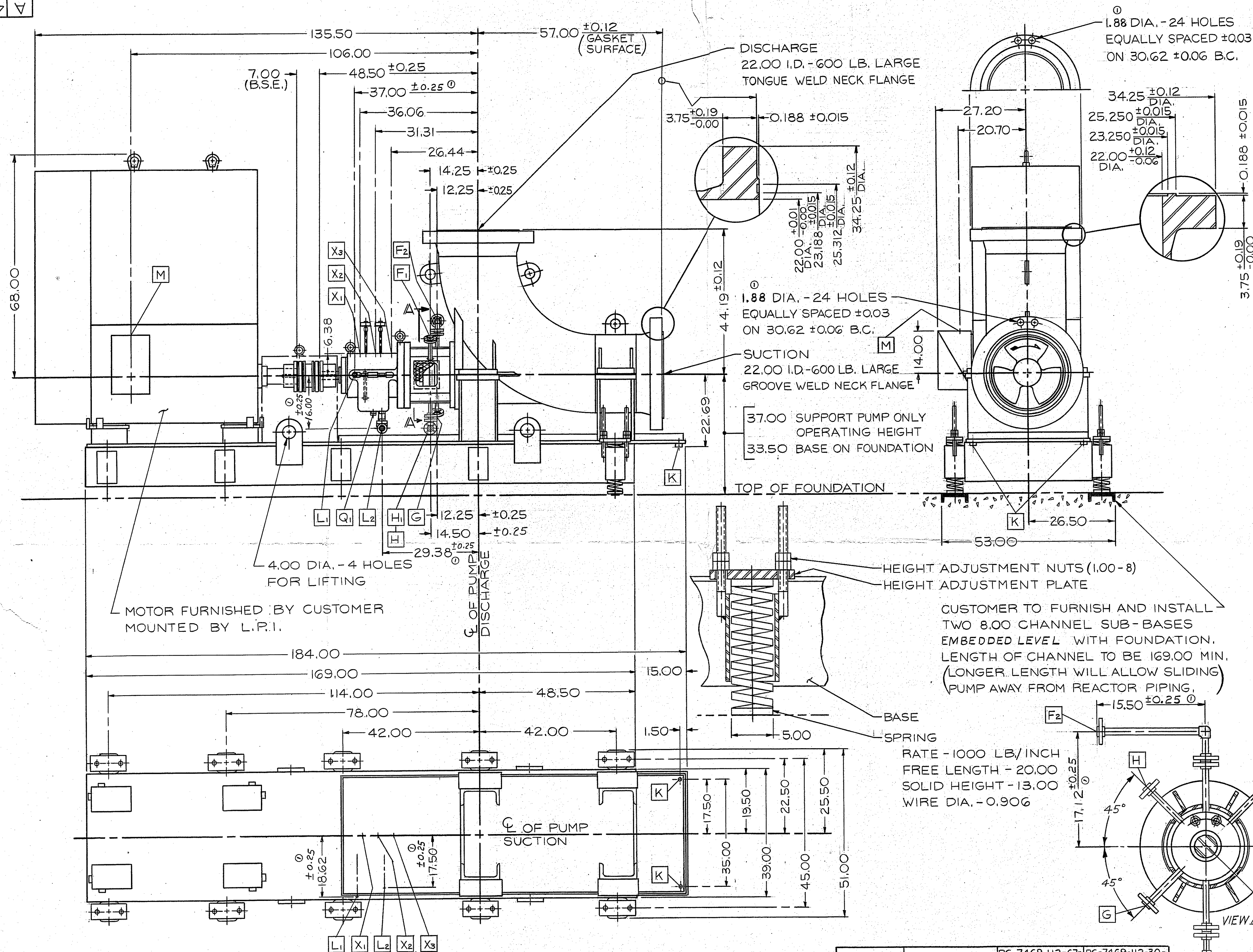




LIST OF CONNECTIONS:

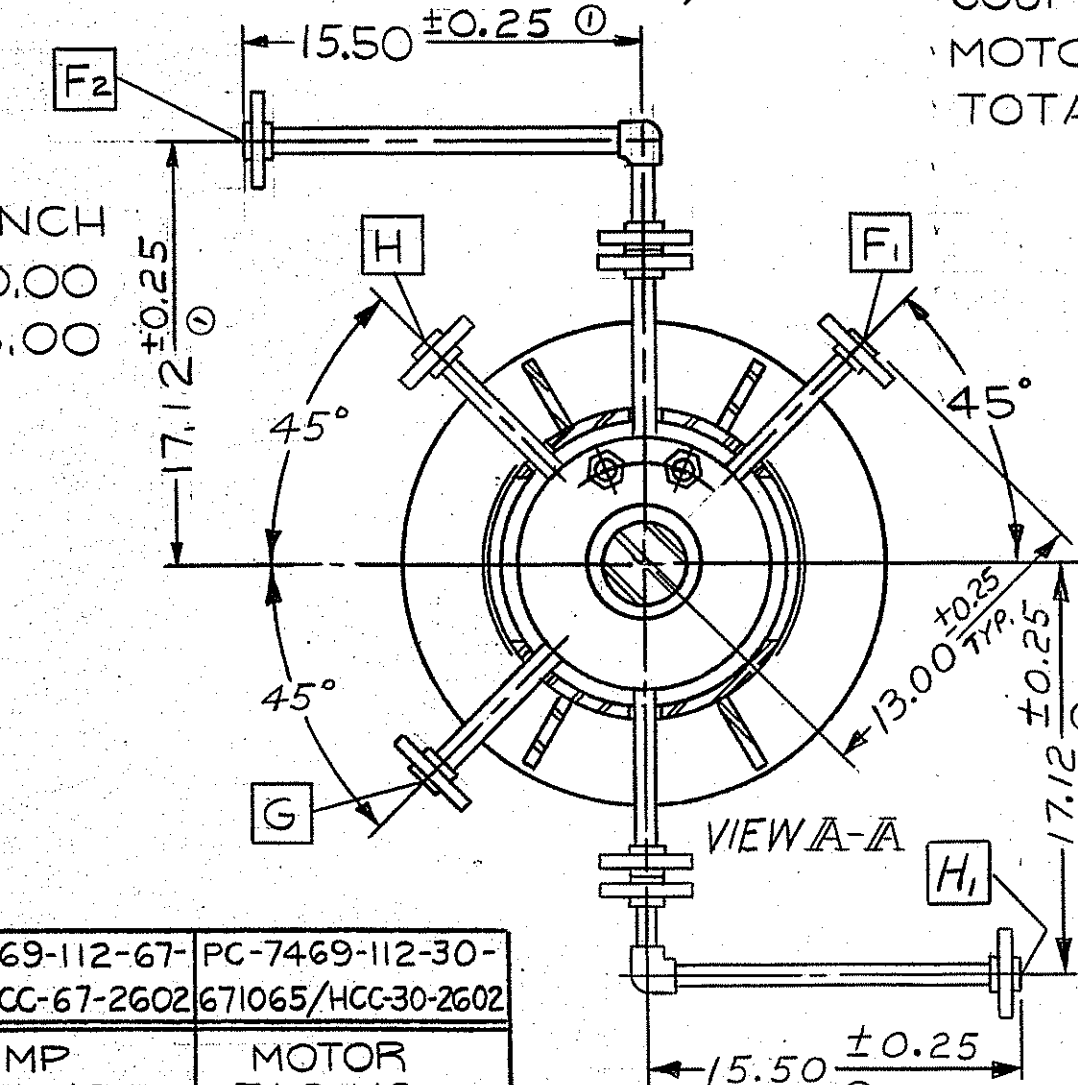
- [F1] 1/2-600 LB. R.F. S.W. FLANGE - INLET TO OUTBOARD SEAL FACE
 CIRCULATION LIQUID: TURBINE QUALITY MINERAL OIL
 VISCOSITY: 200 TO 210 SSU @ 100°F
 TEMPERATURE: 130°F APPROX.
 RATE: 2.5 TO 4.0 GPM
 PRESSURE: 80 PSIG ABOVE PUMP DISCHARGE PRESSURE
 SOURCE: SEAL LUBE OIL SYSTEM
 (NORMAL DISCHARGE PRESSURE = 705 PSIG; MAX. = 769 PSIG)
 [F2] 1/2-600 LB. R.F. S.W. FLANGE - OUTLET FROM INBOARD SEAL FACE
 [G] 1/2-600 LB. R.F. S.W. FLANGE - INLET FOR FLUSHING SLEEVE BRG.
 FLUSHING LIQUID: PRIMARY PROPYLENE
 TEMPERATURE: 100°F APPROX.
 RATE: 4 GPM MIN.
 ① PRESSURE: 20 PSIG ABOVE PUMP DISCHARGE PRESSURE
 SOURCE: BY CUSTOMER
 ① [H] 1/2-600 LB R.F. S.W. FLANGE - SEAL VENT
 ① [H1] 1/2-600 LB R.F. S.W. FLANGE - SEAL DRAIN
 [K] 1-11.5 NPT - DRIP RIM DRAIN
 [L1] 3/4-14 NPT - INLET TO THRUST BEARING HOUSING
 LUBRICANT: TURBINE QUALITY MINERAL OIL
 VISCOSITY: 600 TO 800 SSU AT 100°F
 TEMPERATURE: 100°F APPROX.
 RATE: 2.5 TO 3.0 GPM TOTAL / 0.8 TO 1.0 GPM EACH BRG.
 PRESSURE: 20 PSIG AT INLET
 SOURCE: BEARING LUBE OIL SYSTEM
 [L2] 2-11.5 NPT - OIL OUTLET FROM THRUST BEARING HOUSING
 [M] 5-8 NPT - MOTOR CONDUIT.
 [Q1] 1 1/2-11.5 NPT - BEARING HOUSING OIL DRAIN (PLUGGED)
 [X1] 1/2-14 NPT-CONNECTION FOR TEMPERATURE DETECTOR AT THRUST BEARING
 [X2] 1/2-14 NPT-CONNECTION FOR TEMPERATURE DETECTOR AT INBOARD RADIAL BEARING
 [X3] 1/2-14 NPT-CONNECTION FOR TEMPERATURE DETECTOR AT OUTBOARD RADIAL BEARING

WEIGHTS

· PUMP	7000 LBS.
· BASE	4500 LBS.
· COUPLING & GUARD	200 LBS.
· MOTOR	5600 LBS.
· TOTAL (APPROX.)	17300 LBS.

① WR^2 (LBM-FT²)

PUMP	117.50
COUPLING	7.78
MOTOR	BY CUSTOMER
TOTAL	



NOTES:

1. FOR ASSEMBLY SEE DWG. NO. A-42428.
2. FOR LIST OF COMPONENTS SEE LOC 85371.
3. ALL INTERCONNECTING PIPING BETWEEN PUMP & OIL SYSTEMS FOR BEARINGS AND SEAL TO BE FURNISHED AND INSTALLED BY CUSTOMER.

TOP VIEW OF BASE

MOTOR DATA

ENCLOSED FAN COOLED, 3 PH
60 HZ, 4000 V, SIEMENS -
ALLIS FRAME NO.5810US
FURNISHED BY CUSTOMER

85371	659106-4-0604	PC-7469-112-67-1065/HCC-67-2602	PC-7469-112-30-671065/HCC-30-2602
PUMP SERIAL NO.	FLUOR PURCH. ORDER NO.	PUMP TAG NO.	MOTOR TAG NO.
SERVICE : REACTOR CIRCULATING PUMP USED WITH POLYPROPYLENE TRAIN 1A REACTOR			
USER : PHILLIPS 66 COMPANY HOUSTON CHEMICAL COMPLEX POLYPROPYLENE EXPANSION			
CUSTOMER : FLUOR ENGINEERS, INC.			

DIMENSIONS ARE INCHES

OR
UNTOLERANCED DIMENSIONS ARE
FOR REFERENCE ONLY

DO NOT USE FOR CONSTRUCTION
PURPOSES UNLESS CERTIFIED

	I VA		8-15 -86	ME	PIPING FOR CONN. H E H, ADDED REACTOR WAS TRAIN L. W33 GOOD, 1, PRESSURE AT CONN. G WAS 30 PSIG. 30LT HOLES IN CASING FLANGE WERE 1.75 ±0.25 TOL. ADDED TO PIPING L, E L2.	
	NO.	BY	DATE	CHK. BY.	ENG.	Q.C.
					APPROVAL	
						DESCRIPTION
REVISIONS						
ELEVATION OF 22" HORIZONTAL REACTOR PROPELLER PUMP DRIVEN BY 600 HP-1800 RPM ELECTRIC MOTOR						
ARE ION	DR. BY		FD	D A T E	29, JUL, 86	 LAWRENCE PUMPS INC. LAWRENCE, MASS.
	CHK. BY		VA		29, JUL, 86	
	A P P V.	ENG.				
		Q.C.				
SCALE		IG		DRAWING NUMBER		A 42429