



OSHA Excavation and Trenching Worksite Analysis

Go-Eun Tunnel Project 2025 / Lara Euodia Kim / 24
Sep 2020

Complete

Score	86.36%	Failed items	6	Actions	3
Client / Site					
Go-Eun Tunnel Project 2025					
Location					
1793 23rd Ave SE, Tuttle, ND 58488, USA					
Conducted on					
24th Sep, 2020 10:47 AM +08					
Prepared by					
Lara Euodia Kim					

Failed Items & Actions

6 failed, 3 actions

Failed items

6 failed, 3 actions

Audit / Safe Entry and Exit

Are access ramps designed by a competent person?

No

In progress | Priority High | Due 24th Sep, 2020 8:30 PM +08 | Created by SafetyCulture Staff

Redesign access ramps with non-slip surfaces

Audit / Safe Entry and Exit

Do ramps have a non-slip surface?

No

Audit / Safe Entry and Exit

Are ladders secured?

No

Audit / Vehicle Safety

Is there a trained flag person who designates traffic at the excavation site?

No

trained flagger not present upon inspection



Photo 5

Audit / Vehicle Safety

Are all workers trained to use hand or mechanical signals as a way to communicate?

No

To do | Priority High | Due 25th Sep, 2020 11:16 AM +08 | Created by SafetyCulture Staff

Schedule hand/mechanical signals refresher for trained flaggers

Audit / Inspections

Is the site inspected when there is a change in the size, location or placement of the spoil pile?

No

To do | Priority Medium | Due 28th Sep, 2020 11:22 AM +08 | Created by SafetyCulture Staff

Inspect the excavation site when there is a change in the size, location or placement of the spoil pile

Other actions

0 actions

Audit

3 actions, 6 failed, 86.36%

Spoil Placement

100%

Are spoils at least 2 feet back from the excavation?

Yes



Photo 1

If spoils are not 2 feet back, do you use retaining devices, such as a trench box, to protect the excavation site?

N/A

Are the spoils placed so that rainwater and other run-off move away from the excavation?

Yes

If spoils can't be placed safely at the excavation site, are they hauled to another location?

N/A

Protection Systems

100%

Has a competent person selected the site's protection system?

Yes

Has a competent person overseen the installation of the protection system?

Yes



Photo 2

Is the protection system accurate for the soil type?

Yes

soil type A

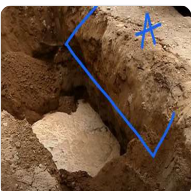


Photo 3

Is the protection system inspected every day by the competent person?

Yes

Safe Entry and Exit

1 action, 3 failed, 62.5%

Do all workers have a safe way to enter and exit if the excavation is 4 or more feet deep?

Yes

Is access within 25 lateral feet of workers?

Yes

Are access ramps designed by a competent person?

No

In progress | Priority High | Due 24th Sep, 2020 8:30 PM +08 | Created by SafetyCulture Staff

Redesign access ramps with non-slip surfaces

Do ramps have a non-slip surface?

No

Do all workers walk upright on an earthen ramp?

Yes

Are ladders secured?

No

Do ladders extend at least 36 inches above the landing?

Yes



Photo 4

Do all workers avoid using metal ladders if electricity is present at the site?

Yes

Vehicle Safety

1 action, 2 failed, 60%

Do all workers wear a warning vest marked with or made of reflectorized or high visibility materials?

Yes

Is there a trained flag person who designates traffic at the excavation site?

No

trained flagger not present upon inspection



Photo 5

Are all workers trained to use hand or mechanical signals as a way to communicate?

No

To do | Priority High | Due 25th Sep, 2020 11:16 AM +08 | Created by SafetyCulture Staff

Schedule hand/mechanical signals refresher for trained flaggers

Is the excavation site fenced and barricaded at night?

Yes

Does mobile equipment have a warning system?

Yes

Surface Crossing

100%

If there is a vehicle crossing, is it designed and installed under the supervision of a registered professional engineer?

Yes



Photo 6

Do walkways have a minimum clear width of 20 inches?

Yes

Are walkways fitted with handrails?

Yes

Do walkways extend a minimum of 24 inches past the surface edge of the trench?

Yes

Water Management

100%

If there is water, does the site have special support or shield systems approved by a registered professional engineer?

Yes

Does the site have water removal equipment, such as pumps, used and monitored by a competent person?

Yes



Photo 7

Are surface waters diverted from the excavation?

Yes

Do all workers use safety harnesses or lifelines?

Yes

Are employees required to leave the site during rainstorms?

Yes

Is the site carefully inspected by a competent person after each rain and before employees are permitted to re-enter?

Yes

Hazardous Atmosphere

100%

Is the atmosphere tested for possible oxygen deficiency or build-up?

Yes

Is the oxygen content maintained at between 19.5% and 21%?

Yes

Is ventilation provided to prevent flammable gas build-up to 20% of lower explosive limit of the gas?

Yes

Is emergency response equipment readily available?

Yes

Inspections

1 action, 1 failed, 87.5%

Is the excavation site inspected by a competent person?

Yes

Is the site inspected daily and before the start of each shift?

Yes

Is site inspected after rainstorms?

Yes

Is the site inspected after other events that could increase hazards such as snowstorms, windstorms, thaws or earthquakes?

Yes

Is the site inspected when fissures, cracks, sloughing, undercutting, water seepage or bulging at the bottom occur?

Yes

Is the site inspected when there is a change in the size, location or placement of the spoil pile?

No

To do | Priority Medium | Due 28th Sep, 2020 11:22 AM +08 | Created by SafetyCulture Staff

Inspect the excavation site when there is a change in the size, location or placement of the spoil pile

Is the site inspected when there is indication of change or movement in adjacent structures?

Yes

Are site inspections documented?

Yes

General Safety Practices

100%

Are all workers wearing hard hats at all times?

Yes

Do all workers avoid working or walking under a suspended load?

Yes

Do all workers avoid working on faces of sloped or benched excavations above other employees?

Yes



Photo 8

Recommendation

List recommendations here

Excavation safety meetings to be conducted with emphasis on hand/mechanical signals for trained flaggers and identification/proper use of safe access ramps onsite

Completion

Full Name and Signature of Inspector



Lara Euodia Kim, RPE
24th Sep, 2020 11:32 AM +08

Appendix



Photo 1



Photo 2

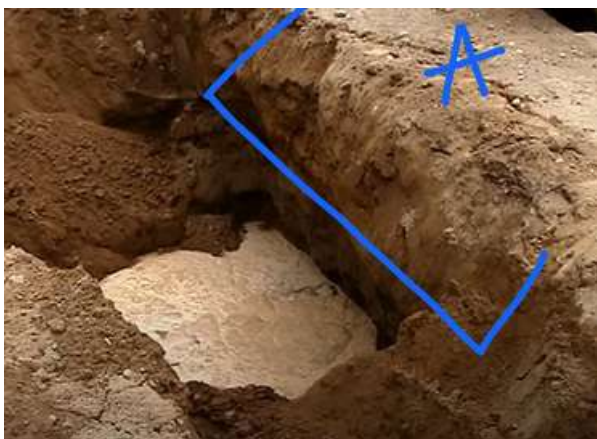


Photo 3



Photo 4



Photo 5



Photo 6



Photo 7



Photo 8