

**LESSON 6 - WASTE DISPOSAL
IN THE FIELD**

Lesson Objectives

- ***Select the best latrine for your unit's situation.***
- ***Select the best liquid waste disposal device for your unit's situation.***
- ***Select the best garbage and rubbish disposal method for your unit's situation.***

Waste Disposal in the Field



- ***Includes :***
- ***Human waste***
- ***Liquid waste***
- ***Rubbish***
- ***Hazardous Waste***

Human Waste Disposal



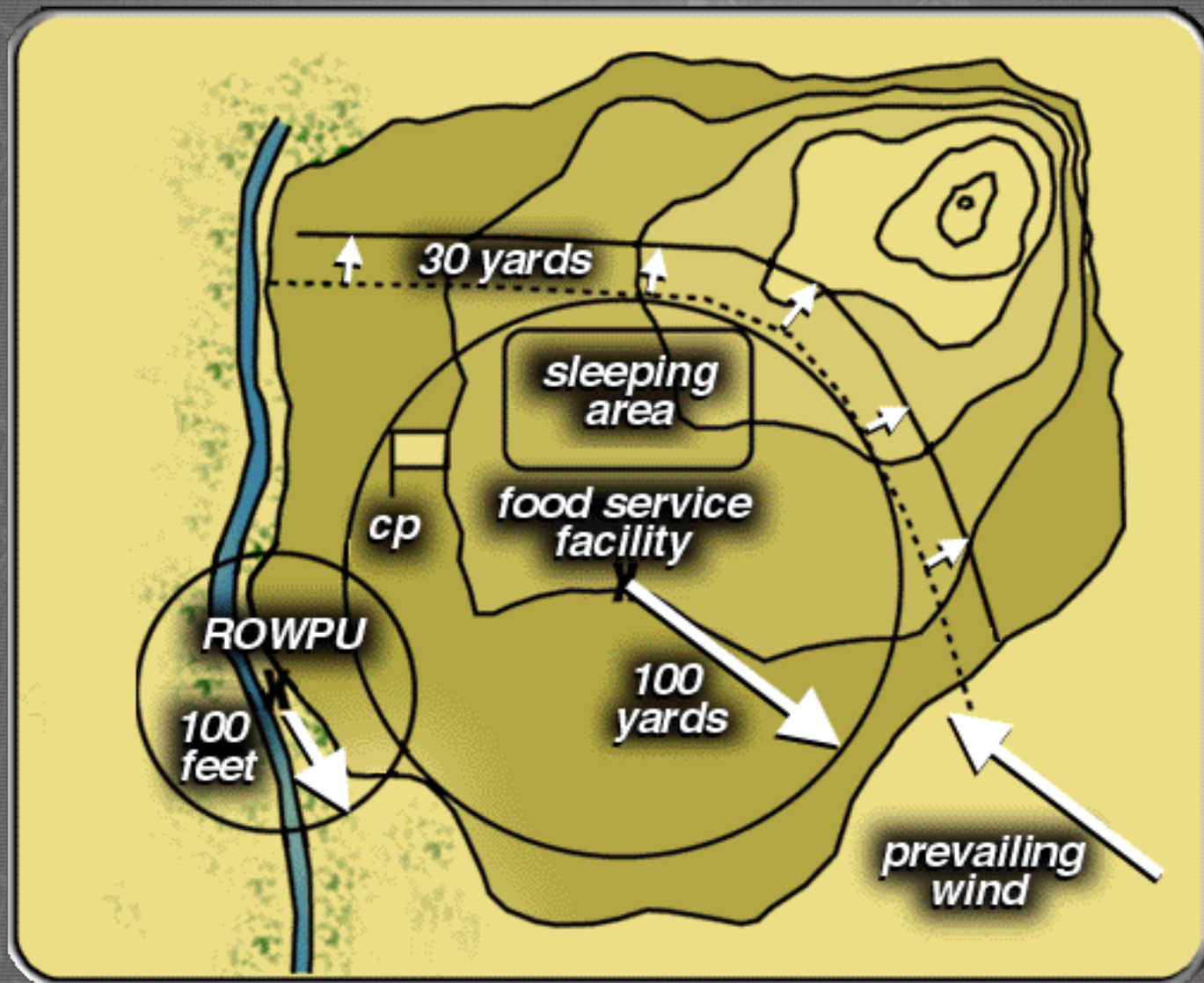
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Planning Considerations for Latrines



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Latrine Location



Soldier Privacy



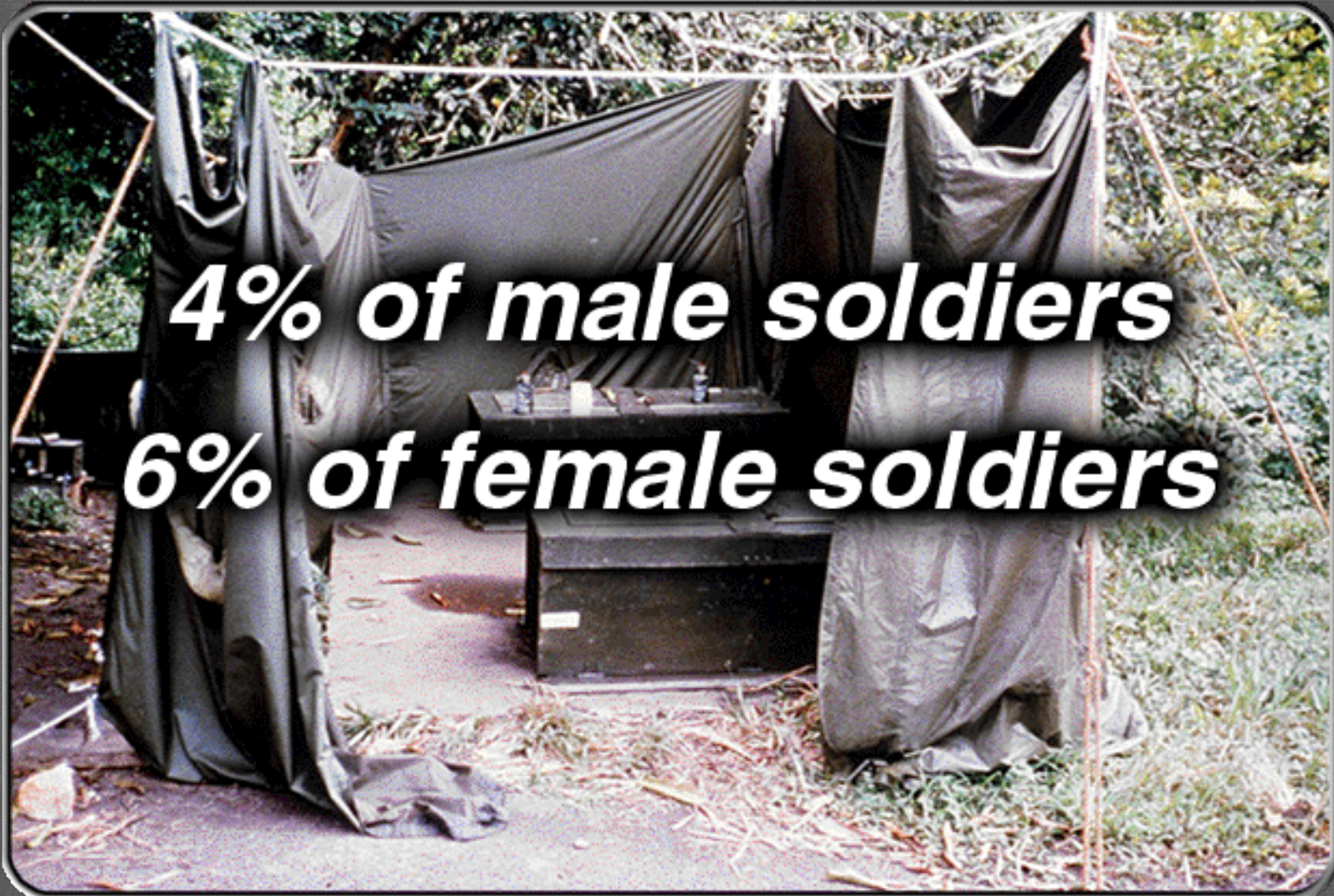
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Hand-washing Devices

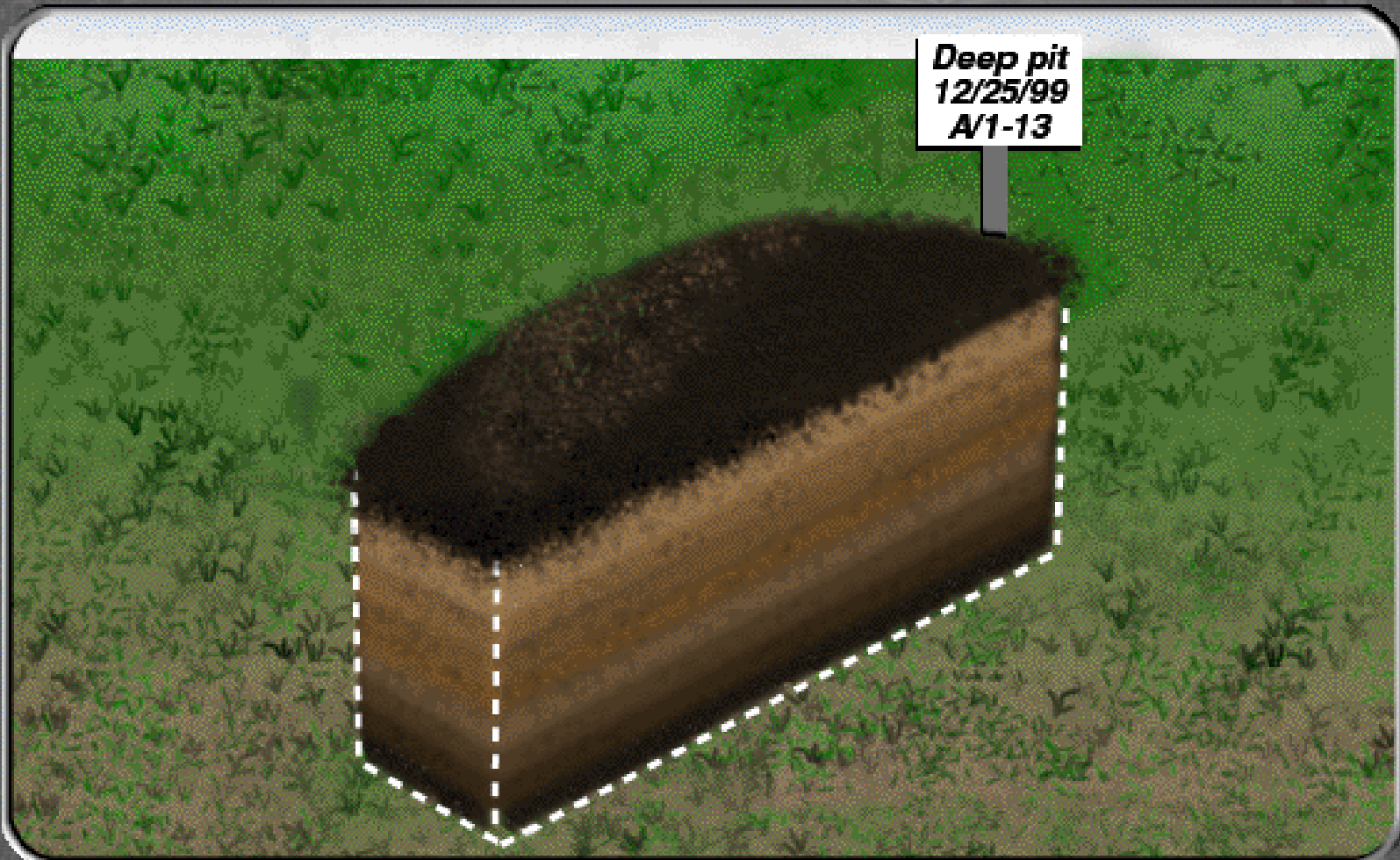


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Number of Latrines Required

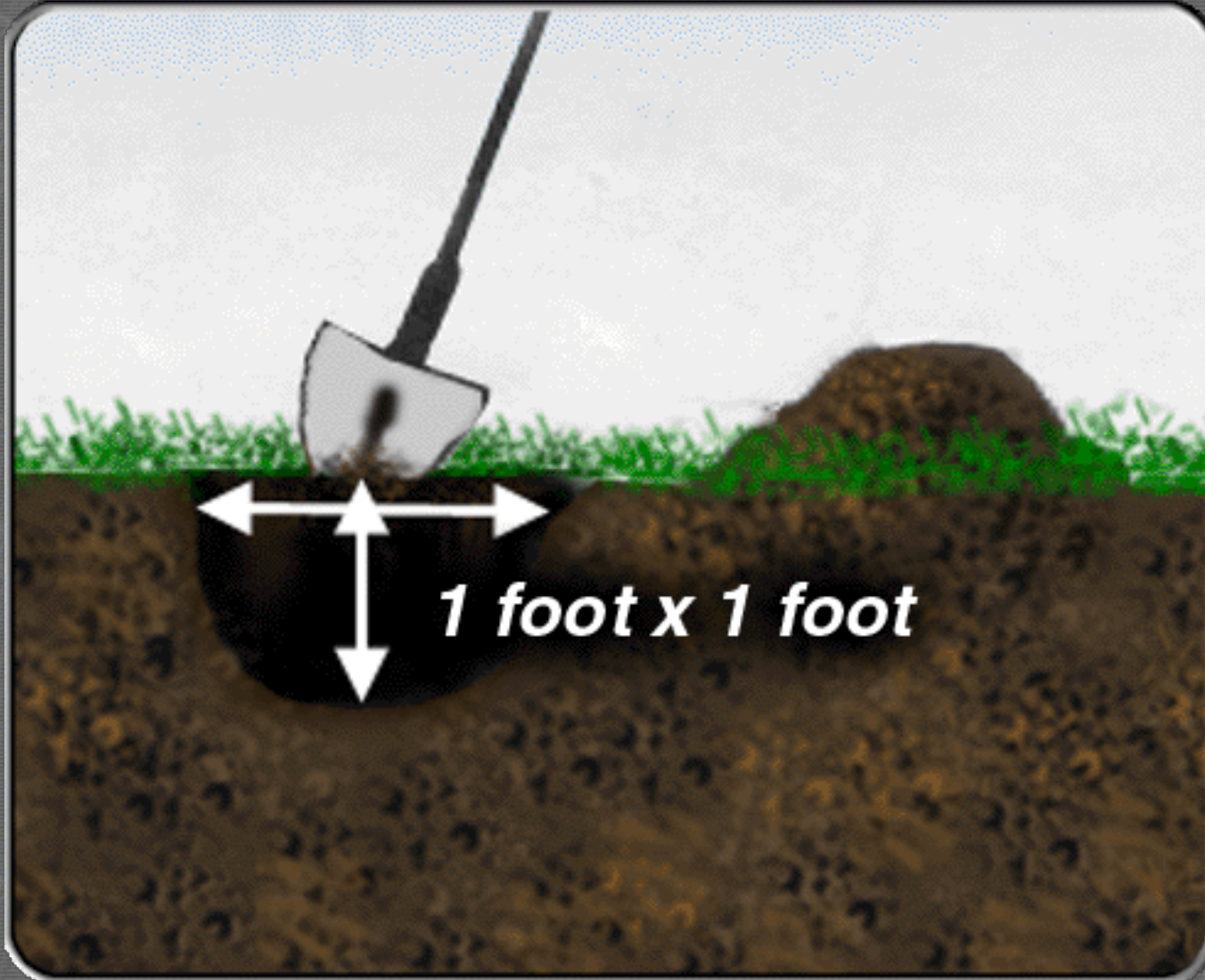


Latrine Closure

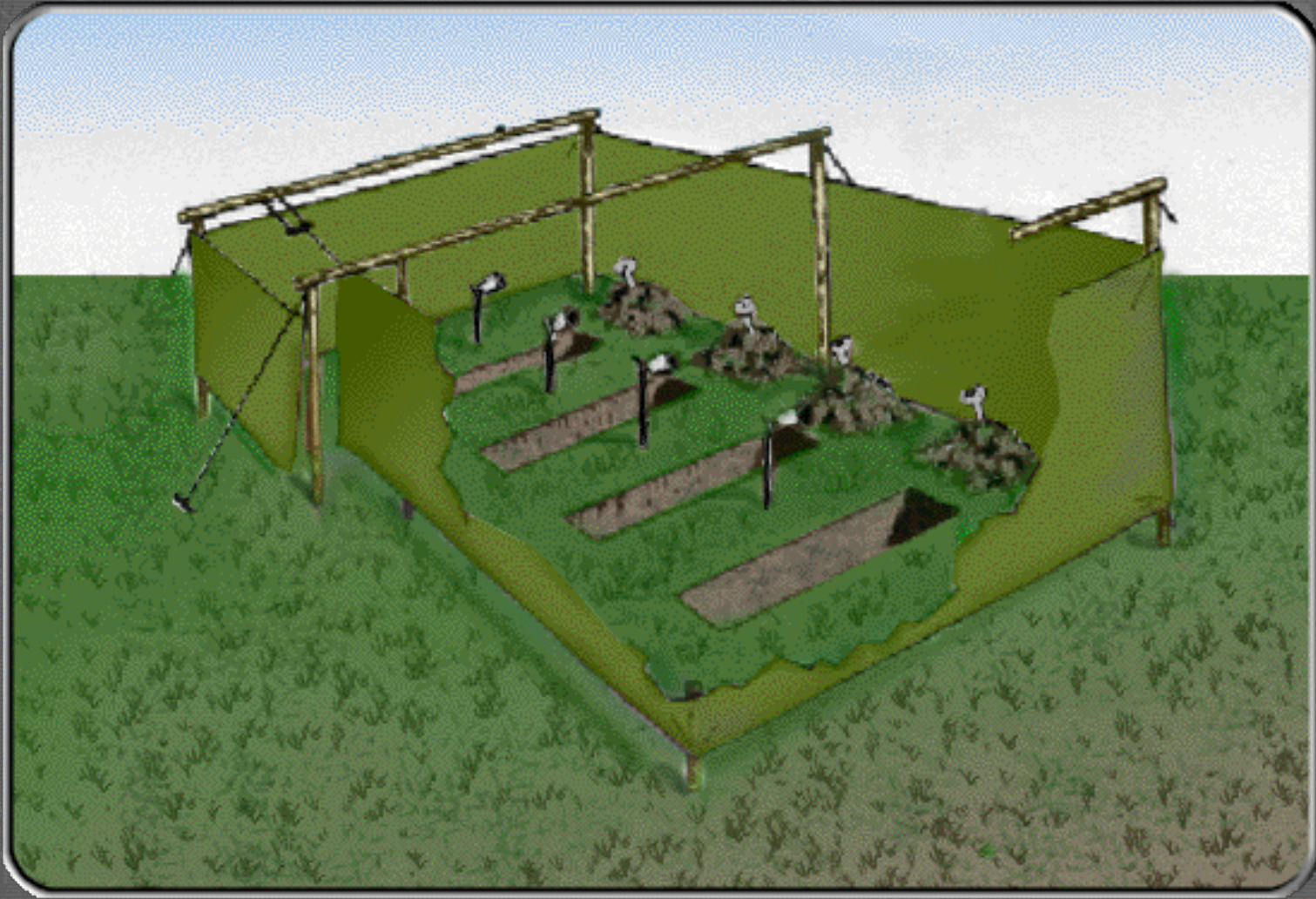


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Cat-hole Latrines

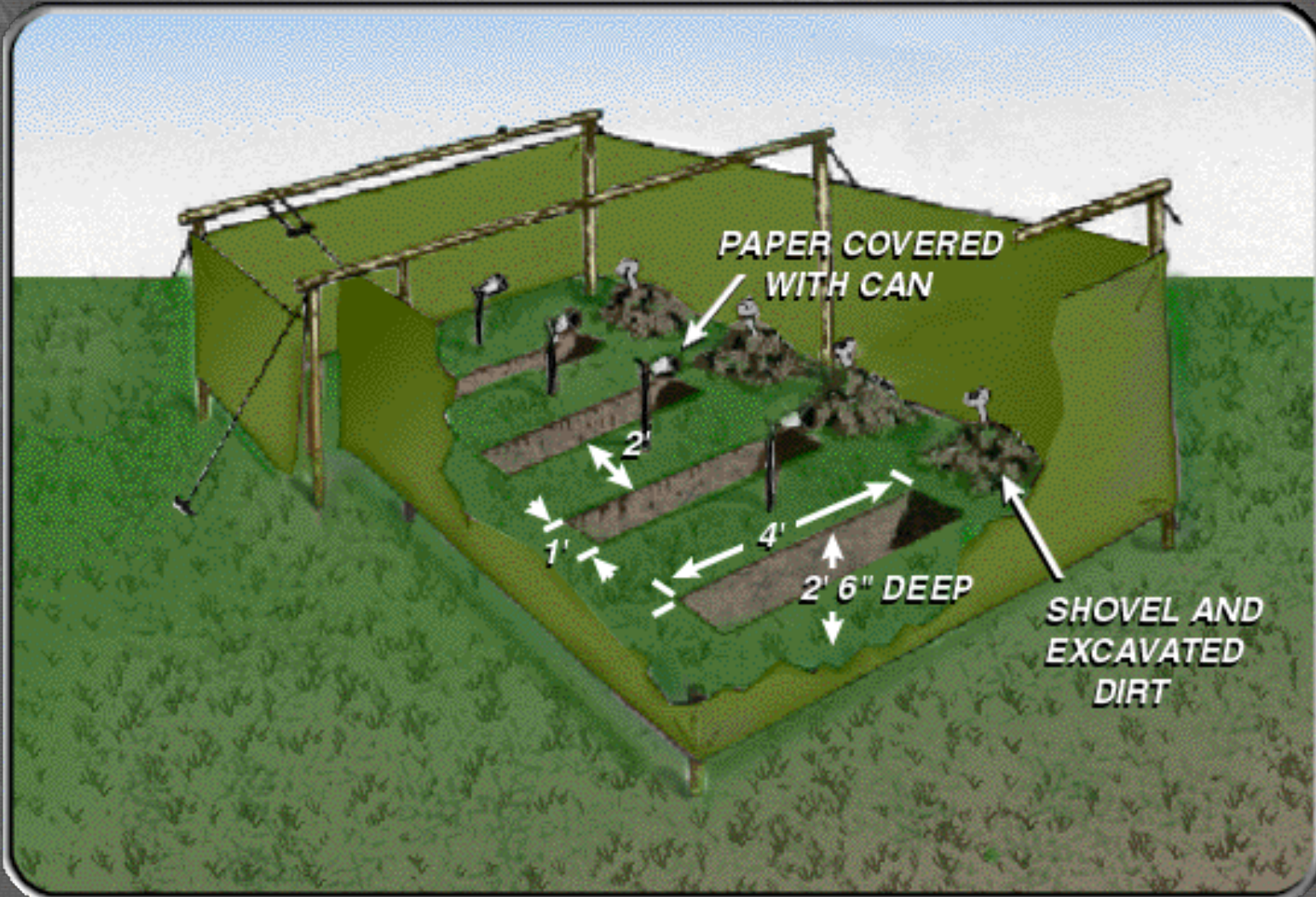


Straddle Trench Latrines

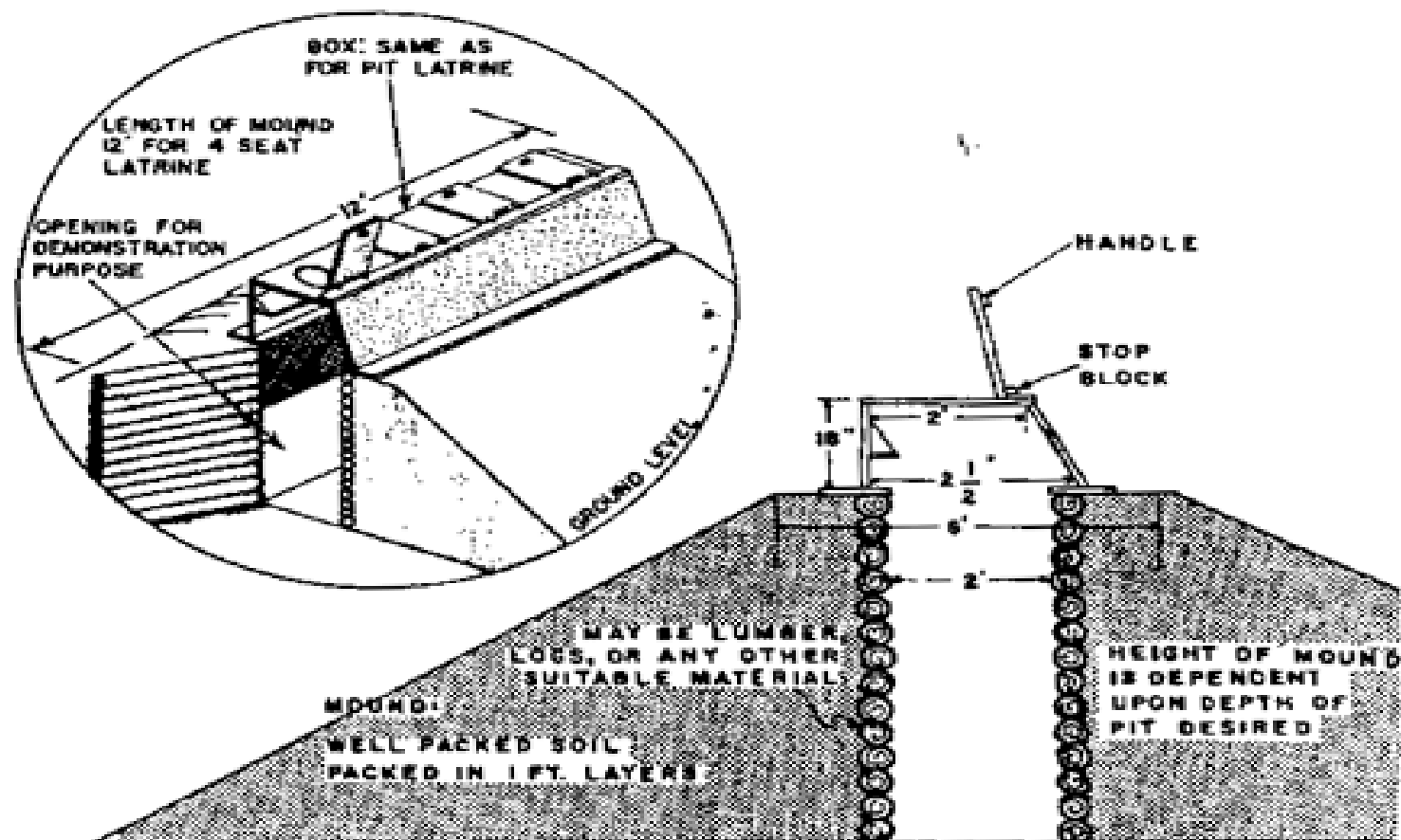


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Straddle Trench Dimensions



Mound Latrines

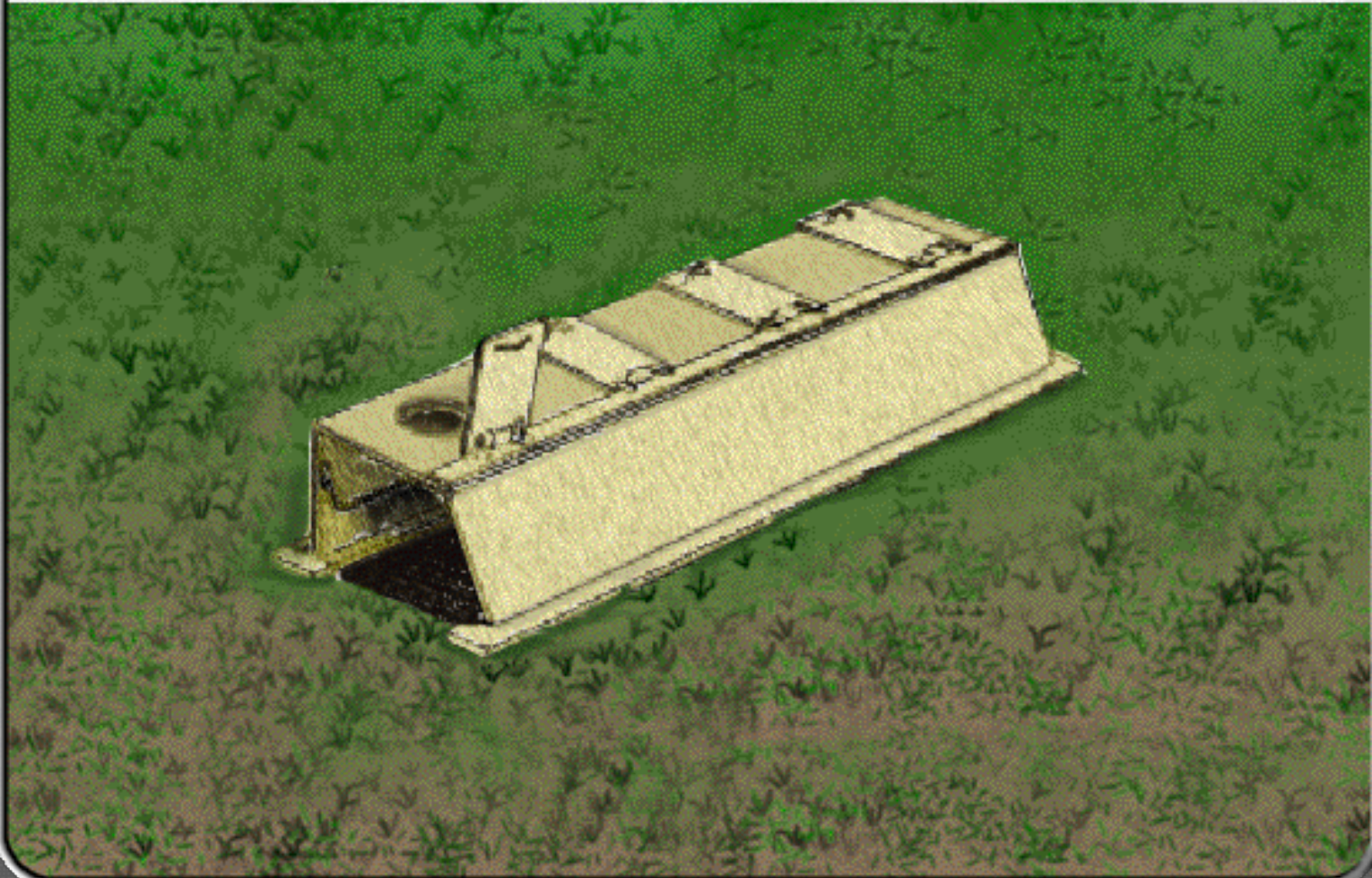


MOUND LATRINE

Figure 9-11.

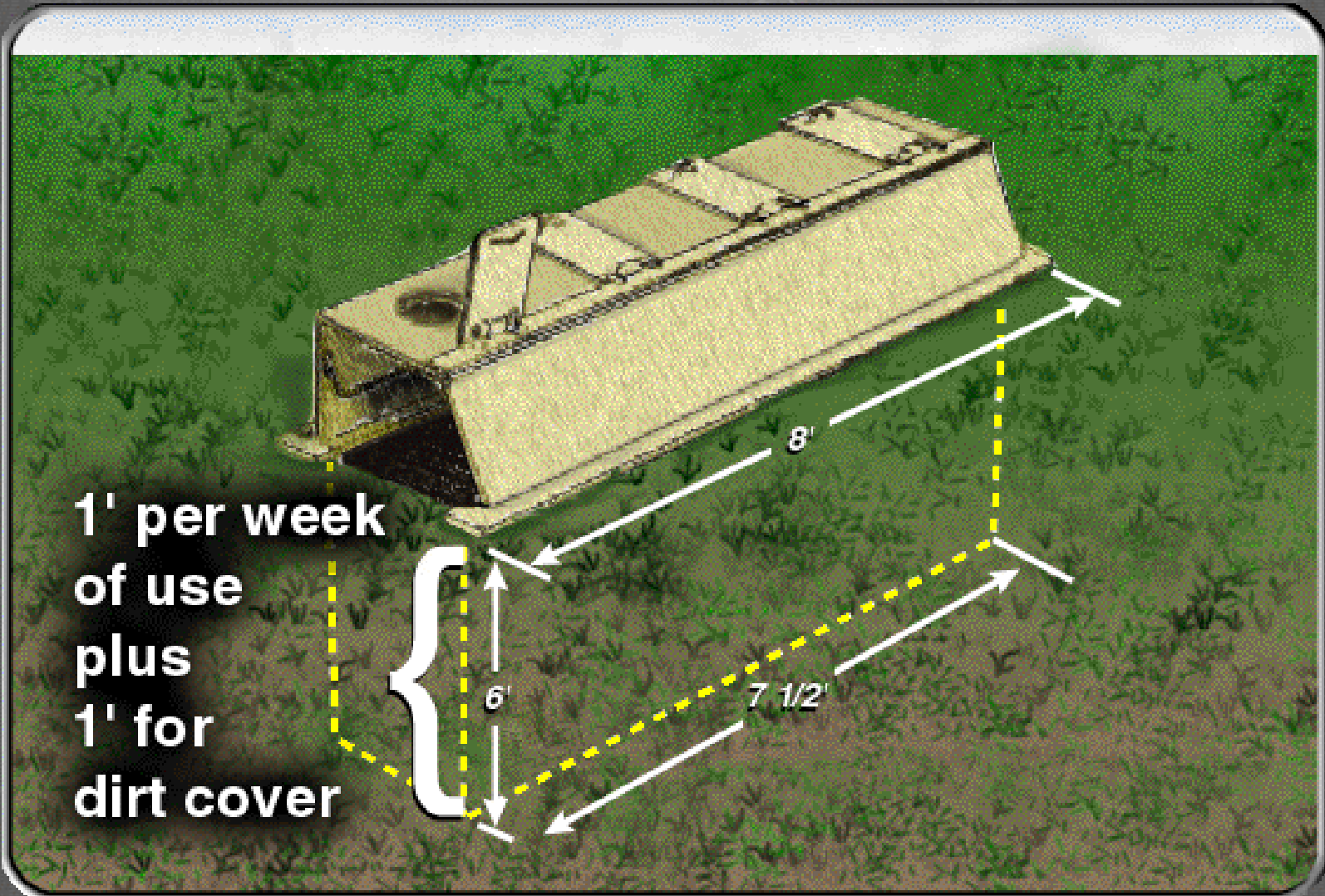
This latrine may be used where ground characteristics (high water table, frozen or rocky ground) are such that a deep pit latrine cannot be constructed. After a crib of timbers or wood planking is built, earth is compacted around the "pit" to form a mound.

Deep Pit Latrines

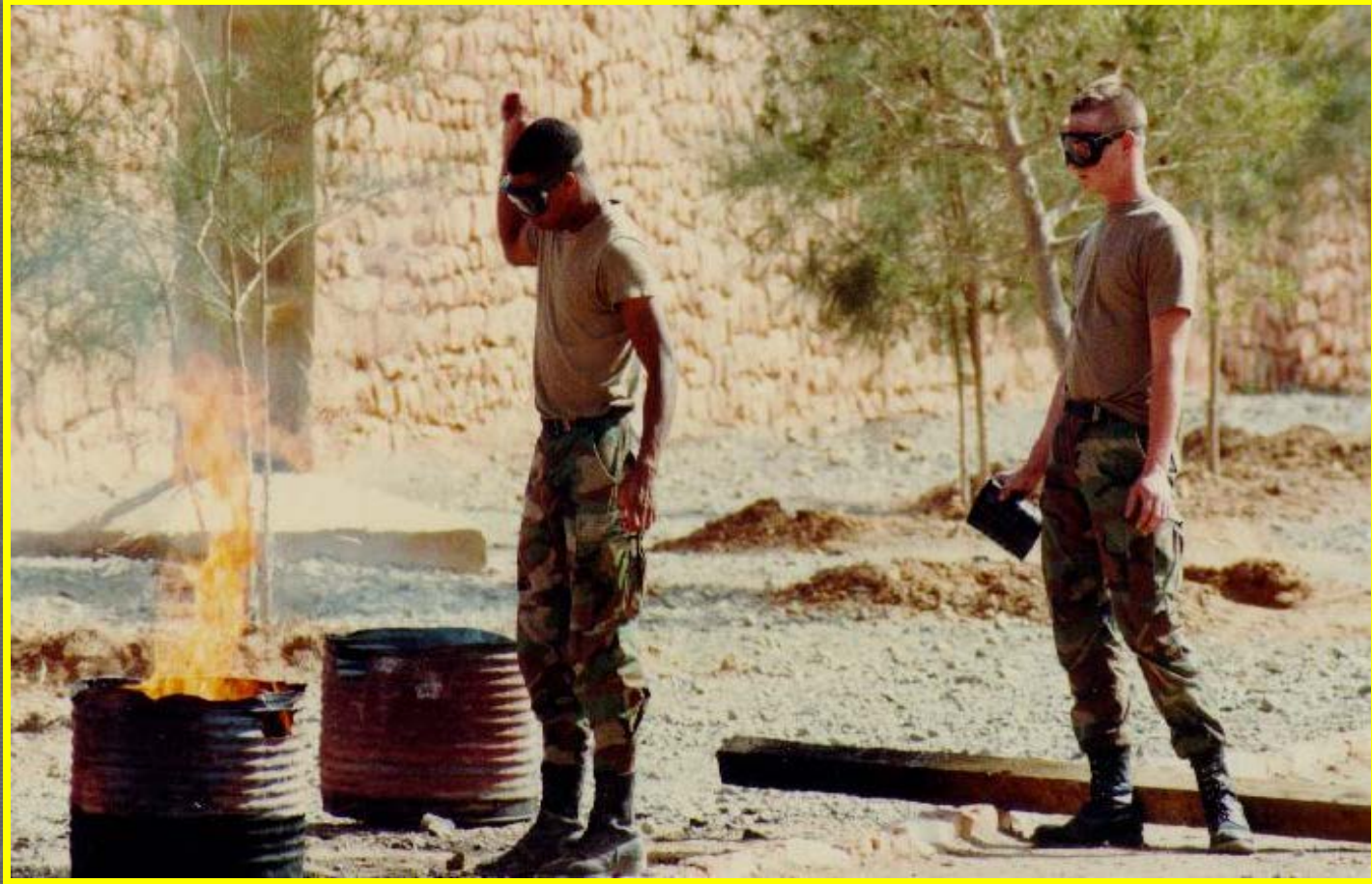


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Deep Pit Dimensions

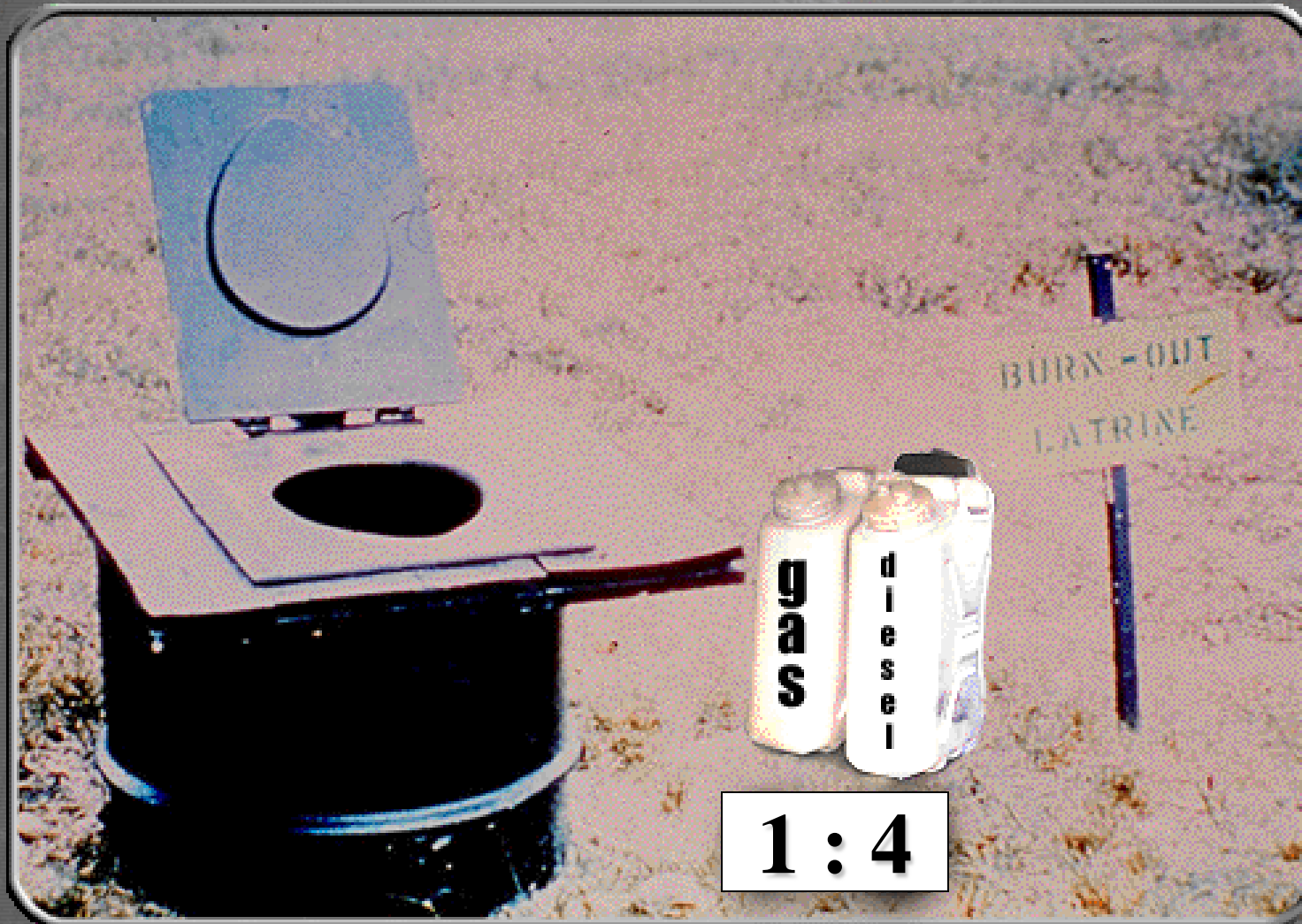


Burnout Latrines



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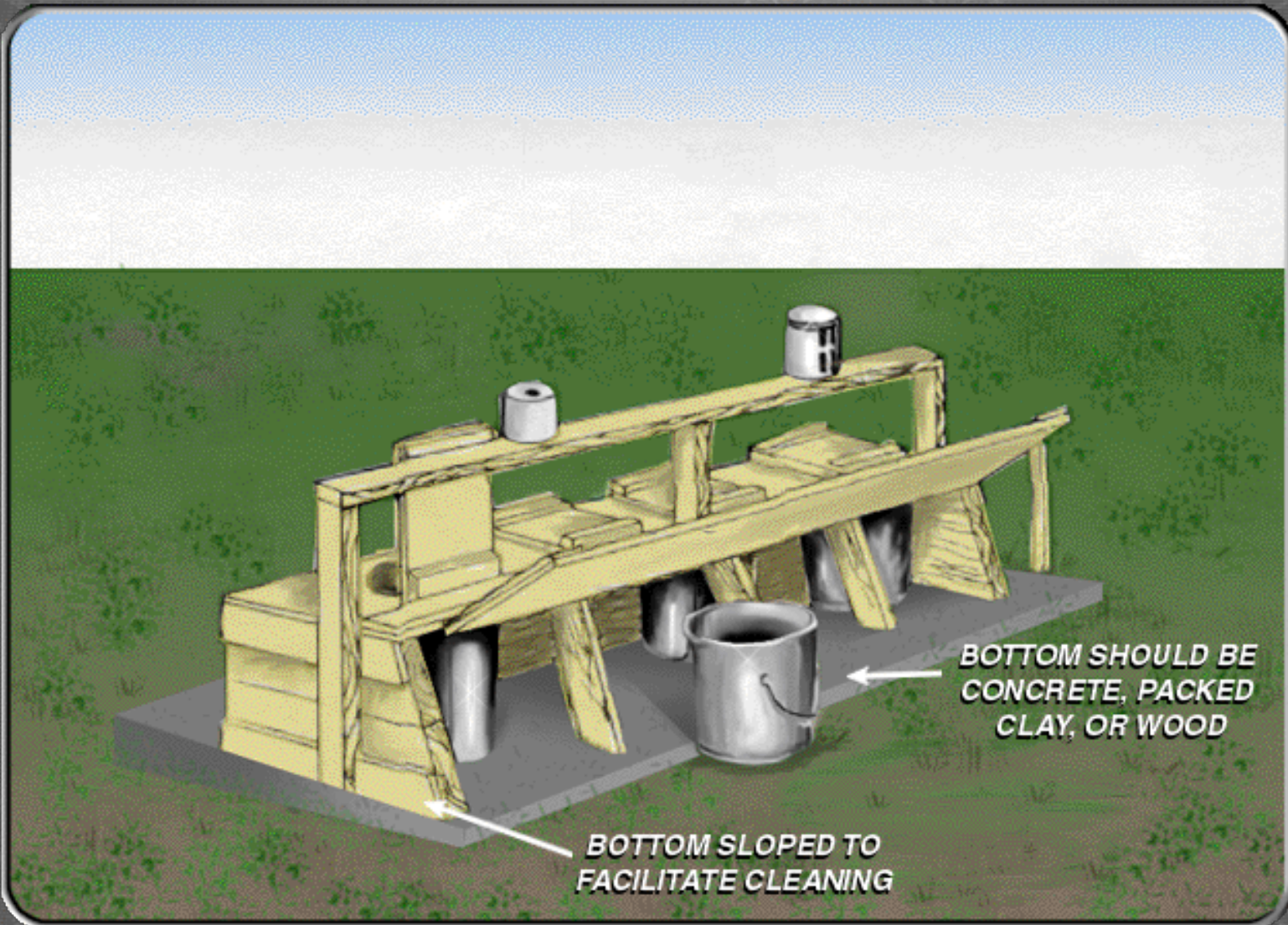
Burnout Construction



NEVER USE 100% MOGAS FOR THIS TYPE OF OPERATION

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Pail Latrines

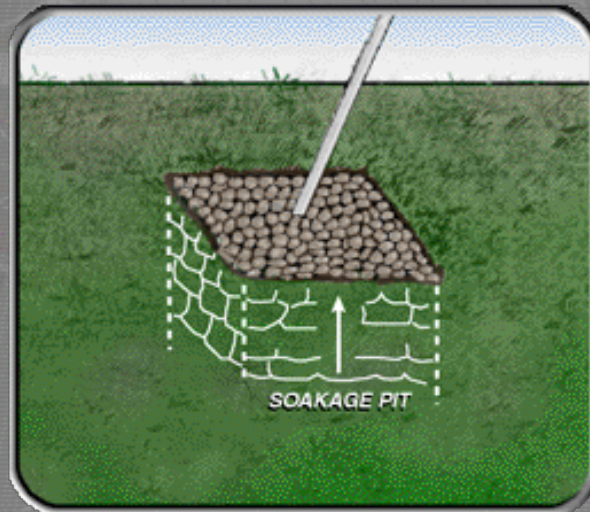
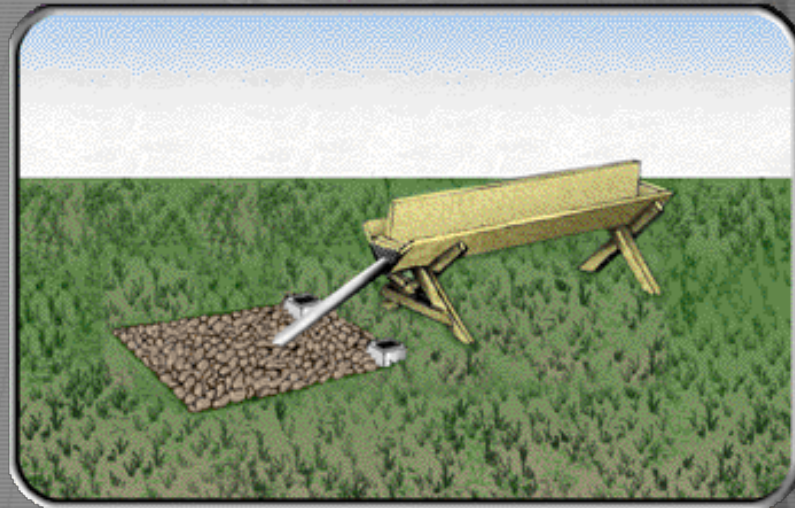
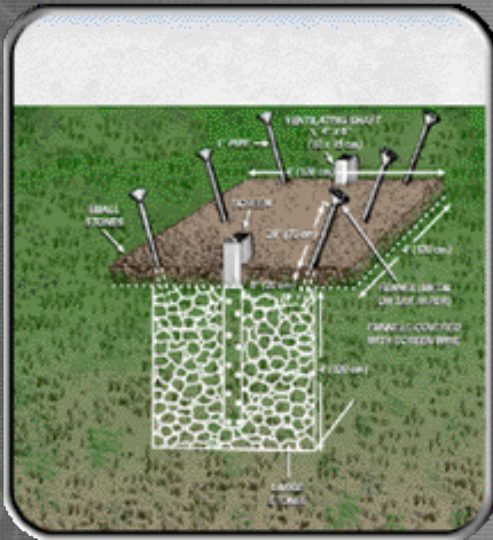


Chemical Toilets

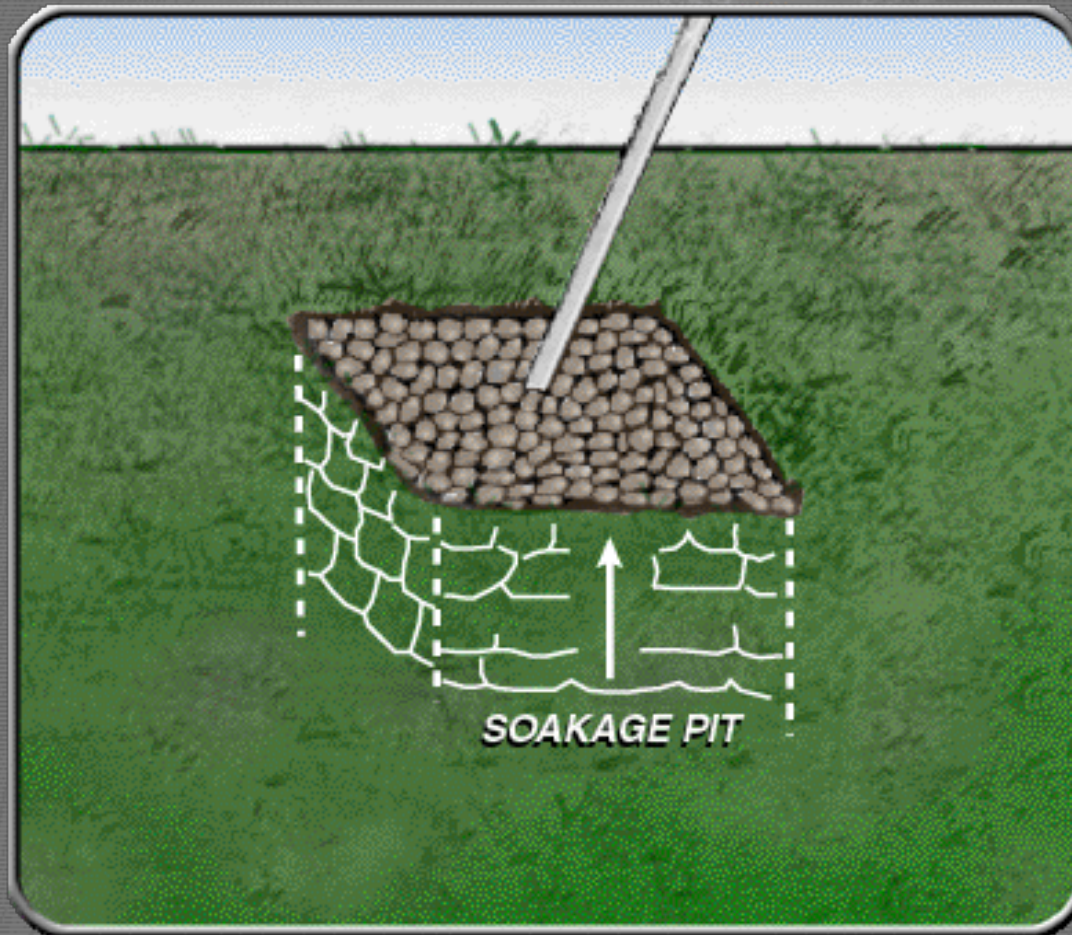


Clean chemical latrines daily.

Field Urinals

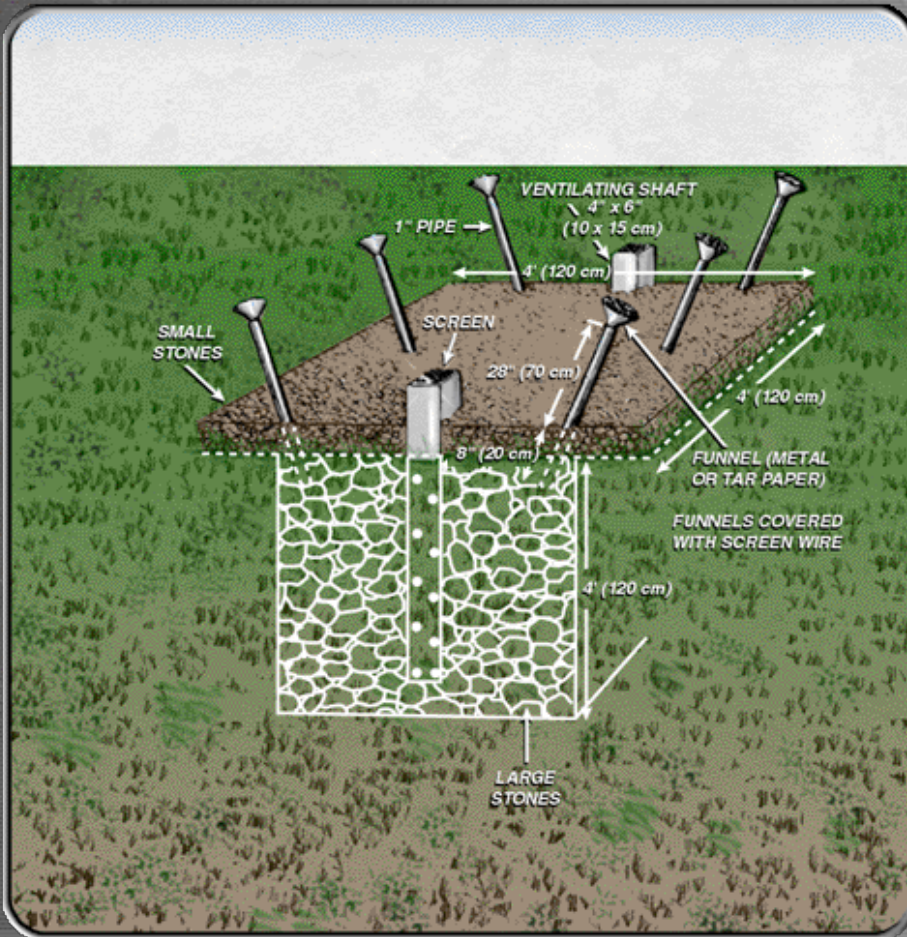


Urine Soakage Pit



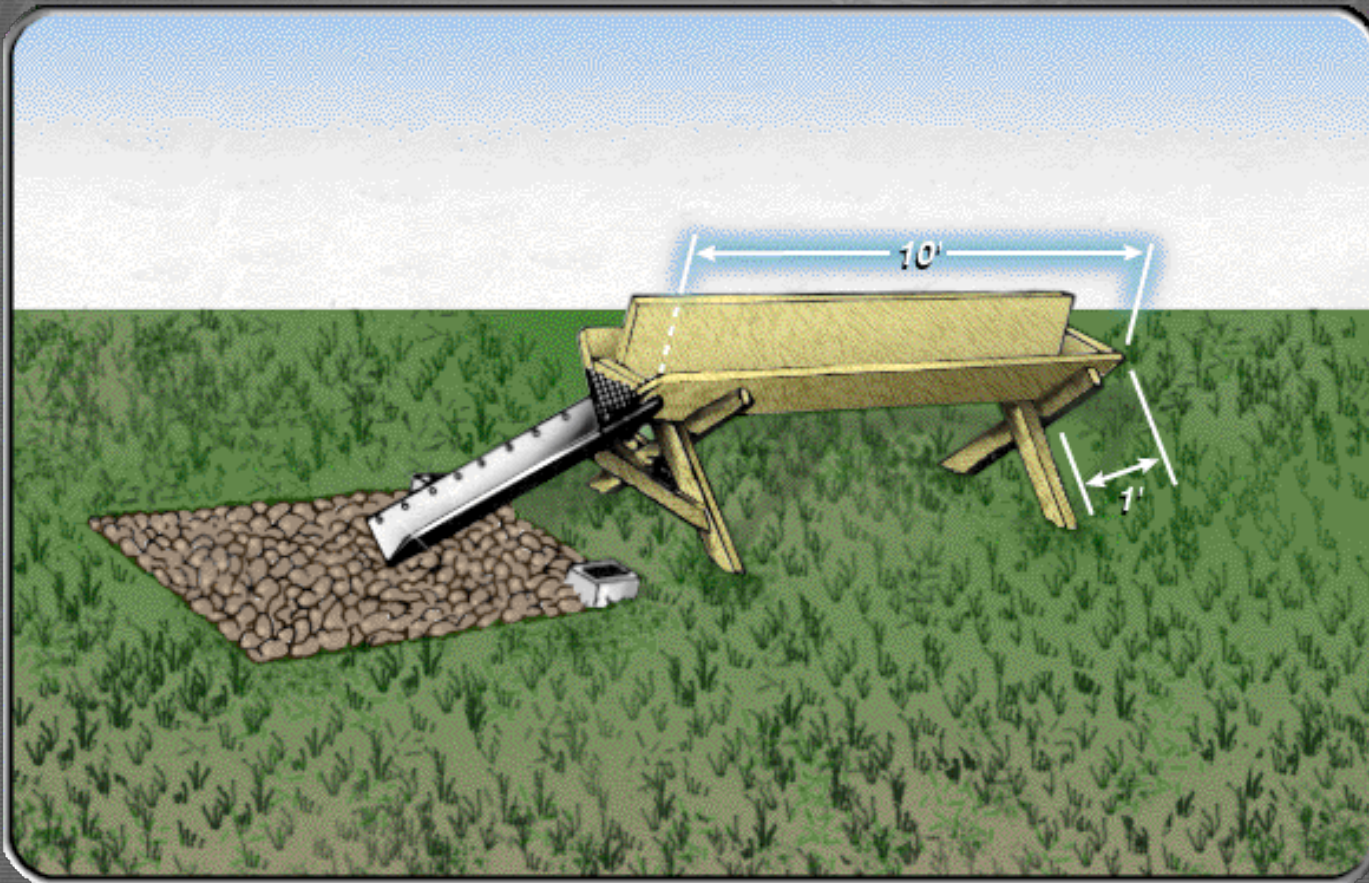
- ***4 x 4 foot hole dug 4 feet deep.***

Pipe Urinals



➤ *Each pipe accommodates 20 soldiers.*

Urine Troughs



- ***Build 2 feet of trough per soldier.***

Liquid Waste Disposal Devices



Bath Waste



Liquid Kitchen Waste



Wash Waste

Grease Traps

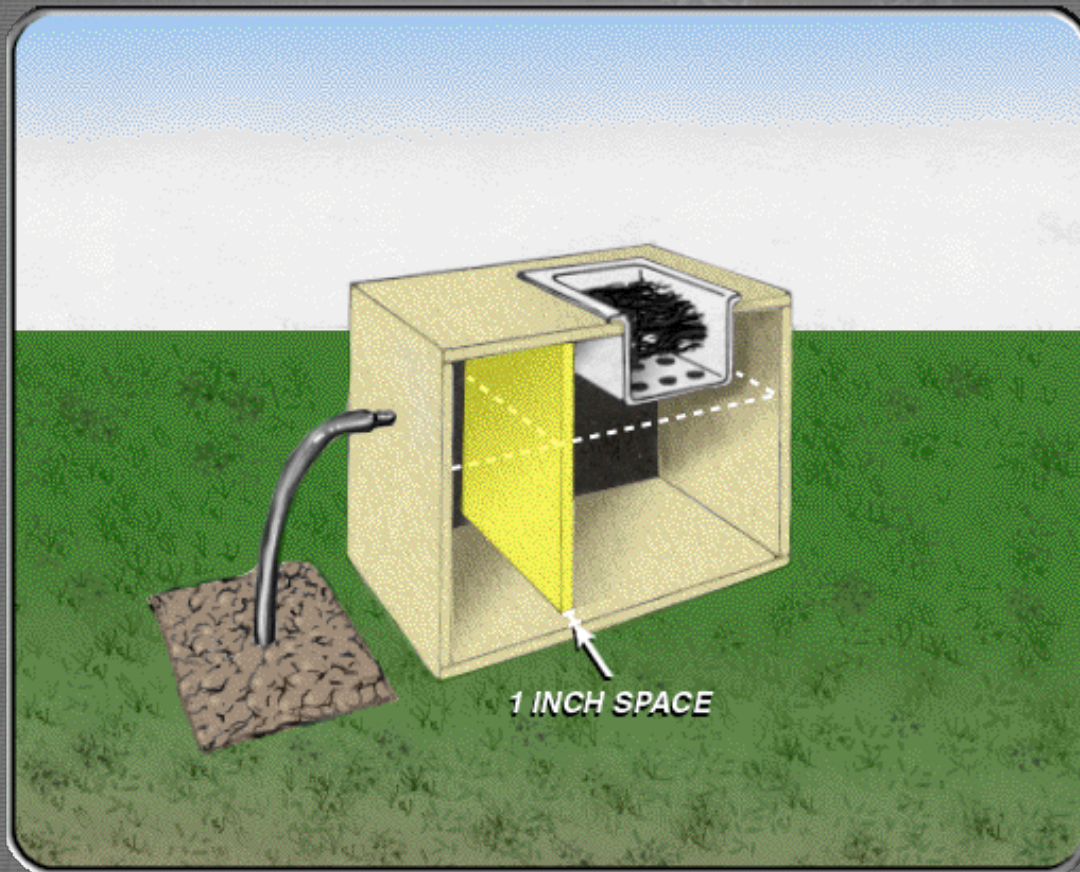


Baffle grease trap



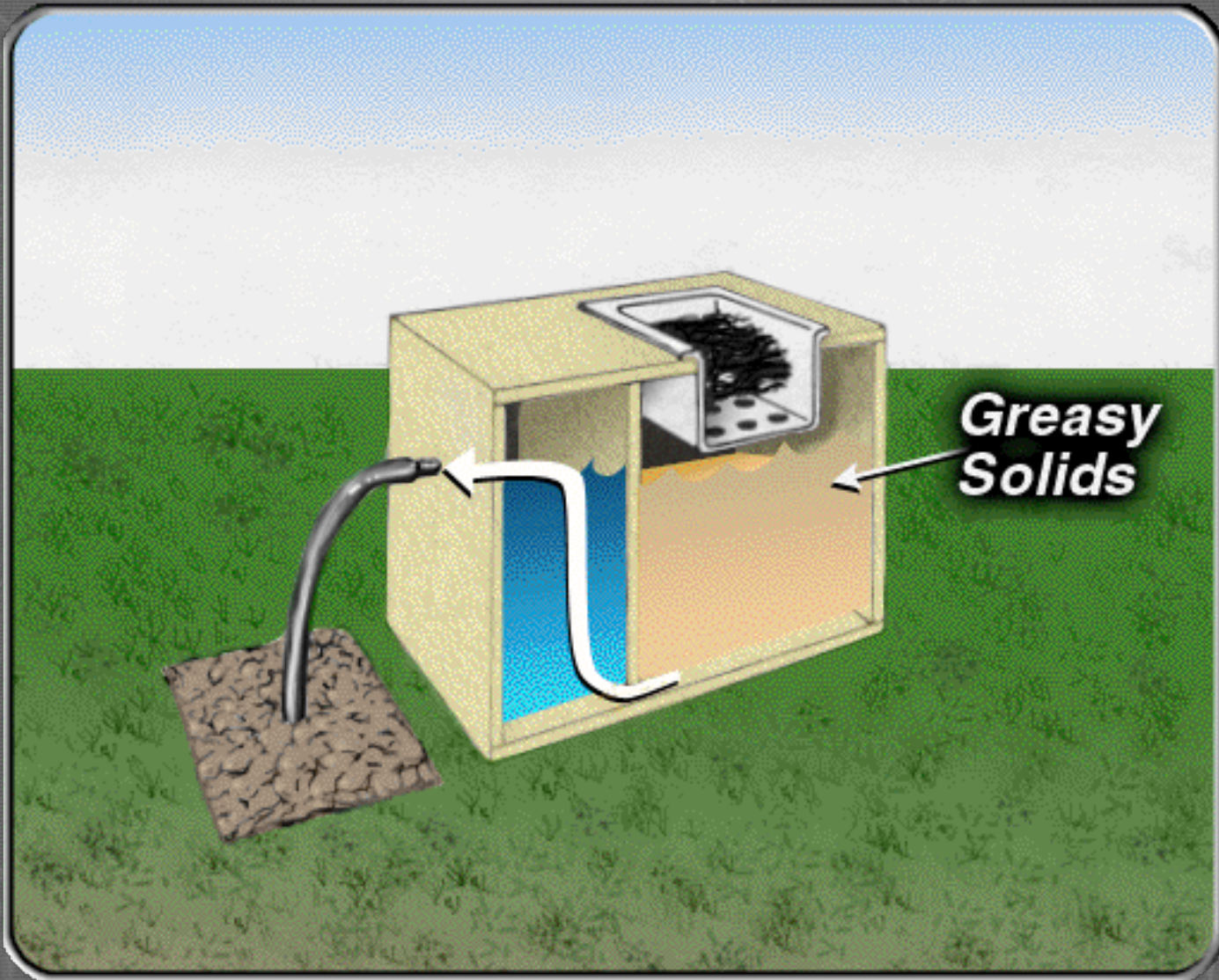
*Barrel filter
grease trap*

Baffle Grease Trap

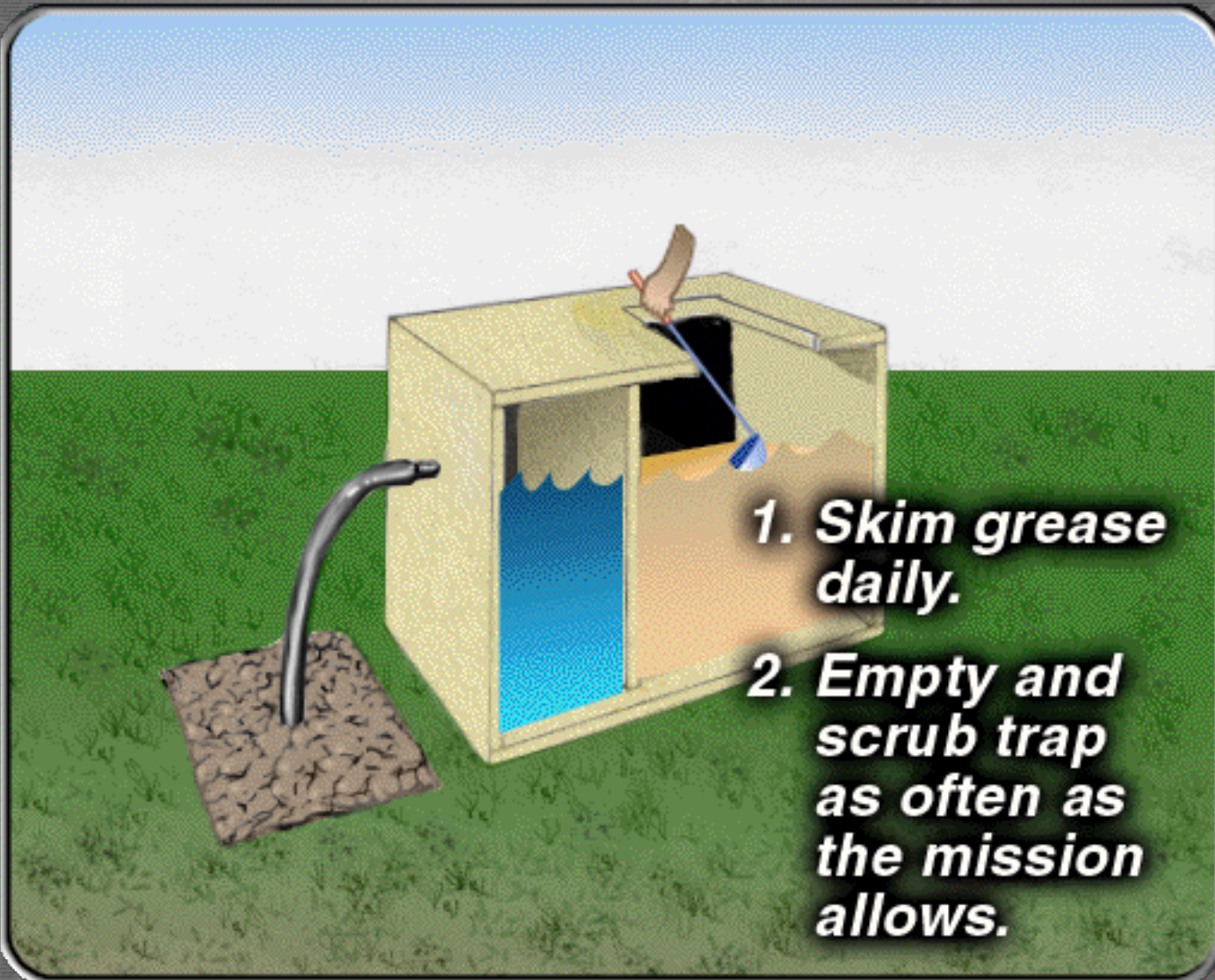


- ***The most effective way to remove grease from kitchen waste.***

Baffle Grease Trap Construction

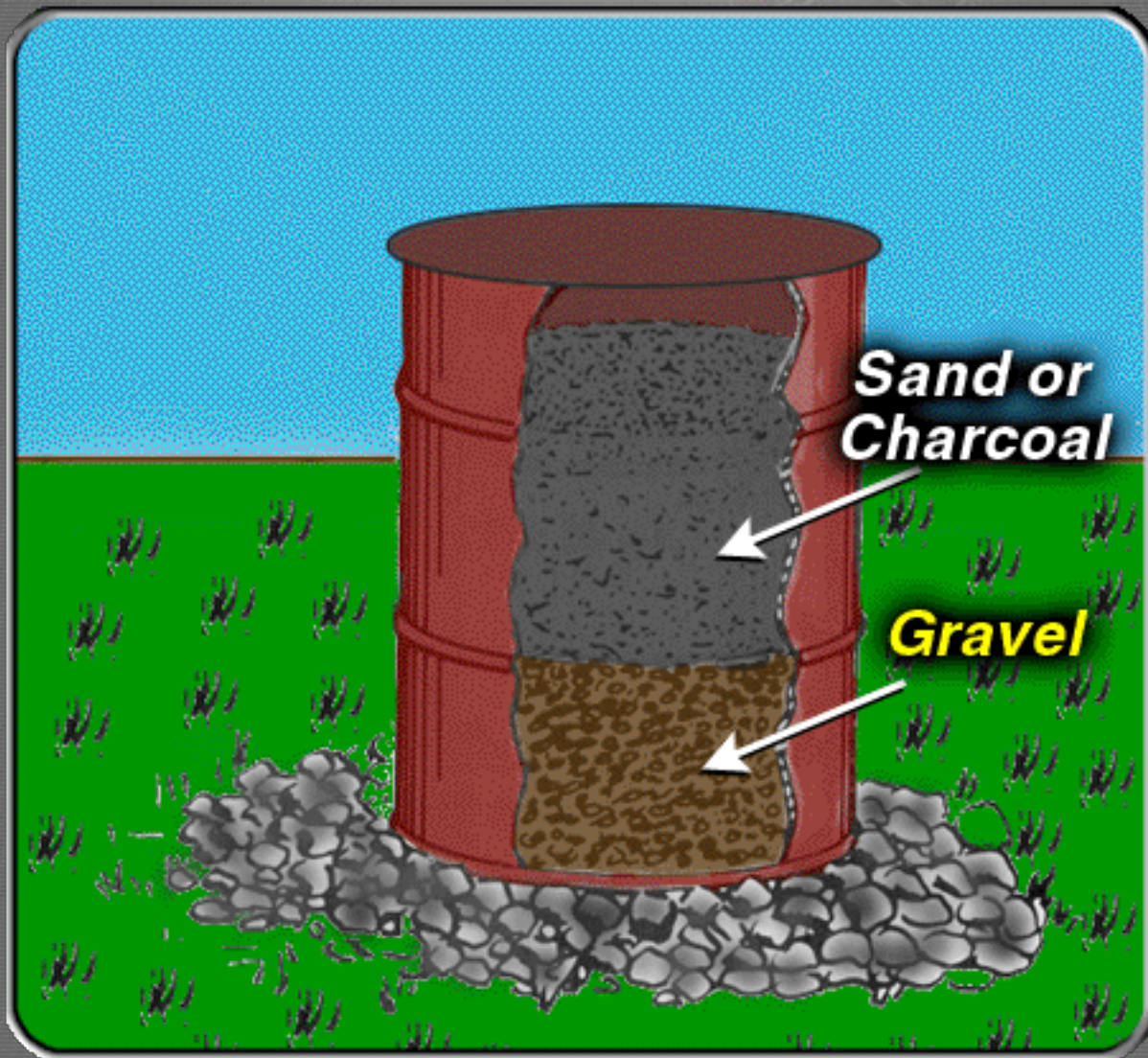


Baffle Grease Trap Use

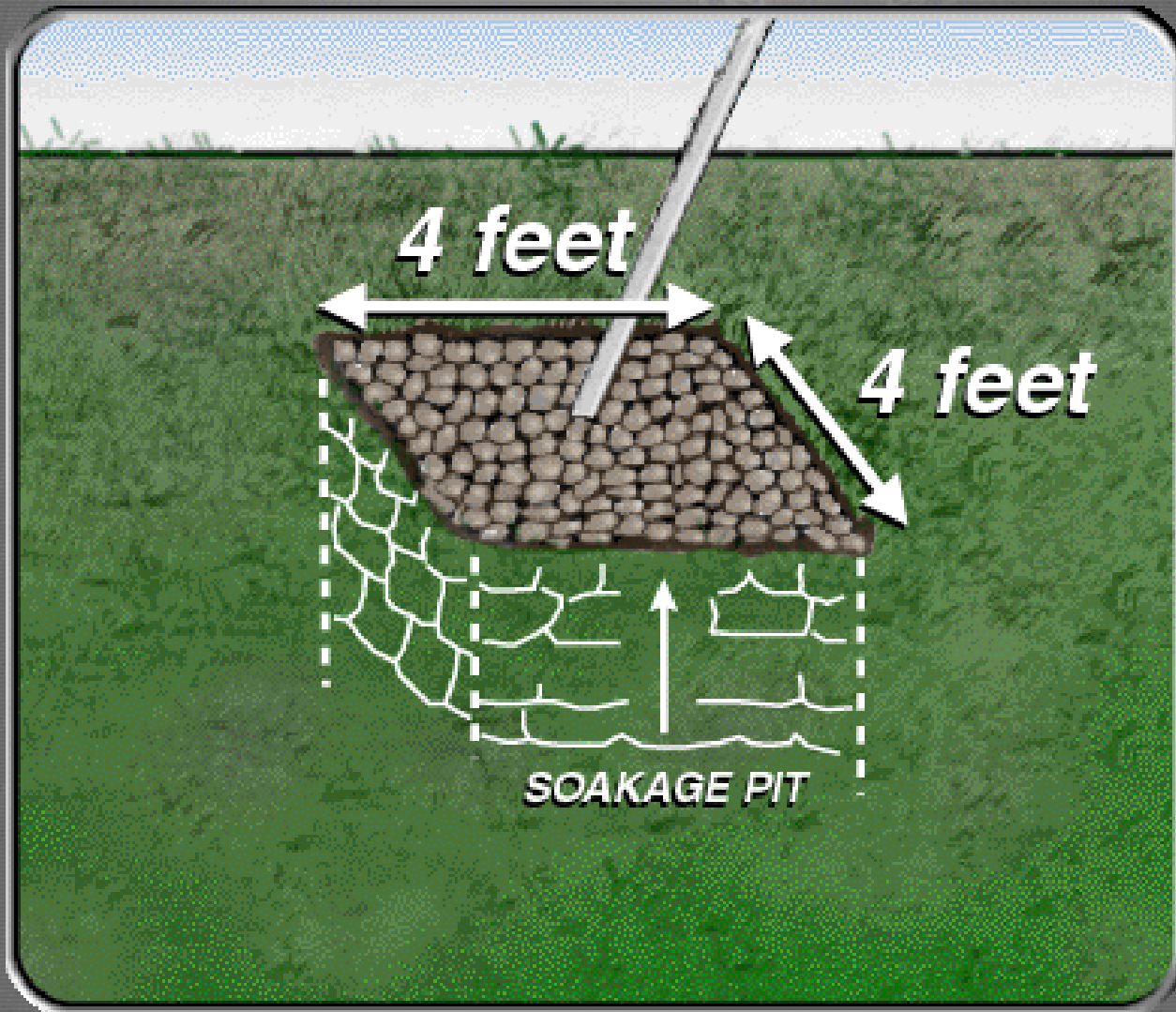


- 1. Skim grease daily.***
- 2. Empty and scrub trap as often as the mission allows.***

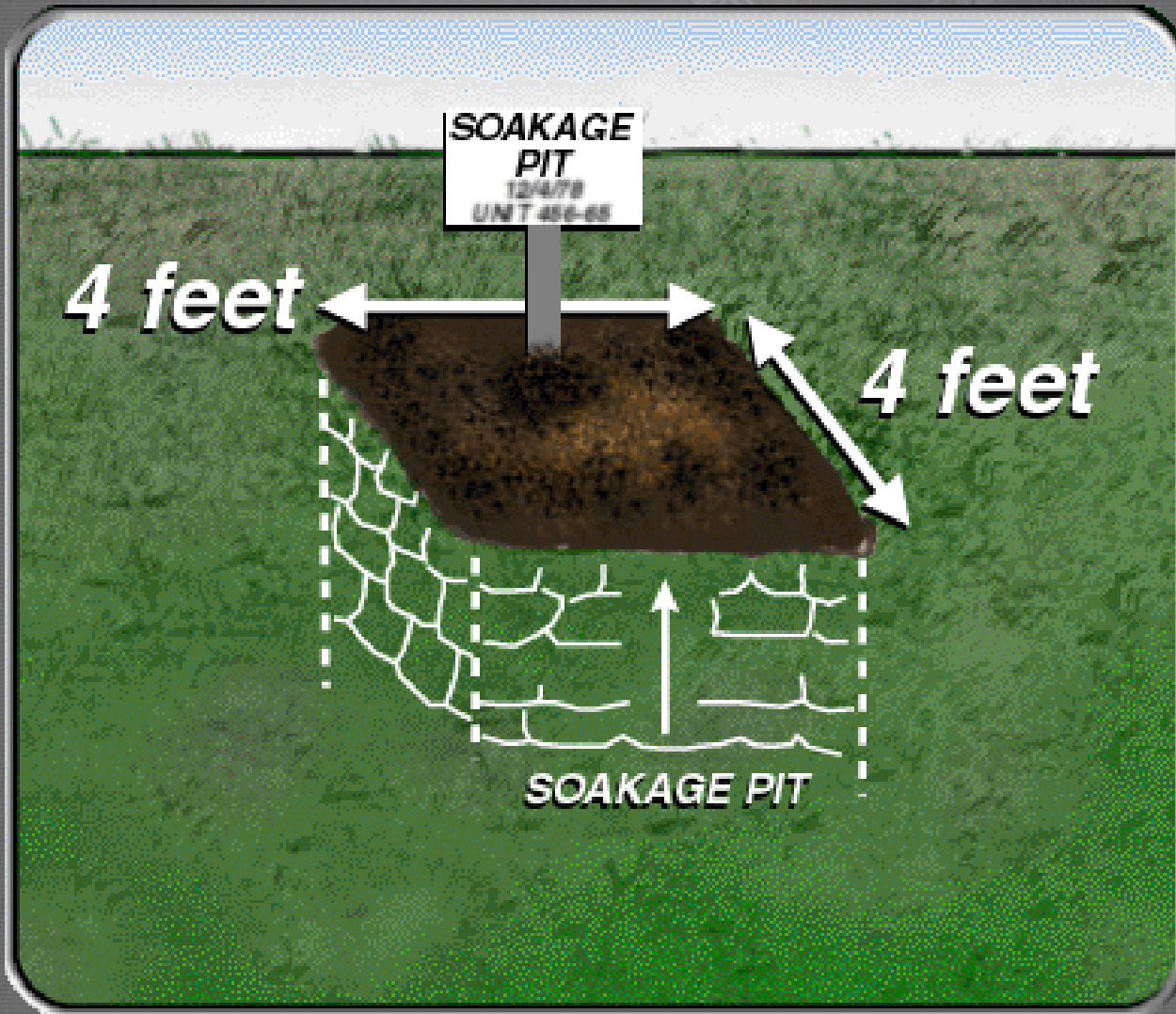
Barrel Filter Grease Trap



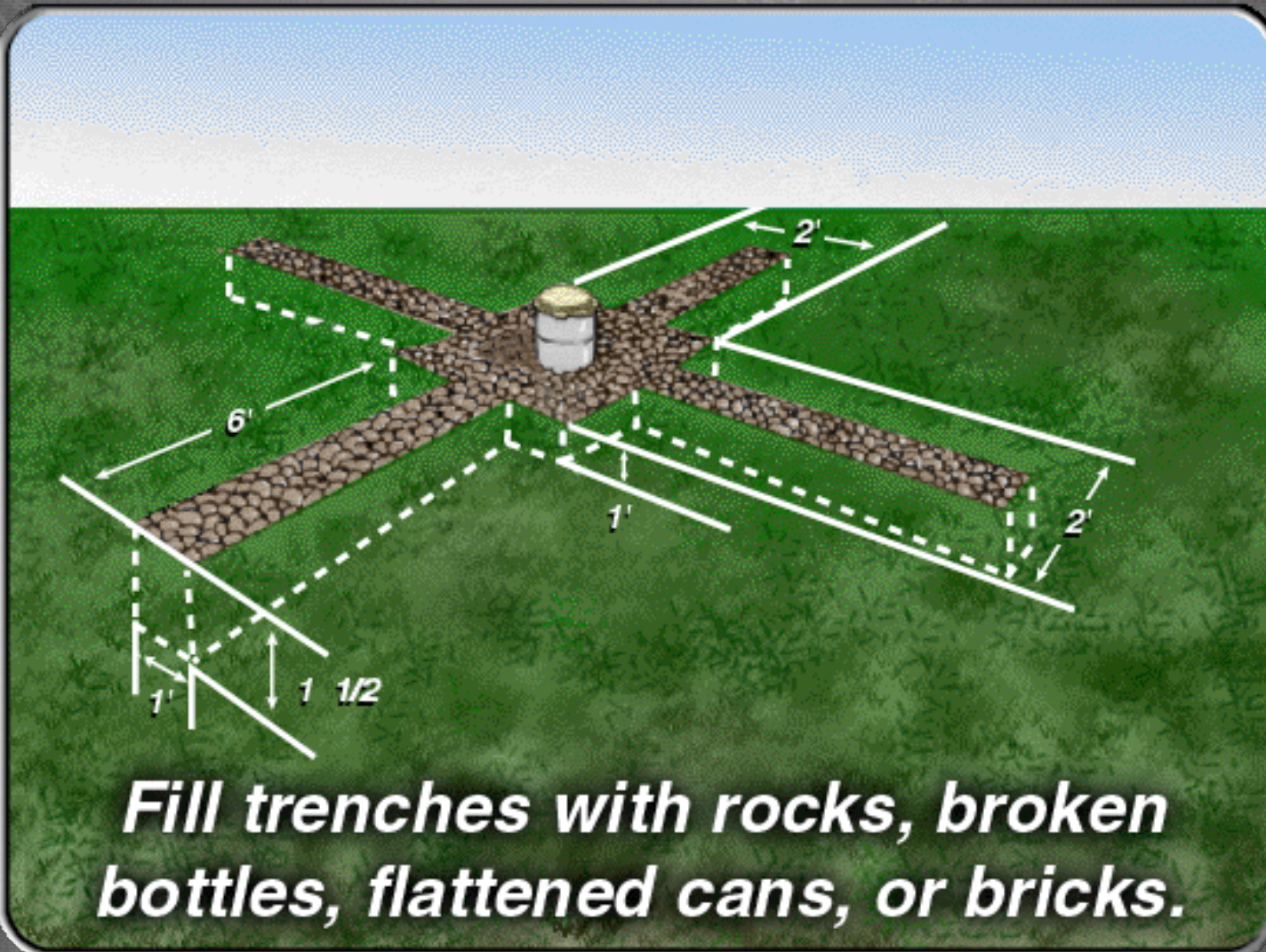
Soakage Pits



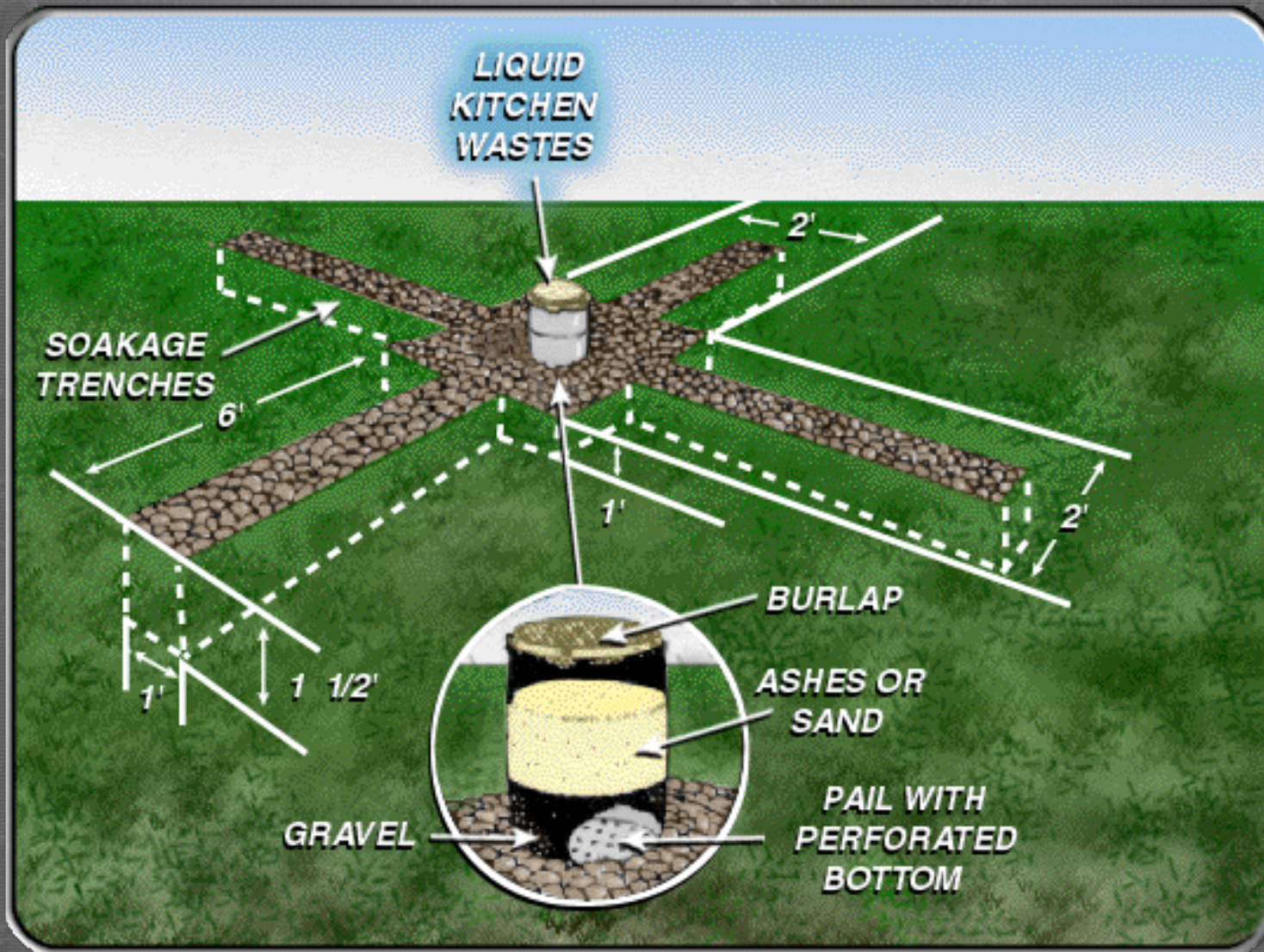
Soakage Pit Closure



Soakage Trenches



Soakage Trench Construction



Evaporation Beds



- ***Best used on heavy clay soils.***

Evaporation Bed Construction



*3 square feet /soldier /day for kitchen waste
2 square feet /soldier /day for wash /bath waste*

Evaporation Bed Operation



Used properly, these beds create no insect hazard or strong odor.



Garbage and Rubbish Disposal



Garbage

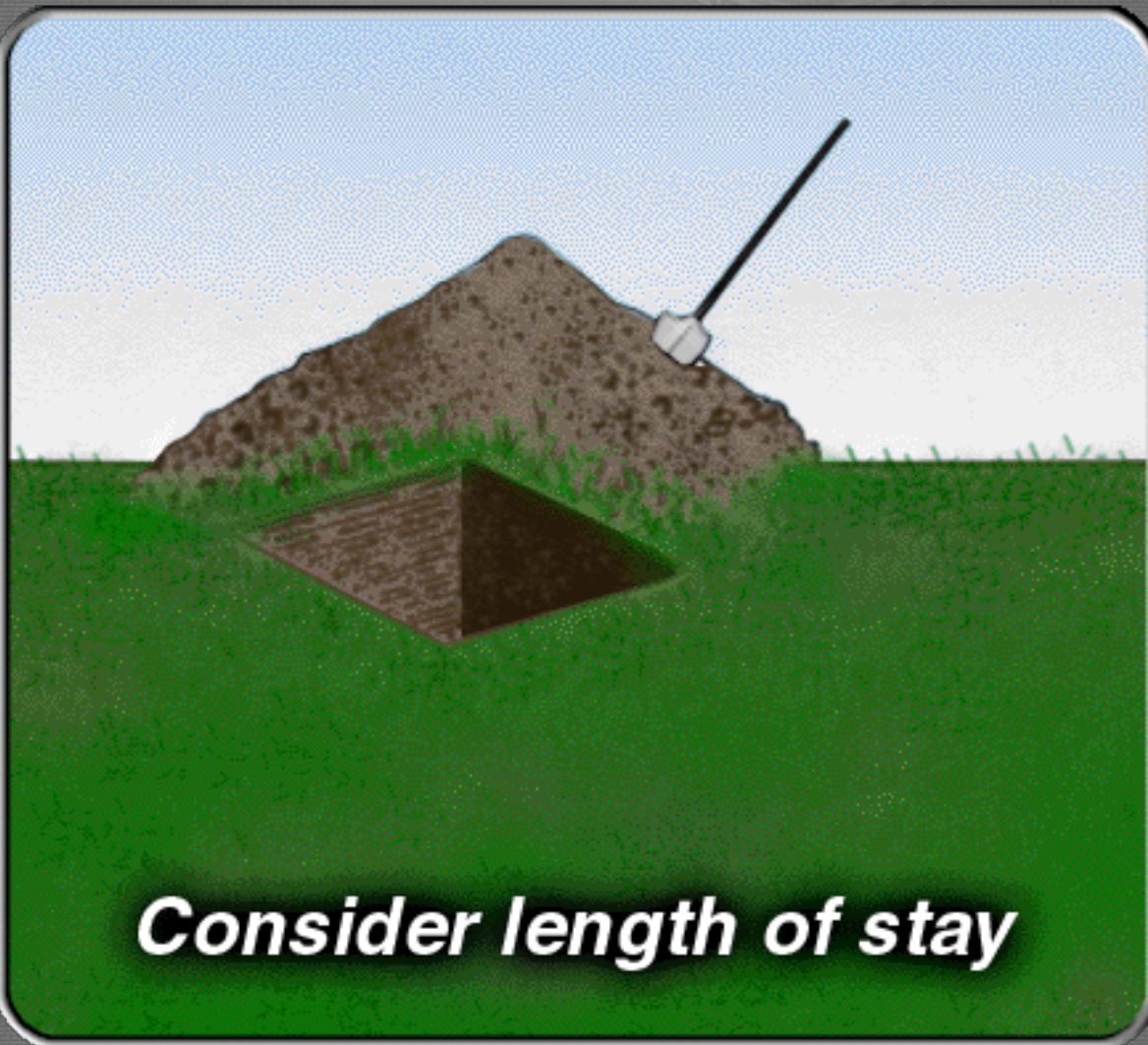


- *Food waste resulting from food preparation, cooking, and serving.*



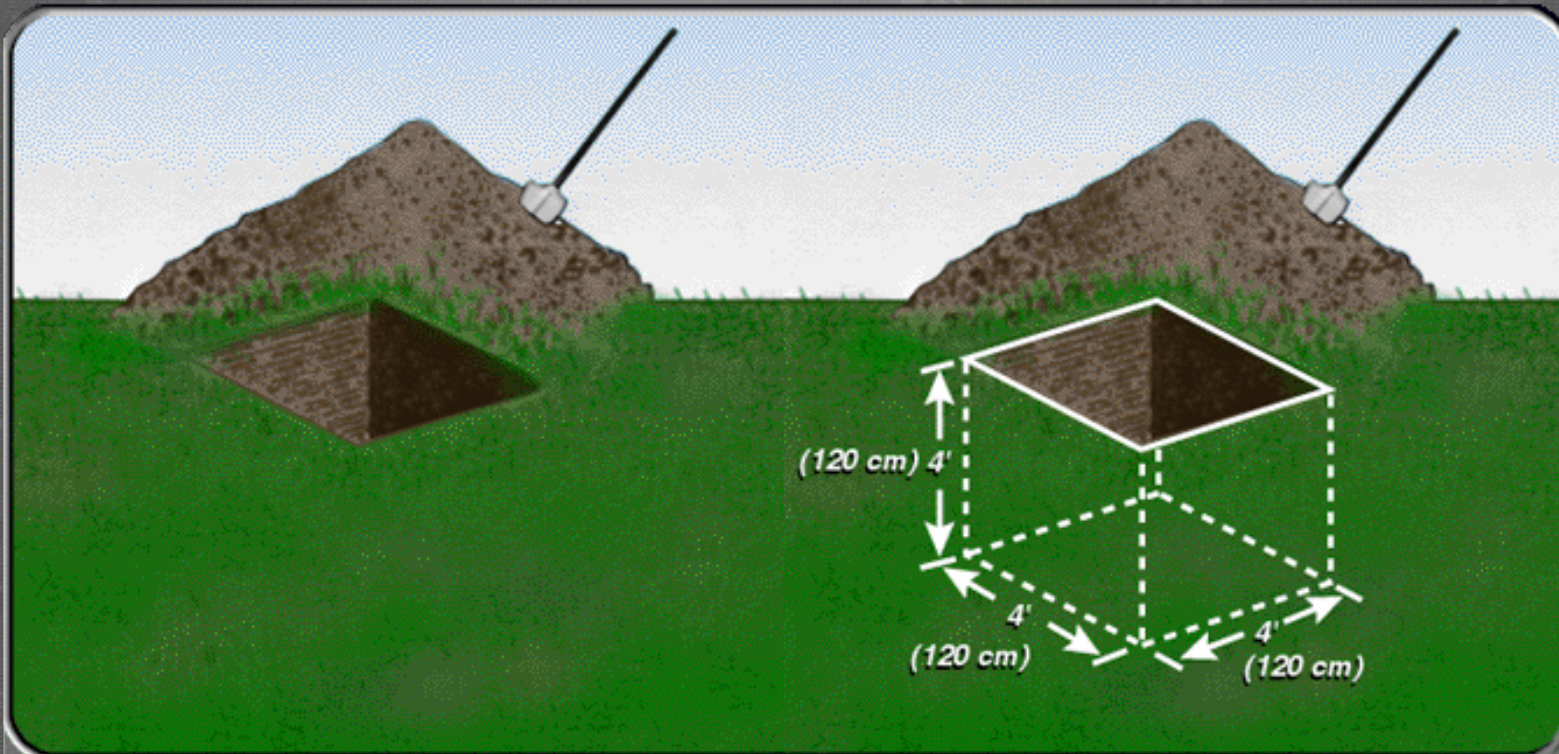
- ***Non-food waste that comes from food service facilities.***

Burial Method



Consider length of stay

Burial Pits



*Consider length of stay
Good for overnight halts
Accommodates 100 soldiers for 1 day*

Operational Considerations - Pit



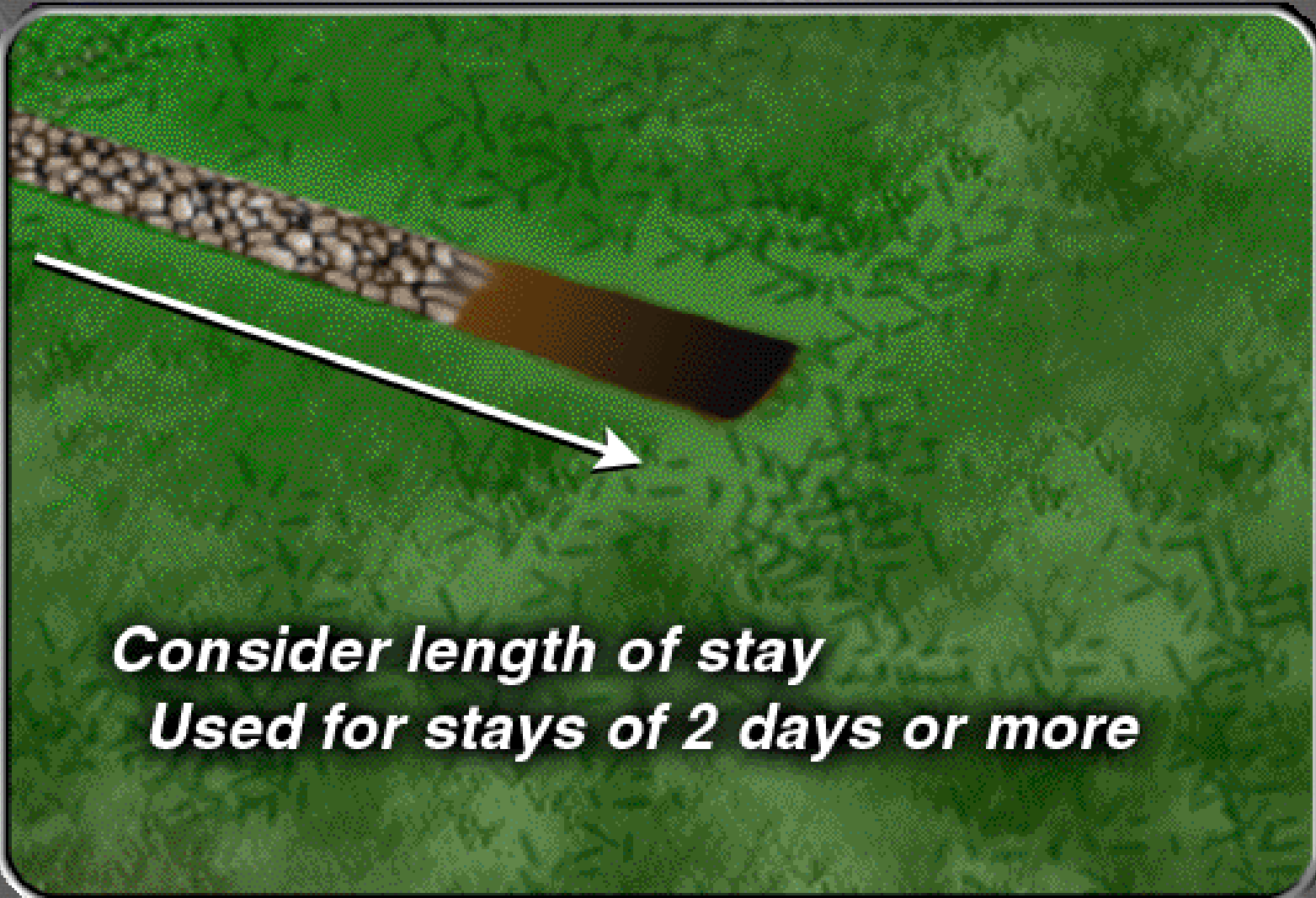
- 1. Fill pit.***
- 2. Mound with 1 foot of compacted soil.***
- 3. Mark the pit.***

Compact earth to prevent insect and rodent infestation.

Placement of the Pit

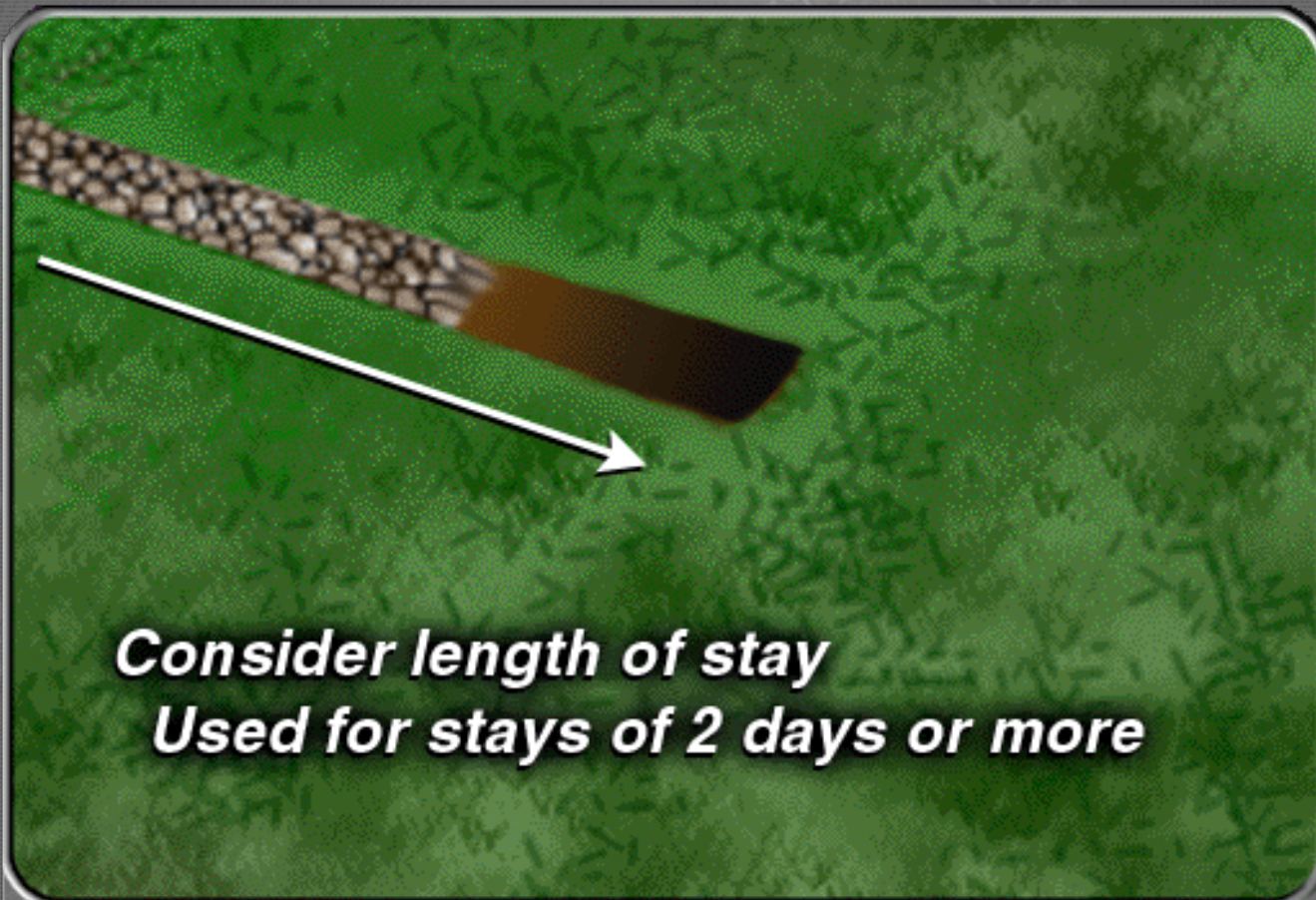


Continuous Trenches



***Consider length of stay
Used for stays of 2 days or more***

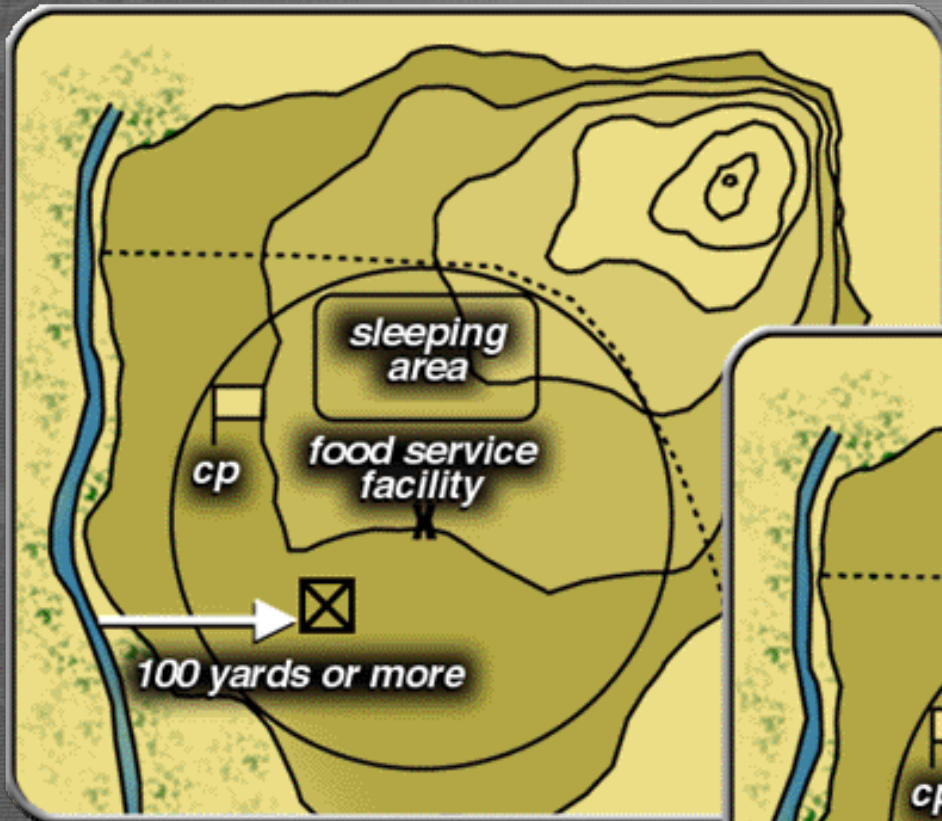
Operational Considerations - Trench



***Consider length of stay
Used for stays of 2 days or more***

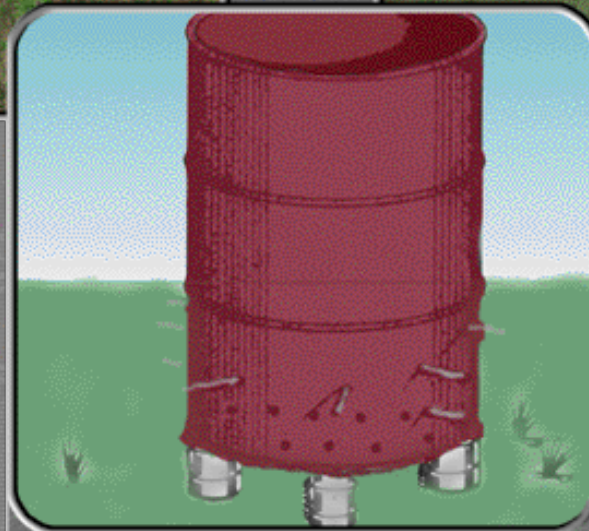
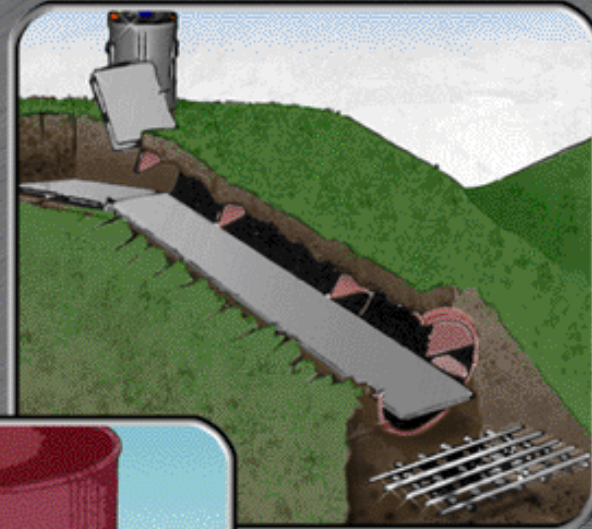
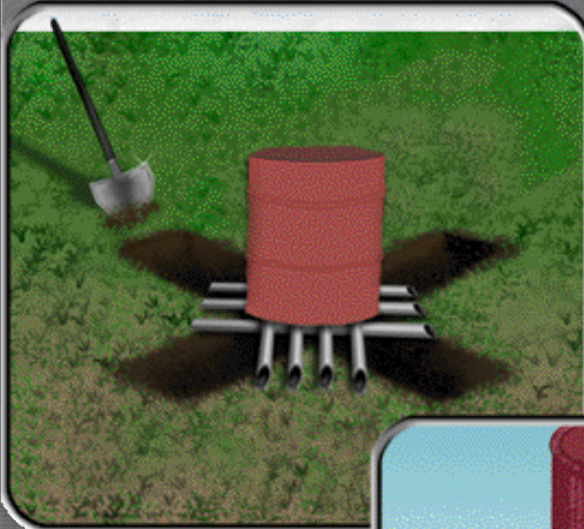
***Length of trench varies with
length of time used.***

Placement of the Trench



Incineration Method

garbage incinerators



rubbish incinerators

Remove Non-combustible Rubbish



Remove Wet Garbage

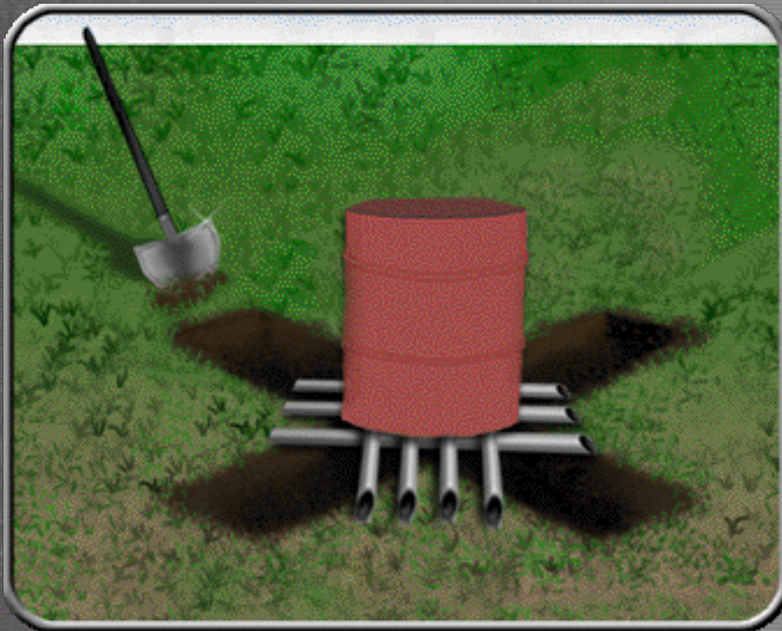


Barrel Incinerator



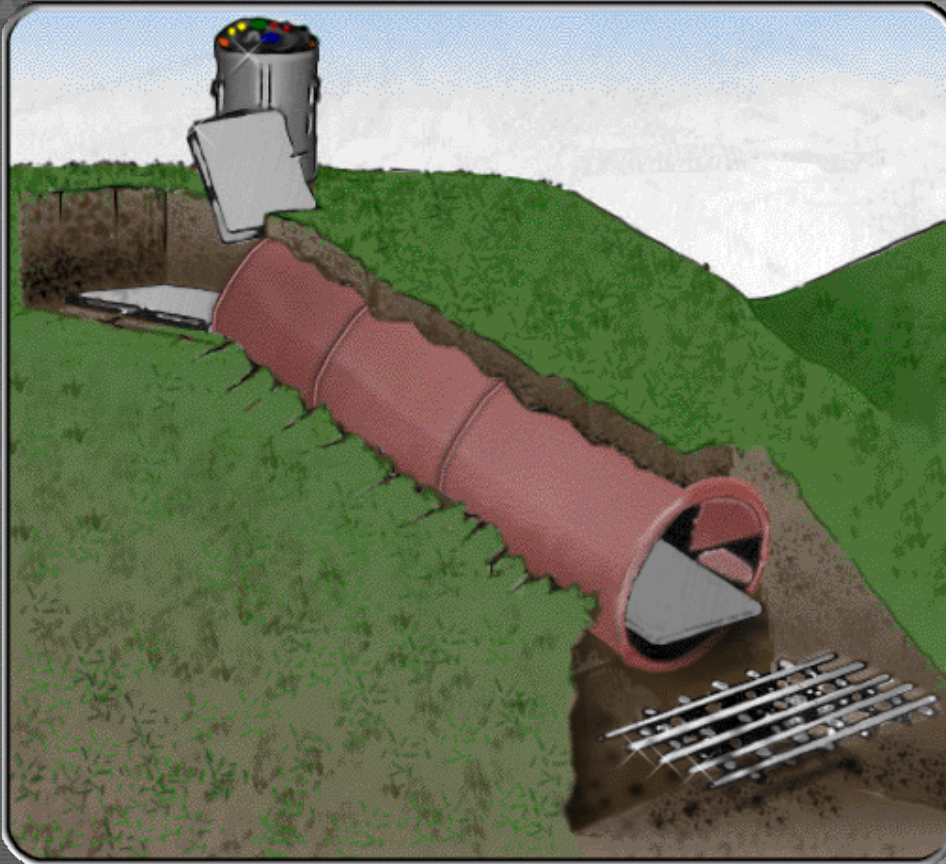
➤ ***Use this incinerator to dispose of combustible rubbish.***

Cross Trench and Stack Incinerator



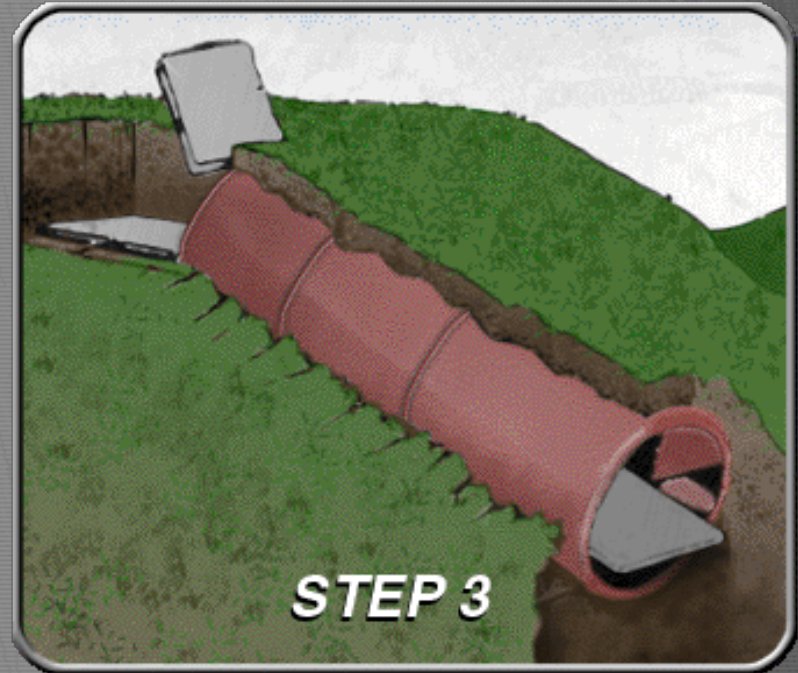
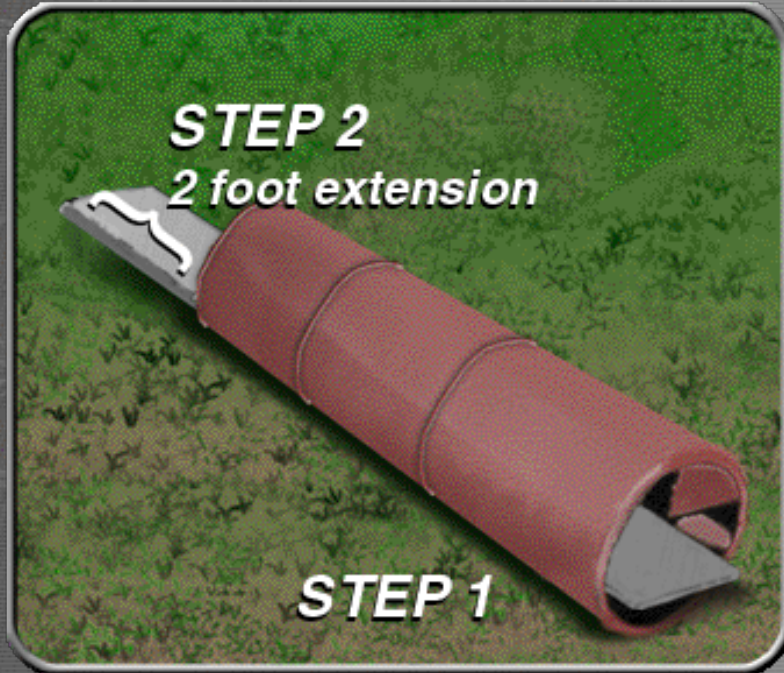
- *Use this incinerator to effectively dispose of garbage and rubbish for a company-sized unit.*

Inclined Plane Incinerator

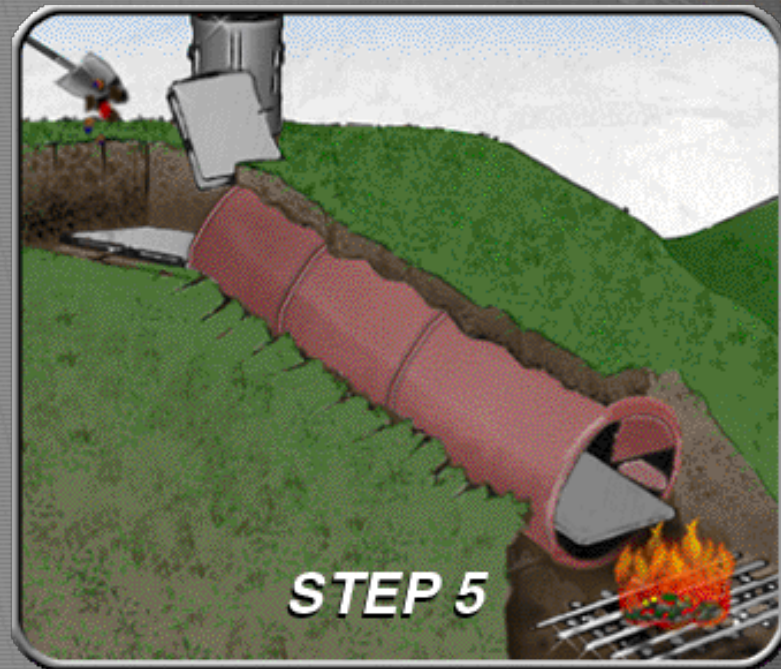
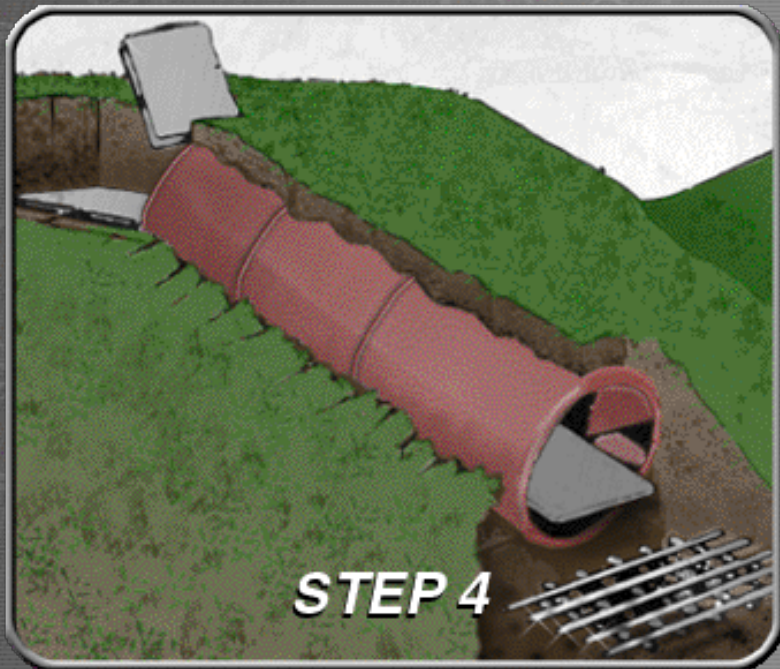


➤ ***Use this incinerator to dispose of garbage and rubbish for an entire battalion.***

Steps 1, 2, and 3



Steps 4 and 5



Hazardous waste should normally be disposed of through the unit S4 section. Commanders should check with the supporting PVNTMED personnel for information concerning the turn-in of hazardous materials and hazardous waste materials.

SUMMARY