



Facility #: _____
MASSACHUSETTS WATER RESOURCES AUTHORITY
2 Griffin Way
Chelsea, Massachusetts 02150

Telephone: (617) 242-6000
Facsimile: (617) 371-1604

NOTIFICATION OF PROPOSED GAS/OIL SEPARATOR INSTALLATION

The Massachusetts Uniform State Plumbing Code, 248 CMR § 10.09(1)(d) 3., and the Massachusetts Water Resources Authority (MWRA) Sewer Use Regulations, 360 CMR 10.016, require that the MWRA be notified of the installation of a new gas/oil separator in the MWRA Sewer District so that it may be inspected and approved prior to backfilling. The separator installation is subject to approval by both the municipal plumbing inspector and the MWRA.

Please fill out (type written) the information below and submit this form to MWRA. Upon submission of this form and a plan of the proposed gas/oil separator, MWRA will contact you to establish a time and date for inspection of the separator.

Please submit information at least 10 days before installation to insure that an inspection can be scheduled.

DATE: _____
NAME OF APPLICANT: _____
COMPANY NAME: _____
CONTACT: _____
TELEPHONE NUMBER: _____
e-MAIL ADDRESS: _____
TYPE OF FACILITY BEING CONSTRUCTED: _____
ADDRESS OF SEPARATOR INSTALLATION: _____
EXPECTED DATE OF INSTALLATION: _____

SEPARATOR OWNER COMPANY NAME: _____
CONTACT NAME AND TITLE FOR FUTURE
SEPARATOR MAINTENANCE ISSUES: _____
ADDRESS: _____
PHONE NUMBER: _____
e-MAIL ADDRESS: _____

Send to: Massachusetts Water Resources Authority
Chelsea Facility
2 Griffin Way
Chelsea, Massachusetts 02150
Attention: Stephen Howard.
Email to: stephen.howard@mwra.com
Fax to: (617) 371-1604

For questions, call Stephen Howard, Toxic Reduction and Control at (617) 305-5675.

Instructions

Fill out the form above (type written – an electronic version may be acquired by contacting Stephen Howard – or neatly printed) and returning it to Stephen Howard, Source Coordinator, via the contact information listed below.

- The owner information should include contact information for **future** unannounced inspections of the separator by our staff to make sure the owner is maintaining the trap (name, title, phone number, e-mail address).
- The trap should follow State Plumbing Code. All piping shall be cast iron. No rubber boots may be used for connection of the piping to the separator; connections must be made using hydraulic cement.
- The dimensions of the waterseal and sump portions ("A" and "B" dimensions, respectively) must be at least as large as State Code.
- The effluent pipe must exit the separator at a 45 degree angle and the pipe may not protrude into the separator more than the picture in the State Plumbing Code book.
- There must be at least a 4" drop from the separator influent line to the standing water surface of the finished trap.
- Please list the number and type of drains the separator will service or supply the plumbing drawing that shows them. The list may be done on a separate page.
- An excerpt from the State Code is included on the following page.

I will need to inspect the trap when the installation is complete, but before it is backfilled. I will need to see the joints outside the chamber and will measure the dimensions to insure the correct proportions have been met.

For further information, contact:

Stephen Howard

Source Coordinator

stephen.howard@mwra.com

office: **(617) 305-5675**

cell: **(617) 756-1536**

fax: **(617) 371-1604**

Massachusetts Water Resources Authority

Toxic Reduction and Control

2 Griffin Way

Chelsea, MA 02150

INLET	D	A	B
4"	3'-6"	3'-0"	2'-6"
5"	3'-6" 3'-6" x 3'-6" 4'-0" 4'-0" x 4'-0" 4'-6"	5'-0" 4'-0" 3'-6" 3'-0" 3'-0"	4'-0" 3'-0" 3'-0" 2'-6" 2'-6"
6"	4'-0" 4'-0" x 4'-0" 4'-6" 4'-6" x 4'-6" 5'-0" 5'-0" x 5'-0"	5'-0" 4'-0" 4'-0" 3'-6" 3'-0" 3'-0"	4'-6" 3'-6" 3'-6" 3'-0" 3'-0" 2'-6"
8"	5'-0" 5'-6" x 5'-6" 6'-0" 6'-0" x 6'-0" 6'-6" 6'-6" x 6'-6"	6'-0" 4'-6" 4'-0" 3'-0" 3'-6" 3'-0"	5'-0" 4'-0" 3'-6" 2'-6" 3'-0" 2'-6"

Piping Material Notes:

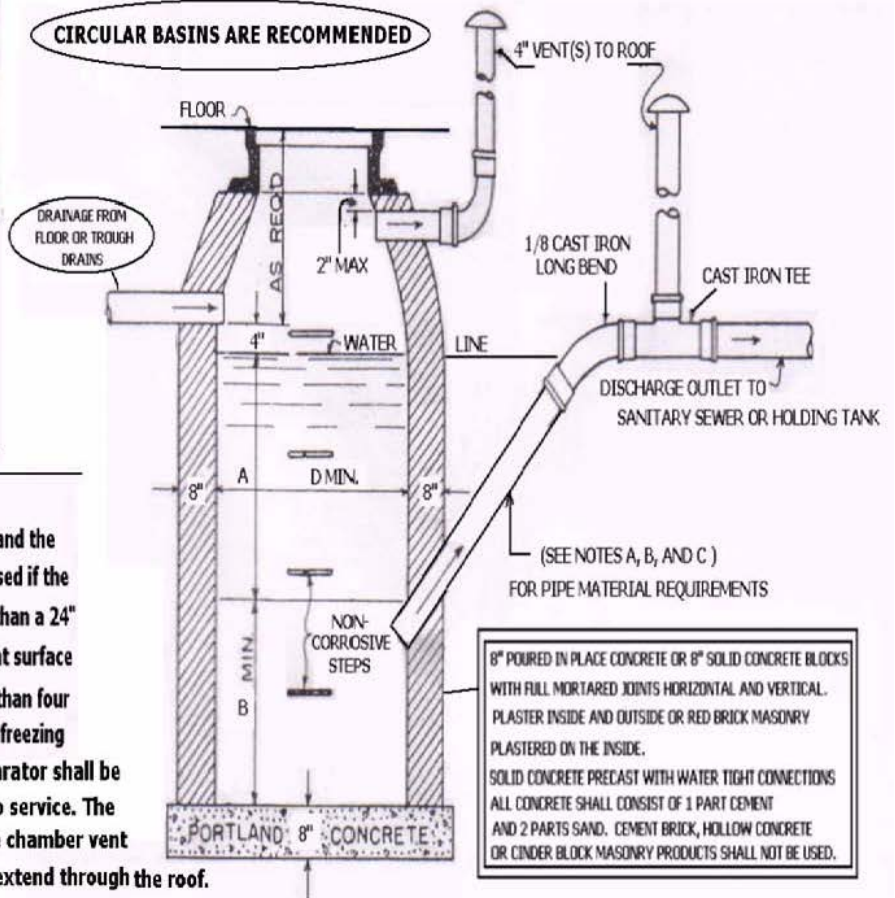
- A. No-Hub Cast Iron with Product-Approved Stainless Steel Clamps
- B. Service Weight Cast Iron with Product-Approved Resilient Gaskets or Lead and Oakum Joints.
- C. Extra Heavy Cast Iron with Product-Approved Resilient Gaskets or Lead and Oakum Joints

General Construction Notes:

The separator is to be located outside of a building where possible and the cover is to incorporate a center-hole. A sealed tight cover is to be used if the separator is located inside of a building. The cover shall be no less than a 24" diameter. The separator shall be located and constructed to prevent surface or sub-surface water from entering. The inlet pipe shall be no less than four inches above the water line level. When the separator is subject to freezing it shall be set a minimum of three feet below grade. The separator shall be filled with water and leak tested before being introduced into service. The non-corrosive steps shall be spaced at 18"-inches apart. The chamber vent and outlet vent shall return to the inside of the building and extend through the roof.

The Commonwealth of Massachusetts Board of Examiners of Plumbers and Gasfitters Gasoline, Oil and Sand Separator Design

- In open parking garages or open parking area(s) ONLY the inlet pipe may extend below the water line a maximum distance of 6"-inches.



Preparing for MWRA Gas/Oil Separator Inspection

Here's what I would like at the time of inspection:

Mortar the joints (no rubber boots allowed – hydraulic cement only). Once you have the plumbing in place, I will want to see the device before it is backfilled.

1. Use the same size for both the inlet and outlet. For example, do not use a 6" outlet for a 4" inlet.
2. **I want to be able to see the seam all the way around the tank** so make sure it is not backfilled above that level. I also want to see 1' below where the outlet pipe comes out of the tank.
3. Put a plug in the outlet line on the outside where it can be removed once I confirm that there are no leaks.
4. Fill it with water and check it for leaks. If it leaks fix it before you call me for the inspection. The outlet pipe (45 degree angle) is particularly difficult to seal so the installer should be careful when mortaring the joint. Again, **I want to see the connection with the tank 1' below that joint.**
5. Once you call me, I will come out and look at the device to make sure it's not leaking. I will have you remove the plug in the outlet line and observe the water level to make sure you have the 4" drop from the inlet to the water surface. It has to be a minimum of 4". It can be more, it just can't be less.
6. Have a 2" pump onsite to pump the tank so I can check your dimensions in the tank for code compliance.
7. Make sure your rungs line up with the manhole entrance.
8. **Make sure the outlet pipe does not stick into the chamber any more than the illustration in Code (the illustration on the next page is from the Massachusetts State Plumbing Code) – it should look like the picture.**

Any questions along the way, give me a call.

Stephen Howard
Source Coordinator

stephen.howard@mwra.com

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