



AMHERST COLLEGE

Excavation Permit



Dig Safe Number: _____

Work Order Number: _____

Section A: (to be completed by the Project Manager, Supervisor, Competent Person)

Name: _____ Phone: _____ Date: ____/____/____

Location of Project: _____ ● Latitude **42.** _____
 Longitude **-71.** _____

Excavation Company: _____ Phone: _____ Date: ____/____/____

Site Supervisor: _____ Phone: _____ Date: ____/____/____

Purpose of Excavation: _____

Hoisting License Number: _____

Date(s) excavation work is scheduled to be performed: from ____/____/____ to ____/____/____

Soil Classification: Stable Rock Type A Type B Type C Pre-disturbed

● **Maximum Depth of Excavation** ● **- Excavations ≥ 20' must be approved/stamped by P.E.**
 ● **- Excavations adj building or sidewalk must be approved/stamped by P.E.**

Section B: Checklists (Utility Review) check all that apply and verify AC/DigSafe Evaluation

Town of Amherst DPW Notified ____/____/____ **Fee** (if applicable) \$ _____

- Dig Safe Notified (888-DIG-SAFE) (344-7233)**
- ___ Electrical / WMECO / National Grid
- ___ Gas (Natural) Berkshire Gas / Gas Company
- ___ Telephone / Comcast
- ___ Television / Comcast
- Storm Drain / DPW (259-3050)
- Sanitary Sewer / DPW (259-3050)

Amherst College Shops Notified (542-2254)

- Design and Construction
- Electric Shop
 - ___ Gas - Propane
 - ___ Electric
 - ___ Telecom
- Grounds
 - ___ Adjacent Tunnel
 - ___ Water (Lawn Sprinkler)
- IT (Information Technology)
 - ___ Datacom
 - ___ Telecom
 - ___ Telephone
- Mechanical Shop
 - ___ Water (Domestic)
 - ___ Sewer
 - ___ Steam

Safety Checklist

- Ladder within 25' of workers
- Barricade / Fence (shall be ≥6' in height if open >1 day)
- Guardrail(s) (at trench edge)
- Warning Lines (≥6' from trench edge)
- Ramp
- Stairs (≥3 steps) with handrail

The Excavation / Trench will require...

- Benching
- Sloping
 - Sloping pitch shall be ____:____
 - Spoil pile shall be 3' from the edge
- Sheilding
- Shoring
- Trench Box

Required on excavations	Prohibit Entry if	Upon entry		
4 GAS MONITOR		Result / Time	Result / Time	Result / Time
Carbon Monoxide	>35ppm			
Hydrogen Sulfide	>10ppm			
Oxygen	<19.5% or >23.5%			
Lower Explosive Limit (LEL)	>10%			

Project Manager / Supervisor: _____ Date: ____/____/____

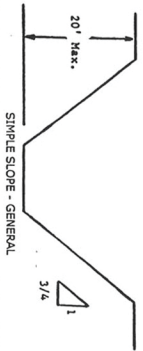
Excavation Company Project Manager: _____ Date: ____/____/____

Copies: **White - On Job Site** **Yellow - Town of Amherst** **Pink - EH&S** **Gold - Amherst College Police**

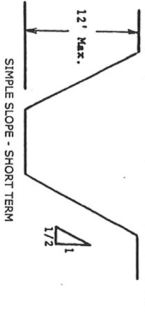
(All slopes stated, are in the horizontal to vertical ratio)

Excavations made in Type A soil.

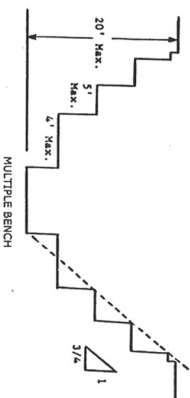
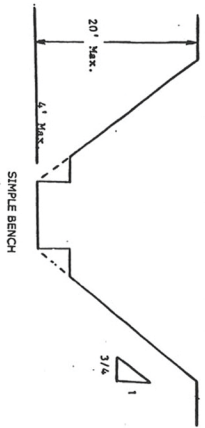
1. All simple slope excavation 20 feet or less in depth shall have a maximum allowable slope of 3/4:1.



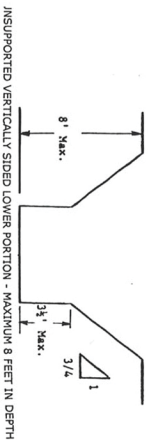
Exception: Simple slope excavations which are open 24 hours or less, and which are 12 feet or less in depth shall have a maximum allowable slope of 1/2:1.



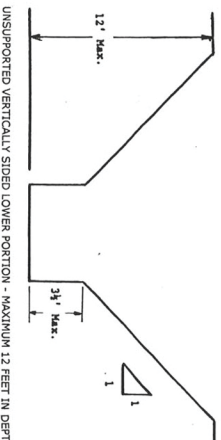
2. All benched excavations 20 feet or less in depth shall have a maximum allowable slope of 3/4 to 1 and maximum bench dimensions as follows:



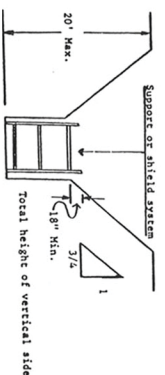
3. All excavations 8 feet or less in depth which have unsupported vertically sided lower portions shall have a maximum vertical side of 3 1/2 feet.



All excavations more than 8 feet but not more than 12 feet in depth with unsupported vertically sided lower portions shall have a maximum allowable slope of 1:1 and a maximum vertical side of 3 1/2 feet.



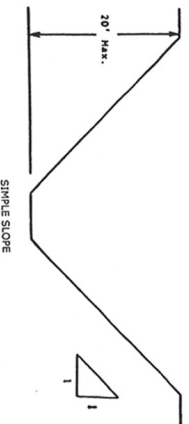
All excavations 20 feet or less in depth which have vertically sided lower portions that are supported or shielded shall have a maximum allowable slope of 3/4:1. The support or shield system must extend at least 18 inches above the top of the verticle side.



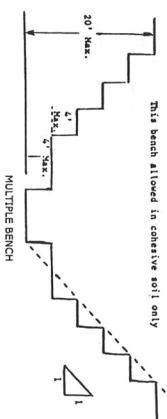
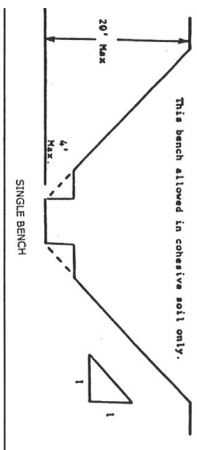
SUPPORTED OR SHIELDED VERTICALLY SIDED LOWER PORTION
 4. All other simple slope, compound slope, and vertically sided lower portion excavation shall be in accordance with the other options permitted under 1926.652(b).

Excavations Made in Type B Soil

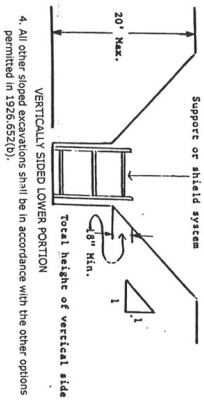
1. All simple slope excavations 20 feet or less in depth shall have a maximum allowable slope of 1:1.



2. All benched excavations 20 feet or less in depth shall have a maximum allowable slope of 1:1 and maximum bench dimensions as follows:



3. All excavations 20 feet or less in depth which have vertically sided lower portions shall be shielded or supported to a height at least 18 inches above the top of the verticle side. All such excavations shall have a maximum allowable slope of 1:1.



4. All other sloped excavations shall be in accordance with the other options permitted in 1926.652(b).

- Type A**
Cohesive Soil
Clay, Silty Clay, Clay Loam, Cemented Soils and Hardpan
No soil is Type A, if...
 - It is fissured
 - Been subjected to vibration
 - Previously disturbed

- Type B**
Granular, cohesionless soil, like crushed rock, silt, silt loam
Previously disturbed Type A
Fissured or subjected to vibration

- Type C**
Granular soils, sand or soil with free seeping water

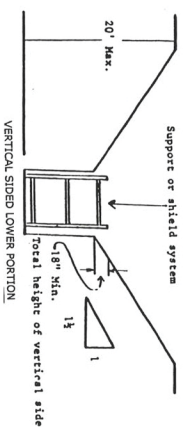
Pre-disturbed Soil - previously excavated soil

Excavations Made in Type C Soil

1. All simple slope excavations 20 feet or less in depth shall have a maximum allowable slope of 1 1/2:1.



2. All excavations 20 feet or less in depth which have vertically sided lower portions shall be shielded or supported to a height at least 18 inches above the top of the vertical side. All such excavations shall have a maximum allowable slope of 1 1/2:1.



3. All other sloped excavations shall be in accordance with the other options permitted in 1926.652(b).

