

**MODIFICATION –  
SKIMMER INSTALL FOR  
FACET & CANADIAN  
BUILT UNITS**

## Equipment and parts required:

Drill 1/2"

Cutter 3 1/4"

Punch 1 1/2"

PVC solvent

PVC glue

PVC pipes and fittings

Hydraulic hose and fittings 1/2 "

Steel for the manufacture of supports

Jointing sealent

Key to large-diameter pipe

Galvanized pipe fittings

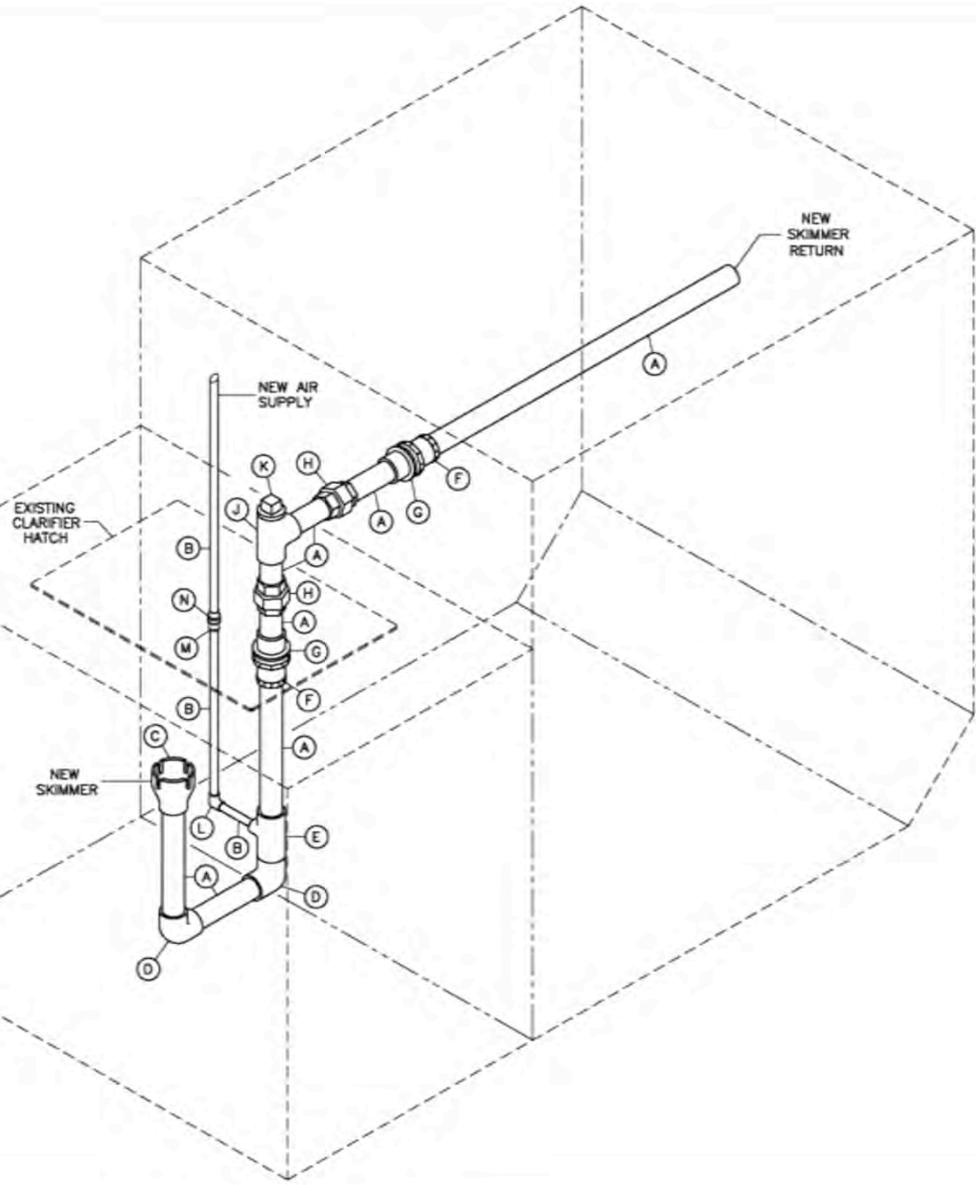
Confined Space Permit

It should be noted that measurements may vary from one box to another health. Important to observe action indicated when required..

## BILL OF MATERIALS

MARK	DESCRIPTION
A	2" SCH 40 PIPE - PVC
B	1/2" SCH 40 PIPE - PVC
C	4" X 2" CONCENTRIC REDUCER - PVC
D	2" SCH 40 90° ELBOW - PVC
E	2" X 1/2" SCH 40 REDUCER TEE - PVC
F	2" SCH 40 MALE ADAPTOR - PVC
G	2" SCH 40 BULKHEAD FITTING - PVC
H	2" SCH 40 UNION - PVC
J	2" SCH 40 STRAIGHT TEE - PVC
K	2" SCH 40 BULL PLUG - PVC
L	1/2" SCH 40 90° ELBOW - PVC
M	1/2" SCH 40 MALE ADAPTOR - PVC
N	1/2" SCH 40 BULKHEAD FITTING - PVC

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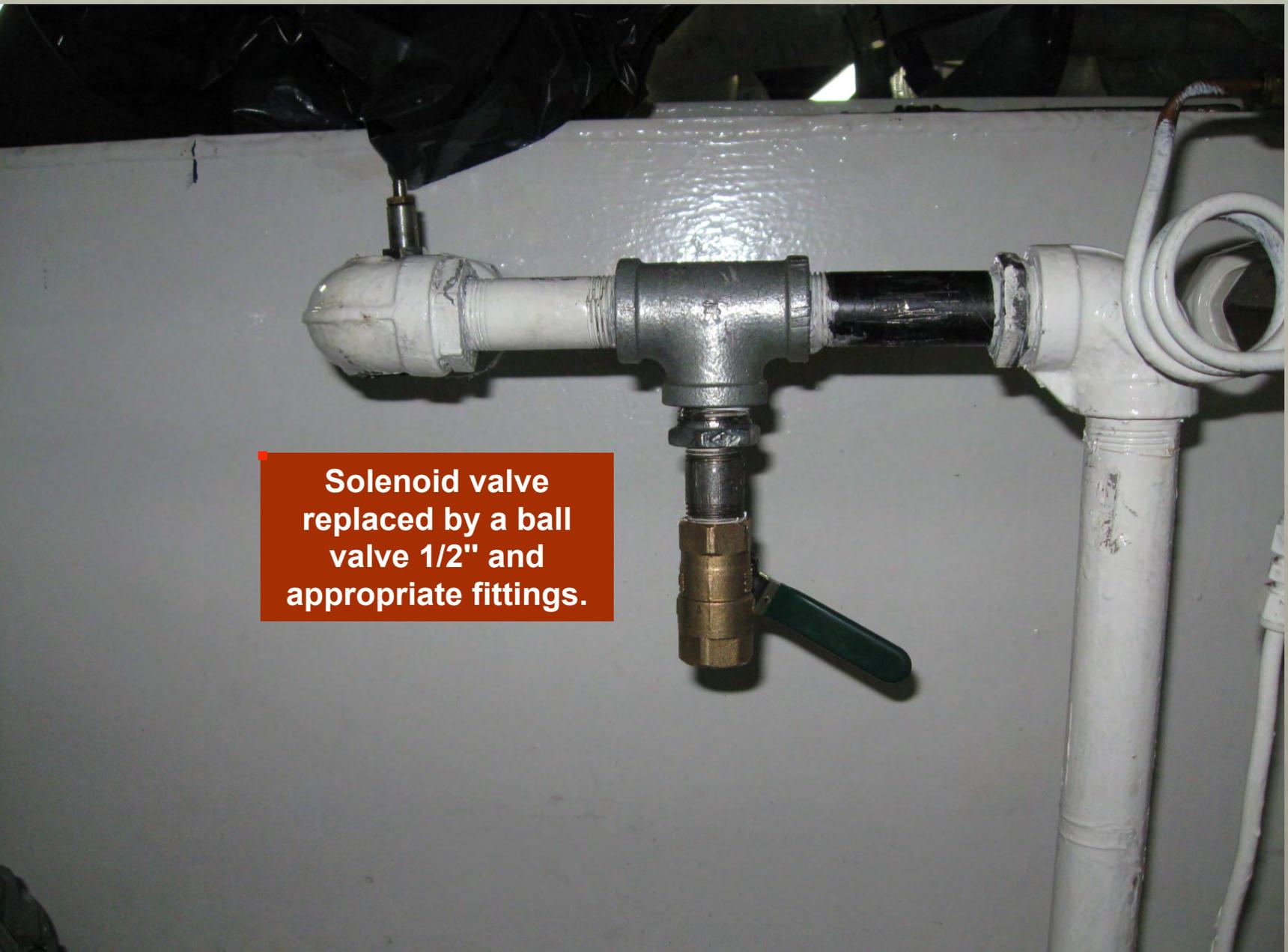


ENVIRONMENTAL SERVICES, INC.	DATE	BY	CHKD BY
PACIFIC GULF MARINE	05/06/09	PRELIMINARY	REVISION
MSD SKIMMER RETROFIT	05	033	001
GENERAL ARRANGEMENT			

REV. NO.	DATE	DESCRIPTION	BY	CHKD BY



**Center of the lid  
(Important).**



**Solenoid valve  
replaced by a ball  
valve 1/2" and  
appropriate fittings.**



**Bulkhead installed  
on the lid.**



Drilled hole for the bulkhead of sludge return to the balance pipe from the second to the first course.



Holes



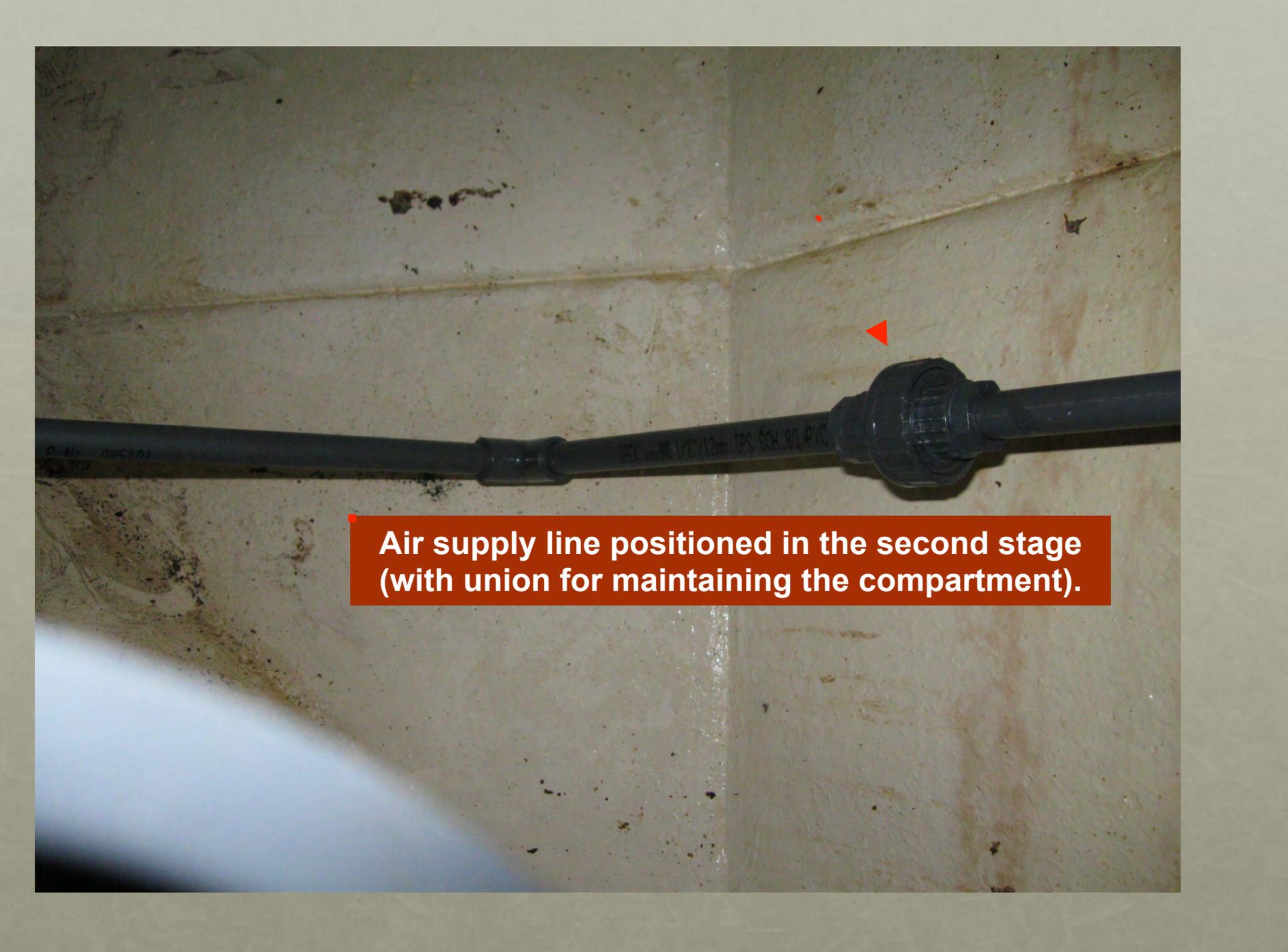
Positioned in the second stage for the return of sludge (with removable ring for the maintenance of the compartment) with the new air line attached and a new medium for the tip). The pipe should not touch the wall (bottom) of the funnel, it should be about 1/2".

The bulkhead splices must be installed so that they can tighten if necessary, during the operation.

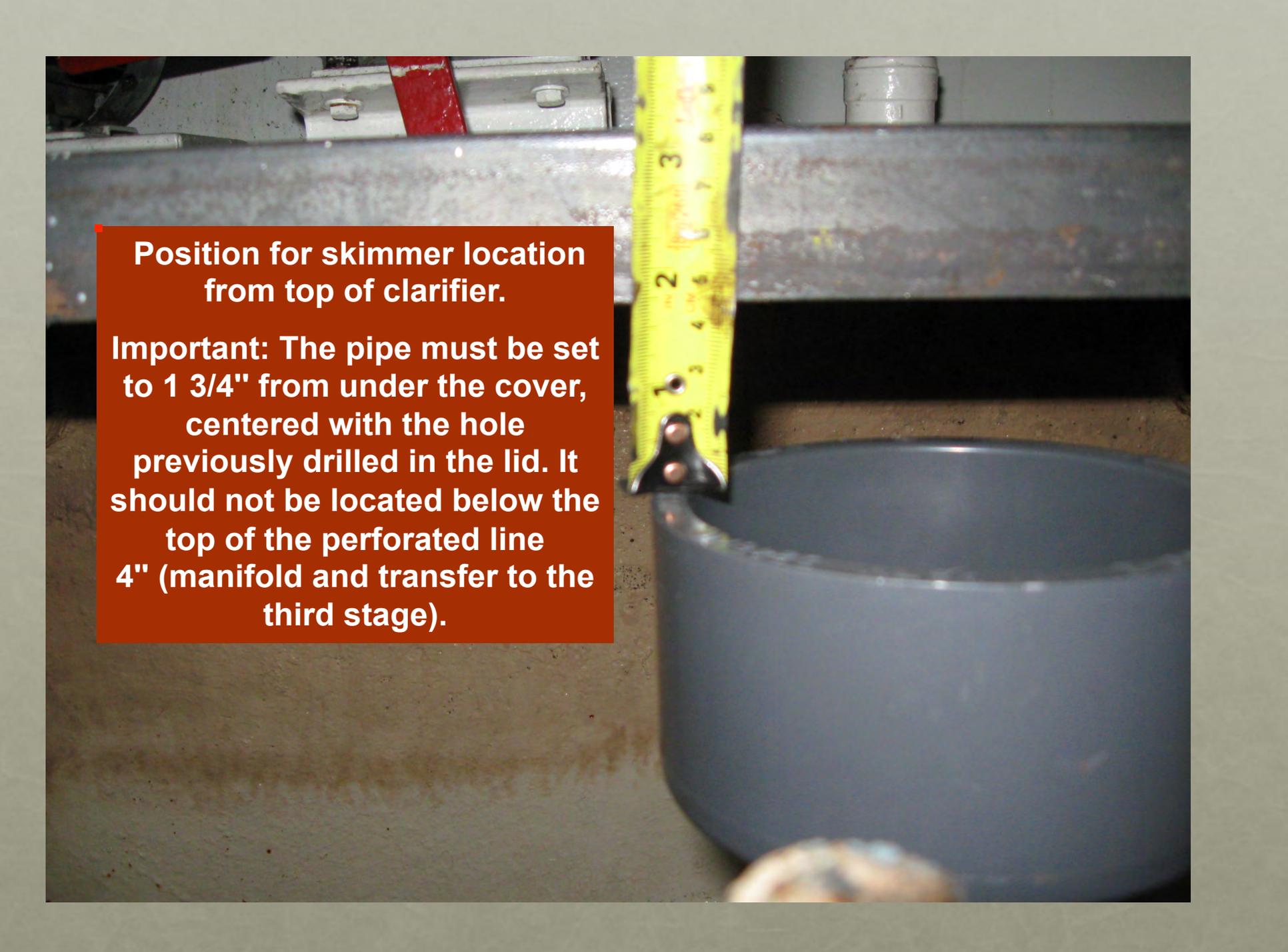




**New removable  
pipe support, for  
easy  
maintenance.**

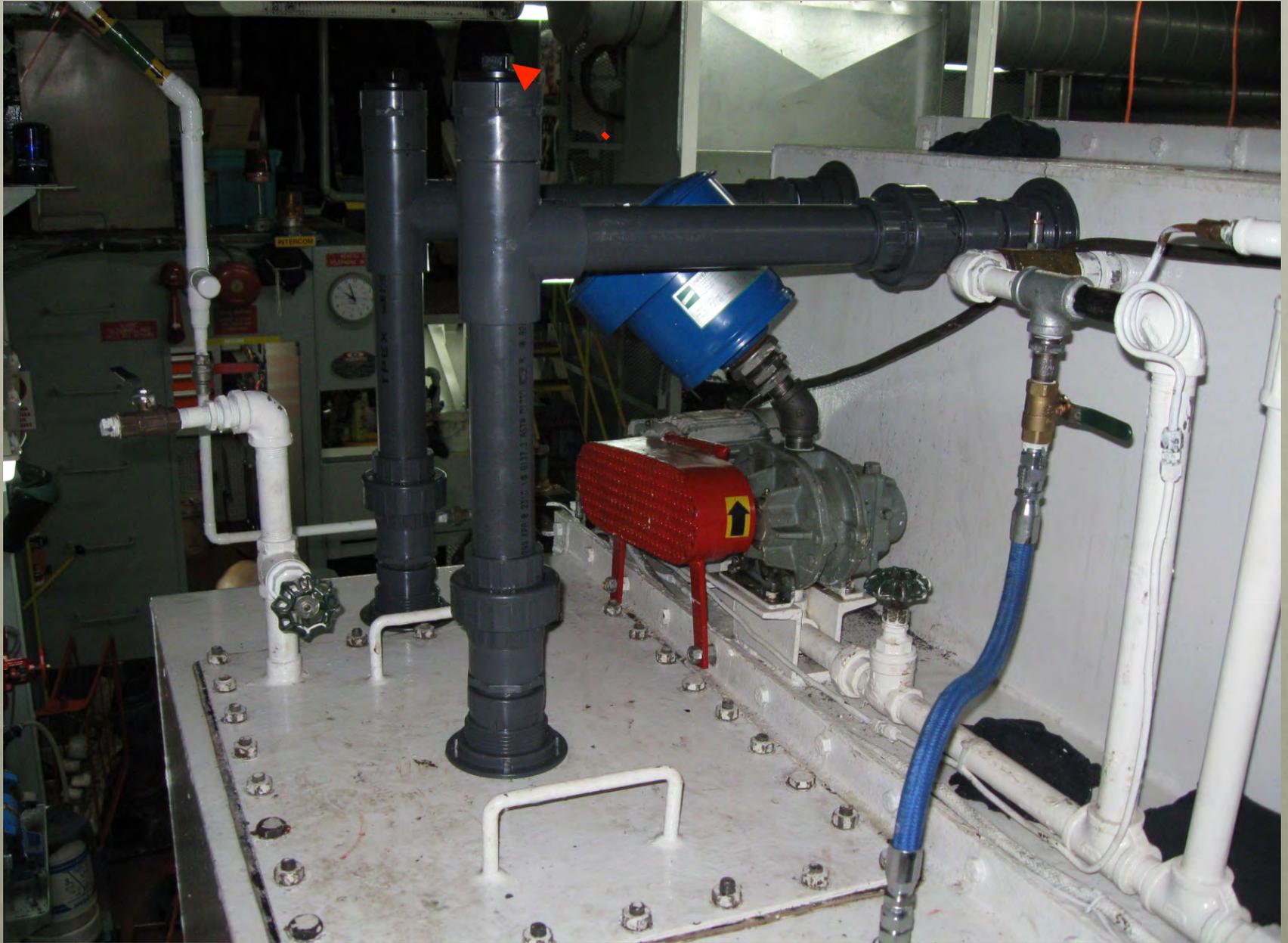


**Air supply line positioned in the second stage  
(with union for maintaining the compartment).**



**Position for skimmer location  
from top of clarifier.**

**Important: The pipe must be set  
to 1 3/4" from under the cover,  
centered with the hole  
previously drilled in the lid. It  
should not be located below the  
top of the perforated line  
4" (manifold and transfer to the  
third stage).**





■ **Aeration Tank View**