		PIPE	MATERIAL SCHEDUL COMPONENTS			VALVES		BOLTING			
SERVICE	SIZE		TAKEDOWN JOINTS		FLEX CONNECT	GASKETS	BODY	TRIM	BOLTS/STUDS	NUTS/WASHERS	REMARKS
CENTRIFUGAL SEWAG WATER PUMP 2HP@30 PSI	E ALL	BELOW DECK CARBON STEEL GALVANIZED, SCH 40, SEAMLESS, ASTM A53 TYPE S, OR ASTM A106, GRADE B, ANSI B36.10 FIXTURE FEED COPPER TYPE-K TUBING STANDARD WALL	FLANGE #150, SOCKET WELD CARBON STEEL, ASTM A105, ANSI B16.5	BELOW DECK STEEL GALVANIZED THREADED,	HOSE: SEE NOTE 11	GARLOCK STYLE 3000 GATE - ABV DK SW OR THREADED, 3-PIECE S. STEEL, ASTM A351 GR CF8M		BALL CHROME PLATED BALL, RPTFE OR VITON SEATS CHECK CRES DISC	CARBON STEEL ASTM A307 GR B ANSI B18.2.1	HEX-HEAD CARBON STEEL ASTM A563 GR A ANSI B18.2.2	

		EQUIPMEN	NT & PUMP L	IST	
QTY	SERVICE	TYPE	MODEL	CAPACITY	DRIVE
1	SEWAGE OVERBOARD PUMP	CENTRIFUGAL	CROWN P03LA 3'NPT IN/3" NPT OUT	100GPM@60FT HEAD 1750 RPM	5HP TEFC MOTOR 120/208/3P/60Hz

SYMBOLS LIST				
	PIPE			
\triangleright	REDUCER			
	CHECK VALVE			
	BALL VALVE			
L	BALL VALVE, LOCKING			
	CENTRIFUGAL PUMP			
$\dashv \Box$	CAMLOCK			
	DRIP PAN			
	HOSE REEL			
U	SUCTION STRAINER BOX			
+	BULKHEAD PIPE PENETRATION			
P	PRESSURE GAUGE			

		17-1372-4008 GENERATOR COOL	ING PIPING B.O.M.	•
ITEM	QTY	DESCRIPTION	MATERIAL SPEC	REMARKS
1	AS REQ'D	HOSE CLAMP S.S. 2" ROLLED EDGES		DOUBLE CLAMP ALL HOSE CONNECTIONS
2	2	REDFOX TYPE II MSD		REMOTE MOUNTED CONTROL PANEL REQ'D OR EQUAL,
3	4	TOILET WITH SLOAN FLUSH HEAD		OPEN FRONT WHITE SEAT, NO TOP
4	2	DECK PUMPOUT FITTING, GALV, CAM LOCK QUICK COUPLING,		OR EQUAL, VERIFY WITH OWNER
5	AS REQ'D	NO-FIRE, RISE TYPE BHD PENETRATIONS AT A CLASS DECK PENETRATIONS		ROXTEC A CLASS DECK PENETRATIONS MAY BE SUBSITUTED
DWV- #	AS REQ'D	MISC, DWV FITTINGS FOR DRAIN LINES		OR EQUAL
CPVC- #	AS REQ'D	PIPE CPVC, SCH 80	ASTM A-53	FOR APPLIANCE TAIL PIECE CONNECTIONS TO SEWAGE DRAINS
PX-#	AS REQ'D	PIPE BLACK IRON, SCH 80	ASTM A-53	
PXX-#	AS REQ'D	PIPE BLACK IRON, SCH 120	ASTM A-53	
F-	AS REQ'D	MISC STEEL BUTT WELD FITTINGS	ASTM A-234	
H-1	AS REQ'D	SHIELDS CORRUGATED SEWAGE HOSE 1-7/8" ID SMOOTH INSIDE DOUBLE CLAMPED	ASTM J1475	MISC CONNECTIONS TO FIXED PIPING AT MSD TANK OR PUMP
V-1	2	GATE VALVE, BRONZE, 1-1/4"	ASTM B-62	OR EQUAL
V-2	8	GATE VALVE, 3", BRONZE	ASTM B-62	
CV-1	AS REQ'D	BRONZE, 1-1/4"CHECK VALVE, SCH 40, VERTICAL	ASTM B-62	OR EQUAL, ON PUMPOUT LINES FROM GALLEY GREY TANK AND LIBERTY LIFT STATION
CV-2	AS REQ'D	BRONZE, 3"CHECK VALVE, SCH 40, VERTICAL	ASTM B-62	OR EQUAL, ON PUMPOUT LINES FROM GALLEY GREY TANK AND LIBERTY LIFT STATION



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DeJong & Lebet, Inc.

Naval Architects
Marine Engineers
Consultants
Surveyors

Phone: (904) 399-3673
Fax: (904) 399-1522
info@dejongandlebet.com

Title: 70.5'x30'x11' NCDOT TOWBOAT

SEWAGE PIPING

Dwg. No.

17-1372-528

Alt. No. 1
Sht. 1 of 2

Drawn By: CHRISTOPHER DUNCAN
Checked By:
App'd By:
ABS App'l:

USCG App'l:

DNG

ANSI-D (24"x36")

N0.	DESCRIPTION						
1.	MATERIAL AND WORKMANSHIP SHALL CONFORM TO U.S. COAST GUARD REQUIREMENTS FOR SUBCHAPTER "M" VESSELS.						
2.	PIPING SHALL BE RUN AS DIRECTLY AS PRACTICABLE WITH A MINIMUM NUMBER OF BENDS AND FITTINGS. PROVIDE TAKEDOWN JO						
	FOR REMOVAL, INSPECTION, SERVICING, AND REPLACEMENT OF EQUIPMENT. PIPING SHALL BE RUN TO MINIMIZE CUTTING OF THE						
	SHIP'S STRUCTURE.						
3.	WHERE PIPES PENETRATE TANK BOUNDARIES, BULKHEADS, OR DECKS, HEAVY WEIGHT SPOOL PIECES OR REINFORCING PENETRATIC						
	FITTINGS SHALL BE USED. SEE DETAIL 1-4A.						
4.	PIPING SHALL BE SUPPORTED BY HANGERS IN ACCORDANCE WITH ASTM F708.						
5.	DRIP PANS SHALL BE PROVIDED BENEATH ALL PUMPS, STRAINERS, & FILTERS THAT WILL LEAK DURING ROUTINE MAINTENANCE A						
	BE EQUIPPED WITH A LOW POINT DRAIN VALVE.						

- GENERAL NOTES -

