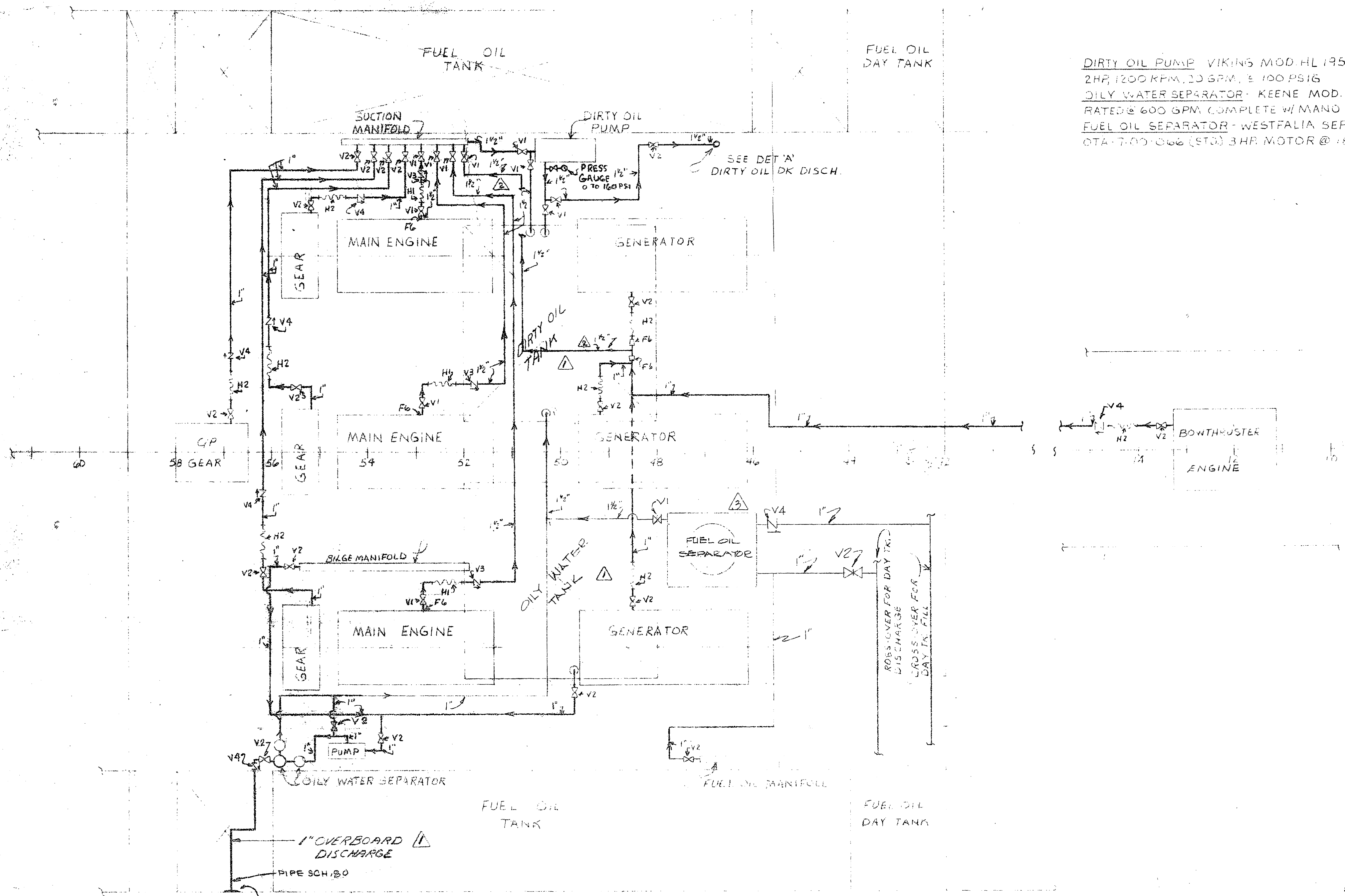


REV. MK	DESCRIPTION	BY	DATE	APPR.
1	REVISED DRAWING PER DALE GEEDES MARKED UP PRINT	T. DG.	8/21/81	P.C.B.
2	DELETED 1" PIPE DROP TO DIRTY OIL TK & REROUTED 1 1/2" PIPE TO DIRTY OIL SUCTION MANIFOLD & REV. B.M. TO SUIT PER HUGH SMITH.	B. A.	OCT. 28 1981	P.C.B.
3	RELOCATED FUEL OIL SEPARATOR AS PER AS-BUILT INSTALLATION.	H. SM.	1/4/82	

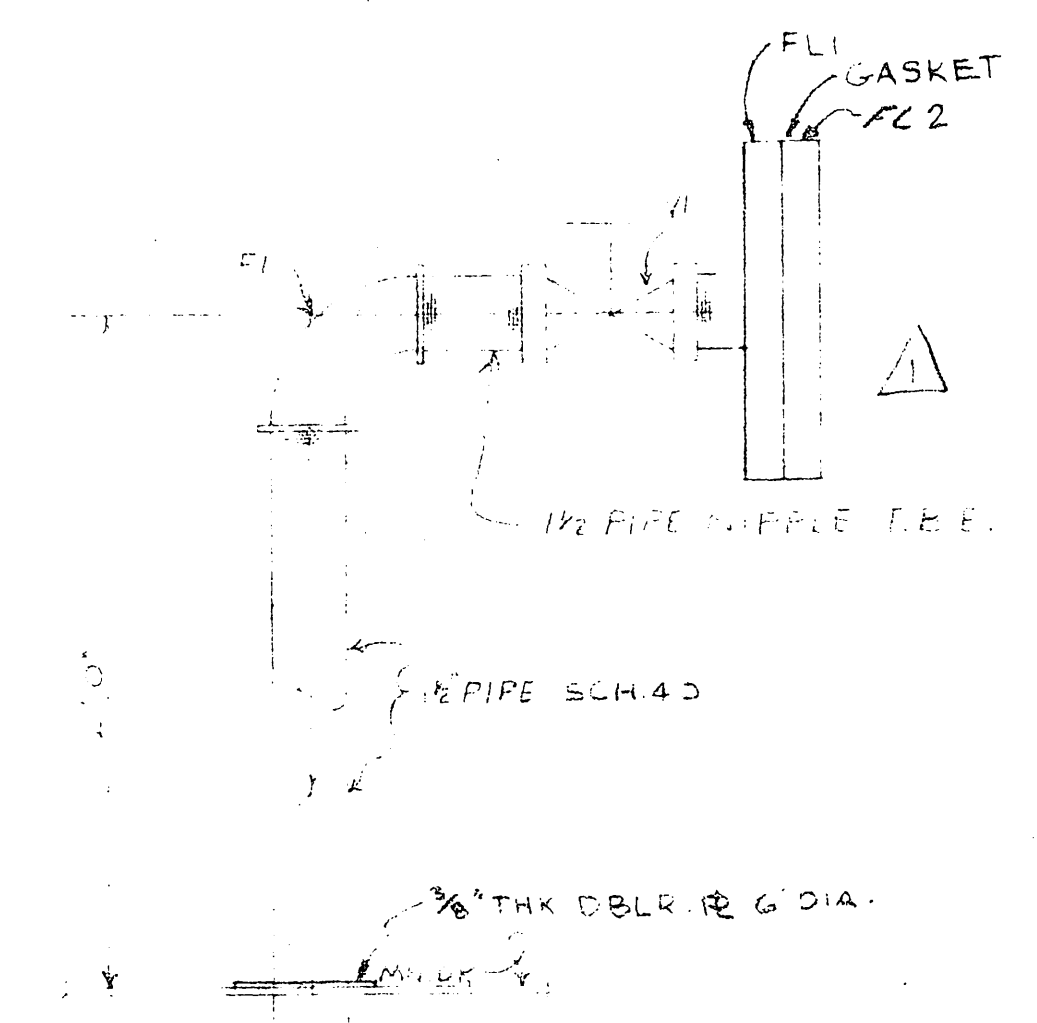
DIRTY OIL PUMP VIKING MOD HL 195D 1/2" X 1/2",  
 2HP, 1200 RPM, 23 GPM, @ 100 PSIG  
 DIRTY WATER SEPARATOR KEENE MOD. 2150  
 RATED @ 600 GPM COMPLETE W/ MANO PUMP  
 FUEL OIL SEPARATOR WESTFALIA SEPARATOR MOD.  
 OTA-T-05-066 (STD) 3HP MOTOR @ 1800 RPM



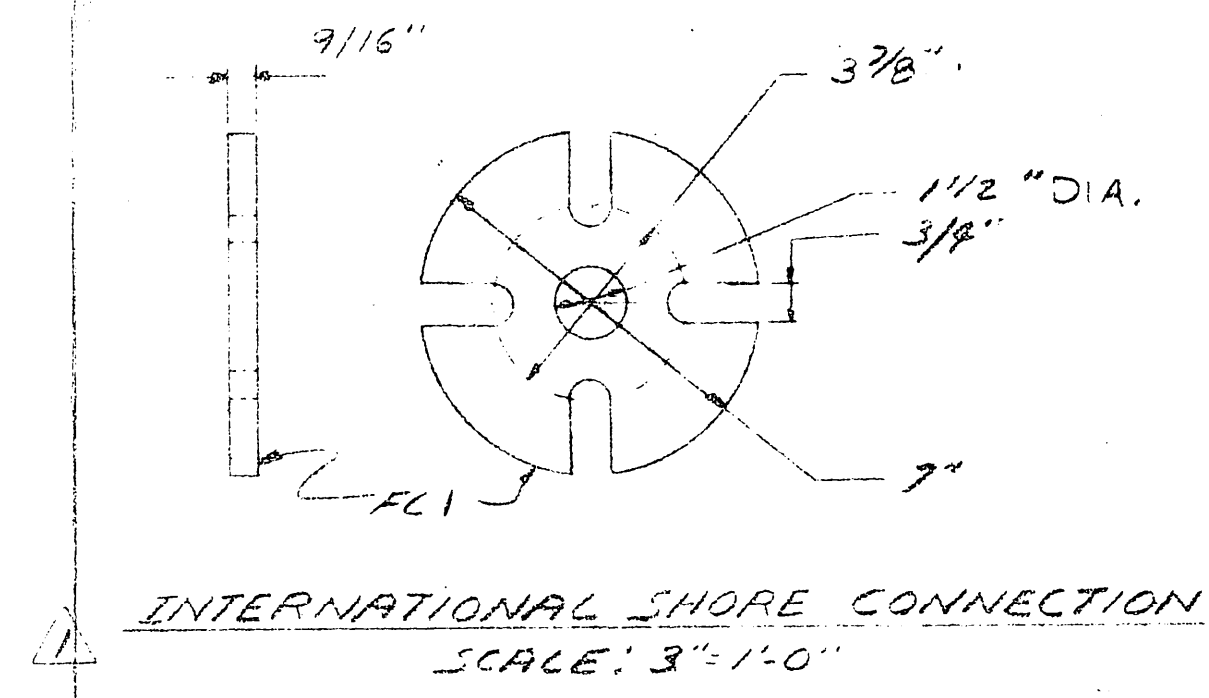
PLAN VIEW  
 SCALE: 3/8"=1'-0"

BILL OF MATERIALS

PC#	QTY	SIZE	DESCRIPTION	MATL.	REMARKS
P1	115'	1/2"	PIPE SCH. 40 SMLS	BLK. STL. ASTM A53 GR. B ANSI B36.10	
P2	250'	1"	PIPE SCH. 40 SMLS	BLK. STL. ASTM A53 GR. B ANSI B36.10	
F1	25	1/2"	ROPE BOWS	SCR'D. 150#	MAT. BLK. ASTM A47 ANSI B16.9 GRINNELL OR EQ.
F2	45	1"	WELDED TEE SCR'D. 150#		
F3	2	1"	WELDED TEE SCR'D. 150#		
F4	3	1"	STRAIGHT TEE SCR'D. 150#		
F5	5	1"	WELDED TEE SCR'D. 150#		
F6	5	1"	BUSHING 3000# SCR'D. HEX. HD. P. STL.	ASTM A105 ANSI B16.11 GRINNELL OR EQ.	
H1	3	1/2"	FLEX HOSE ASSEMBLY 509-24	30" LG. W/ MALE PIPE 4722-24-245.	ASTM A105 ANSI B16.11 GRINNELL OR EQ. SYNTHETIC RUBBER TUBE 2 WIRE BRAID REINFORCEMENT & SYNTHETIC RUBBER COVER, AERQUIP OR EQ.
H2	8	1/2"	FLEX HOSE ASSEMBLY 1504-16	30" LG. W/ MALE PIPE 4722-16-165.	ASTM A105 ANSI B16.11 GRINNELL OR EQ. SYNTHETIC RUBBER TUBE 2 WIRE BRAID REINFORCEMENT & SYNTHETIC RUBBER COVER, AERQUIP OR EQ.
V1	13	1/2"	GATE VALVE 125# RUBING ITEM	UNION BONNET SCR'D.	BRZ. ASTM A105 ANSI B21 CRANE # 431-UB OR EQ.
V2	19	1"	SWING CHECK VALVE 125# SCR'D.		ASTM A105 ANSI B21 CRANE # 41 OR EQ.
V3	3	1/2"	GATE VALVE 125# RUBING ITEM	UNION BONNET SCR'D.	BRZ. ASTM A105 ANSI B21 CRANE # 431-UB OR EQ.
V4	7	1"	SWING CHECK VALVE 125# SCR'D.		ASTM A105 ANSI B21 CRANE # 41 OR EQ.
F7	12	1/2"	UNION 125# SCR'D.		MAT. BLK. ASTM A47 ANSI B16.9 GRINNELL OR EQ.
F8	22	1/2"	UNION 125# SCR'D.		MAT. BLK. ASTM A47 ANSI B16.9 GRINNELL OR EQ.
P3	6	1"	PIPE SCH. 80 SMLS	BLK. STL. ASTM A53 GR. B ANSI B36.10	
F11	1	1"	INTERNATIONAL FLG. (SEE DET. A)		ASTM A105 ANSI B16.5 GRINNELL OR EQ.
FL2	1	2 1/2"	BLIND FLANGE 150#		ASTM A105 ANSI B16.5 GRINNELL OR EQ.



DETAIL A  
 1 1/2" PIPE NIPPLE TEE



INTERNATIONAL SHORE CONNECTION  
 SCALE: 3"=1'-0"

MISSISSIPPI MARINE HULL # 90

**DESIGN ASSOCIATES, INC.**  
 NAVAL ARCHITECTS MARINE ENGINEERS  
 NEW ORLEANS, LA.

THREE WATER VAPOR SERVICE

48' X 60' X 10' RESONANT VESSEL

DIRTY OIL / OIL/WATER SEPARATOR PIPING

Drawn: SAMOND	Date: 4-1-81	Checked: P.C.B.
Traced:	Date:	Checked:
App'd:	Date:	Checked:
Sheet	Of	Drawing No. 20625

GX032