



Underground Flammable & Combustible Liquid Storage Tanks (UST) Information Required on Submitted Drawings

Drawings – Three (3) sets of drawings stamped and signed by an engineer licensed to practice in the Province of Alberta – National Fire Code, Alberta Edition (NFC-AE) for all tanks over 230 litres; inclusive of all piping and transfers systems requiring excavation. Unless otherwise specified, all references are to the NFC-AE.

The following drawings shall be submitted for review

- Overall Site Plan – showing the site relative to adjacent streets and buildings
- Site Finished Grades – indicating a spill is designed to stay on the property
- Mechanical Site Plan – showing underground drainage (catch basins, piping, oil/water separator)
- Electrical Site Plan – emergency shutdown, horns, strobes, communication devices
- Piping System – underground layout, sumps and associated details
- Tank Sections & Details – distances, tank specifications, product, vent rack, supporting slab, spill containment

General Information to be included on the drawings or attached documents

1. List of applicable codes and standards, product and tank size.
2. Dimensions, distances to tanks, buildings, property lines, dispensers.
3. Site classification – card lock, self-serve, full serve.
4. Oil/water separator is required at new and substantially renovated sites where the storm water management system is excavated or upgraded.
5. **Exterior emergency shutoff**, communication devices.

Underground Tank Removal

If the site requires an underground tank to be removed an application to remove shall be submitted 30 days prior to removal to the Calgary Fire Department – Inspections & Investigations - tanks@calgary.ca

Detail Check Sheet to NFC-AE:

- Drawings to have an engineer signed stamp
- Distance to property lines, buildings, propane tanks, adjacent tanks

- Emergency planning (Fire Safety Plan)
- Manufacturer's specification sheet included for all tanks
- Anchorage of tanks
- Installation on a supporting base
- Ground cover over tanks
- Leakage detection of storage tanks and piping systems
- Shut off device location and identification
- Collision protection for fixed dispensers
- Venting piping and rack location
- Installation and arrangement of piping
- Spill control and drainage systems
- Access for firefighting
- Details required for self service outlets
- Details required for card or key activated dispensers
- Dispenser and sump standards, dispenser location
- Overfill and spill containment
- Portable extinguishers at fuel dispensing stations
- Delivery hoses and nozzle standards, breakaway coupling
- Corrosion protection of underground steel storage tanks

Spill Control and Drainage Systems - NFC (AE) – Subsection 4.1.6.
City of Calgary Drainage Bylaw 37M 2005

Within The City of Calgary jurisdictional boundaries;

An Interceptor (oil and water or oil and grit separator) may be required at any site where a flammable & combustible storage tank is present. Where the Interceptor is connected to the underground storm water management system it shall be located at the last catch basin prior to leaving the site. Maintenance and proper removal and disposal of contained oil/grit shall be included in the Fire Safety Plan for the site. Contact The City of Calgary Infrastructure Planning - Water Resources via 311 within Calgary or 403-268-CITY (2489) outside Calgary for details regarding the type and location of separator that is required.

The installation, alteration and maintenance of any flammable and combustible liquid storage tank system shall comply with the requirements as outlined in the NFC-AE and the NBC-AE and any referenced documents within these codes.

Submit Drawings to:
Calgary Fire Department,
Fire Inspections & Investigations
Email: tanks@calgary.ca
Website: calgary.ca/tanks