

## **IX. GREASE INTERCEPTOR TRAPS/SAND INTERCEPTOR TRAP AND PLUMBING INTERCEPTOR**

### **A. General**

A pretreatment tank on a wastewater service line known as a grease Interceptor trap, oil Interceptor trap or separator, sand Interceptor trap or plumbing interceptor (interceptor and separator are interchangeable.) is required by the Bastrop City Code for any non-residential wastewater service connection which may contribute grease, oil or other floatable material, grit, mud, sand or gravel which could cause a violation of the City's Industrial Waste Ordinance.

A non-residential facility need not plumb the following fixtures to the interceptor trap: restroom or bathroom fixtures, clothes washing drains, hand washing or mop sinks and drinking fountains.

The traps (~~or any other plumbing interceptors as referred to in the preceding paragraph~~ and buried underground) shall be an underground watertight vapor tight ~~concrete~~, two compartment, tank sized, constructed and installed in accordance with the following regulations and the Standard Detail following.

Vehicle wash and maintenance facilities shall have individual grated catch basins under wash racks with a trap separator (~~on the wastewater service line prior to connection to the City collection system.~~)

### **B. Capacity**

~~The trap interceptor shall be sized to contain a volume of water equal to or greater than 12 minutes of the peak flow rate through the trap but not less than 250 gallons. Where the flow rate is not known or measured, it can be calculated based on 3 gallons per minute per standard plumbing fixture unit (as designated by the Standard Plumbing Code) connected to the trap. by the manufacture or in accordance to the International Plumbing Code in effect for the City of Bastrop.~~

~~The first compartment shall contain approximately 60% of the total volume and the second compartment shall contain 40%.~~

~~Traps Separators for car washes shall have a minimum of 250 gallons capacity for the first wash bay plus 100 gallons capacity for each additional bay.~~

### **C. Design**

The trap interceptor shall be watertight and structurally sound, capable of withstanding the earth backfill loading and wheel loads (Traffic Loading H20 per ASTM A796) in traffic areas.

~~Concrete for the tank shall be a minimum of 3600 psi strength and shall be reinforced with number 4 ASTM A615, Grade 60 steel bars spaced a maximum of 12" apart in vertical and horizontal. The tank shall have cured a minimum of 7 days before shipping.~~

The inlet and outlet connections in the tank walls shall be not less than 4", the inlet nozzle shall be a minimum of 12" below the operating level and the outlet nozzle shall be a minimum of 20" below the operating level and shall be pumped to create a minimum 3-inch drop, between the inlet and outlet lines. The first trap chamber shall have a 2" vent and the outlet pipe shall also be vented. The trap vents shall be connected to the building plumbing vents. An outlet cleanout shall be provided and shall be accessible for sampling by the City or an alternate accessible provision for sampling shall be provided on the trap outlet line.

Each compartment shall have a removable, accessible, manhole cover at the ground surface with minimum opening of 20 inches in any dimension. The area around the trap interceptor shall be graded so as not to allow surface drainage to enter the manhole.

The trap interceptor shall be watertight and sealed between sections and between the walls and the top (although manhole riser, rings and cover do not need to be watertight).

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~~A baffle of at least 20 square inches in area shall be permanently installed not less than 6" nor greater than 18" in front of the inlet nozzle of the first compartment.~~

### **D. Installation and Inspection**

Traps Interceptors shall be placed level on a bed of washed sand or pea gravel and shall be tested for water tightness prior to backfilling. The water test requires filling the tank to a point above the underside of the top and observing the water level over a 24 hour period. No noticeable (less than 1/4 inch) drop in water level from the initial measuring point is the passing criteria.

After the water test, the tank may be backfilled and plumbed and an inspection of the piping, grades, backfill and venting shall be made for conformance with this standard.

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