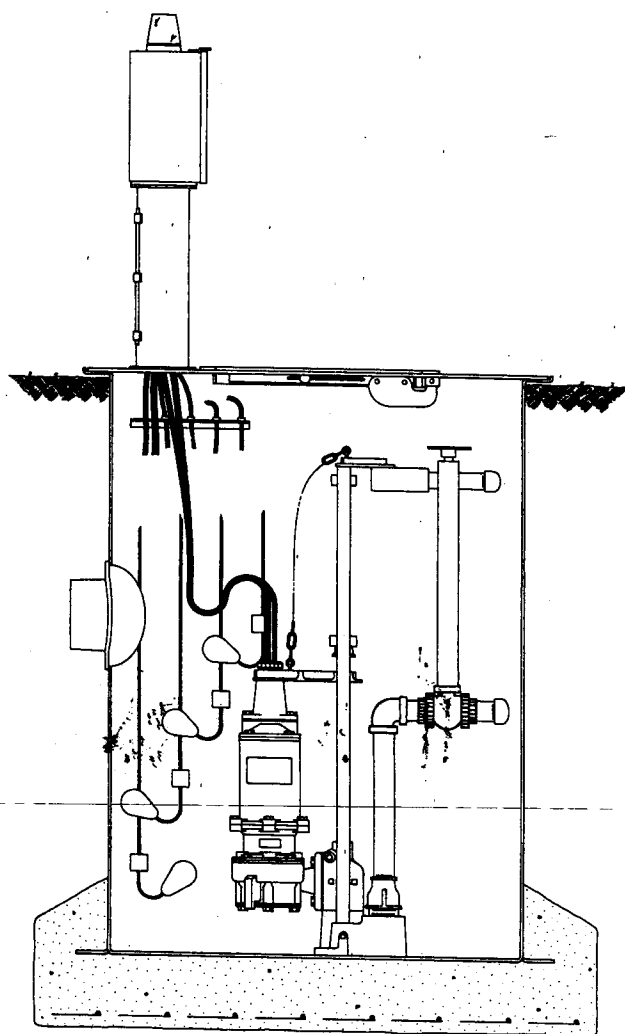
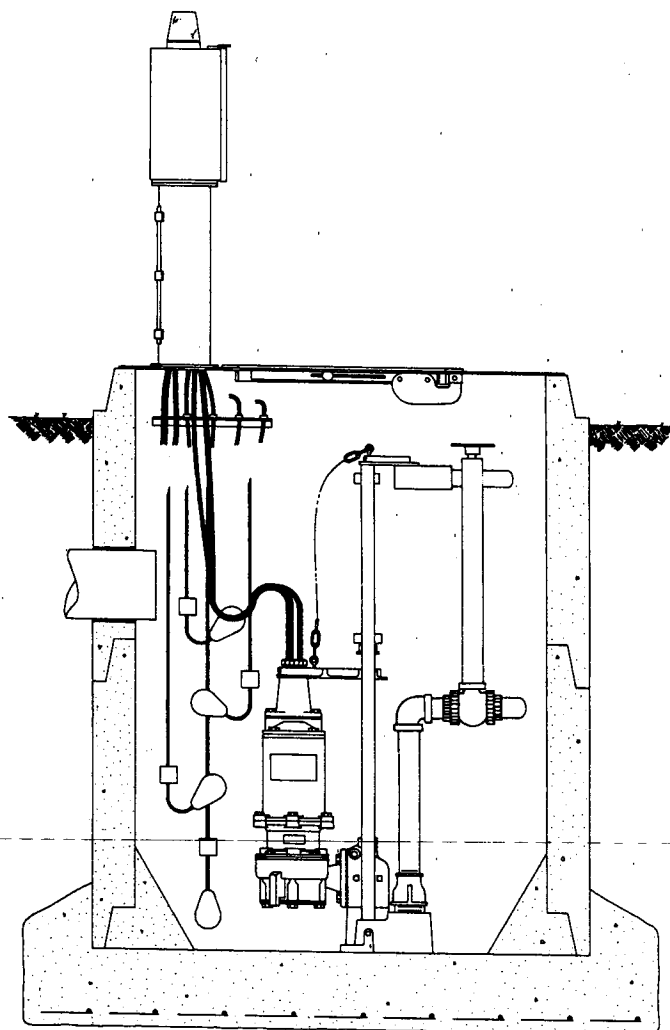


WG30, WG50, WG30H, WG50H & WG75H SIMPLEX & DUPLEX GRINDER PUMP RAIL INSTALLATIONS

**INSTALLATION AND SERVICING
INSTRUCTIONS FOR MYERS
SIMPLEX AND DUPLEX LIFT-OUT
RAIL SYSTEM INSTALLED IN
FIBERGLASS BASIN AT FACTORY
AS COMPLETE UNIT OR RAIL
PARTS FOR INSTALLING IN
FIBERGLASS OR CONCRETE
BASIN BY CUSTOMER.**



**DUPLEX SYSTEM IN
FIBERGLASS BASIN**



**DUPLEX SYSTEM IN
CONCRETE BASIN**

NOTE: When complete packaged system, including fiberglass basin, is supplied from factory all parts are mounted in basin except pump, level controls and connection junction box. Pumps, level controls and electrical control boxes must be ordered separately. Level controls can be ALC or FLCW type and all alarm controls are FLCW type. Type must be specified at time of order so proper support brackets can be mounted in basin.

STEPS TO INSTALL RAIL SYSTEM IN FIBERGLASS OR CONCRETE BASIN

1. Clean basin bottom thoroughly before placing template. For fiberglass basin all parts should be installed before placing basin in ground.
2. Flanges are required for rail support guide and for discharge pipe if system is installed in fiberglass. Use flanges and gaskets supplied and drill through fiberglass wall for bolts. Use gasket seal under bolt heads to seal against ground water leakage. For concrete basins holes are drilled through wall for support and discharge pipes and are cemented in place after being properly aligned.
3. Bolt discharge cases in place on basin bottom.
4. Install discharge piping from discharge case complete through basin wall. Use slip coupling as shown on drawings to connect piping.
5. Install 1 1/4" guide rails. Galv. pipe is generally used but stainless steel or other corrosion resistant pipe can be used as long as the O.D. is (1.66" dia.).
6. Align 1 1/4" rails plumb by using a level in both directions on pipe. Tighten set screws in discharge base casting to hold rails.
7. Mount level control brackets as shown on drawings. Set control heights as shown on drawings.
8. If factory cover is used where control box is mounted on cover install junction box on elbow before placing cover on basin.
9. If control box is to be offset from basin attach conduit nipple through wall and cement in or use flange if basin is fiberglass. See drawings.
10. If basin is fiberglass, concrete must be poured on anti-flotation ring to prevent

basin from floating up. Amount of concrete varies with type of ground in which basin is installed. Where ground water is high as around lakes a 36" dia. basin requires about 5 cu. ft. of concrete per foot of basin depth and a 48" dia. basin requires about 8 cu. ft. of concrete per foot of basin depth. Where ground is dry about 1/4 to 1/3 of this amount is necessary to prevent flotation in case water drains in around basin before backfilling.

11. Be sure all inlet and discharge piping is properly connected before backfilling.

ASSEMBLING PUMP TO CHECK VALVE AND TO RAIL GUIDES

1. Bolt pump flange to check valve, use cap screws supplied. Be sure to use gasket between flanges.
2. Screw 2" galv. nipple into connection cap at top of motor and install guide and mounting plate.
3. Drop 1 1/4" galv. support pipe and cap through mounting plate and screw into top of check valve. Tighten set screws to pump nipple and to support pipe and attach chain to mounting plate. Pump is now ready to drop in on rails. Use hoist to lower pump to lower discharge casting.
4. Retain power cords so they do not drop into sump.
5. After pump is seated attach 3/4" galv. pipe to lower hold-down bracket and lower down to top of 1 1/4" pipe cap.
6. Place upper hold-down bracket over 3/4" pipe and tighten set screws on all 3 pipes. Do not tighten too tight as casting may crack. This hold-down pipe and brackets prevent the pump from raising up due to the back hydraulic pressure against the check valve housing.
7. Connect power cords and control cords into junction box and connect to wires from control box. See wiring diagram Fig. 8 and Fig. 9 for duplex systems and Fig. 10 and Fig. 11 for simplex systems.
8. DO NOT POUR SEALING COMPOUND INTO SEAL FITTING OF JUNCTION BOX UNTIL PUMPS HAVE BEEN RUN TO BE SURE ALL CONNECTIONS ARE CORRECT.

STARTING SYSTEM

1. Open gate valves on discharge piping.
2. Set pump switches at control box to auto position and turn on power. Fill sump with water until controls start pump. Allow pump to operate until level drops, stopping pump.
3. If system is duplex turn both pump switches to off and fill sump above upper control. Turn both pump switches to auto position. Both pumps should run and pump sump down to lower control.
4. Leave both switches in auto-position and pump is ready for automatic operation.
5. A small hole is drilled in the pump case to prevent air lock so some water flows from this hole when pump is operating.

IN CASE OF TROUBLE CHECK THE FOLLOWING

- (A) Pump runs but does not deliver water.
- (1) May be air locked. Lift pump and reseat on lower casting.
 - (2) Discharge shut-off valve may be closed.
 - (3) If pump is 3 phase, may be running in wrong direction. Pump should be checked before installing in sump for proper rotation.
- ROTATION: Counterclockwise when looking into pump inlet.

CAUTION: KEEP HANDS AND FINGERS AWAY FROM GRINDER IMPELLER WHEN MAKING THIS CHECK.

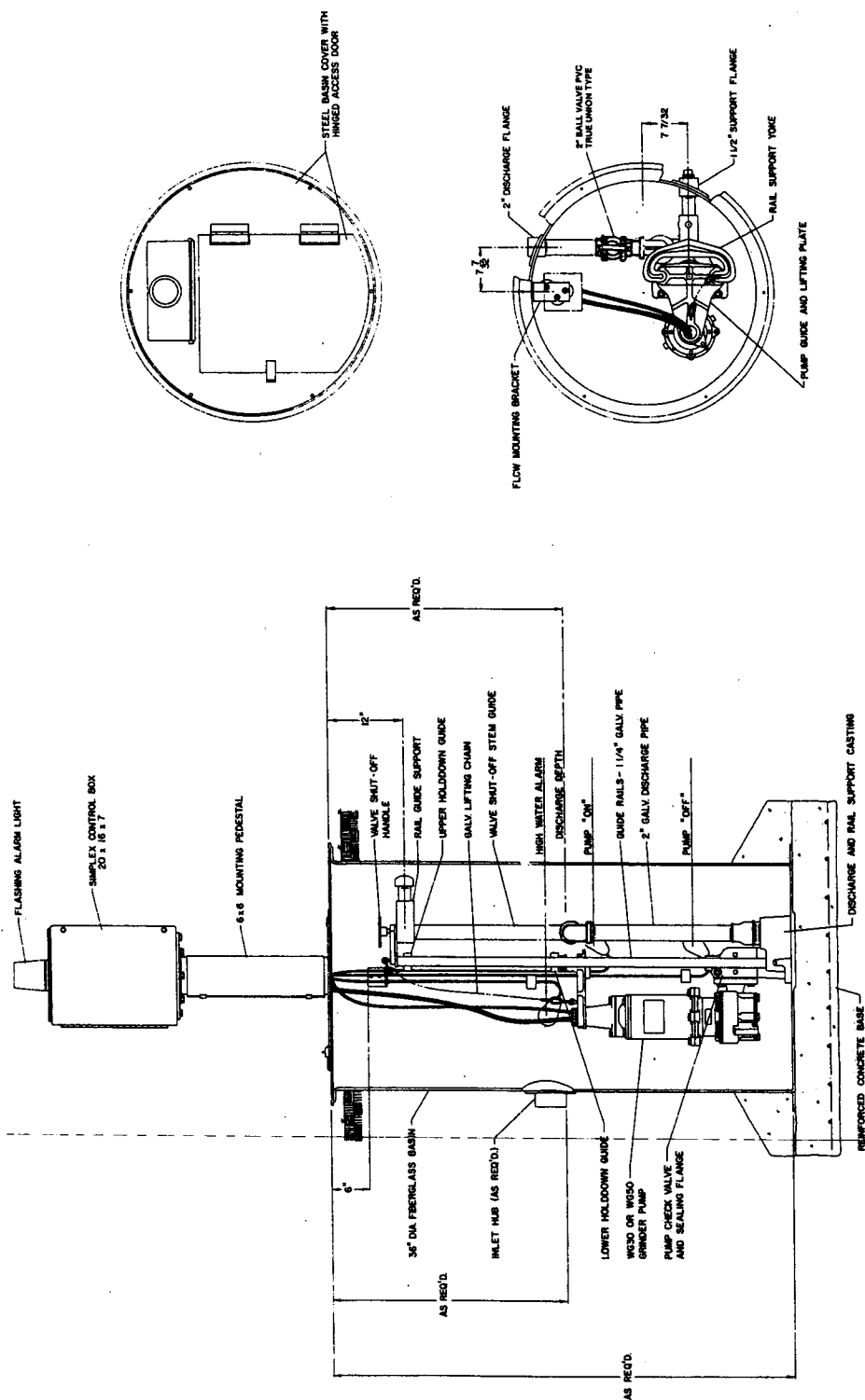
If 3 phase rotation is wrong, interchange any two line leads at the control box to reverse motor.

CAUTION: BE SURE CONNECTED POWER AGREES WITH DATA ON PUMP NAME PLATE.

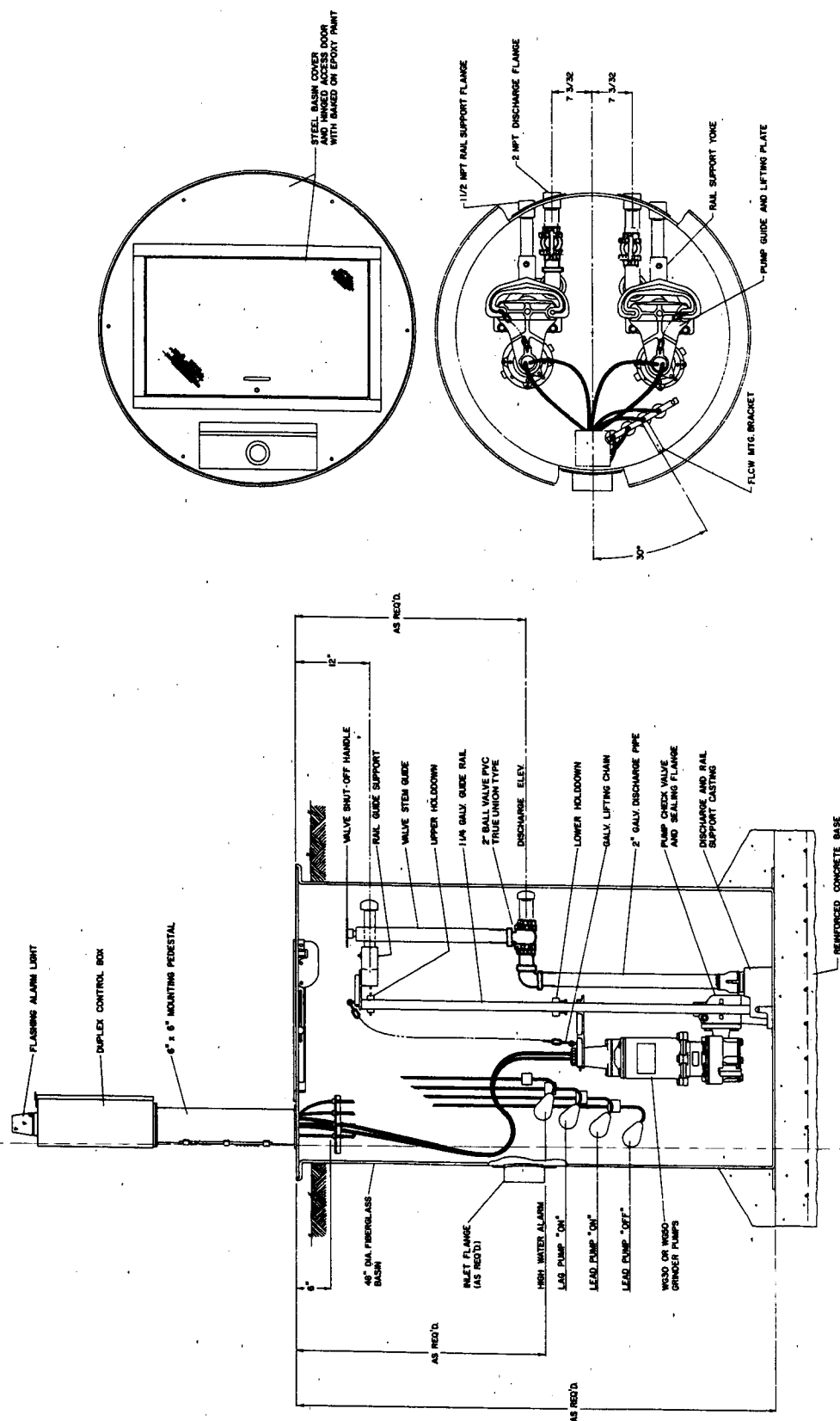
- (B) Check valve seal fitting leaks.
- (1) "O" Ring seal may be cut.
 - (2) Trash may be caught under flange. Lift out and reseat. It may be necessary to run pump lifted out of seal casting to flush trash away from seal inlet.
- (C) Proper setting of level controls.
Controls should be set so that pump stops when level is about 3 inches above pump inlet.
If controls are set too high, trash and grease will accumulate on the surface and may cause clogging.

CAUTION: NEVER WORK ON PUMPS OR CONTROLS UNLESS POWER IS TURNED OFF. IF PUMP IS REMOTE FROM CONTROL BOX, DISCONNECT WIRES TO PUMPS TO BE CERTAIN POWER CAN NOT BE TURNED ON. THIS MEANS ALL WIRES INCLUDING CONTROL WIRES. NEVER PUT HANDS NEAR GRINDER IMPELLER ON ANY RUN CHECKS.

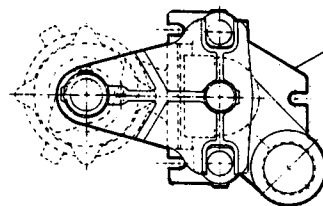
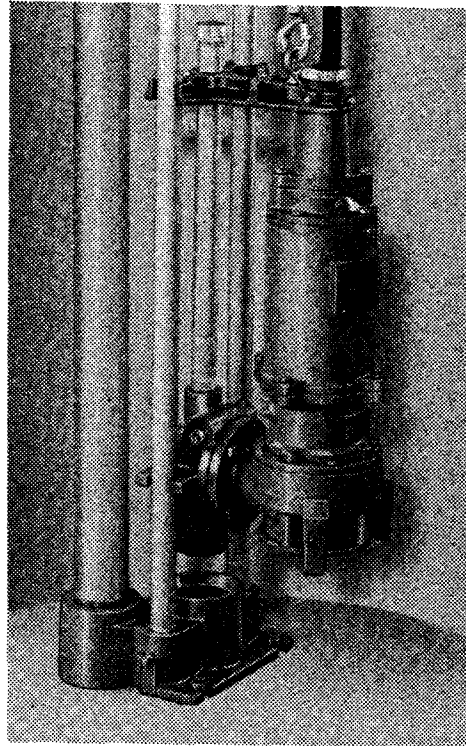
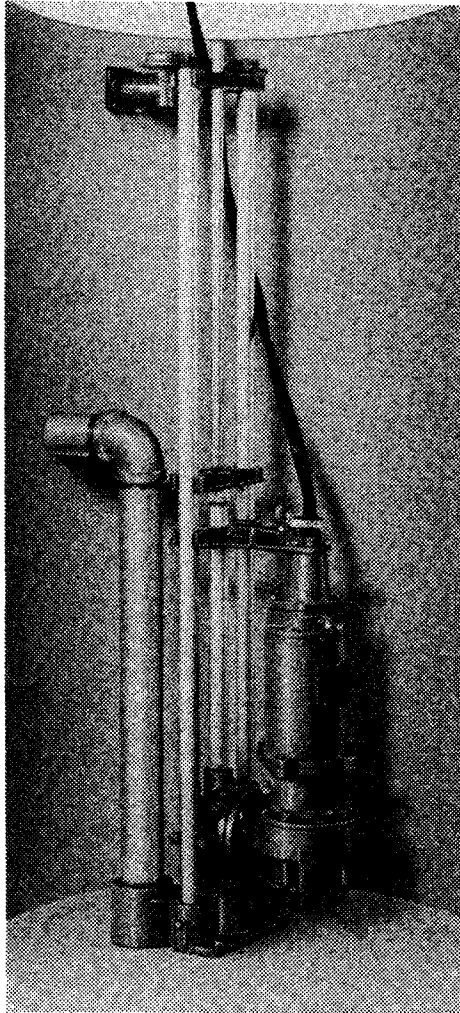
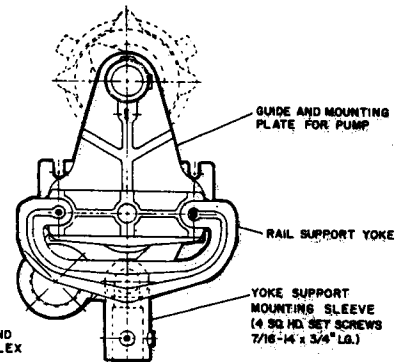
SIMPLEX INSTALLATION IN FIBERGLASS BASIN
FIG. 1



DUPLEX INSTALLATION IN FIBERGLASS BASIN
FIG. 2



PARTS INCLUDED IN RAIL PACKAGE FIG. 3

DISCHARGE CASTING
RIGHT AND LEFT HAND
REQUIRED FOR DUPLEX
SYSTEM.GUIDE AND MOUNTING
PLATE FOR PUMP

RAIL SUPPORT YOKE

YOKE SUPPORT
MOUNTING SLEEVE
(4 SQ. HD. SET SCREWS,
7/16-14 x 3/4" LG.)UPPER HOLD-DOWN BRACKET
(4 SQ. HD. SET SCREWS,
7/16-14 x 1 1/4" LG. & 2 SQ. HD.
SET SCREWS, 7/16-14 x 1 1/4"
LONG)3/4" GALV. PIPE FOR
HOLD-DOWN (BY OTHERS)LOWER HOLD-DOWN
BRACKET1 1/4" GALV. PIPE
GUIDE RAILS (BY OTHERS)

2 CONDUIT BUSHING

GALV. LIFTING CHAIN

2 GALV. NIPPLE

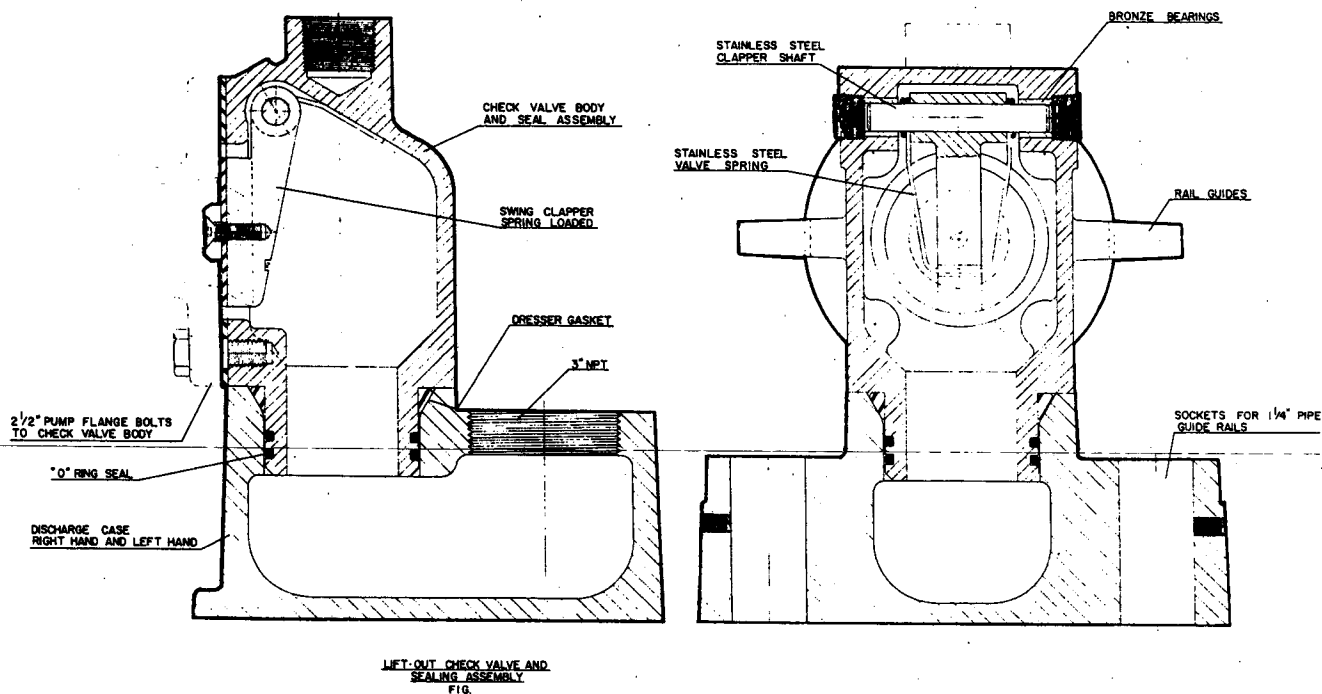
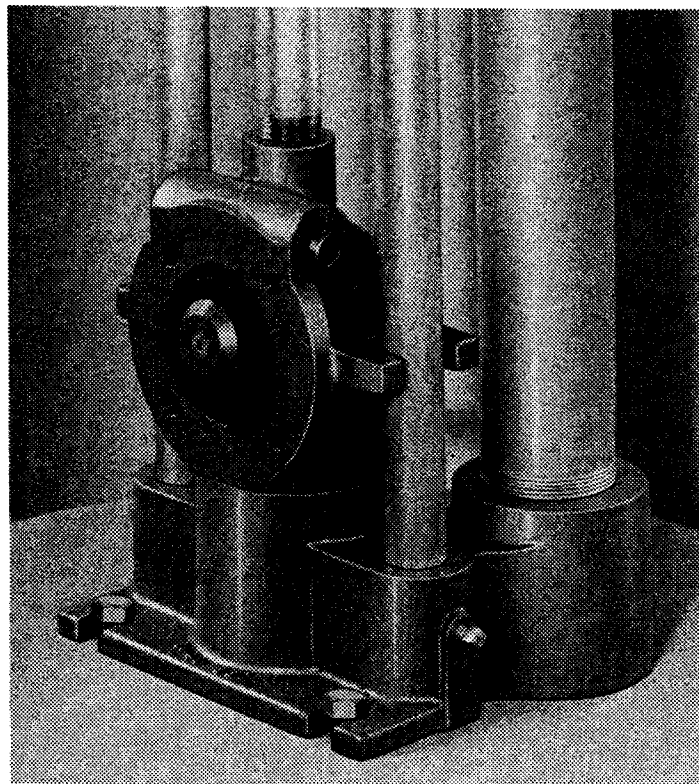
1 1/4" PIPE CAP

GUIDE AND MOUNTING PLATE
(3 SQ. HD. SET SCREWS,
7/16-14 x 3/4" LG.)

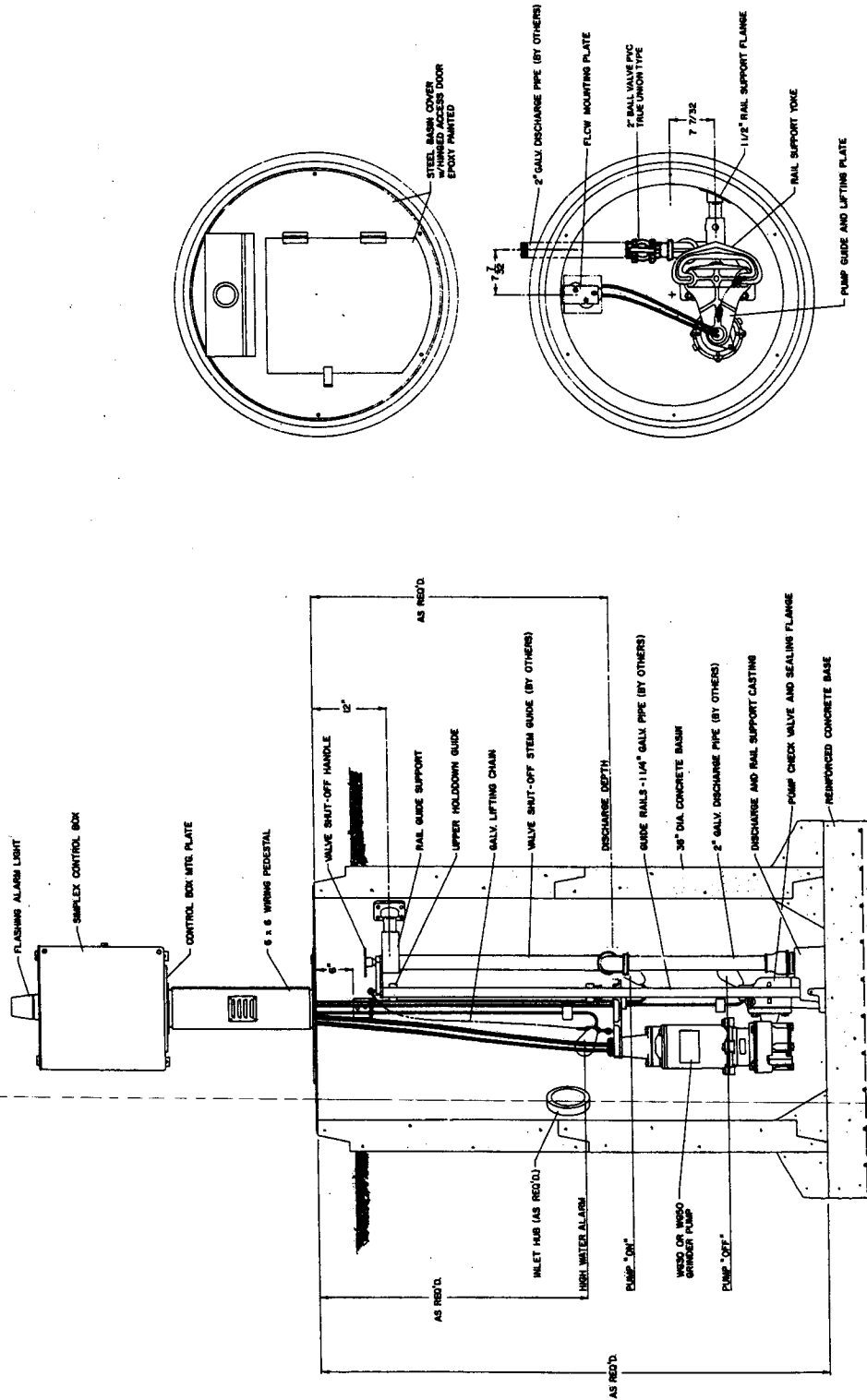
1 1/4" SUPPORT PIPE

WG 50
WG 30
WG 50H
WG 30H
GRINDER PUMPSCHECK VALVE AND
LIFT-OUT SEAL CASTINGRAIL SUPPORT
AND DISCHARGE CASTING
(2 SQ. HD. SET SCREWS,
7/16-14 x 3/4" LG.)

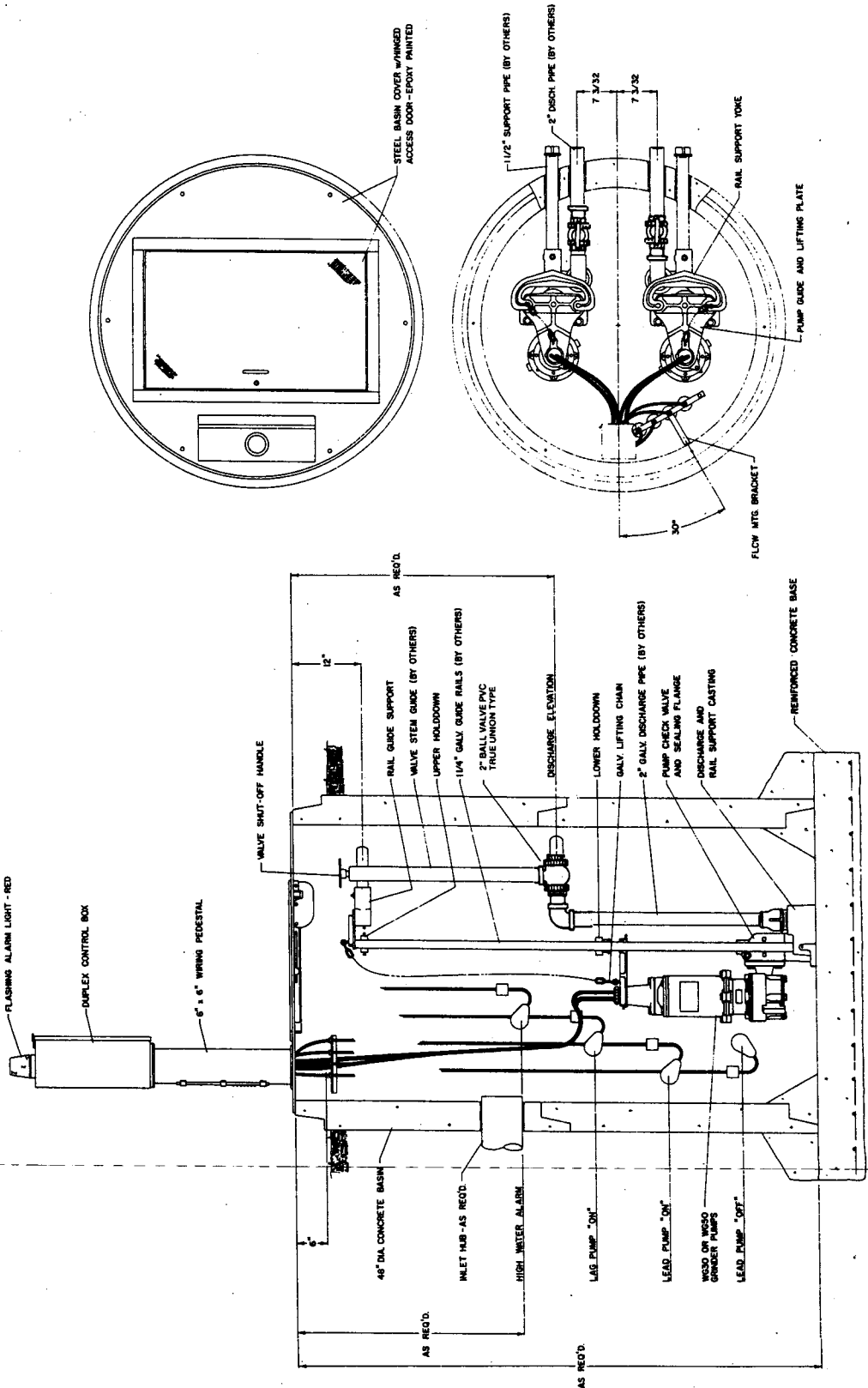
LIFT-OUT CHECK VALVE AND SEALING ASSEMBLY FIG. 4



SIMPLEX INSTALLATION IN CONCRETE BASIN
FIG. 5

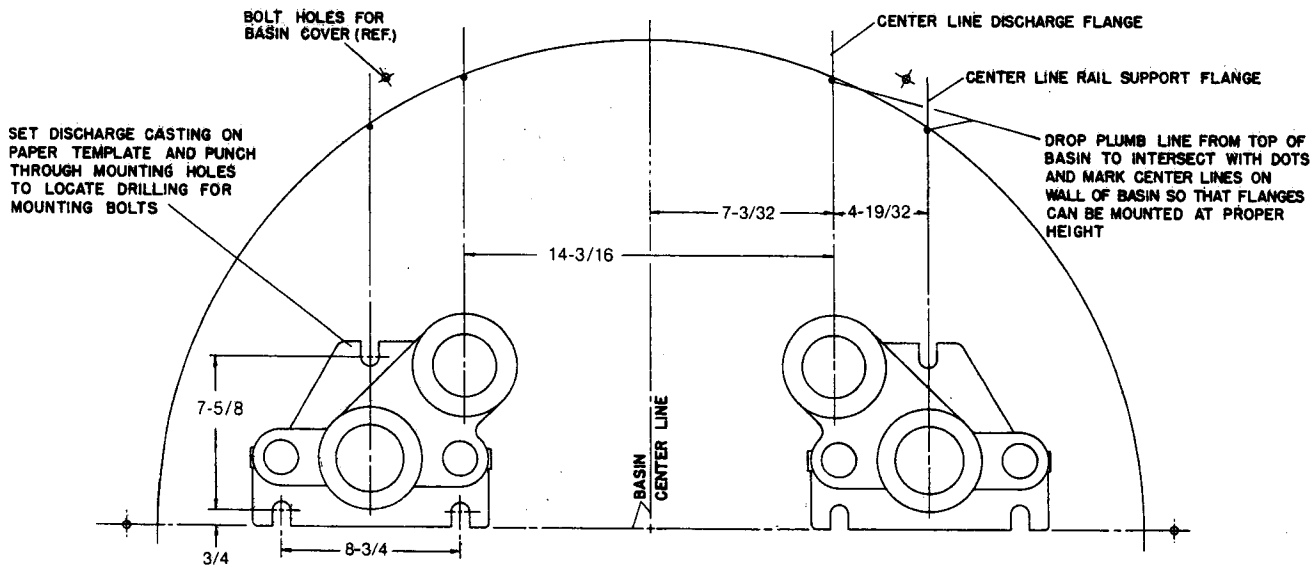


DUPLEX INSTALLATION IN CONCRETE BASIN



PAPER TEMPLATE TO LOCATE DISCHARGE CASTINGS AND OBTAIN CENTER LINES FOR DISCHARGE AND SUPPORT FLANGES 48"

FIG. 7



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