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Exterior Grease Trap Construction Standards

Per Town of Ferdinand Rules/Regulations all separators shall be of a type and capacity approved by the wastewater superintendent and shall be located so as to be readily and easily accessible for cleaning and inspection. All grease separators shall be maintained continuously in a safe, satisfactory, and effective operation by the owner(s) at his/her expense.

- 1) Pre-cast concrete, exterior kitchen grease trap is required at a minimum distance of 10 feet from building. (Sizing per attached).
- 2) Two openings for cleaning shall be provided.
- 3) The trap shall be constructed water tight.
- 4) The inlet pipe size from the building foundation to the trap shall be 4 inch diameter with a 4 inch diameter outlet to 3 feet outside the tank, and then increased to a minimum 6 inch diameter sewer pipe for the remainder of the pipe to the public sewer.
- 5) The tank shall have a minimum of a 2 inch drop in elevation from the inlet to outlet flow line. The outlet shall have a vertical pipe drop from a tee to 6" above the floor.
- 6) The grease trap shall be maintained at your expense for effective retention of grease. Finally, a concrete baffle wall located two-thirds of the length of the tank from the inlet with a 4" drop tee pipe having a flow line 2 feet above the tank floor is recommended for optimal performance and cleaning intervals.
- 7) The Town reserves the right to require larger sized traps any time existing traps are undersized. Increased cleaning frequencies, when necessary, also may be enforced.

Reducing grease in the Town's sewer system results in a more efficient operation of the wastewater collection and treatment systems and is a benefit to all customers.

Grease Trap Sizing Formula:

It is the responsibility of the generator and his/her contractors to ensure that the wastewater discharge from their facility is in compliance with Town of Ferdinand's discharge limitations. For the purpose of plan review, a general assessment of grease trap/interceptor design and size will be performed using the following formula. (This formula been demonstrated as industry standard capable of achieving the Towns discharge criteria when systems are maintained in proper condition, e.g. cleaning frequency/interval.)

Uniform Plumbing Code:

Number of meals x waste flow x retention x storage = *Size
Per peak hour (1) rate (2) time (3) factor (4) Requirements

*Liquid capacity. Round to nearest 500 gallon standard, pre-cast size.

Factors:

- 1) Number of meals served at peak operating hour (Seating Capacity) x Peak Factor
 - a. Where Peak Factor for fast food restaurant is 1.33
 - b. Peak Factor for all other food service types is 1.00
- 2) Waste Flow Rate:
 - a) With dishwasher = 6 gallons
 - b) Without dishwasher = 5 gallons
 - c) Single service kitchen = 2 gallons
 - d) Food waste disposer = 1 gallon
- 3) Retention Times:
 - a) Commercial kitchen waste/dishwasher = 2.5 hours
 - b) Single service kitchen/single serving = 1.5 hours
(No food prep, only heat/serve, e.g. snacks, paper plates, etc.)
- 4) Storage Factor:
 - a) Fully equipped commercial kitchen, 8 hours operation = 1
 - b) 16 hour operation = 2
 - c) 24 hour operation = 3
 - d) Single service kitchen = 1.5