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EXISTING EQUIPMENT SCHEDULE

SYMBOL	NAME	MANUFACTURER	MODEL NO.	DESCRIPTION
(X) AP-1	AIR PURGER	ARMSTRONG	370H-1 SERIAL 39577	AUTOMATIC AIR PURGER SERVING CONDENSER EC-1 TO REMAIN AS IS
(X) CPR-1	CONTROL PRESSURE RECEIVER	RVS	24"ø X 138" H RVS #83017 YEAR 1984	VERTICAL CONTROLLED PRESSURE RECEIVER, 24" DIA. X 11'-5" HIGH, RECEIVER IS COMPLETE WITH DUAL RELIEF VALVES. RECIEVER IS FED FROM PILOT RECIEVER (PR-1) VESSEL IS ASME CODED FOR 250 PSIG
(X) EC-1	EVAPORATIVE CONDENSER	IMECO	XLC-220-RHLP SERIAL #2751-1-1H	CENTRIFUGAL EVAPORATIVE CONDENSER MOUNTED ON STEEL FRAME ABOVE EXISTING COMPRESSOR ROOM ROOF. SELECTED AT +95°F C.T. & 78°F WB. RATED AT 1,736.4 MBH THR (144.7 TR CORRECTED) WITH R-717, (1)15 HP FAN MOTOR 460/3/60 VOLT. FAN CIRCULATES 36,600 CFM. WATER FLOW AT 240 GPM. UNIT TO REMAIN AS IS.
(X) IC-1	INTERCOOLER	RVS	24"ø X10'-0" H	EXISTING VERTICAL INTERCOOLER 24" DIA. x 10'-0" HIGH, RATED AT 119 TR AT +20°F SST. FURNISHED WITH HIGH LEVEL FLOAT SWITCH, DUMP FLOAT AND LIQUID LEVEL COLUMN, LEVEL EYES, OIL POT (OP-1). INTERCOOLER PRESENTLY SERVING EXISTING BOOSTER DISCHARGE AND AIR UNITS. UNIT TO REMAIN AS IS.
(RR) IM-1 ALT BID #2	ICE MAKER	-	5 TON	EXISTING 5 TON ICE MAKER TO BE RELOCATED BY RC AS SHOWN ON DRAWINGS. VERIFY FINAL LOCATION WITH OWNER. EXTEND EXISTING AMMONIA LINES TO NEW LOCATION. FIELD VERIFY ALL EXISTING CONTROL VALVE AND REPLACE AS NEEDED. EXTEND EXISTING CONTROL WIRING AS REQUIRED. VERIFY FINAL CONTROL PANEL LOCATION WITH OWNER IN FIELD.
(RR) IM-2 ALT BID #2	ICE MAKER	-	5 TON	EXISTING 5 TON ICE MAKER TO BE RELOCATED BY RC AS SHOWN ON DRAWINGS. VERIFY FINAL ICE MAKER LOCATION WITH OWNER. RC TO PIPE TO MAINS ON ROOF. SUPPLY NEW CONTROL VALVES. NEW WATER PIPING (BY OTHERS). RC TO RELOCATE CONTROL PANEL AND CONTROL WIRING. VERIFY FINAL PANEL LOCATION IN FIELD WITH OWNER.
(X) JWP-1	JACKET WATER PUMP	GOULD	3642 INDEX 16F10334 1 3/4" x 1.0" 3 9/16" DIA IMPELLER	CLOSED COUPLED. SINGLE STAGE JACKET WATER PUMP. PUMP HAS A 1/3 HP. 3450 RPM. 460/3/60 VOLT, BALL BEARING. OPEN DRIP PROOF MOTOR.
(X) OP-1	OIL POT	-	6"DIA. X 30" LONG	6" DIA. X 30" LONG OIL POT, WITH LIQUID INLET, EQUALIZER 1" OIL DRAIN AND 250 PSI RELIEF VALVE INSTALLED ON IC-1. ASME CODED 250 PSIG. UNIT TO REMAIN AS IS.
(X) OP-2	OIL POT	-	6"DIA. X 30" LONG	6" DIA. X 30" LONG OIL POT, LIQUID INLET, EQUALIZER 1" OIL DRAIN AND 250 PSI RELIEF VALVE. INSTALLED ON ST-1. ASME CODED 250 PSIG. UNIT TO REMAIN AS IS.
(X) OS-1	OIL SEPERATOR	-	-	EXISTING VERTICAL OIL SEPERATOR SERVING RC-1. UNIT TO REMAIN AS IS.
(X) OS-2	OIL SEPERATOR	-	-	EXISTING VERTICAL OIL SEPERATOR SERVING RC-2. UNIT TO REMAIN AS IS.
(X) OS-3	OIL SEPERATOR	-	-	EXISTING VERTICAL OIL SEPERATOR SERVING RCB-1. UNIT TO REMAIN AS IS.
(X) OS-4	OIL SEPERATOR	-	-	EXISTING VERTICAL OIL SEPERATOR SERVING RCB-2. UNIT TO REMAIN AS IS.
(X) PR-1	PILOT RECEIVER	RVS	20" DIA. X 5'-0" H RVS #83016 YEAR 1984	24" DIA. X 5'-0" HIGH VERTICAL PILOT RECEIVER, WITH SIGHT COLUMN AND (3) LEVEL EYES, TRANSFER LEVEL FLOAT ASSEMBLY, DUAL RELIEF VALVES, ASME CODED 250 PSIG. RECEIVER SUPPLIES CPR-1 WITH LIQUID UNIT TO REMAIN AS IS.
(X) RC-1	HIGH STAGE RECIP. COMPRESSOR	MYCOM	N4WB	BELT DRIVEN RECIPROCATING COMPRESSOR, 850 RPM RATED AT 52.7 TR AT 66.7 BHP SELECTED AT +20°F SST AND +95°F DT, 75 HP, 1780 RPM, 460/3/60 VOLT MOTOR. 100% CAPACITY UNLOADING. JACKET WATER COOLING.
(X) RC-2	HIGH STAGE RECIP. COMPRESSOR	MYCOM		BELT DRIVEN RECIPROCATING COMPRESSOR, 850 RPM RATED AT 52.7 TR AT 66.7 BHP SELECTED AT +20°F SST AND +95°F DT, 75 HP, 1780 RPM, 460/3/60 VOLT MOTOR. 100% CAPACITY UNLOADING JACKET WATER COOLING
(X) RCB-1	BOOSTER RECIP. COMPRESSOR	MYCOM	N-6-B N4B	BELT DRIVEN RECIPROCATING COMPRESSOR, 975 RPM RATED AT 28.7 TR AT 35 BHP SELECTED AT -28°F SST AND +20°F DT, 40 HP, 1765 RPM, 460/3/60 VOLT MOTOR.100% UNLOADING. JACKET WATER COOLING. UNIT TO REMAIN AS IS.
(X) RCB-2	BOOSTER RECIP. COMPRESSOR	MYCOM	N-6-B	BELT DRIVEN RECIPROCATING COMPRESSOR, 975 RPM RATED AT 28.7 TR AT 35 BHP SELECTED AT -28°F SST AND +20°F DT, 40 HP, 1765 RPM, 460/3/60 VOLT MOTOR.100% UNLOADING. JACKET WATER COOLING. UNIT TO REMAIN AS IS.
(X) SA-1	SUCTION ACCUMULATOR -28°F	RVS	24" DIA. X 8'-0"H	24" DIA. X 8'-0" HIGH VERTICAL SUCTION ACCUMULATOR TO OPERATE AT -20°F SST. RATED AT 65 TR. WITH SIGHT COLUMN, HIGH LEVEL FLOAT ASSEMBLY AND DUAL RELIEFS. ASME CODED 150 PSIG. UNIT TO REMAIN AS IS
(X) TS-1	TRANSFER SYSTEM +20°F	RVS	24" DIA. X 3'-0"L RVS #83005 YEAR 1988	24" DIA. X 38'-0" LONG HORIZONTAL LIQUID TRANSFER VESSEL COMPLETE WITH HAND VALVES, CHECK VALVES, FLOAT SWITCH, DUAL RELIEF VALVE. ASME CODED FOR 250 PSIG UNIT SERVES -20°F SUCTION ACCUMULATOR (SA-1) AND INTERCOOLER (IC-1). RC TO PIPE NEW SUCTION ACCUMULATOR (SA-2) TO TRANSFER SYSTEM.
(X) WP-1 (X) WP-2	WATER PUMP CONDENSER	GOULD	3656 2 1/2" x 3" 7" DIA IMPELLAR	CLOSED COUPLED . BRONZE FITTED, END SUCTION SINGLE STAGE CENTRIFUGAL WATER PUMPS PUMP CLOSED COUPLED TO A 7 1/2 HP, 1750 RPM, 460/3/60 VOLT, TEFC MOTOR PUMPS TO REMAIN AS IS.
(X) WS-1	WATER SUMP	CUSTOM	4'-0"L X 3'-0"W X 6'-0" H	EXISTING 4'-0"L X 3'-0"W X 6'-0" H WATER SUMP. 24" OPERATING LEVEL SUMP TO REMAIN AS IS.

NEW EQUIPMENT SCHEDULE

SYMBOL	NAME	MANUFACTURER	MODEL NO.	DESCRIPTION
(N) RC-3	HIGH STAGE RECIP. COMPRESSOR	VILTER OR EQUAL	VMC-458XL	NEW BELT DRIVEN RECIPROCATING COMPRESSOR, 1,600 RPM RATED AT 107.5 TR AT 122.5 BHP SELECTED AT +20°F SST AND +95°F, 150 HP, 1750 RPM, 460/3/60 VOLT MOTOR, WYE-DELTA STARTER, PREMIUM HIGH EFFICIENCY (95%), 100% CAPACITY UNLOADING, JACKET WATER COOLING. INSTALL AND PIPE AS SHOWN ON DRAWINGS
(N) SA-2	SUCTION ACCUMULATOR +20°F	RVS	104" DIA. X 10'-0" O.A.H.	NEW 48" DIA. X 10'-0" OVERALL HEIGHT VERTICAL SUCTION ACCUMULATOR VESSEL TO OPERATE AT +20°F SST RATED AT 570 TR. FURNISH COMPLETE WITH SIGHT COLUMN, HIGH LEVEL FLOAT ASSEMBLY, DUMP LEVEL FLOAT ASSEMBLY, DUAL RELIEF VALVES, AND BOIL OUT COIL, 6" DRY SUCTION, 8" WET SUCTION. ASME CODED 250 PSIG. PIPE PER DRAWINGS.
(N) OS-5	SUPER OIL SEPERATOR	VILTER	A6800SC	NEW VERTICAL COALESCING SUPER OIL SEPARATOR, 16" DIA. X 43" HIGH, 3" INLET AND 3" OUTLET, SUPPLY WITH FLOAT VALVE KIT, OIL RETURN LINE AND DUAL RELIEF CONNECTION ON VESSEL HEAD. ASME CODED FOR 250 PSIG. SERVES RC-3.
(N) IM-3 ALT BID #2	ICE MAKER	SUPPLIED BY OWNER	10 TON	NEW 10 TON ICE MAKER SUPPLIED BY OWNER FIELD INSTALLED BY RC IN NEW +33°F FRESH FISH COOLER AS SHOWN ON DRAWINGS. RC TO SUSPEND UNIT FROM ROOF STRUCTURAL STEEL. RC TO FIELD INSTALL OWNER SUPPLIED ICE DELIVERY CHUTE. RC TO INSTALL UNIT CONTROL PANEL 5'-0" AFF BELOW UNIT. CONTROL WIRING IRRESPECTIVE OF VOLTAGE BY RC. POWER WIRING BY EC. WATER CONNECTIONS BY OTHERS. VERIFY FINAL LOCATION WITH OWNER IN FIELD.

NEW AMMONIA DETECTOR SCHEDULE

SYMBOL	LOCATION	MANUFACTURER	MODEL NO.	DESCRIPTION
DT-1	AMMONIA DETECTOR	MANNING SYSTEMS INC	C/M-1	AUTOMATIC AMMONIA DETECTION SYSTEM WITH 1 REMOTE SENSOR MOUNTED IN THE COMPRESSOR ROOM. MOUNT PANEL INSIDE OF MECHANICAL ROOM AS SHOWN ON DWG. RT-1. DETECT 0 TO 100 PPM. BARGRAPH CHANNEL CARD FIELD ADJUSTABLE 120/1/60 VOLTS. LOW LEVEL ALARM TO ENERGIZE STROBE SOUND LOCAL ALARM AND ACTIVATE EXHAUST FANS (25 PPM).

ZONE NO.	AREA	SENSOR TYPE	RANGE (PPM)	COMMENTS
1	COMPRESSOR ROOM	ELECTROCHEMICAL	0-100	INTERLOCK W/EXHAUST FAN HIGH SPEED, STROBE LIGHT AND SOUND ALARM. MOUNT SENSOR IN EXHAUST FAN INLET.

EXISTING AND NEW AIR UNIT SCHEDULE

ZONE	SYMBOL	CONDITION	MANUFACTURER	MODEL NO.	RATING-BTU/HR/°TD	ROOM TEMP.	TEMP. DIFF.	TYPE/DEFROST	TYPE/FEED	FINS/INCH	MOTORS/HP	MOTOR VOLTAGE	UNIT LOCATION	SPECIAL DESCIPTION CODES
1	AU-1	EXISTING	KRACK	PCS-2-DX-HGU	-	-5°F	-	HOT GAS UNIT	DIRECT EXPANSION	-	(2)-	460-3-60	EXISTING -5°F FREEZER	M
2	AU-2	EXISTING	KRACK	PCS-2-DX-HGU	-	-5°F	-	HOT GAS UNIT	DIRECT EXPANSION	-	(2)-	460-3-60	EXISTING -5°F FREEZER	M
3	AU-3	RELOCATE EXISTING	KRACK	PCS-2-DX-HGU	-	-5°F	-	HOT GAS UNIT	DIRECT EXPANSION	-	(2)-	460-3-60	EXISTING -5°F FREEZER	L
4	AU-4	EXISTING	KRACK	BTR-36-DXA-A	3,270	+36°F	12.0	AIR	DIRECT EXPANSION	4	(3) 1/2	460-3-60	EXISTING +36°F SCALLOP ROOM	M
5	AU-5	EXISTING	KRACK	BTR-56-DXA-HGU	5,460	+36°F	12.0	HOT GAS UNIT	DIRECT EXPANSION	4	(5) 1/2	460-3-60	EXISTING +36°F CUTTING ROOM	M
6	AU-6	EXISTING	KRACK	BTR-56-DXA-HGU	5,460	+36°F	12.0	HOT GAS UNIT	DIRECT EXPANSION	4	(5) 1/2	460-3-60	EXISTING +36°F STAGING COOLER	M
7	AU-7	EXISTING	KRACK	BTR-58-DXA-HGU	7,500	+36°F	12.0	HOT GAS UNIT	DIRECT EXPANSION	4	(5) 1/2	460-3-60	EXISTING +36°F STAGING COOLER	M
8 ALT BID #4	AU-8 ALT BID #4	RELOCATE EXISTING	KRACK	BTR-58-DXA-HGU	7,500	+36°F	12.0	HOT GAS UNIT	DIRECT EXPANSION	4	(5) 1/2	460-3-60	EXISTING +36°F STAGING COOLER	L
9	AU-9	EXISTING	KRACK	DTX-4S-DX-A-A	-	+36°F	15.0	AIR	DIRECT EXPANSION	-	(4) 1/2	460-3-60	EXISTING +36°F TRUCK DOCK	M
10	AU-10	EXISTING	KRACK	DTX-4S-DX-A-A	-	+36°F	15.0	AIR	DIRECT EXPANSION	-	(4) 1/2	460-3-60	EXISTING +36°F TRUCK DOCK	M
11	AU-11	NEW	KRACK	DTX-3-1025-DXA-HGU	8,570	+33°F	8.4	HOT GAS UNIT	DIRECT EXPANSION	4	(3) 1/2	460-3-60	NEW +33°F FRESH FISH COOLER	A,B,C,D,E,F,G,H,J,K
12	AU-12	NEW	KRACK	DTX-3-1025-DXA-HGU	8,570	+33°F	8.4	HOT GAS UNIT	DIRECT EXPANSION	4	(3) 1/2	460-3-60	NEW +33°F FRESH FISH COOLER	A,B,C,D,E,F,G,H,J,K
13	AU-13	NEW	KRACK	DTX-3-1025-DXA-HGU	8,570	+33°F	8.4	HOT GAS UNIT	DIRECT EXPANSION	4	(3) 1/2	460-3-60	NEW +33°F FRESH FISH COOLER	A,B,C,D,E,F,G,H,J,K
14	AU-14	NEW	KRACK	DTX-3-1025-DXA-HGU	8,570	+33°F	8.4	HOT GAS UNIT	DIRECT EXPANSION	4	(3) 1/2	460-3-60	NEW +33°F FRESH FISH COOLER	A,B,C,D,E,F,G,H,J,K
15 ALT BID #1	AU-15 ALT BID #1	NEW	KRACK	DTX-2-680-DXA-HGU	5,710	+36°F	15.7	AIR	DIRECT EXPANSION	4	(2) 1/2	460-3-60	NEW +36°F TRUCK DOCK	A,B,C,D,E,F,G,H,J,K
16 ALT BID #1	AU-16 ALT BID #1	NEW	KRACK	DTX-2-680-DXA-HGU	5,710	+36°F	15.7	AIR	DIRECT EXPANSION	4	(2) 1/2	460-3-60	NEW +36°F TRUCK DOCK	A,B,C,D,E,F,G,H,J,K

SPECIAL DESCIPTION CODES

A. AIR DEFROST
B. HOT GAS PAN AND COIL. PROVIDE PAN TO COIL CHECK VALVE
C. DIRECT EXPANSION AMMONIA
D. GALVANIZED STEEL COIL
E. GALVANIZED STEEL HOUSING
F. UNIT TO BE SUITABLE FOR OZONATED WATER WASHDOWN
G. MOTORS PREWIRED TO COMMON JUNCTION BOX
H. NEMA 4X. ELECTRICAL JUNCTION BOX
I. FACE VELOCITY 579 FPM
J. 1140 RPM MOTOR
K. TEAO MOTORS WITHINTERNAL OVERLOAD PROTECTION
L. RELOCATE EXISTING
M. NO CHANGES TO EXISTING

GENERAL NOTES

1. AIR UNIT MANUFACTURER ARE AS NOTED.
2. HOUSE SUCTION TEMPERATURE:
   +20°F FOR COOLERS
   -28°F FOR FREEZERS
3. ALL UNITS TO HAVE INSULATED DRAIN PANS
4. ALL FRACTIONAL HP MOTORS TO HAVE INTERNAL OVERLOAD PROTECTION.
5. ALL MOTORS, 1 HP AND LARGER TO BE HIGH EFFICIENCY WITH 1.15 S.F.

NEW CONTROL VALVE SCHEDULE

MARK	DIAGRAM	SERVICE	LOCATION	PORT SIZE	MFG./MODEL NO.	REMARKS
1	NORMALLY OPEN / NORMALLY CLOSED	HAND SHUT OFF GLOBE VALVE	SEE DRAWINGS	LINE SIZE	BY R.C.	USE ANGLE VALVES IN LIEU OF IN-LINE VALVES WHERE POSSIBLE
2	1/2" PO	LIQUID SOLENOID ASSEMBLY W/GREEN PILOT LT & CHECK VALVE	ZONE 11,12,13,14 ALT BID #1 ZONE 15,16	3/16" 1/2"	R/S/S6N R/S/S8F	PROVIDE W/ CHECK VALVE CK-4A (PORT SIZE), INTEGRAL STRAINER (PORT SIZE), QUICK DISCONNECT COIL W/GREEN PILOT LIGHT, 120/1/60 VOLT. PROVIDE 1/2" PO LINE VALVE.
3	1/2" PO	HOT GAS SOLENOID ASSEMBLY W/RED PILOT LIGHT & CHECK VALVE	ZONE 11,12,13,14	1/2"	R/S/S8F	PROVIDE W/PILOT LIGHT 120/1/60 VOLTS. STRAINER (PORT SIZE). PROVIDE WITH 1/2" PO VALVE.
4		DUAL BACK PRESSURE REGULATOR	ZONE 11,12,13,14	3/4"	R/S A4AD PROVIDE S6N PILOT, RANGE "A"/"A"	FURNISH WITH HAND SHUT-OFF, STRAINER (LINE SIZE) PRESSURE GAUGE, PILOT SOLENOID, 120/1/60 VOLTS. ENERGIZE TO CONTROL SUCTION. DE-ENERGIZE FOR DEFROST. SET TO RELIEVE AT 75 PSIG
5		BACK PRESSURE REGULATOR W/ELECTRIC SHUT-OFF	ALT BID #1 ZONE 15,16	3/4"	R/S / A4AS	FURNISH WITH STRAINER (PORT SIZE) PRESSURE GAUGE, PILOT SOLENOID, 120/1/60 VOLTS. ENERGIZE TO CONTROL SUCTION. DE-ENERGIZE FOR HOT GAS DEFROST.
6	FLEX COUPLING, CLAMP	DRAIN LINE FLEXIBLE COUPLING	ZONE 11,12,13,14 ALT BID #1 ZONE 15,16	LINE SIZE	BY RC	
7		THERMAL EXPANSION VALVE	ZONE 11,12,13,14 ALT BID #1 ZONE 15,16	-	SPORLAN	SIZED BY EQUIPMENT MANUFACTURER
8		DEFROST PAN TO COIL CHECK VALVE	ZONE 11,12,13,14	1" OR LINE SIZE	BY AIR UNIT MANUFACTURER	SHIPPED WITH UNIT, INSTALLED BY MANUFACTURER
9		HOT GAS HAND EXPANSION VALVE	ZONE 1	LINE SIZE	HANSEN	ADJUST TO REGULATE FLOW OF HG TO COILS WITHOUT LINE SHOCK.
10	EXPANSION VALVE, SIGHT GLASS	LIQUID SOLENOID ASSEMBLY	ALT BID #2 IM-2 IM-3	1/2"	R/S / S8F	LIQUID SOLENOID VALVE WITH STRAINER, SHUT-OFF VALVES AND PILOT LIGHT, GREEN, 120/1/60 VOLTS. SIGHT GLASS, LIQUID LEVEL EXPANSION VALVE BY MANUFACTURER
11		LIQUID HAND EXPANSION VALVE	SA-2 (DUMP)	LINE SIZE	HANSEN	ADJUST TO REGULATE FLOW OF LIQUID FROM DUMP WITHOUT LINE SHOCK
12		FLOAT SWITCH	SA-2 (DUMP) SA-2 (HIGH LEVEL)	NO PORT	PHILLIPS OR R/S	120/1/60 VOLT FLOAT SWITCH
13	3/4" OD	LIQUID LEVEL 3" COLUMN W/ BULLSEYES (REFLEX) EVERY 6"	SA-2	60" HIGH	BY RC	PROVIDE FOR DESIGN TEMPERATURE WITH SHUT-OFF VALVES AND OIL DRAIN.
14		LIQUID LEVEL EYE SIGHT GLASS W/REFLEX LENS & FROST SHIELD	SA-2	1" CLEAR	PHILLIPS 1100-P OR 1100L-RN BY EQUIP. MANUF	PROVIDE (6) IN 3" COLUMN FOR HPR/TSP-1 @ 6" O.C. (BY VESSEL MANUFACTURER) PROVIDE (1) IN EACH TSP @ 6'-0" AFF. PROVIDE (1) IN EACH CO DRAIN LEG @ 4'-0" BELOW OUTLET
15	1/2" PO	DUMP SOLENOID VALVE ASSEMBLY W/PLT LT	SA-1	1"	R/S S4A	PROVIDE W/ STRAINER (PORT SIZE), CHECK VALVE CK-4A (PORT SIZE) AND QUICK DISCONNECT COIL W/ INTEGRAL PILOT LIGHT 120/1/60 VOLTS.
16		DUAL RELIEF VALVE 250 PSI	SA-1 OS-5	AS REQ'D BY CODE	HENRY OR EQUAL	VENT TO MAIN RELIEF HEADER AS SHOWN PER CODE. SUPPLY WITH RUPTURE DISC ASSEMBLY AND PRESSURE GAUGE.

NO	DATE	BY	REVISION

CLIENT: STAVIS SEAFOODS, INC
BOSTON, MA

PROJECT: 2003 FACILITY EXPANSION PROGRAM

DRAWING TITLE: EQUIPMENT AND CONTROL VALVE SCHEDULES

PROJECT NO. 02067
DATE 08/08/03
SCALE NONE
DRAWN BY SEP
DRAWING NO. R3.1 COOLER

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