

# Excavation and Trenching Plan

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# CENTENNIAL

A BILFINGER COMPANY

**Project Title:**

**Date:**

**PSO/SSHO Name:**

**Plan Preparer:**

**Project Location (be specific):**

**Instructions:** Complete this plan for all excavations, trenches, post holes, post driving pot holing and any other digging at any depth. Answer all questions specific to the task and detailed and be as specific as possible; additional space is provided on the last page, if needed. The National One Call number is 811. More state specific information is available at [www.call811.com](http://www.call811.com). An independent or third-party utility locating company may be required if digging on or beyond the utility meter. Ground Penetrating Radar Systems, LLC (GPRS) is a preferred national partner or another vendor that performs similar scope of work may be utilized. A completed AHA must accompany this plan.

## General Conditions

**Anticipated depth of excavation / trench:**

**Feet in depth**

**Excavation / Trench dimensions:**

**Width:**

**Feet**

**Length:**

**Feet**

**Will or could this excavation / trench be considered a confined space?**

Yes	No
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**If yes, please reference the separate confined space plan.**

**Will the excavation / trench atmospheric conditions be tested daily?**

Yes	No
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**If yes, please explain:**

*Note: if working on a federal project, any excavation / trench that exceeds 4' in depth will require atmospheric testing at the beginning of each work shift.*

**Will ventilation be supplied inside the excavation / trench?**

Yes	No
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**If yes, please explain:**

**Has a soil classification been conducted to determine soil type?**

**If yes, which methods were used to determine soil type (choose two):**

Visual test

Pocket penetrometer

Thumb penetration test

Plasticity test

Dry strength test

Ribbon test

**As a result of the selected soil classification tests listed above, soil is considered (choose one):**

Stable rock

"Type A" - unconfined comprehensive strength of 1.5 tsf or greater

"Type B" - unconfined comprehensive strength of 0.5 -1.5 tsf

"Type C" - unconfined comprehensive strength of 0.5 tsf or less

*Note: Reference OSHA 1926 subpart P Appendix A for soil classification definitions*

Description of safe work practices and anticipated work inside the excavation / trench:

**Personnel**

Competent Person(s) [print name]

Qualified Person(s) (if required)\*

*\*Note: In the event that Excavation / Trenching activities exceed 20 feet in depth, a Qualified Person is required for excavation / trench design and protective systems. Attach a copy of the Competent Person's credentials.*

Competent person will conduct a safe work practices briefing including any job-related hazards. List name of attendees below (to be completed on site):

Print Name:	Print Name:

Competent Person Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**Protection Methods & Systems**

Choose the method of protection below that will be implemented (may choose more than one):

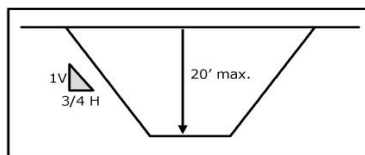
Sloping:

$\frac{3}{4}$  to 1 - Type A Soil

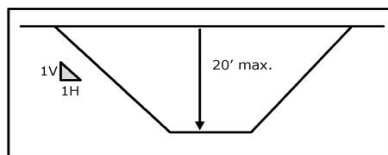
1 to 1 - Type B Soil

1  $\frac{1}{2}$  to 1 - Type C Soil

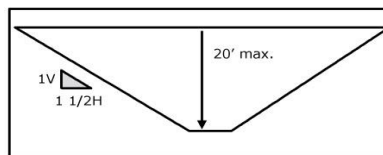
Excavations in type A soil



Excavations in type B soil



Excavations in type C soil



Benching:

*Note: Benching in class C soil is prohibited*

Shoring:

*Note: a copy of the manufacturer's tabulated data must be provided. Please attach a copy to this plan.*

Shielding:

*Note: a copy of the manufacturer's tabulated data must be provided. Please attach a copy to this plan.*

**Additional Comments:**

*Note: if excavation / trench depth exceeds 20' in depth, please attach a copy of the engineered excavation / trench design and protective systems.*

**Access & Egress**

Choose the method of access / egress below that will be implemented (may choose more than one):

Portable ladder(s) placed within 25 feet of lateral travel

Ramp(s) placed within 25 feet of lateral travel

Other means of access / egress:

Explain in detail:

**Affected Zone, Traffic & Utilities**

Have utilities been located by a utility locate company? 

Yes	No
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If no, STOP. Utility locates must be performed before digging is initiated.  
Call 811 for additional information [www.call811.com](http://www.call811.com).

Is a digging permit required in this area or on this project? 

Yes	No
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If yes, please attach a copy of the permit to this plan

Have owner utility as-built drawings been obtained? 

Yes	No
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Will utility lines (overhead or underground electrical / water / steam / sewer / storm / etc.) be present? Exact utility locations must be verified by non-mechanical means (i.e., pot holing). 

Yes	No
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If yes, explain:

Will any surface encumbrances be located within the affected zone of the trench? 

Yes	No
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If yes, explain method of support / protection:

Will utility shutdown / shut off / or lock out tag out be required? 

Yes	No
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If yes, reference the separate Hazardous Energy Control Plan

Will spoil piles remain a minimum 2' from the excavation / trench edge? 

Yes	No
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If no, will spoils be transported off site? 

Yes	No
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If yes, are environmental controls in place to reduce runoff? 

Yes	No
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Will the excavation / trench be left open overnight?

Yes	No
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If yes, describe methods to secure the excavation area from the public or bystanders:

Will worker(s) accessing or working from the trench be exposed to vehicle traffic?

Yes	No
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If yes, please reference separate Traffic Control Plan.

**Excavation / Trench Sketch**

In the space below please include a sketch or diagram of the excavation / trench. Be sure to include any surface encumbrances and perimeter protection.

**De-Watering**

Is it anticipated that de-watering will be needed / implemented?

Yes	No
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If yes, explain equipment and procedures below:

Is the excavation located next to a body of water (ocean, lake, stream, etc.)?

Yes	No
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If de-watering is implemented, how will water discharge be conducted (explain below):

Additional Notes:

**Approval**

**Competent Person Signature:**  **Date:**

**Review**

**Centennial Representative Signature:**  **Date:**

**Centennial PM Signature:**  **Date:**