

TWO - 100% DUTY A.C. MOTOR DRIVEN  
CENTRIFUGAL WATER PUMPS (88.WQ.1 & 88.WQ.2)  
1 - WORKING & 1 - STANDBY.  
S.P.P. MODEL: 'UNISTREAM' 80/20.  
PUMP DUTY: 50.5 L/SEC. AT 3.1 BAR Δ  
DIFFERENTIAL HEAD.  
30 KW. - 2 POLE MOTORS WITH ANTI-CONDENSATION  
HEATERS.

150 NB. CAST IRON GATE  
VALVES. FIG. M.514 - PN.10.  
(RISING STEM.)

Item ⑮  
200 NB. CAST IRON 'Y' TYPE  
STRAINER. BS.4504 - PN.10. - R/F.

Item ⑩ PRESSURE SWITCH (63 WG) WITH  
COCK C/W AIR VENT - MOUNTED ON  
1/2" BSP BOSS Δ

150 NB. OUTLET  
BS.4504 - PN.10 - R/F.

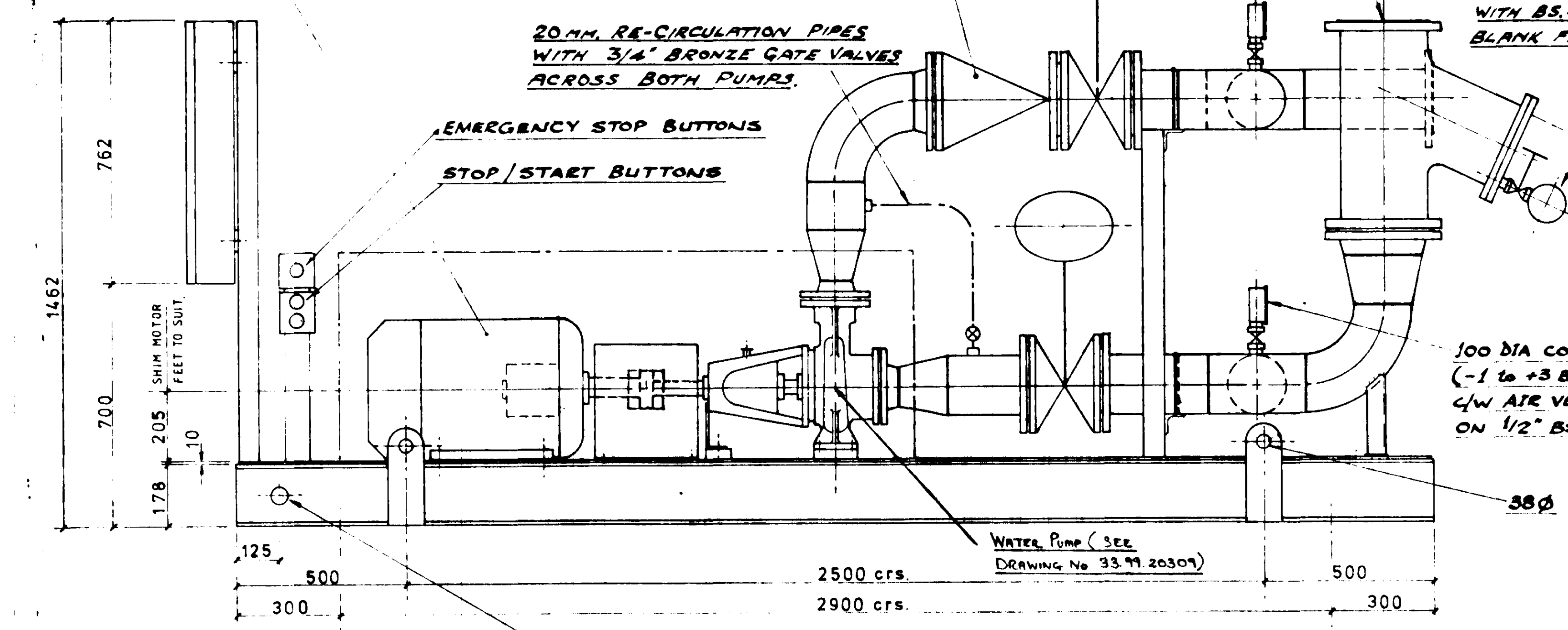
150 NB. C.I. SWING  
CHECK VALVES.

25 NB. BLOWDOWN  
WITH BS.4504 - PN.10.  
BLANK FLANGE.

Item ⑬  
100 DIA PRESSURE GAUGE  
(0 to 7 BAR) WITH COCK  
C/W AIR VENT - MOUNTED  
ON 1/2" BSP BOSS. Δ

Item ⑭  
100 DIA COMPOUND GAUGE  
(-1 to +3 BAR) WITH COCK  
C/W AIR VENT - MOUNTED  
ON 1/2" BSP BOSS. Δ

WATER PUMP (SEE  
DRAWING No 33.99.20309)



(PUMP MOTOR 88.WQ.1 ON  
OF OUTLET ON BOTH SKIDS)

50 φ x 50 THX. C.S. EARTHING BOSS  
TAPPED FOR 1/2" U.N.C. x 3/4" LG.  
BRASS SCREW + 1" ØD. WASHER.

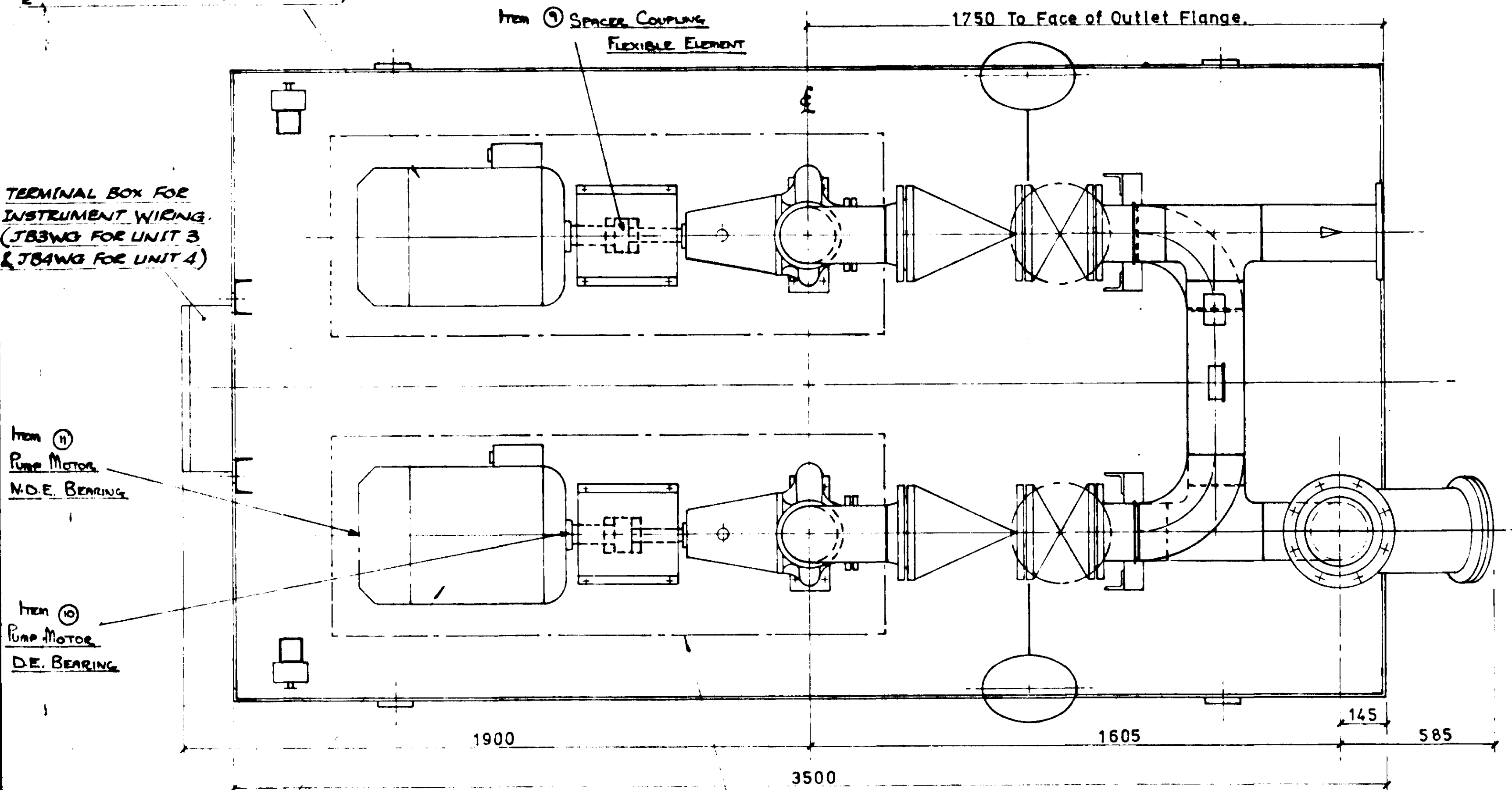
TERMINAL BOX FOR  
INSTRUMENT WIRING.  
(JB3WG FOR UNIT 3  
& JB4WG FOR UNIT 4)

Item ⑪  
Pump Motor  
N.D.E. BEARING

Item ⑫  
Pump Motor  
D.E. BEARING

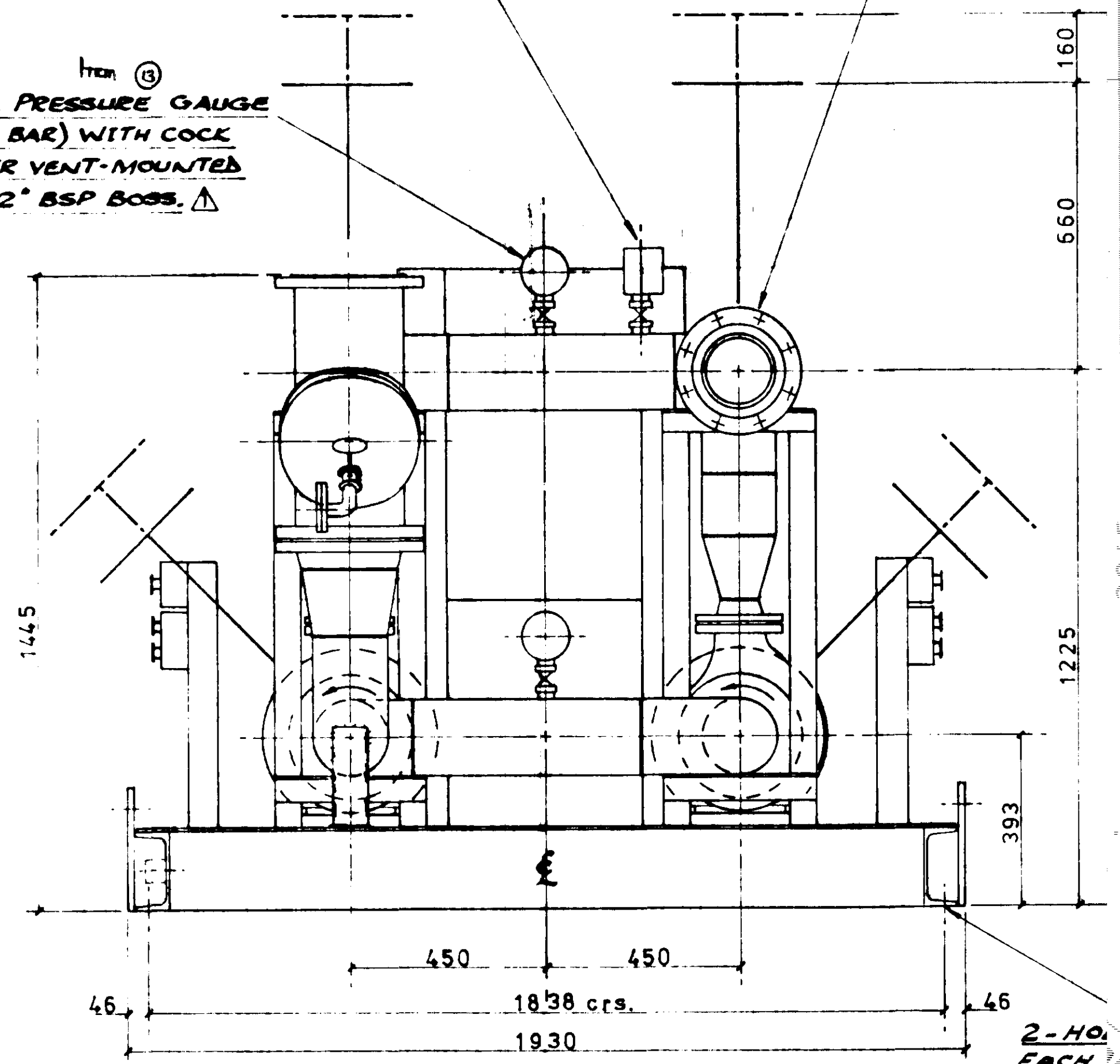
Item ① SPACER COUPLING  
FLEXIBLE ELEMENT

1750 To Face of Outlet Flange.



(PUMP MOTOR 88.WQ.2 ON  
OF INLET ON BOTH SKIDS).

ACOUSTIC CHAMBER OVER  
EACH PUMP/MOTOR ASSEMBLY.



2-HO.  
EACH 1838 CRS.  
SIDE SIDE SIDE

# NOTES

1. SPREADER LIFTING BEAM REQUIRED (NOT SUP. BY G.E.A. - S.G.)
2. FULLY ASSEMBLED PUMP SKID TO BE PRESSURED TO 10 BAR.G. ~ WITH PRESSURE GAUGES IN THE TANK
3. FINISH: ASSEMBLY TO BE PAINTED IN ACCORDANCE WITH J.B.E. SPEC. M.E.S. 6670 ~ SYSTEM 0 (ALKYD PAINT SYSTEM) ~ FINAL COLOUR: BS.4800-180

No. REQD. = 1.off. AS DRAWN FOR UNIT 4. GAS TURBINE.  
1.off. OPP. HAND " " 3. " "

HYDRO-ELECTRIC PETERHEAD GENERATING STATION	
CONTRACT No. 2052600/C01	DRAWING No. 036/1328/7105
SHEET No. 01	REV No. 02
John Brown Engineering Limited Clydebank, Dunbartonshire G81 1YA	
J.B.E. ORDER NUMBER : 07/24500.	J.B.E. DRAWING NUMBER : 0998-7206-018 REV.2

GEA SPIRO-GILLS	
TITLE GENERAL ARRANGEMENT GENERATOR WATER PUMP	
FOR J.B.E. LTD. (PETERHEAD) AD) AD)	
REV BY	DESCRIPTION
1	SPRINT IDENTIFICATION Nos. ADDED
2	TERMINAL BOXES AMENDED, START BUTTONS RE-POSITIONED, REVISED AS INDICATED
3	SCALE 1/2" = 1' 0"
4	CHECKED 5/7/05
5	APPROVED
CUSTOMER'S P.O.	JOB NO.
07/24500	23051