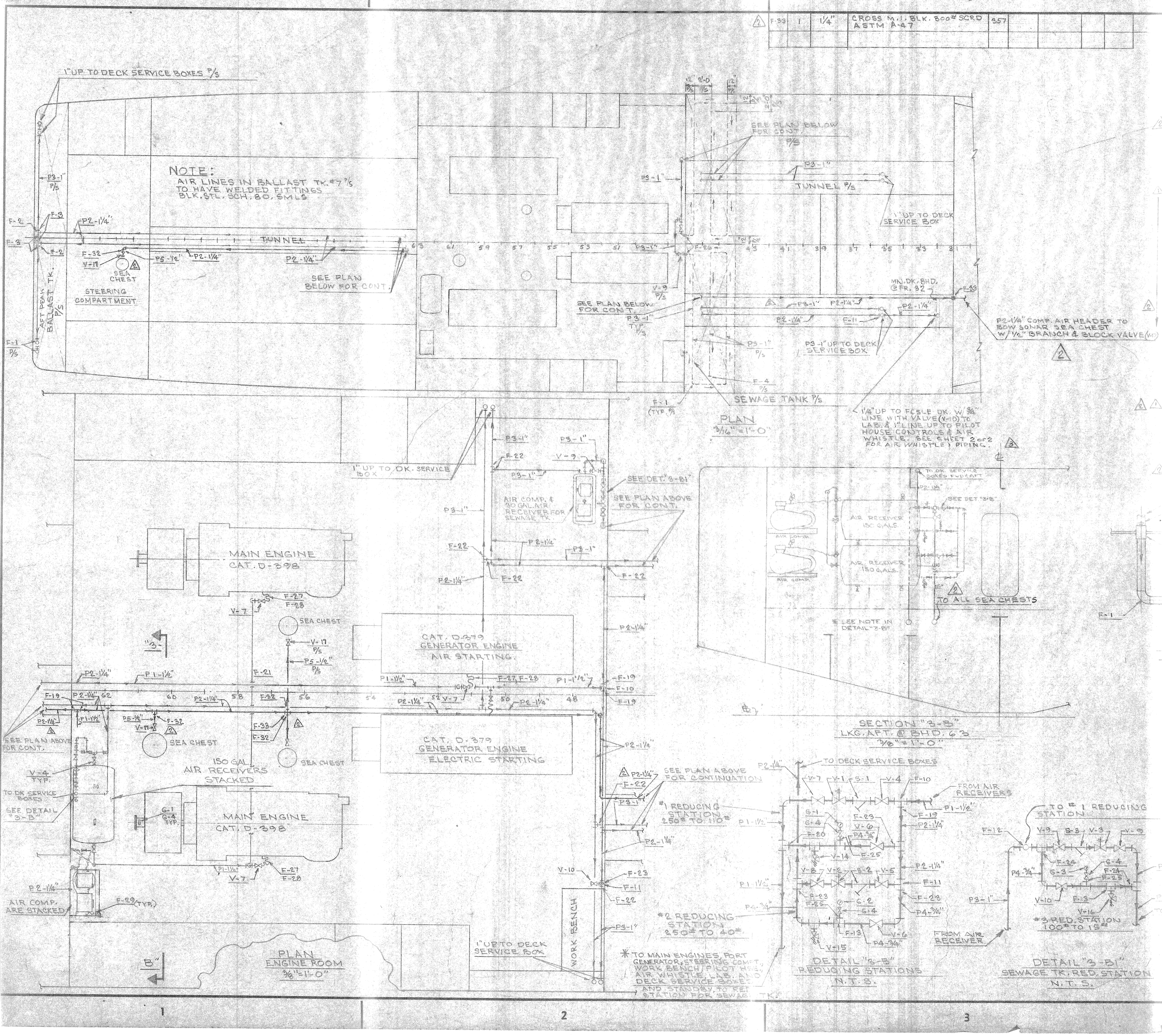

F-33	1	1¼"	CROSS M.I. BLK. 300# SCRD ASTM A-47	357											
F29	2	¾"	FLEX. METAL HOSE, FLEXONICS FCB 075 MMT BRZ.	357											
G-1	3	¼"	PRESSURE GAUGE, ASHCROFT #3½-1010 (0 TO 300#)												
G-2	1	¼"	PRESSURE GAUGE, ASHCROFT #3½-1010 (0 TO 200#)												
G-3	1	¼"	PRESSURE GAUGE, ASHCROFT #3½-1010 (0 TO 100#)												
G-4	5	¼"	GAUGE COCK, ASHCROFT #1092 FEM. BOTH ENDS												
F30	5	¼"	PIPE NIPPLE BLK. STL. CLOSE ASTM A53 GR.B												
F31	1	1½"	CROSS M.I. BLK. 300# SCRD ASTM A-47												
V-1	1	1½"	PRESS. REGULATOR VALVE CASH TYPE "D" (250 TO 110 P.S.I.)	CASHCO											
V-2	1	1¼"	(250 TO 40 P.S.I.)												
V-3	1	1"	(100 TO 15 P.S.I.)												
V-4	3	1½"	GLOBE VAL. 300# SCRD, FORGE STL. CRESTON VOGT #12141 OR EQ.												
V-5	3	1¼"													
V-6	4	¾"													
V-7	5	1½"	GLOBE VAL. 150# SCRD FORGE STL. CRES. TRIM VOGT #1214 OR EQ.												
V-8	1	1½"													
V-9	5	1"													
V-10	3	¾"													
V-12	2	¾"	AIR COMP. CHK. VAL. 300# FORGE STL. CRES. TRIM VOGT #701 OR EQ.												
V-13	2	1¼"	RELIEF VAL. BRZ. SCRD TEASTEAM SERIES 34-90 OR EQ.	(SET @ 275 P.S.I.)											
V-14	1	¾"	(SET @ 125 P.S.I.)												
V-15	1	¾"	(SET @ 50 P.S.I)												
V-16	1	¾"	(SET @ 20 P.S.I.)												
V-17	7	½"	GLOBE VAL. 300# SCRD. FORGE STL. U.B. VOGT #1214 OR EQ.												
S-1	1	1½"	STRAINER "Y" TYPE 250# CRANE #990½ OR EQ. IRON BODY												
S-2	1	1⅛"													
S-3	1	1"	STRAINER "Y" TYPE 125# IRON BODY CRANE #988½ OR EQ.												
F-32	5	1¼" × ½	BUSHING HEX. HD. SCRD. F.S. 3000# ASTM A-181 GR.1												
V-18	2	¾"	RELIEF VAL. BRZ. SCRD TEASTEAM SERIES 34-90 OR EQ.	357 (SET @ 275 P.S.I.)											

FROM RED. STATION

CONT.

BILL OF MATERIAL

PC. NO.	QUAN.	SIZE	DESCRIPTION	COST ITEM	RQ. No.	VENDOR	UNIT PRICE	EXTENSION
P1	120'	1½"	PIPE, BLK. STL. SCH. 80 SMLS ASTM A53 GR.B	357				
P2	295'	1¼"						
P3	330'	1"						
P4	25'	¾"						
P5	30'	½"						
F1	14	1"	90° ELBOW L.R. B.W. BLK. STL. SCH. 80 ASTM A234 GR.B					
F2	2	1¼"	TEE BLK. STL. SCH. 80 B.W. ASTM A234 GR. B					
F3	4	1½" × 1"	CONC. REDUCER BLK. STL. B.W. SCH. 80 ASTM A234 GRB					
F4	2	1"	PIPE CAP B.W. BLK. STL. SCH. 80 ASTM A234 GR. B					
F5	14	1½"	90° ELBOW M.I. BLK. 300# SCRD ASTM A-47					
F6	15	1¼"						
F7	15	1"						
F8	4	¾"						
F9	8	½"						
F10	8	1½"	TEE M.I. BLK. 300# SCRD ASTM A-47					
F11	15	1¼"						
F12	3	1"						
F13	7	¾"						
F14	16	1½"	UNION M.I. BLK. 300# SCRD ASTM A-47					
F15	17	1¼"						
F16	12	1"						
F17	4	¾"						
F18	4	½"						
F19	7	1½" × 1¼"	BUSHING HEX. HD. SCRD F.S. #3000# ASTM A-181 GR. 1					
F20	1	1½" × ¾"						
F21	3	1½" × ½"						
F22	8	1¼" × 1"						
F23	5	1¼" × ¾"						
F24	2	1" × ¾"						
F25	2	¾" × ¼"						
F26	2	1"	COUPLING F.S. SCRD 3000# ASTM A-181 GR. 1					
F27	3	1½"	FLEX. HOSE AEROQUIP No. 2631 -24-24" LG.					
F28	6	1½"	HOSE FITTINGS AEROQUIP No. 412-24-24S					

CONT.

AIR COMPRESSOR (2) QUINCY D-325 AIR COOLED, DRIVEN 57.5 H.P. 3 PHASE 60 CYCLE, 460 VOLT, DRIP-PROOF MARINE MOTOR. 2.50 P.S.I., 2.300 CU. FT. DISPL., 17.50 CU. FT. FREE AIR.
AIR RECEIVER (2) 150 GAL. 250 P.S.I. BUILT BY H.M.S. STD. DWG H-076.
AIR COMP. & 20 GAL. TK. (1) QUINCY H210 AIR COOLED, DRIVEN 5 H.P. 1 PH. 110-120 P.S.I., 9.20 CU. FT. DISPL., 6.20 CU. FT. FREE AIR.

GENERAL NOTES

1. PIPING IN QUARTERS, MESS AND GALLEY PUBLIC SPACES AND NAVIGATING SPACES SHALL BE CONCEALED.
2. ALL PIPING AND VALVES SHALL BE MARKED SHOWING ITS SERVICE AND PARTICULAR LIQUID
3. ALL PIPING SHALL BE COLOR CODED IN ACCORDANCE WITH THE NATIONAL COLOR CODE AND SHALL INDICATE DIRECTION OF FLOW.
4. ALL LABELING SHALL BE EMBOSSED AND ATTACHED WITH SCREWS.

△5.

6. MAIN ENGINES TO START @ 110 P.S.I.
7. GENERATOR ENGINES TO START @ 110 P.S.I.
8. AIR LINES TO DECK SERVICE BOXES TO BE 100 P.S.I. AND 40 P.S.I.
9. EACH OF THE TWO 150 GAL. AIR RECEIVERS TO BE FITTED WITH SAFETY POP VALVES SET AT 10 PER CENT OVER THE OPERATING PRESS.
10. FOR 150 GAL. AIR RECEIVERS SEE STANDARD DWG. H-076.
11. BOTH AIR COMPRESSOR TO BE PROVIDED WITH AUTOMATIC PRESSURE OPERATED CONTROL SWITCHES.
12. ALL PIPES SUBJECT TO MECHANICAL INJURY OR UNDUE VIBRATION SHALL BE ADEQUATELY PROTECTED AND/OR SUPPORTED.

13. PIPING SHALL BE THOROUGHLY CLEANED AFTER INSTALLATION AND BEFORE FUNCTION TESTING.

5	PILLS, VENTS & SOUNDINGS	P-2 SHT. 1 OF 2	
4	AUXILIARY MACHINERY FDN.	S-2.2	
3	SEA CHESTS	S-2.1	
2	DECK ARRANGEMENT & HOLD	A-2	
1	MACHINERY ARRANGEMENT	A-3	
No.	TITLE	DWG. No.	

REFERENCES

SYM	DESCRIPTION	DATE	BY
5	FINAL AS BUILT	1/8/76	
4	AS BUILT	1/2/75	
3	ADDED SHEET No. 2 OF 2 SHOWING AIR WHISTLE - THIS SHEET P-7 USE.	7/14/73	
2	REVISED AIR SYSTEM TO ALL SEA CHESTS FROM 110 P.S.I. TO 250 P.S.I., INCLUDING BOW SONAR SEA CHEST & REV. BILL OF MATL. TO SUIT	5-30-72	
1	REVISED VALVE MATL. FOR V-4 THRU. V-12 & V-17 IN BILL OF MAT'L. DELETED CEN. NO. 73 NT 5	6-20-72	

REVISIONS

NO ☑ 2-16-73

APPROVALS

ABS = 4 △ 5 △

FCC

USCG

USPHS

U.S. NAVAL SHIP SYSTEMS COMMAND
WASHINGTON D.C. 20360

OCEANOGRAPHIC RESEARCH SHIP
AGOR (UTILITY) CLASS

HALTER MARINE SERVICES, INC.
P.O. BOX 29266 NEW ORLEANS, LA. 70129

00040

COMPRESSED AIR PIPING

SCALE:	NOTED	DATE	1-29-73	HALTER DWG. NO.
DRAWN BY:	P.C.B.	CK'D BY	NOWERS	P-7
HALTER HULL NO.	475 / 476	HALTER JOB NO.	2187 / 2188	1 OF 2
NAVSHIPS NO.	AGOR 21-513-001			REV. 4

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