

TOWN of CARY
Public Works and Utilities Department
Pretreatment Division

General Plumbing Design and Construction Requirements:

- ?? **Food Service Establishments**
- ?? **Automotive and Vehicle Wash Facilities**
- ?? ***Trash Compactor/Dumpster Pad with Drain**
- ?? **Elevator Sump Discharge**
- ?? **Silver Recovery Systems for Photo Development Processes**
- ?? **Laboratories**
- ?? **Spill Control**

The following is a general guideline designed to help direct commercial facilities to the Town of Cary Public Works and Utilities Department Pretreatment Division for plumbing design and construction requirements. The Pretreatment Division enforces the Town's Sewer Use Ordinance that protects the wastewater collection and treatment system.

Contact the Pretreatment Division at (919) 462-3871 or (919) 319-4564 for specific pretreatment plumbing design and construction requirements or visit the Town's website at www.townofcary.org.

Food Service Establishments (FSE)

The Town of Cary Fats, Oils, and Grease Control Program, which is located in the Sewer Use Ordinance (Section 36-183) is designed to aid in the prevention of sanitary sewer blockages and obstructions from the contribution and accumulation of fats, oils, and greases into such sewer system from industrial or commercial establishments, particularly food preparation and serving facilities. FSE are required to install Town approved grease interceptor(s) and maintain said interceptor to reduce the contribution of fats, oils, and grease into the sewer system.

Typical Food Service Establishments (FSE) who are affected by the Town of Cary Fats, Oils, and Grease Control Program:

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| ?? Restaurants | ?? Bakery (includes in home baking businesses) |
| ?? Cafeterias | ?? Concession Stands |
| ?? Schools | ?? Meat/Deli/Seafood Facilities |
| ?? Daycare/Retirement Facilities (who prepare food) | ?? Club Houses / Recreation Centers |
| ?? Café (coffee shops/sandwich/grill facilities) | ?? Churches |
| ?? Caterers (includes in home catering businesses) | ?? Ice Cream Shops |

Automotive and Car Wash Facilities

The Town of Cary Sewer Use Ordinance (section 36-173 (2)b. c. and (9)b.3.) prohibits the discharge of petroleum oils and debris (sand/grit) in amounts that will cause interference with the wastewater collection and treatment system. Automotive facilities are required to install oil/water separators and Car Wash Facilities are required to install sand/grit interceptors and oil/water separators.

Typical Commercial Facilities who are required to install sand/grit interceptors and/or oil/water separators:

- ?? Automotive Repair
- ?? Hand/Automated Car Wash
- ?? Equipment Wash/Repair
- ?? Lube Shops
- ?? Apartment Car Wash Facilities

***Trash Compactor/Dumpster Pad with Drain**

* For compactor/dumpster used only at facilities that may contain liquid wastes such as food service establishments and apartment/residential complexes.

The Town of Cary Sewer Use Ordinance (section 36-173 (2) o.) prohibits the discharge of stormwater into the wastewater collection and treatment system.

Trash compactor and dumpster pads that includes a drain to the sanitary sewer system must be covered or protected from stormwater inflow and shall include Town specific solids interception and oil/grease interception. Compactor and dumpster pads designs that include a drain to the sanitary sewer must be approved by the Pretreatment Division.

Typical Facilities who may contain a compactor/dumpster pad:

- ?? Food Service Establishments
- ?? Apartments/Town Homes
- ?? Schools
- ?? Shopping Centers
- ?? Residential Care Facilities
- ?? Entertainment Centers

Elevator Sump Discharge

The Town of Cary Sewer Use Ordinance (section 36-173 c.) prohibits the discharge of petroleum oils in amounts that will cause interference with the wastewater collection and treatment system.

Elevator systems which employ hydraulics and that includes a sump pump in the elevator shaft shall connect to a holding tank with a liquid level alarm. Said tank shall be constructed of materials impervious to petroleum hydrocarbon and equaling 100% of the elevator's hydraulic fluid capacity, or connect to an oil/water separator with a hydraulic capacity equaling 150% of the elevator's hydraulic fluid capacity.

Typical facilities that may employ elevators

- ?? Multi-story public buildings
- ?? Apartment Complexes
- ?? Hotels
- ?? Multi-story Office Buildings

Silver Recovery

The Town of Cary Sewer Use Ordinance (section 36-173 (5.)) limits the discharge of pollutants of concern which can affect the performance of the wastewater treatment system.

Photo processing facilities which generate silver rich solutions are required to install silver recovery devices to reduce the discharge of silver into the Town of Cary Wastewater Treatment System.

Typical facilities that may employ photo processing and generate silver rich solutions include:

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| ?? Hospitals | ?? Doctor's Offices |
| ?? Facilities that employ X-ray photo processing | ?? Dental Offices |
| ?? Veterinarians | ?? Photo shops/color photo development |
| ?? Chiropractor's Offices | |

Laboratories

The Town of Cary Sewer Use Ordinance (section 36-173 (5.)) limits the discharge of pollutants of concern which can affect the performance of the wastewater treatment system.

Laboratories may conduct a multitude of wet chemistry, analytical, and research projects which produce a waste product or produce glassware/equipment that requires washing. All Laboratories should have in place a chemical hygiene plan which details the appropriate disposal of all waste products. Disposal manifests are required to be maintained for review by the Town for determination of appropriate disposal of said wastes. No disposal of waste products from a laboratory shall be discharged to the sanitary sewer without first obtaining written approval from the Town of Cary Public Works and Utilities Department Director.

Typically Laboratories include sinks for the washing of glassware; generally with Town approval, a pH neutralization tank shall be included on all fixtures that may receive wash and rinse waters having acidic properties. All waste piping in the laboratory shall be constructed to accommodate the proposed activities of the laboratory.

Typical facilities that may contain a laboratory:

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| ?? Commercial Laboratories | ?? Pharmaceutical Operations |
| ?? Hospitals | ?? Research Facilities |
| ?? Schools | ?? Doctor's Office/Clinics |

Spill Control

The Town of Cary Sewer Use Ordinance (section 36-173 (10.)) may require facilities that store bulk liquids to install spill control devices and/or implement a spill control plan to prevent the accidental discharge of bulk liquid or liquids of concern into the sanitary sewer system. Large volumes of potentially damaging liquids or liquids of any volume that can cause damage to the wastewater collection and treatment system must be contained in a manner to prevent accidental or unforeseen discharges.

Some typical liquids of concern:

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| ?? Petroleum Hydrocarbons (oils, fuels, etc.) | ?? Propylene/Ethylene Glycol (cooling liquids) |
| ?? Bulk Chemical Storage
(Acidic/Corrosive/Toxic) | ?? Large volumes of water |
| ?? Biocides/Algaecides | ?? Detergents/Soaps |

Note: No liquid volumes are included as they are evaluated on a case by case basis by the Town of Cary