

MAXIMUM ALLOWABLE SLOPES

SOIL OR ROCK TYPE	MAXIMUM ALLOWABLE SLOPES (H:V)(1) FOR EXCAVATIONS LESS THAN 20 FEET DEEP (3)
Stable Rock	Vertical (90°)
Type A (2)	3/4:1 (53°)
Type B	1:1 (45°)
Type C	1 ½:1 (34°)

ESCO GROUP EXCAVATION CHECK LIST

Company				Date			
Site Location/Description				Time			
Inspected by				Project number			
<p>INSTRUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if the description is present and has been satisfied. Mark and (X) in the NO column if the item has not been completed. Mark a line (-) across the YES and NO columns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.</p>							
Item	Description	Yes	No	Item	Description	Yes	No
1	The utility company has been notified of excavation work schedule			19	A competent person inspects the trench prior to the start of the shift		
2	Location of underground utility lines are identified			20	The location of trench is marked by banners, barricades or other signals		
3	Electrical underground cables deenergized?			21	Bridges or walkways over excavations are equipped with guardrails and toe boards.		
4	Electrical PPE needed to safely work around underground cables? _____			22	Employees working below other employees in trench are protected from hazards		
5	Hydrovacung utilized? If no, why not? _____			23	The trench is free of standing water		
6	Hazardous objects have been removed from excavation area or blocked securely			24	The proper water removal equipment is operating under guidance of competent person		
7	Soil type is classified			25	Diversion ditches or dikes are in place to prevent surface water from entering trench		
8	Sloping and Benching system is designed per OSHA requirements			26	The trench is inspected by competent person following any amount of rain		
9	Timber shoring system is designed per OSHA requirements			27	Employees are wearing proper safety equipment		
10	Aluminum Hydraulic shoring system is designed per OSHA requirements			28	Test air quality in trench if a hazardous atmosphere is suspected		
11	Shielding system is designed per OSHA requirements			29	A ventilation or respiratory protection is in use		
12	Shields are free from damage or defects			30	Protective support systems are installed from the top down		
13	Employees are protected from cave-ins when entering and exiting the shield.			31	Protective support systems are dismantled from the bottom up		
14	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation			32	Excavation is backfilled as the protective system is dismantled		

15	A ladder is provided and secured in trench four or more feet deep; top of ladder extending at least 36 inches above edge of trench.			33	Heavy equipment is mounted on wooden mats to distribute weight		
16	A ladder is within 25 feet of all employees working in trench			34	Damaged materials or equipment are removed from service		
17	Excavated material is stored at least two feet from the edge of the excavation			35	An emergency response program is in place		
18	Employees are protected from loose material, which could fall into trench.			36	Life support equipment is in working order		

Notes: