Underground Propane Tanks

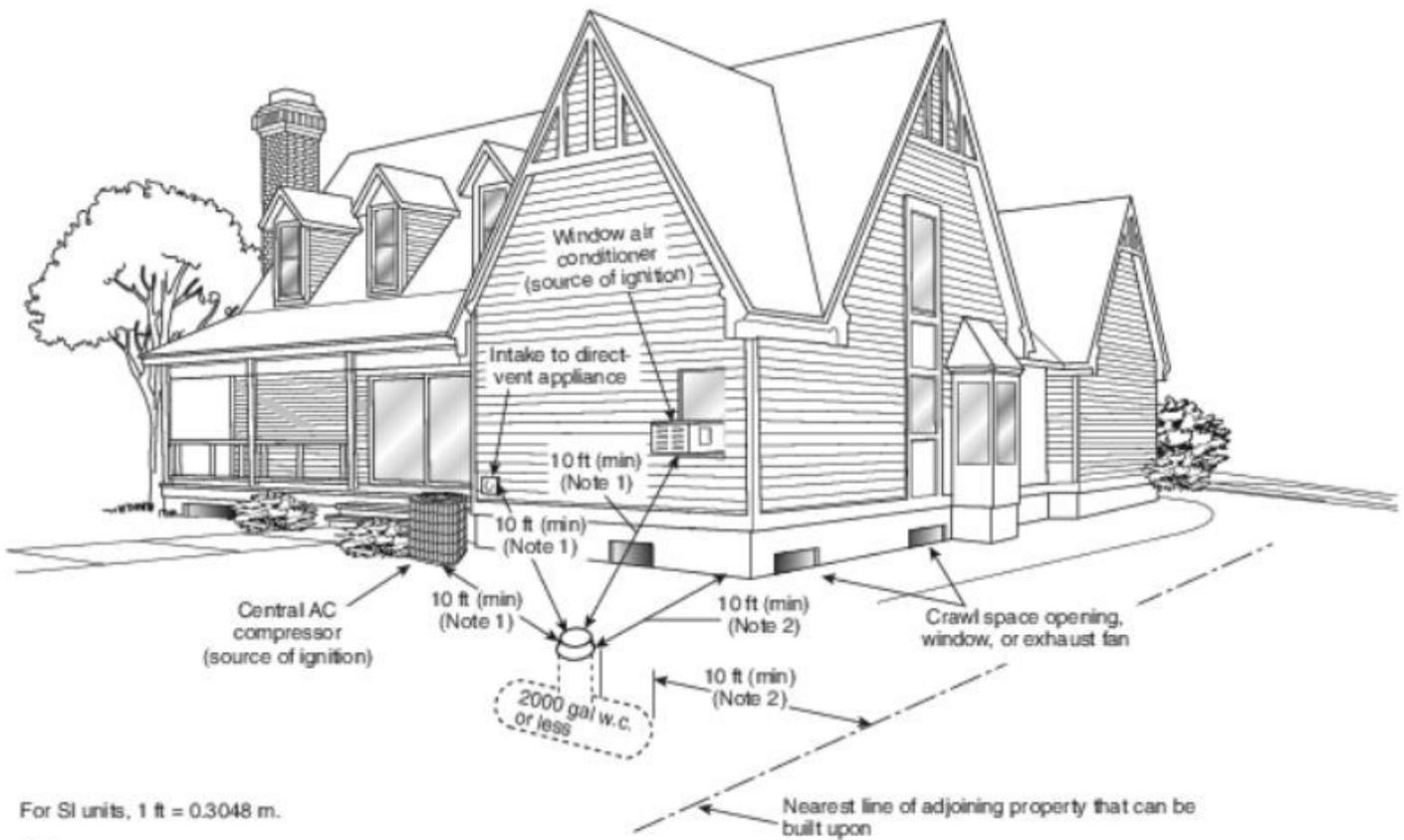## Specific requirements:

Provide the local fire department sign off on plot plan

- Tanks must be installed by qualified and trained individuals.
- ASME containers must be constructed and listed for underground service and <u>MARKED</u> accordingly.
- Have a factory applied epoxy coating,
- Anode protection
- If ground water is encountered or you're in a high water area. An engineered dead man system is required.
- See page two of this handout for underground tank locations and setbacks.

General Installation and Inspection Checklist:

1. _____ Bottom of hole level and free of rocks. If rocks are present a 6" bed of sand is needed.
2. _____ Bottom of the hole must be the proper depth to allow the dome to extend far enough above finish grade that water will flow away from the dome.
3. _____ Tank must be a minimum of 6" below grade or if subject action from traffic, a parking lot, etc. is encountered, it must 18" below grade and 5' from a driveway and 10' from a public road.
4. _____ Backfill must be free of rocks or abrasives
5. _____ If ground water or high water area dead man system is installed.
6. _____ Install the regulator so the vent is above the highest possible water level.
7. _____ Anode bags installed. 1@ 17 lb. for 500 gallon tank, 2@ 17lb. for 1000 gallon tank

Reference Codes: 2022 CA Plumbing Code, NFPA 58 & 2022 CA Fire Code

Window air conditioner (source of ignition)

Intake to direct-vent appliance

10 ft (min) (Note 1)

10 ft (min) (Note 1)

Central AC compressor (source of ignition)

10 ft (min) (Note 1)

10 ft (min) (Note 2)

10 ft (min) (Note 2)

2000 gal w.c. or less

Crawl space opening, window, or exhaust fan

Nearest line of adjoining property that can be built upon

For SI units, 1 ft = 0.3048 m.

Notes:
(1) The relief valve, filling connection, and fixed maximum liquid level gauge vent connection at the container must be at least 10 ft from any exterior source of ignition, openings into direct-vent appliances, or mechanical ventilation air intakes. Refer to 6.3.4.4.
(2) No part of an underground container can be less than 10 ft from an important building or line of adjoining property that can be built upon. Refer to 6.3.2.3.

Crash Posts 3" Minimum Concrete

3" to 6"

Concrete Base

Tank End

Sacrificial Anode (Magnesium Bag) Install just below Bottom Tank

Downgrade away from Dome

3" to 6"

Cadweld Connection to Lifting Lug

Min. 6" and 24" if Vehicle Traffic

Option #1 Cadweld to Tank Manufacturer's Pad

325 Gal. Tank One 5# Anode (Min.)
500 Gal. Tank One 17# Anode (Min.)
1000 Gal. Tank One/Two 17# Anode (Min.)

Option #2 Attachment Bolt to Riser

Use 6" to 12" Coarse Sand if Backfill has Rocks or Similar Abrasives in it.