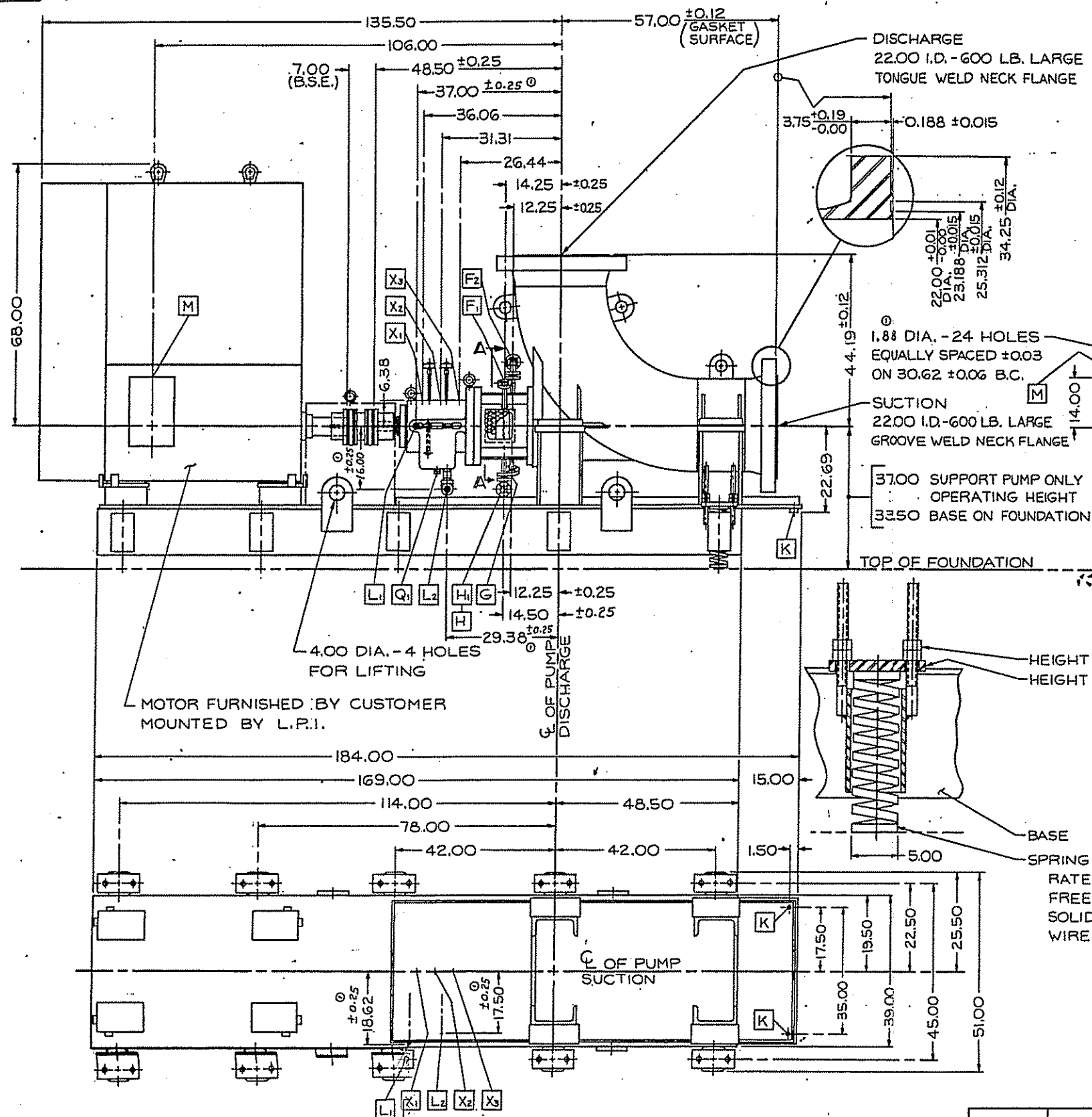




①
1.88 DIA. - 24 HOLES
EQUALLY SPACED ± 0.03
ON 30.62 ± 0.06 B.C.

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
- ② [H] 1/2-600 LB. R.F. S.W. FLANGE-SEAL VENT
③ [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] 1/2-11.5 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 WR² (LBM-FT²)
 PUMP 117.50
 COUPLING 7.78
 MOTOR 380 ~~37.50~~
 TOTAL

AUG 28 1966

CONTRACT	659106
P.O.NO.	4-0604
SER.NO.	00201
ITEM NO.	PG7419-112-

67-1065

PIPING FOR COMM. H & N, ADDED
REACTOR WAS TRIM 1. WAS ADDED
PRESURE AT COMM. G WAS 30 PSIG.
BOLT HOLES IN CASING FLANGES WERE 1.7
TO .25 TOL. ADDED TO PIPING 1, E.L.

NOTES:

1. FOR ASSEMBLY SEE DWG. NO. A-42428.
2. FOR LIST OF COMPONENTS SEE LOC85371.
3. ALL INTERCONNECTING PIPING BETWEEN PUMP AND OIL SYSTEMS FOR BEARINGS AND SEAL TO BE FURNISHED AND INSTALLED BY CUSTOMER.

MOTOR DATA

MOTOR DATA 600 HP-1800 RPM, TOTALLY 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-67-260	PC-7469-112-30 1065/HCC-67-260
	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
UNTOLERANCED DIMENSIONS ARE
FOR REFERENCE ONLY
DO NOT USE FOR CONSTRUCTION
PURPOSES UNLESS CERTIFIED

61-1065				PIPING FOR COMM. H. N. ADDED REACTOR - 1/2" TRAIL L. 1/2" ADDED PRESSURE AT COM. G. WAS 30 PIG. BOLT HOLES IN CASING FLANGE WERE 1/16" ±0.25 TOL. ADDED TO PIPING L, E, L	
1	VA	8-15-86	ME		
NO	BY	DATE	CHK. BY.	ENG. _____ GE. _____ APPROVAL _____	DESCRIPTION
REVISIONS					
ELEVATION OF 22" HORIZONTAL REACTOR PROPELLER PUMP DRIVEN BY 600 HP - 1800 RPM ELECTRIC MOTOR					
DATE	DR. BY	7	DATE	29, JUL. 86	 LAWRENCE PUMPS INTERNATIONAL LAWRENCE, MASS.
	CHK. BY	VA	DATE	29, JUL. 86	
A	ENG.				
SCALE	O.C.				
6				DRAWING NUMBER	A 42429

 **LAWRENCE PUMPS INC**
LAWRENCE, MASS.

DRAWING NUMBER	A	42429
----------------	---	-------