				FAN LIS	iT		GENERAL NOTES
ID	QTY	DESCRIPTION		CAPACITY/RATING	MFR AND PART NO.	REMARKS	VENTILATION SYSTEM DESIGN, MATERIAL, INSTALLATION, TESTING, AND WORKMANSH     SHALL BE IN ACCORDANCE WITH REGULATORY BODY REQUIREMENTS OF U.S. COAS
510-01	1	INLINE MIXED FLOW FAN, 20"		2500CFM @ 3"SP	GREENHECK, QEI-12 CLASS II (OR EQUAL)	480VAC/3.4A, 2950RPM, 18" HOUSING DIAMETER, 1.9HP	GUARD.
510-02	3	INLINE MIXED FLOW DUCT FAN, 10"		600CFM @ 0.5"SP 500CFM @ 0.8"SP	SOLER & PALAU, TD-250 (OR EQUAL)	120VAC/2.2A, 3200RPM, 10-3/4" HOUSING DIAMETER	2. THIS DRAWING IS A DIAGRAMMATIC ILLUSTRATION OF A VENTILATION SYSTEM. DUG ARRANGEMENTS WITHIN THE VESSEL SHALL BE DEVELOPED BY THE CONTRACTOR. DIAGRAM DATA SHALL BE CONFIRMED BY THE CONTRACTOR BASED ON THESE DUG
510-03	1	INLINE MIXED FLOW DUCT FAN, 8"		450CFM @ 0.25"SP	SOLER & PALAU, TD-200 (OR EQUAL)	120VAC/0.8A, 2800RPM, 8-1/2" HOUSING DIAMETER	ARRANGEMENTS AND MANUFACTURER'S CERTIFIED DATA FOR EQUIPMENT SELECTION
510-04	4	INLINE MIXED FLOW DUCT FAN, 6"		250CFM @ 0.25"SP	SOLER & PALAU, TD-150 (OR EQUAL)	120VAC/0.54A, 2300RPM, 7-7/8" HOUSING DIAMETER	3. DUCTS SHALL BE SIZED TO MAINTAIN FLOW VELOCITIES LESS THAN 2000FPM.  RECTANGULAR OR FLAT OVAL DUCTS WITH PRESSURE DROP EQUAL TO ROUND DU MAY BE SUBSTITUTED PROVIDED THEY DO NOT EXCEED A 3 TO 1 ASPECT RATIO.
510-05	3	INLINE CENTRIFUGAL DUCT FAN, 4"		100CFM @ 0.4"SP	FANTECH, FR100 (OR EQUAL)	120VAC/0.2A, 2900RPM, 9-1/2" HOUSING DIAMETER	4. ALL NUMERICAL AIRFLOW VALUES ARE IN UNITS OF CFM, UNLESS SPECIFIED OTHER
510-06	2	BATTERY EXHAUST CENTRIFUGAL BLOWE	ER, 4"	200CFM @ 1.0"SP	AEROVENT, CABD 08R04 (OR EQUAL)	120VAC, 2411RPM, RADIAL BLADE, EXPLOSION PROOF	5. ALL DUCTS SHALL BE SMOOTH INSIDE WITH NO PROTRUDING EDGES. DUCTS SHAL HAVE RIVETED, WELDED OR HOOKED SEAMS. ALL DUCTS SHALL BE AIRTIGHT WITH
				LOUVER/DEMIS	TER LIST		FLANGED TAKEDOWN CONNECTIONS. TAKEDOWN CONNECTIONS SHALL BE PROVIDED WHERE REQUIRED FOR MAINTENANCE OF THE VENTILATION SYSTEMS AND FOR ACC OTHER VESSEL EQUIPMENT.
ID	QTY	DESCRIPTION		CAPACITY/RATING	MFR AND PART NO.	REMARKS	6. DUCT ACCESS PLATES SHALL BE PROVIDED AS NECESSARY FOR PROPER DUCT
510-07	1	DEMISTER WITH WEATHER TIGHT CLOSUF	RE, 3' X 2'	0.45"SP @ 1250FPM	ZAZZ, MRC (OR EQUAL)	SIZE FOR FACE VELOCITY >1250FPM, CABLE ACTUATED WEATHER TIGHT CLOSURE	MAINTENANCE AND ACCESS TO DAMPERS AND OTHER IN-DUCT EQUIPMENT.  7. BALANCING DAMPERS SHALL BE PROVIDED AS REQUIRED TO BALANCE THE SYSTEM AFTER INSTALLATION.
510-08	1	DEMISTER WITH WEATHER TIGHT CLOSUR	RE, 12" X 18"	0.45"SP @ 1250FPM	ZAZZ, MRC (OR EQUAL)	SIZE FOR FACE VELOCITY >1250FPM, CABLE ACTUATED WEATHER TIGHT CLOSURE	8. PENETRATIONS OF METAL BULKHEADS AND DECKS SHALL BE IN THE FORM OF FLA SPOOL PIECES. THE INTEGRITY OF ALL FIRE, FUMETIGHT, AND WATERTIGHT BOUND
510-09	1	LOUVER WITH WEATHER TIGHT CLOSURE	z, 3' × 3'	0.12"SP @ 600CFM	HALTON, USM-MARINE (OR EQUAL) HALTON, WTH (OR EQUAL)	SIZE FOR FACE VELOCITY <700FPM, SWING DOOR WEATHER TIGHT HATCH	SHALL BE PRESERVED. FIRE BOUNDARIES ARE PROVIDED IN REF 2.  9. ALL VENTILATION OPENINGS TO THE OUTDOORS SHALL BE PROVIDED WITH INSECT SCREENS AND A MEANS OF WEATHER TIGHT CLOSURE.
510–10	4	LOUVER WITH WEATHER TIGHT CLOSURE	I, 12" X 18"	0.12"SP @ 600CFM	HALTON, USM-MARINE (OR EQUAL) HALTON, WTH (OR EQUAL)	SIZE FOR FACE VELOCITY <700FPM, SWING DOOR WEATHER TIGHT HATCH	10. INTAKE AND EXHAUST LOUVERS AND GOOSENECKS SERVING THE MACHINERY SPAC SHALL BE BUILT IN TO VEHICLE DECK BULWARK
510–11	5	LOUVER WITH WEATHER TIGHT CLOSURE	E, 12" X 12"	0.12"SP @ 600CFM	HALTON, USM-MARINE (OR EQUAL) HALTON, WTH (OR EQUAL)	SIZE FOR FACE VELOCITY <700FPM, SWING DOOR WEATHER TIGHT HATCH	11. A TEMPERATURE PROBE SHALL BE PROVIDED TO MONITOR AMBIENT TEMPERATURE BATTERY SPACE.
				HEATER AND AIR CO	NDITIONER LIST		12. A BATTERY EXHAUST FAN SHALL BE PROVED TO VENTILATE GASES AWAY FROM T BATTERY BANK IN THE EVENT OF AN OFF-GASING EVENT. THE SYSTEM SHALL BE
ID	QTY	DESCRIPTION		CAPACITY/RATING	MFR AND PART NO.	REMARKS	ISOLATED FROM THE BATTERY ROOM AND PULL OUTSIDE AIR THROUGH THE BATTE PLENUM AND DISCHARGE OVERBOARD.
10-12	1	AIR CONDITIONER, ROOFTOP		15000 BTU/HR (COOLING) 1.6KW (HEATER)	DOMETIC, DURASEA ROOFTOP (OR EQUAL)	120VAC/15.3A, WITH ELECTRIC HEATER, AIR DISTRIBUTION BOX REQUIRED.	13. BATTERY EXHAUST COAMING HEIGHT SHALL BE >16.5 FT ABOVE BASE LINE. BATTE EXHAUST SHALL DISCHARGE BELOW THE SPONSON.
510-13	2	AIR CONDITIONER, WATER COOLED		72000BTU/HR, 2550CFM	FLAGSHIP MARINE, FM72S (OR EQUAL)	240VAC/27.5A, 15GPM FRESH OR SEA WATER COOLED	14. DIFFERENCES IN SUPPLY AND EXHAUST CFM FOR GENERATOR ROOM ARE DUE TO COMBUSTION AIR OF GENERATOR.      15. GENERATOR FAN 510-01 OPERATES ONLY WHILE THE GENERATOR IS RUNNING.
510–14	1	WINDOW DEFROSTER		1.5KW, 325CFM	DOMETIC, PHD12HV (OR EQUAL)	120VAC/15.4A, 6 DUCTS 3" DIAMETER, PORT, STBD, AND CENTER FOR FORWARD AND AFT WINDOWS.	13. GENERATOR PAIN STO-OF OPERATES ONET WHILE THE GENERATOR IS ROUNNING.
510-15	6	SPACE HEATER, ELECTRIC		2.3KW MAX @ 0.4"SP	KING, PAW2422-W (OR EQUAL)	240VAC/9.4A, VARIABLE WATTAGE, BULKHEAD MOUNTED	
510-16	6	UNIT HEATER, ELECTRIC		5.7KW, 270CFM	KING, KBP2006-3MP (OR EQUAL)	240VAC/9.4A, VARIABLE WATTAGE, BULKHEAD MOUNTED	
		SYMR	OL LIST		$\neg$		
YMROI			OL LIST	DESCRIPTION			
	DIICT	DESCRIPTION	SYMBOL	DESCRIPTION DESCRIPTION			
	DUCT	DESCRIPTION	-	DESCRIPTION  DUCT, SIZE TRANSITION			
		DESCRIPTION	SYMBOL				
	DUCT,	DESCRIPTION	SYMBOL	DUCT, SIZE TRANSITION			
<u> </u>	DUCT,	DESCRIPTION  , UP TO NEXT DECK	SYMBOL DAMPS	DUCT, SIZE TRANSITION  DUCT, DOWN TO NEXT DECK  DUCT GOOSENECK, WITH SCREEN AND BALL			REVISIONS
	DUCT,	DESCRIPTION  UP TO NEXT DECK  UP AND DOWN TO NEXT DECKS	SYMBOL  D	DUCT, SIZE TRANSITION  DUCT, DOWN TO NEXT DECK  DUCT GOOSENECK, WITH SCREEN AND BALL CHECK VALVE			
	DUCT, DUCT, DAMPI REGIS	DESCRIPTION  UP TO NEXT DECK  UP AND DOWN TO NEXT DECKS  ER, FLOW CONTROL  TER, SUPPLY  ER OR DEMISTER, WITH SCREEN AND	SYMBOL  SYMBOL	DUCT, SIZE TRANSITION  DUCT, DOWN TO NEXT DECK  DUCT GOOSENECK, WITH SCREEN AND BALL CHECK VALVE  DAMPER, FIRE  REGISTER, EXHAUST			ZONE REV DESCRIPTION DATE
SYMBOL  O	DUCT, DUCT, DAMPI REGIS	DESCRIPTION  UP TO NEXT DECK  UP AND DOWN TO NEXT DECKS  ER, FLOW CONTROL  TER, SUPPLY	SYMBOL  SYMBOL  A	DUCT, SIZE TRANSITION  DUCT, DOWN TO NEXT DECK  DUCT GOOSENECK, WITH SCREEN AND BALL CHECK VALVE  DAMPER, FIRE			ZONE REV DESCRIPTION DATE  SKAGIT COUNTY PUBLIC WORKS  MT VERNON, WASHINGTON
<ul><li>→</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓</li><li>✓<td>DUCT, DAMPI REGIS LOUVE WEATH</td><td>DESCRIPTION  UP TO NEXT DECK  UP AND DOWN TO NEXT DECKS  ER, FLOW CONTROL  TER, SUPPLY  ER OR DEMISTER, WITH SCREEN AND</td><td>SYMBOL  SYMBOL  A</td><td>DUCT, SIZE TRANSITION  DUCT, DOWN TO NEXT DECK  DUCT GOOSENECK, WITH SCREEN AND BALL CHECK VALVE  DAMPER, FIRE  REGISTER, EXHAUST</td><td></td><td>REFERENCES</td><td>ZONE REV DESCRIPTION DATE  SKAGIT COUNTY PUBLIC WORKS MIT VERNON, WASHINGTON  GUEMES ISLAND FERRY REPLACEME HVAC</td></li></ul>	DUCT, DAMPI REGIS LOUVE WEATH	DESCRIPTION  UP TO NEXT DECK  UP AND DOWN TO NEXT DECKS  ER, FLOW CONTROL  TER, SUPPLY  ER OR DEMISTER, WITH SCREEN AND	SYMBOL  SYMBOL  A	DUCT, SIZE TRANSITION  DUCT, DOWN TO NEXT DECK  DUCT GOOSENECK, WITH SCREEN AND BALL CHECK VALVE  DAMPER, FIRE  REGISTER, EXHAUST		REFERENCES	ZONE REV DESCRIPTION DATE  SKAGIT COUNTY PUBLIC WORKS MIT VERNON, WASHINGTON  GUEMES ISLAND FERRY REPLACEME HVAC
	DUCT, DAMPI REGIS LOUVE WEATH	DESCRIPTION  TO NEXT DECK  TO PROVIDE TO NEXT DECKS  TO PROVIDE TO THE TOTAL TO THE	SYMBOL  SYMBOL  SYMBOL	DUCT, SIZE TRANSITION  DUCT, DOWN TO NEXT DECK  DUCT GOOSENECK, WITH SCREEN AND BALL CHECK VALVE  DAMPER, FIRE  REGISTER, EXHAUST  NATURAL AIR FLOW		REFERENCES  DWG. NO. 17097.02-070-01: GENERAL ARRANGEMENT DWG. NO. 17097.02-635-01: INSULATION SCHEDULE	ZONE REV DESCRIPTION DATE  SKAGIT COUNTY PUBLIC WORKS MT VERNON, WASHINGTON  GUEMES ISLAND FERRY REPLACEME





