SKET STRAIN	NER		\Box	SEACHEST				3. GLOS	STEN DWG.	NO. 17097.02-533-01:	SANITARY A	AND POTABLE	E WATER	·	Drawn ACB JMR Approved MSM B Issue Date 8/19/2020 Scale Drawing Number Sheet of Revisic NO SCALE 17097.02-521-01 1 2 PC

