

## Daily Trench/Excavation Inspection & Permit

Date: \_\_\_\_\_ Time: \_\_\_\_\_ Project: \_\_\_\_\_

Excavation Location \_\_\_\_\_

### Site Evaluation

- |  |  |
|--|--|
| <input type="checkbox"/> Surface encumbrances          | <input type="checkbox"/> Warning system for mobile equipment   |
| <input type="checkbox"/> Underground installations     | <input type="checkbox"/> Protection from water accumulation    |
| <input type="checkbox"/> Access and egress             | <input type="checkbox"/> Stability of adjacent structures      |
| <input type="checkbox"/> Exposure to vehicular traffic | <input type="checkbox"/> Employee protection - loose rock/soil |
| <input type="checkbox"/> Exposure to falling loads     | <input type="checkbox"/> Inspections                           |
| <input type="checkbox"/> Hazardous atmospheres         | <input type="checkbox"/> Fall protection                       |
| <input type="checkbox"/> % Oxygen (O <sub>2</sub> )    | <input type="checkbox"/> % of Lower Explosive Limit            |

Note: Atmospheres in excavations greater than four feet shall be tested for oxygen content and flammable gas concentrations prior to entry of personnel. Emergency rescue equipment shall be readily available.

### Soil Classification

Soil classification shall be made based on the results of at least one visual, and one manual test.

Stable rock       Type A       Type B       Type C

### Visual Tests

Inspect worksite for:

- Fissured ground
- Layered soil
- Previously disturbed earth
- Seepage
- Vibration
- Poor drainage

### Manual Tests

Analyze soil for:

- Plasticity
- Dry strength
- Thumb penetration
- Pocket penetrometer
- Sherevane
- Drying test

**Protective Support Systems**

**Sloping & Benching**

- \_\_\_\_\_ Stable rock: 90 degrees
- \_\_\_\_\_ Type A: 53 degrees
- \_\_\_\_\_ Type B: 45 degrees
- \_\_\_\_\_ Type C: 34 degrees

**Shoring & Shielding**

- \_\_\_\_\_ Timber or hydraulic
- \_\_\_\_\_ Trench boxes, trench shields
- \_\_\_\_\_ Design using tabulated data
- \_\_\_\_\_ RPE design

**Additional Comments or Information:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Inspection performed by:  
\_\_\_\_\_

**Authorized Competent Person (Signature)**

Work Authorized to Begin by:  
\_\_\_\_\_

**MAPP Superintendent (Signature)**

\_\_\_\_\_  
**MAPP HSE Representative (Signature)**