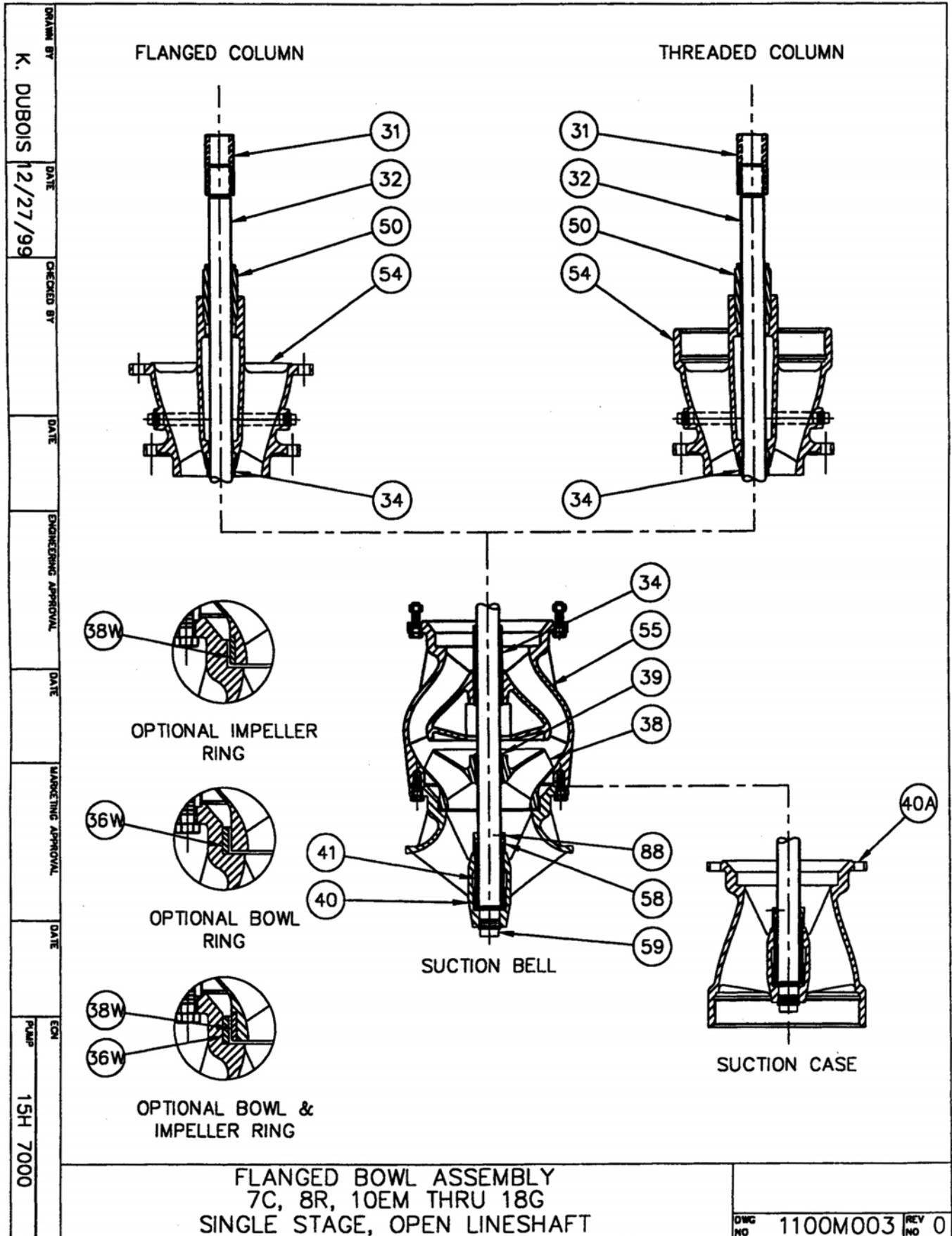
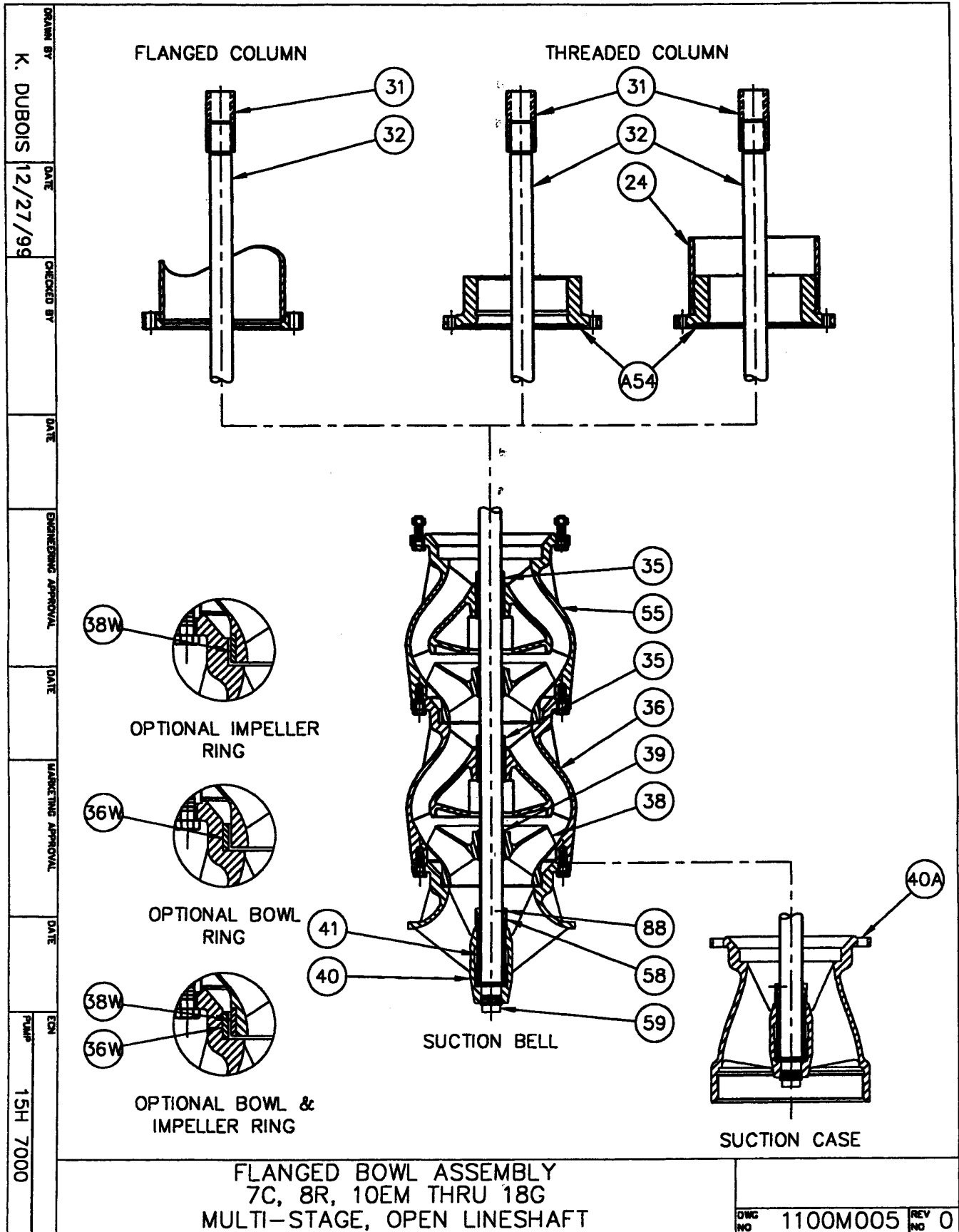
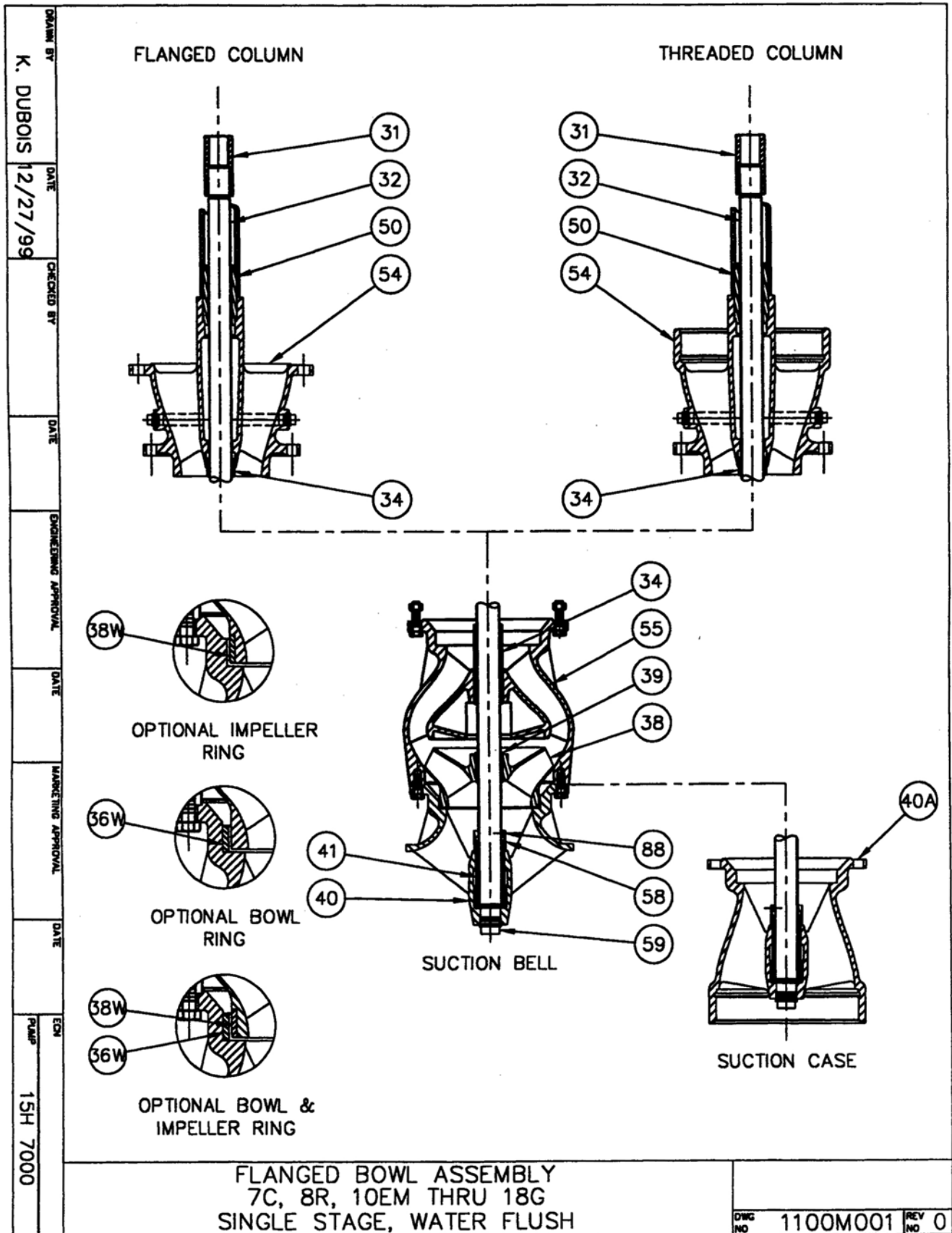


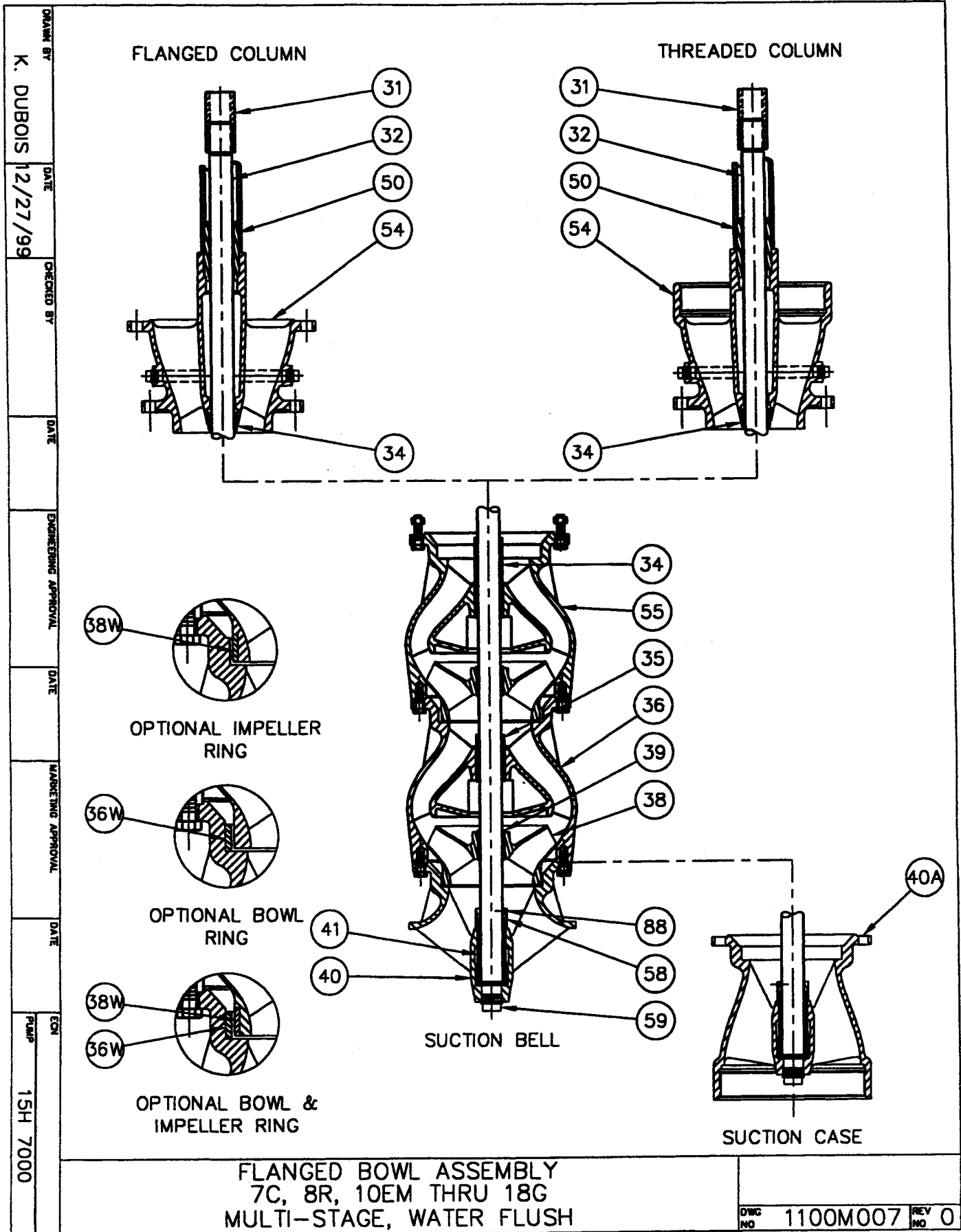
Column / Lineshaft / Seal Box Parts List

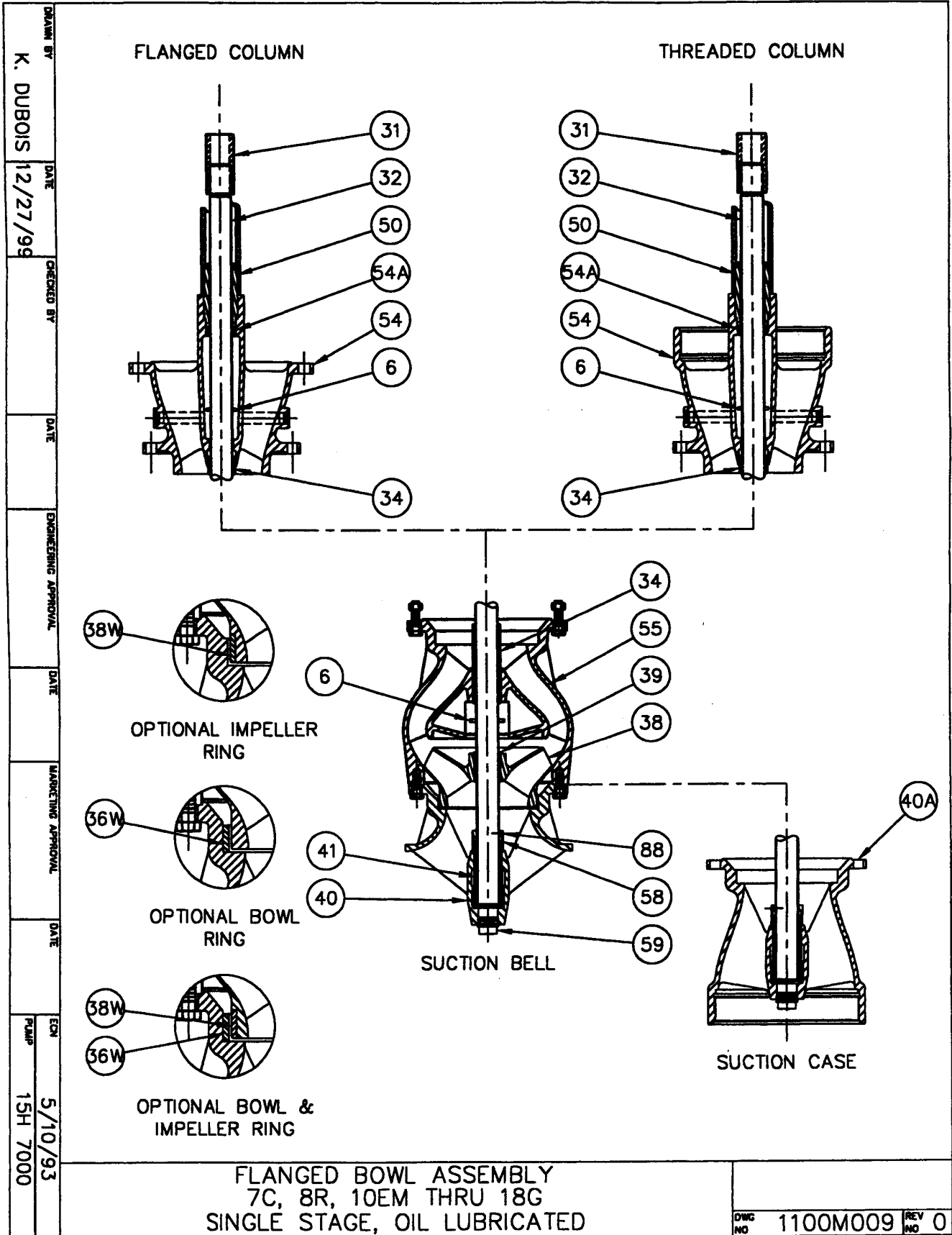
Part No.	Description
6	Slinger, Water
7	Discharge Head
8	Bolt, Gland
8A	Nut, Gland
9	Gland, Packing Box
11	Gasket, Packing Box
13	Sleeve, Top Shaft
15	Packing
15A	Ring, Water Seal
17	Packing Box
17A	Bushing, Packing Box
17B	Seal Housing
19	Shaft, Top
21	Column, Top
23	Lineshaft
24	Coupling, Threaded Column
25	Retainer, Bearing
26	Bearing, Lineshaft
29	Sleeve, Lineshaft
30	Column, Bottom
31	Coupling, Shaft
32	Shaft, Bowl
50	Bearing, Connector
51	Enclosing Tube, Bottom
51A	Enclosing Tube
63	Tension Nut, Enclosing Tube
63A	Gasket, Tension Nut
65	Stabilizer, Enclosing Tube
431	Gland, Mechanical Seal
431A	Capscrews, Packing Box
456	Seat, Mechanical Seal Rotating
456A	Seat, Mechanical Seal Stationary
456B	Retainer, Mechanical Seal

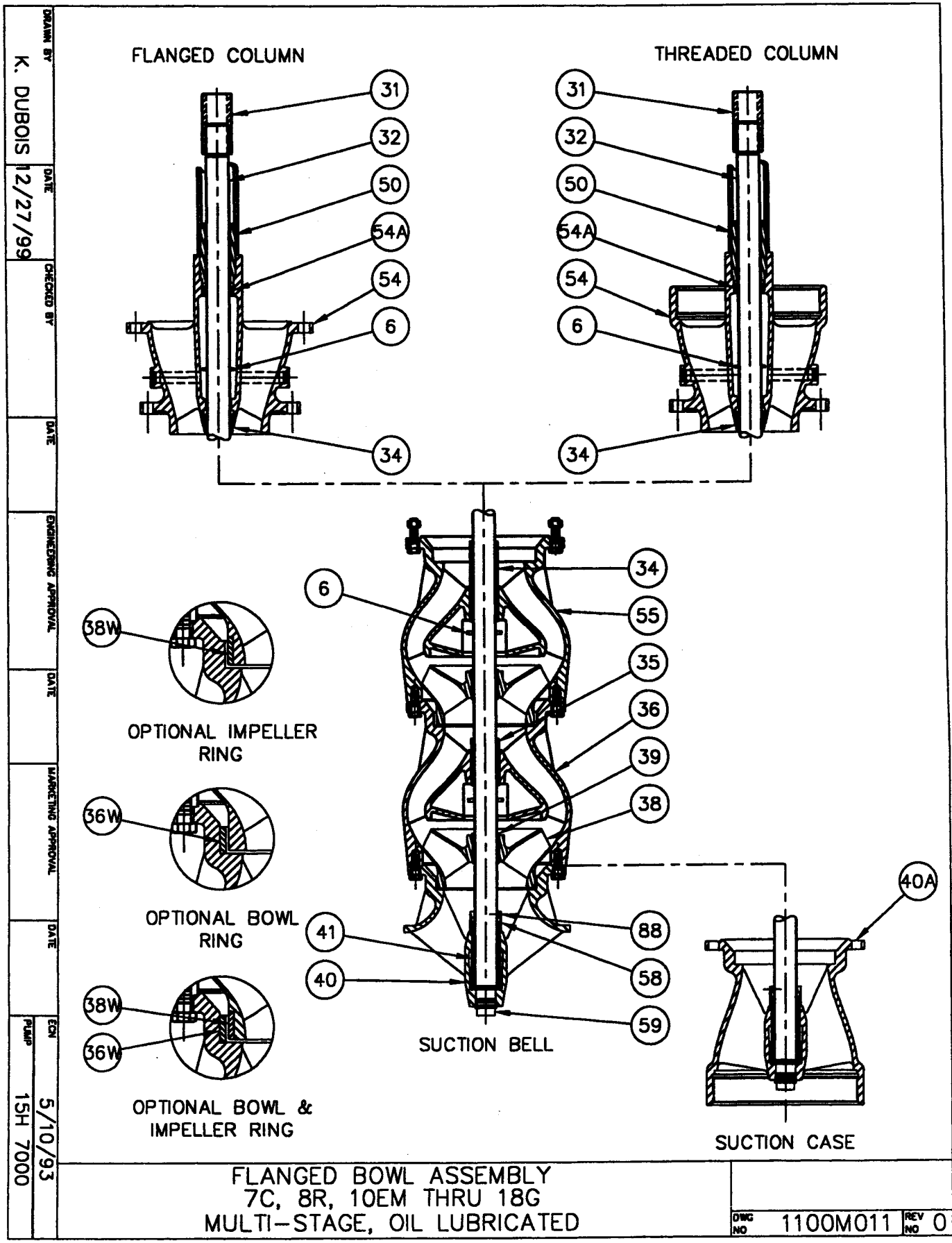


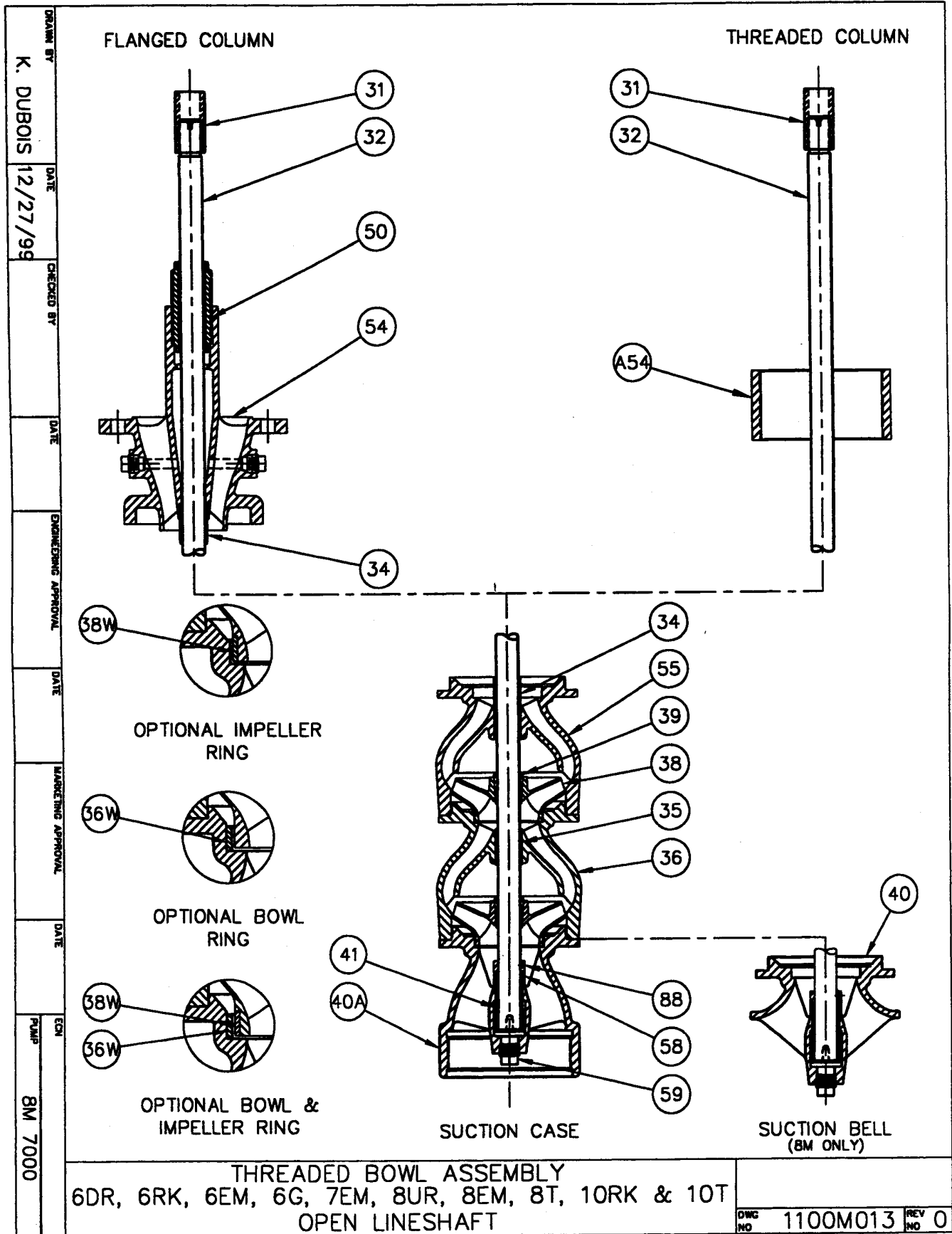


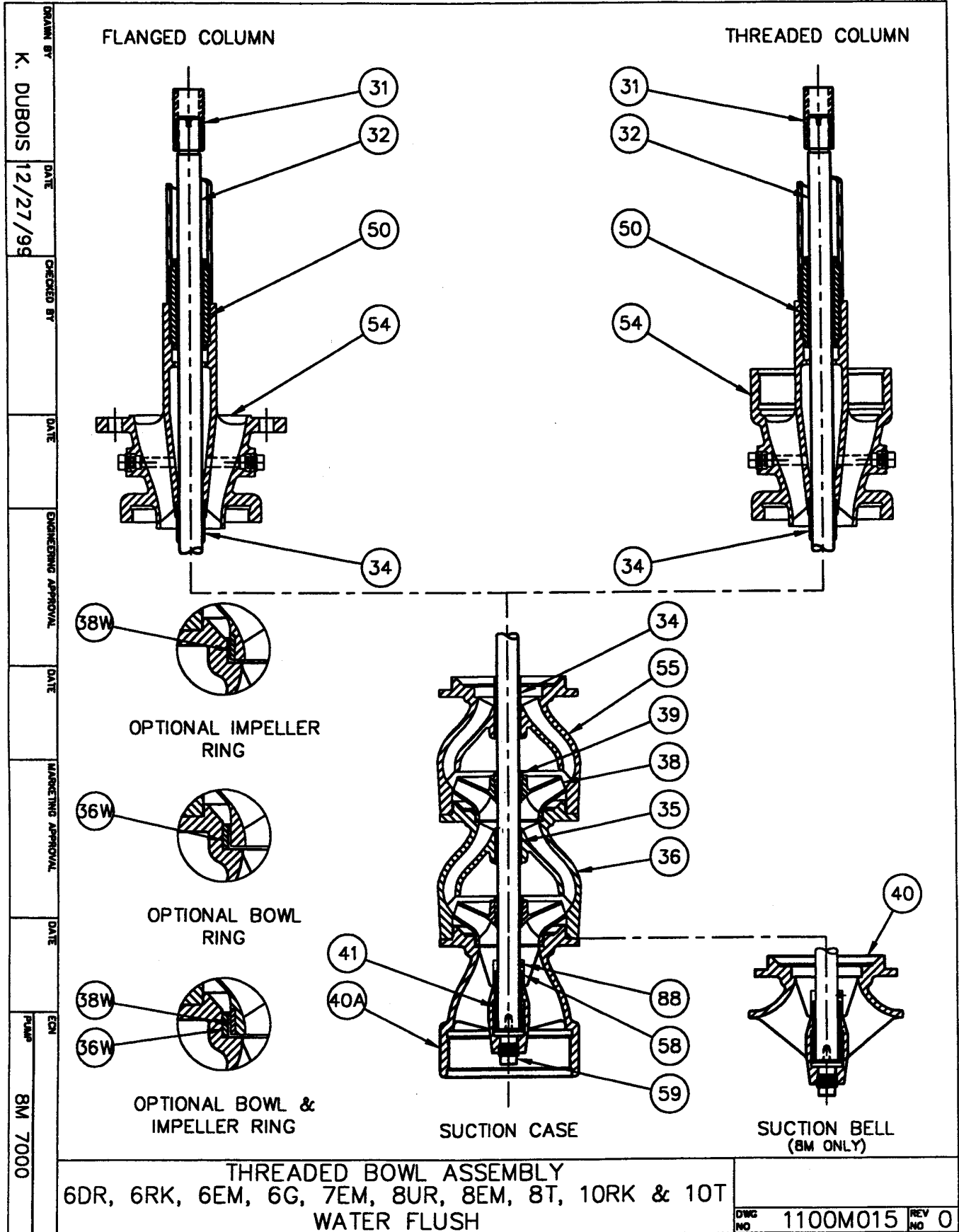


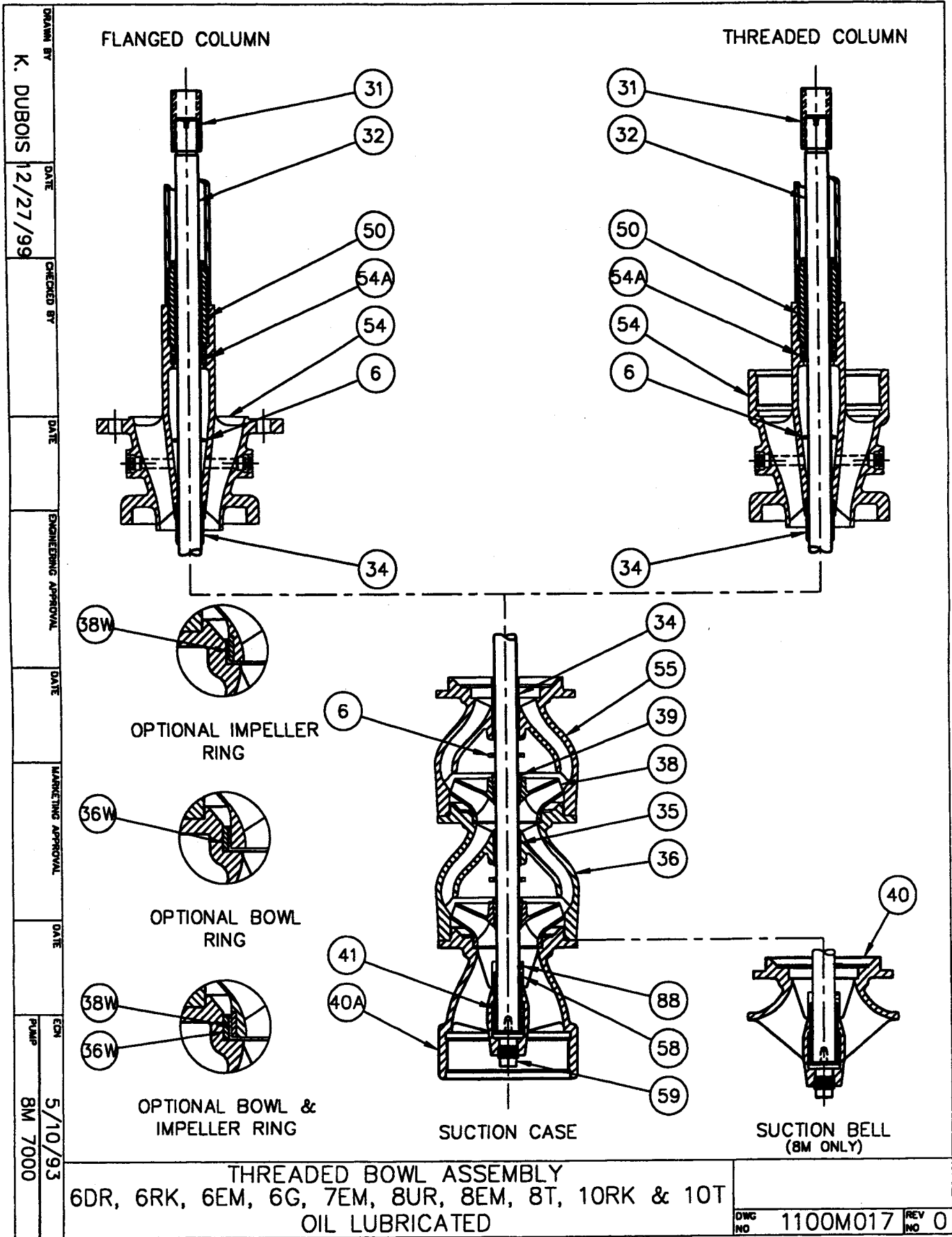












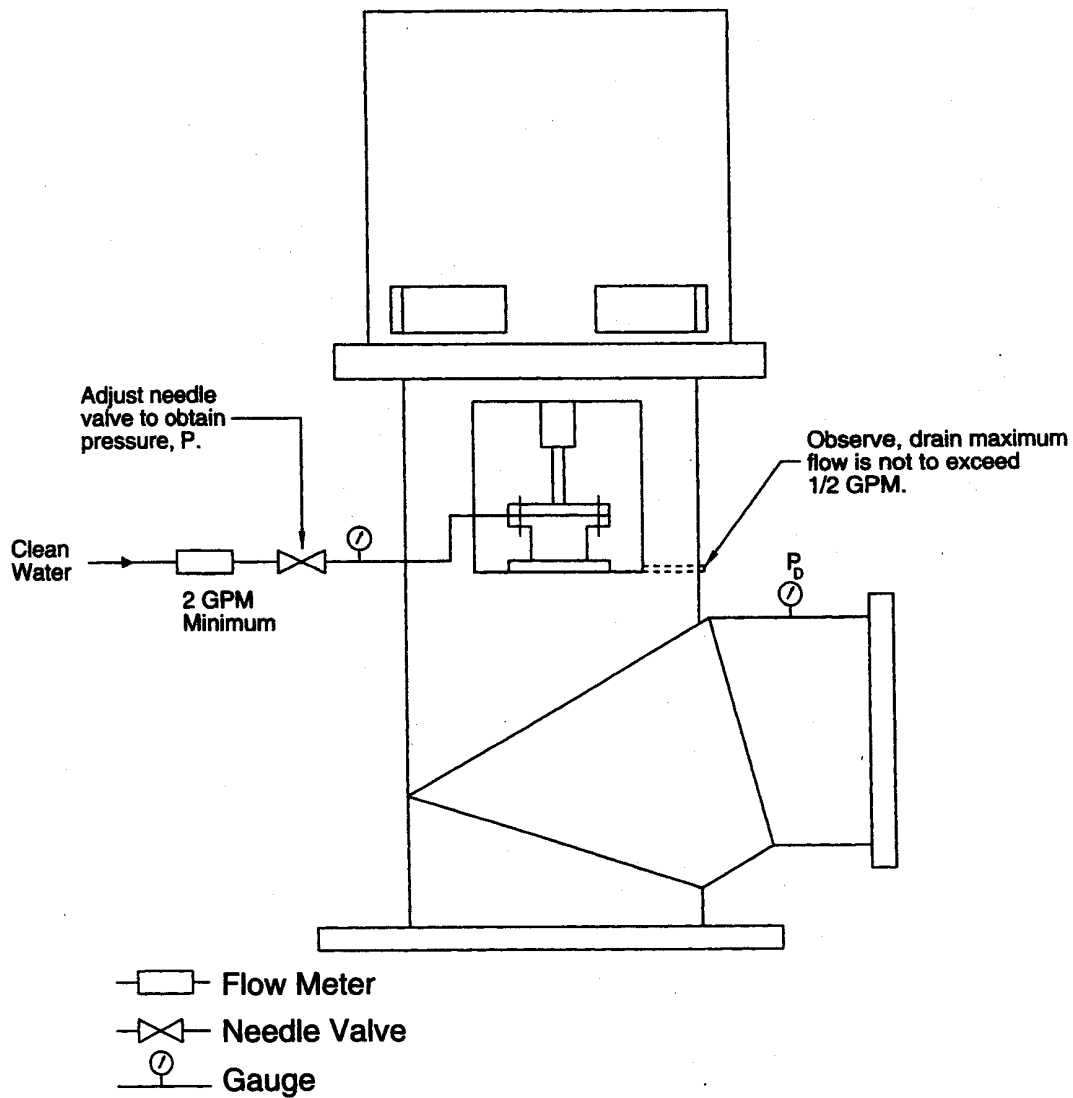
DRAWN BY
 K. DUBOIS
 DATE
 12/27/99
 CHECKED BY
 DATE
 ENGINEERING APPROVAL
 DATE
 MARKETING APPROVAL
 DATE
 EGM
 PUMP
 5/10/93
 BM 7000

DWG NO 1100M017 REV NO 0

Bowl Assembly Parts List

Part No.	Description
6	Deflector, water
31	Coupling, Shaft
32	Shaft, Bowl
34	Bearing, Top Bowl
35	Bearing, Intermediate Bowl
36	Bowl, Intermediate
36W	Wear Ring, Bowl
38	Impeller
38W	Wear Ring, Impeller
39	Collet, Impeller
40	Suction Bell
40A	Suction Case
41	Bearing, Suction Bowl
50	Bearing, Connector
54	Discharge Case
54A	Lip Seal
A54	Adapter, Column
55	Bowl, Top Intermediate
58	Sand Collar
59	Plug, Suction Bowl
88	Set Screw, Sand Collar

Water Flush System (Only for pump with packing)



P_D = Pressure at discharge

$P = 3 \text{ psi for each 10 ft. of pump setting} + P_D + 5 \text{ psi}$

Example: 70 ft. setting
 $P_D = 52 \text{ psi}$

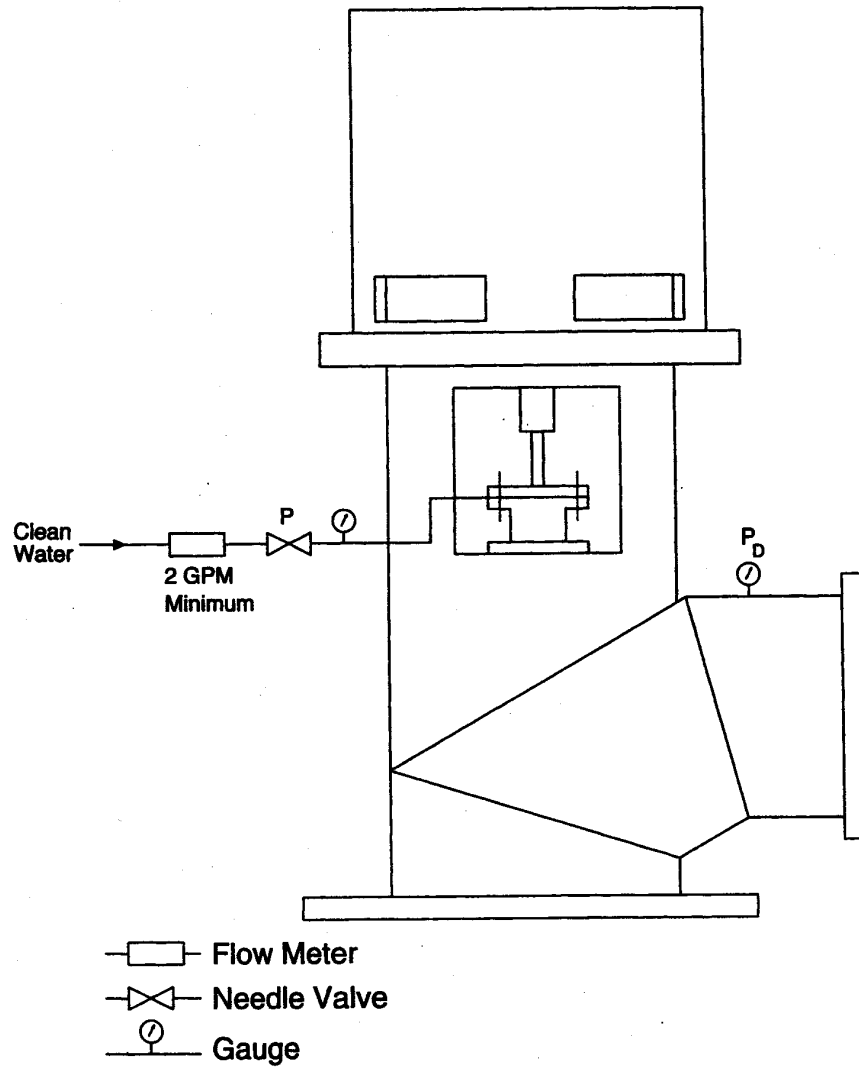
$$P = 3 \times \frac{70}{10} + 52 + 5$$

$$= 78 \text{ psi}$$

- Note: (1) Flush water is recommended at pump at all times, whether pump is operating or not.
 (2) Solenoid valves are not recommended.

Fig. #7

Water Flush System (Only for pump with mechanical seal)



P_D = Pressure at discharge

$P = 3 \text{ psi for each 10 ft. of pump setting} + P_D + 5 \text{ psi}$

Example: 70 ft. setting

$$P = 3 \times \frac{70}{10} + 52 + 5$$

$$= 78 \text{ psi}$$

- Note: (1) Flush water is recommended at pump at all times, whether pump is operating or not.
 (2) Solenoid valves are not recommended.

Fig. # 8

Open Lineshaft Water Vent System

(Only for pump with mechanical seal)

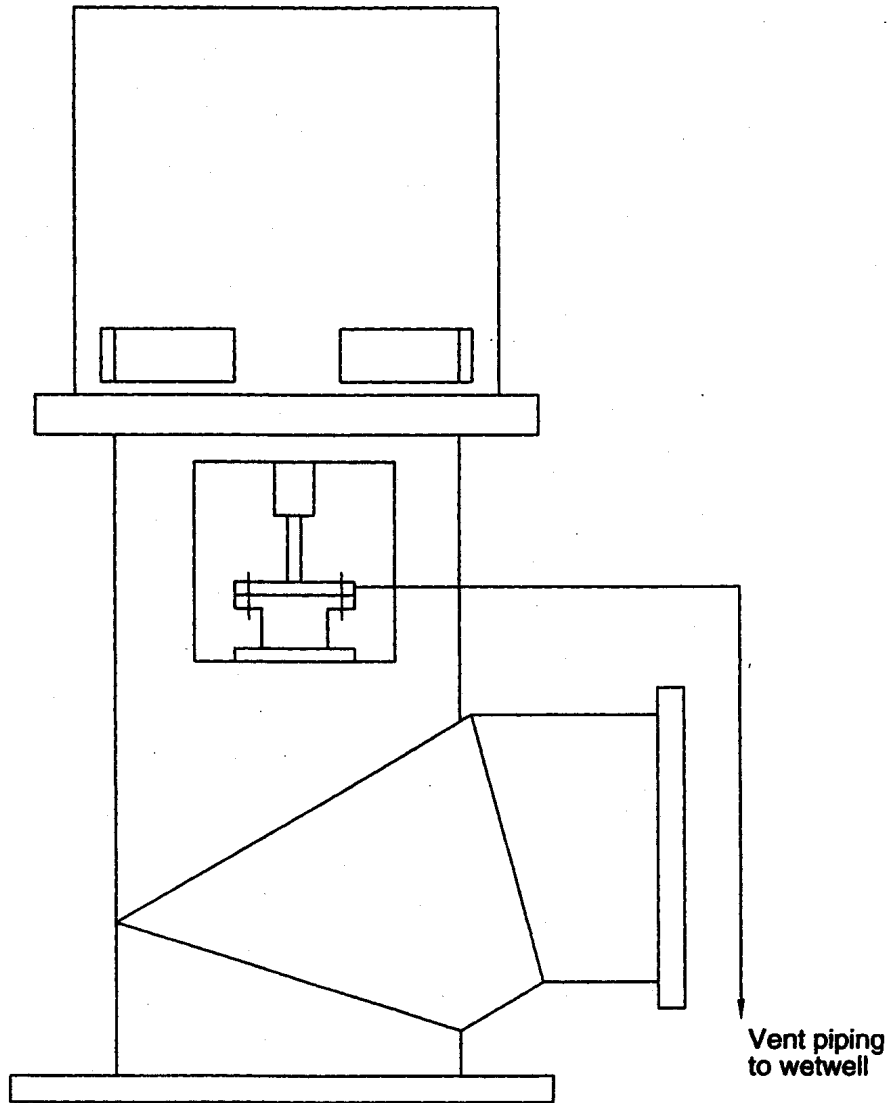


Fig. #9



Pentair Water

Layne/Verli-Line
3601 Fairbanks Avenue
Kansas City, KS 66106
913/371-5000
Fax 913/748-4030

LVL-104/07/03