

INTRODUCTION



Training Director for Local 12 since 2007



Trained over 300 apprentices and 1500 journeymen



Former Plumbing Board member



Master Plumber

TOPICS

Sanitary Piping

Water Piping/Cross Connection



GREASE INTERCEPTOR

Why do we need an interceptor?

Interceptors collect the fats, oils and grease from food preparation to pretreat the waste before it enters the plumbing system.



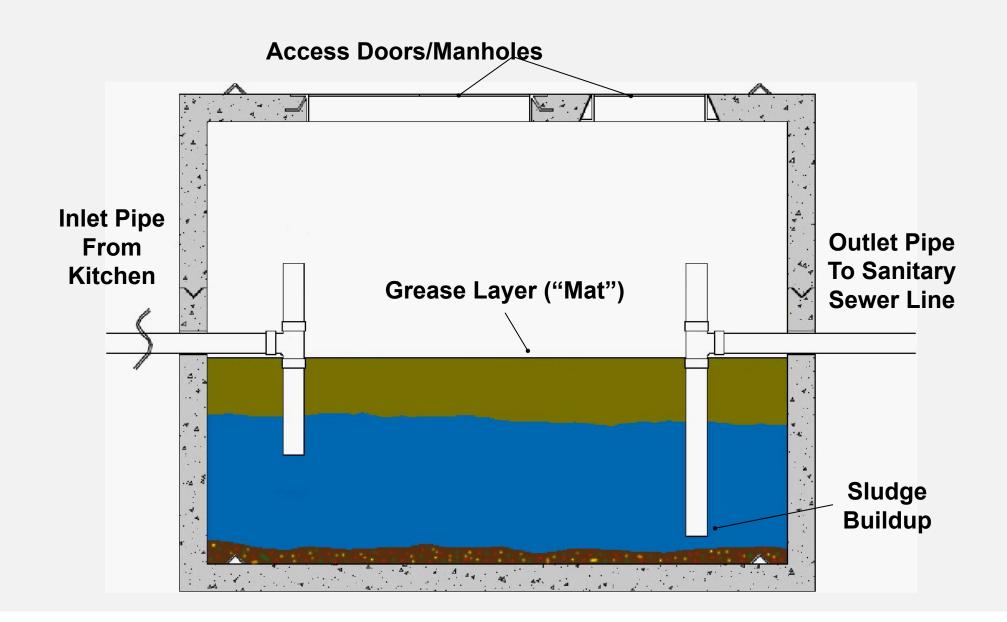
PRETREATMENT SYSTEMS



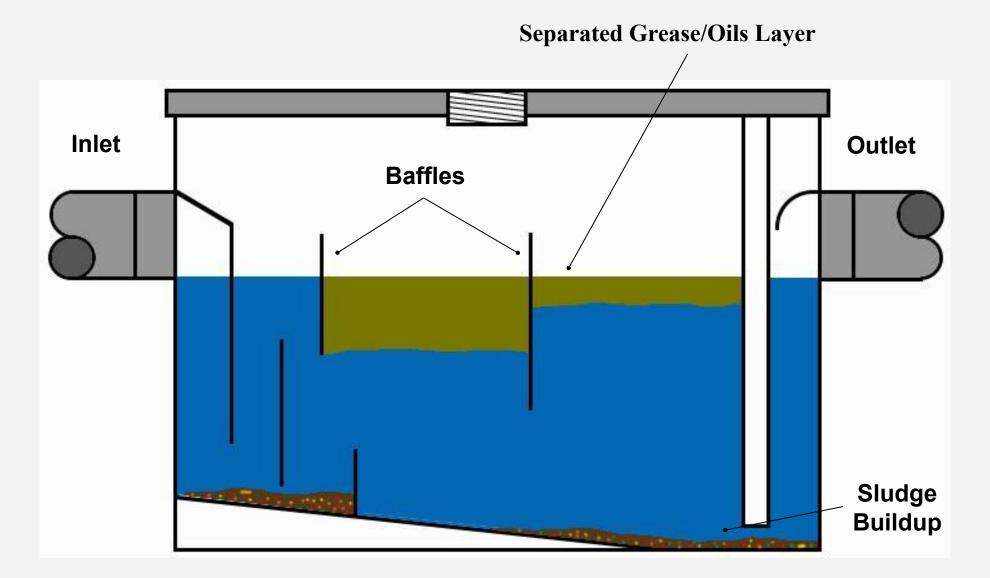




EXTERIOR GREASE INTERCEPTOR

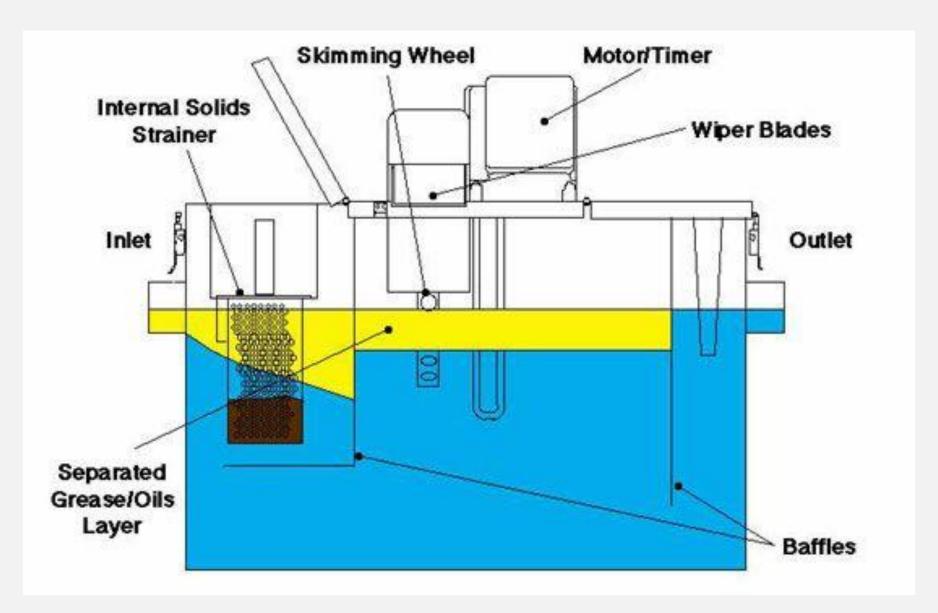


PASSIVE GREASE INTERCEPTOR- "UNDER THE SINK"



AUTOMATIC REMOVAL SYSTEMS-"UNDER THE

SINK"



GREASETRAP INTERCEPTOR- PASSIVE





POT SINK



SCULLERY SINK



DISHWASHERS



SOUP KETTLE



PRE-RINSE SINK - NO FOOD WASTE GRINDER

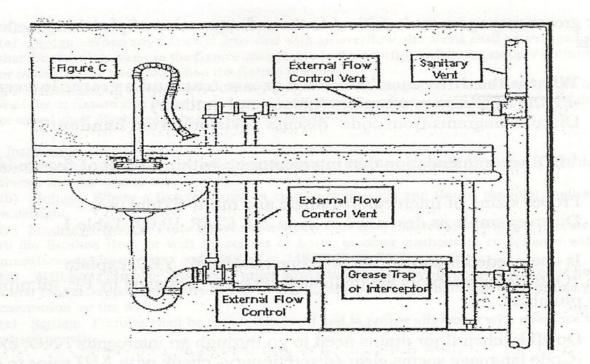


PRE-RINSE SINK LESS DISPOSAL

CORRECT

248 CMR: BOARD OF STATE EXAMINERS OF PLUMBERS AND GAS FITTERS

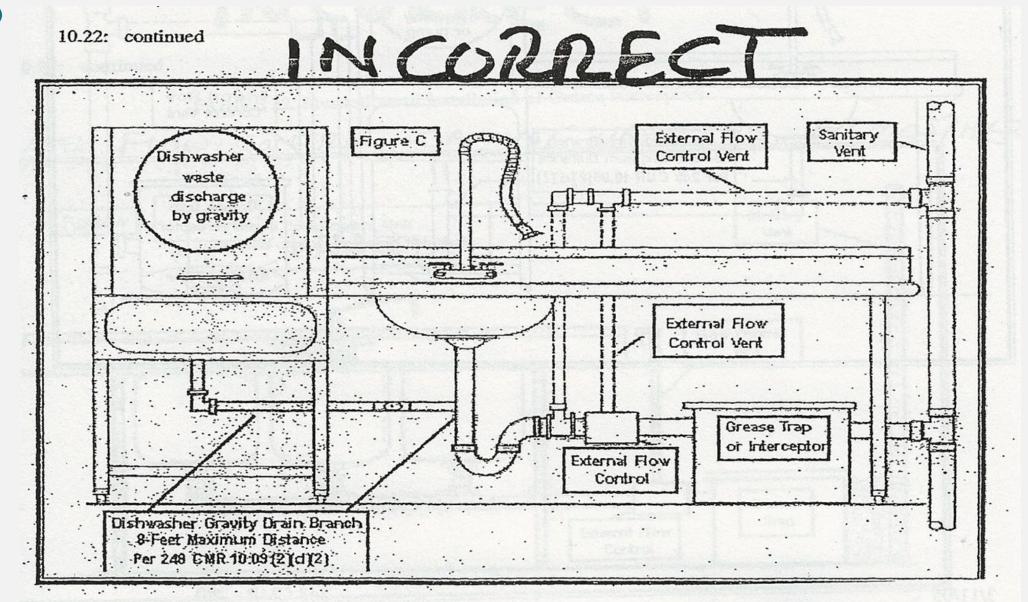
10.22: continued



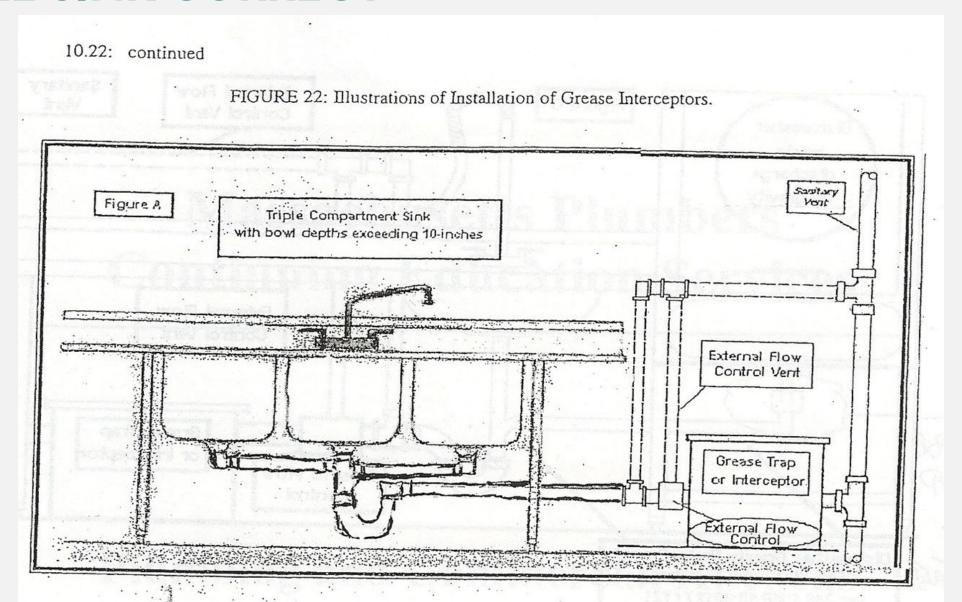
*EXTERNAL FLOW CONTROL MUST CONNECT TO SANITARY VENT FIXTURE MUST BE TRAPPED AND VENTED

DISHWASHER WITH PRE-RINSE SINK INCORRECT (NO

AIR GAP)



TRIPLE SINK CORRECT



INDIRECT WASTE PIPING

INDIRECT WASTE PIPING REQUIRED -

REFRIGERATOR



INDIRECT WASTE PIPING - WALK IN COOLER



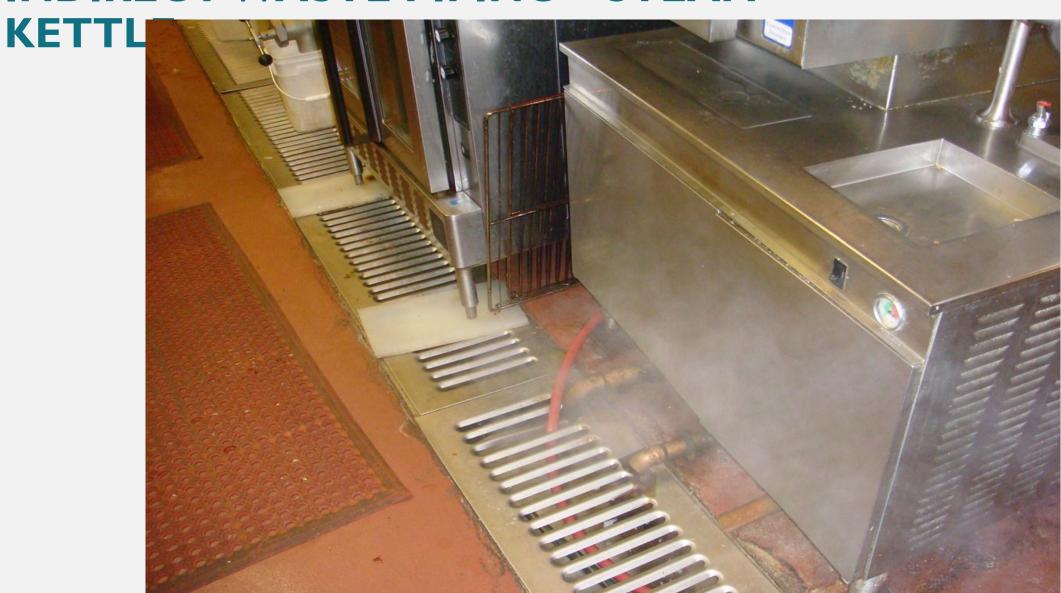
INDIRECT WASTE PIPING - ICE COMPARTMENT



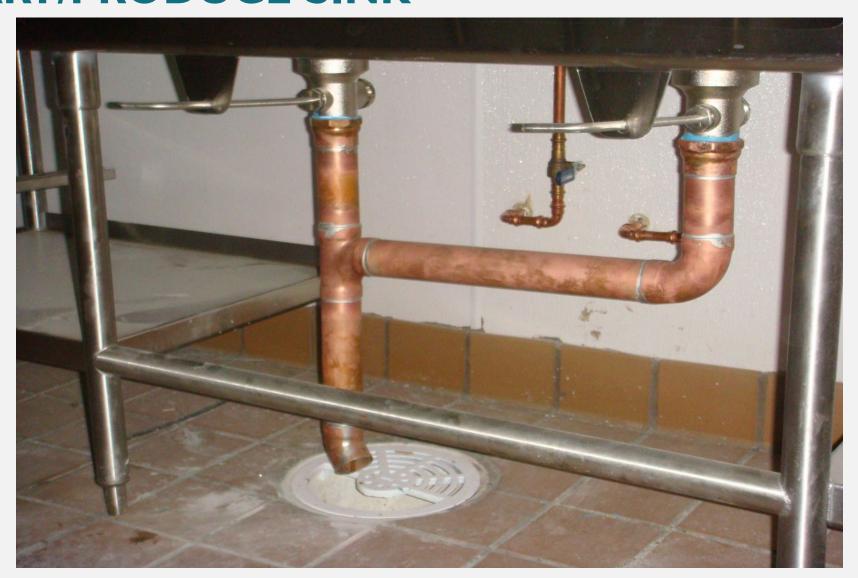
INDIRECT WASTE PIPING - ICE MAKING MACHINE



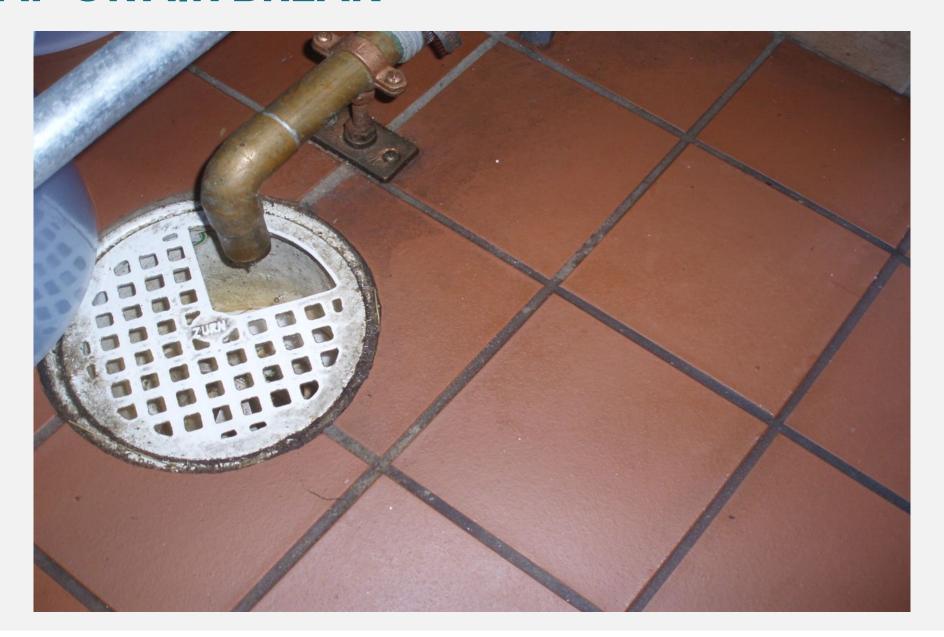
INDIRECT WASTE PIPING – STEAM



INDIRECT WASTE PIPING – DOUBLE COMPARTMENT CULINARY/PRODUCE SINK



AIR GAP OR AIR BREAK





CROSS CONNECTION CONTROL REQUIREMENT AT DISHWASHER



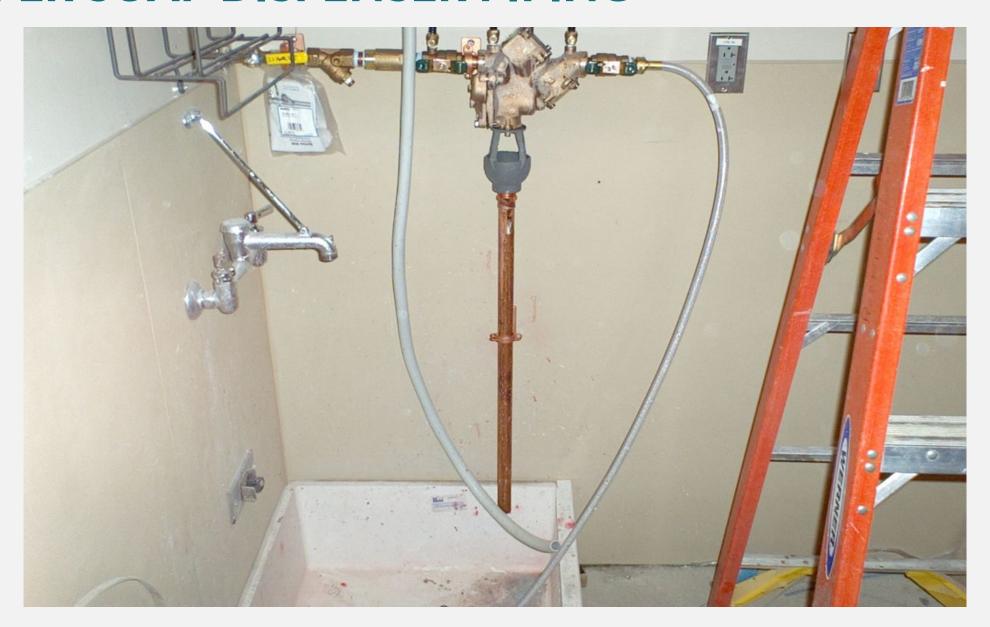
PROPER DISHWASHER PROTECTION



COMMON KITCHEN CROSS CONNECTION



PROPER SOAP DISPENSER PIPING



PLUMBING PERMITS

Any work that is done on the plumbing systems either water supply or sanitary requires a permit from the town or city.

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HARD WATER

In Food Establishments

What is hard water?

• Hard water is caused by the water supply having a sufficient amount of minerals in in to cause a build up on or in plumbing fixtures.

Solutions

• The most effective solution is to have the owner install a water filtration system to remove the minerals from the water coming into the establishment.



PLUMBING INSPECTORS

- •Inspectors are your partners in making sure the establishment is safe.
- •When you see something that is out of the ordinary get them involved.



