Construction Focus Four: Caught-In or -Between Hazards
Student Handouts

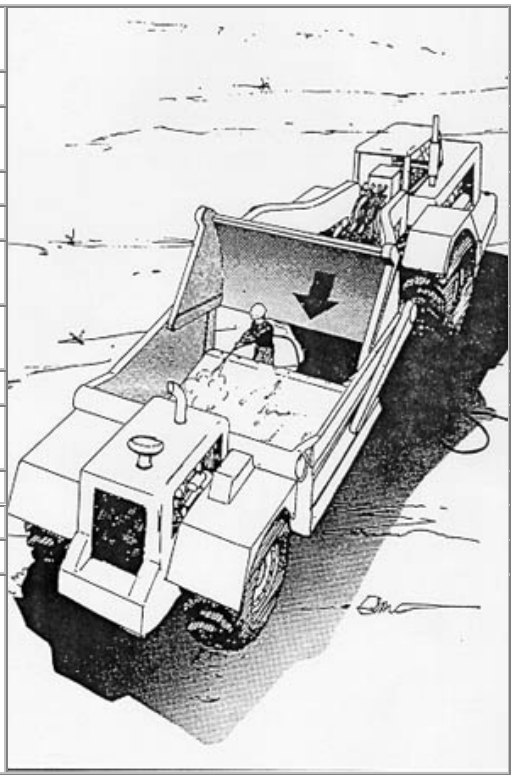
- Fatal Facts Accident Summary #5
- Fatal Facts Accident Summary #13
- Fatal Facts Accident Summary #15
- Fatal Facts Accident Summary #18
- Fatal Facts Accident Summary #22
- Fatal Facts Accident Summary #31
- Fatal Facts Accident Summary #38
- Fatal Facts Accident Summary #50
- Fatal Facts Accident Summary #61
- Fatal Facts Accident Summary #73

Blank Page

ACCIDENT REPORT FATAL FACTS

ACCIDENT SUMMARY No. 5

Accident Type:	Caught in or Between
Weather Conditions:	Clear
Type of Company:	Street Paving Contractor
Size of Work Crew:	1
Union or Non-union:	Non-Union
Worksite Inspections Conducted (1926.20(b)(2)):	Yes
Designated Competent Person on Site (1926.20(b)(2)):	Yes
Employer Safety Health Program:	Yes
Training and Education for Employees (1926.21(b)):	Yes
Craft of Deceased Employee(s):	Ironworker
Age & Sex:	22-Male
Time on the Job:	1 day
Time on Task:	3 Hours



BRIEF DESCRIPTION OF ACCIDENT

A laborer was steam cleaning a scraper. The bowl apron had been left in the raised position. The hydraulically controlled apron had not been blocked to prevent it from accidently falling. The apron did fall unexpectedly and the employee was caught between the apron and the cutting edge of the scraper bowl. The apron weighted approximately 2500 pounds.

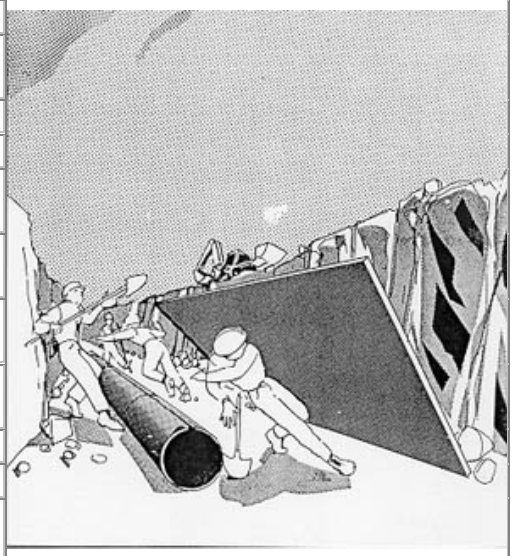
ACCIDENT PREVENTION RECOMMENDATIONS

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

ACCIDENT REPORT FATAL FACTS

ACCIDENT SUMMARY No. 13

Accident Type:	Collapse of Shoring
Weather Conditions:	Clear
Type of Operation:	Boring and Pipe Jacking Excavation
Size of Work Crew:	4
Collective Bargaining	Yes
Competent Safety Monitor on Site:	Yes
Safety and Health Program in Effect:	No
Was the Worksite Inspected Regularly:	Yes
Training and Education Provided:	Yes
Employee Job Title:	Pipe Welder
Age & Sex:	62-Male
Experience at this Type of Work:	18 years
Time on Project:	2½



BRIEF DESCRIPTION OF ACCIDENT

Four employees were boring a hole and pushing a 20-inch pipe casing under a road. The employees were in an excavation approximately 9 feet wide, 32 feet long and 7 feet deep. Steel plates 8' × 15' × ¾", being used as shoring, were placed vertically against the north and south walls of the excavation at approximately a 30 degree angle. There were no horizontal braces between the steel plates. The steel plate on the south wall tipped over, pinning an employee (who was killed) between the steel plate and the pipe casing. At the time the plate tipped over, a backhoe was being operated adjacent to the excavation.

ACCIDENT PREVENTION RECOMMENDATIONS

_____

_____

_____

_____

_____

_____

_____

_____

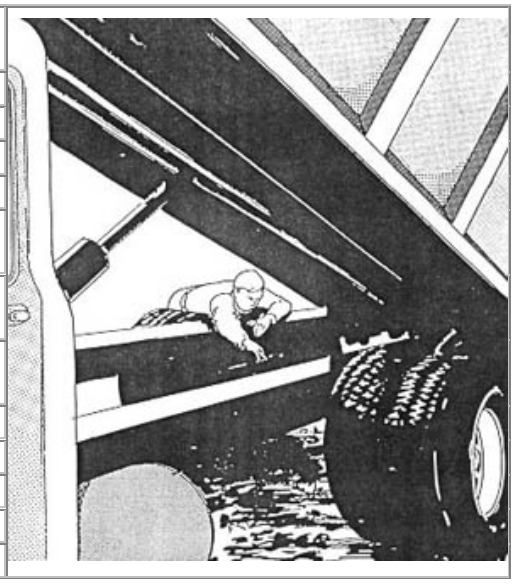
_____

_____

ACCIDENT REPORT FATAL FACTS

ACCIDENT SUMMARY No. 15

Accident Type:	Crushed by Dump Truck Body
Weather Conditions:	Clear, Warm
Type of Operation:	General Contractor
Size of Work Crew:	N/A
Collective Bargaining	Yes
Competent Safety Monitor on Site:	Yes
Safety and Health Program in Effect:	Yes
Was the Worksite Inspected Regularly:	Yes
Training and Education Provided:	No
Employee Job Title:	Truck Driver
Age & Sex:	25-Male
Experience at this Type of Work:	2 Months
Time on Project:	2 Weeks at Site



BRIEF DESCRIPTION OF ACCIDENT

A truck driver was crushed and killed between the frame and dump box of a dump truck. Apparently a safety "over-travel" cable attached between the truck frame and the dump box malfunctioned by catching on a protruding nut of an air brake cylinder. This prevented the dump box from being fully raised, halting its progress at a point where about 20 inches of space remained between it and the truck frame. The employee, apparently assuming that releasing the cable would allow the dump box to continue up-ward, reached between the rear dual wheels and over the frame, and disengaged the cable with his right hand. The dump box then dropped suddenly, crushing his head. The employee had not received training or instruction in proper operating procedures and was not made aware of all potential hazards in his work.

ACCIDENT PREVENTION RECOMMENDATIONS

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

ACCIDENT REPORT FATAL FACTS

ACCIDENT SUMMARY No. 18

Accident Type:	Caught by Rotating Part
Weather Conditions:	Clear
Type of Operation:	Telephone Line Installation
Size of Work Crew:	3
Collective Bargaining	No
Competent Safety Monitor on Site:	Yes - Victim
Safety and Health Program in Effect:	Yes
Was the Worksite Inspected Regularly:	Yes
Training and Education Provided:	No
Employee Job Title:	Boring Machine Operator
Age & Sex:	56-Male
Experience at this Type of Work:	10 Years
Time on Project:	5 Days

BRIEF DESCRIPTION OF ACCIDENT

A three-man crew was installing an underground telephone cable in a residential area. They had just completed a bore hole under a driveway using a horizontal boring machine. The bore hole rod had been removed from the hole. While the rod was still rotating, the operator straddled it and stooped over to pick it up. His trouser leg became entangled in the rotating rod and he was flipped over. He struck tools and materials, sustaining fatal injuries.

ACCIDENT PREVENTION RECOMMENDATIONS

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

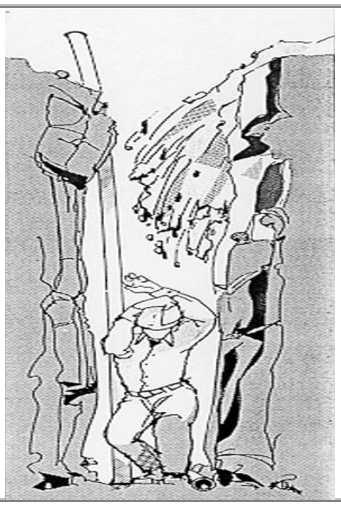
_____

_____

ACCIDENT REPORT FATAL FACTS

ACCIDENT SUMMARY No. 22

Accident Type:	Cave-in
Weather Conditions:	Warm, Clear
Type of Operation:	Excavator
Size of Work Crew:	2
Collective Bargaining	No
Competent Safety Monitor on Site:	Yes
Safety and Health Program in Effect:	No
Was the Worksite Inspected Regularly:	Yes
Training and Education Provided:	No
Employee Job Title:	Laborer
Age & Sex:	37-Male
Experience at this Type of Work:	3 Years
Time on Project:	2 Days



BRIEF DESCRIPTION OF ACCIDENT

An employee was installing a small diameter pipe in a trench 3 feet wide, 12-15 feet deep and 90 feet long. The trench was not shored or sloped nor was there a box or shield to protect the employee. Further, there was evidence of a previous cave-in. The employee apparently reentered the trench, and a second cave-in occurred, burying him. He was found face down m the bottom of the trench.

ACCIDENT PREVENTION RECOMMENDATIONS

ACCIDENT REPORT FATAL FACTS

ACCIDENT SUMMARY No. 31

Accident Type:	Cave-in
Weather Conditions:	Cloudy and Dry
Type of Operation:	Trenching and excavation
Size of Work Crew:	4
Collective Bargaining	No
Competent Safety Monitor on Site:	Yes
Safety and Health Program in Effect:	Yes
Was the Worksite Inspected Regularly:	Yes
Training and Education Provided:	No
Employee Job Title:	Pipe Layer
Age & Sex:	32-Male
Experience at this Type of Work:	9 Months
Time on Project:	2 Weeks

BRIEF DESCRIPTION OF ACCIDENT

Employees were laying sewer pipe in a trench 15 feet deep. The sides of the trench, 4 feet wide at the bottom and 15 feet wide at the top, were not shored or protected to prevent a cave-in. Soil in the lower portion of the trench was mostly sand and gravel and the upper portion was clay and loam*. The trench was not protected from vibration caused by heavy vehicle traffic on the road nearby. To leave the trench, employees had to exit by climbing over the backfill. As they attempted to leave the trench, there was a small cave-in covering one employee to his ankles. When the other employee went to his co-worker's aid another cave-in occurred covering him to his waist. The first employee died of a rupture of the right ventricle of his heart at the scene of the cave-in. The other employee suffered a hip injury.

ACCIDENT PREVENTION RECOMMENDATIONS

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

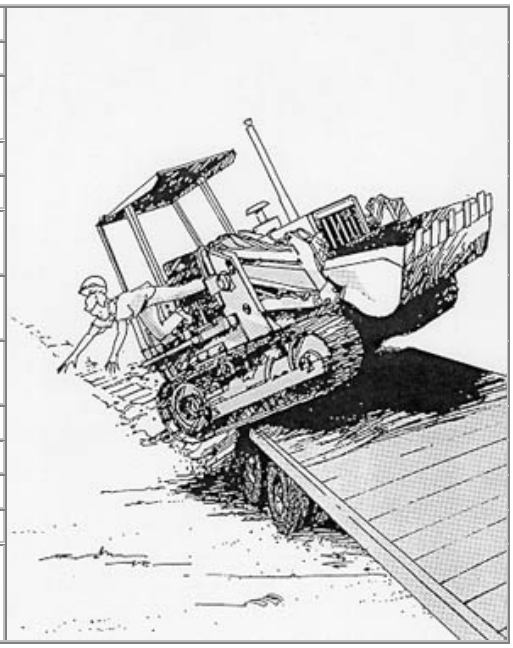
_____

*Clay and loam are terms not used any longer; Soil condition is now described using A, B, or C

ACCIDENT REPORT FATAL FACTS

ACCIDENT SUMMARY No. 38

Accident Type:	Caught in or between
Weather Conditions:	Clear, dry
Type of Operation:	Highway, street construction
Size of Work Crew:	4
Collective Bargaining	Yes
Competent Safety Monitor on Site:	Yes
Safety and Health Program in Effect:	Yes
Was the Worksite Inspected Regularly:	Yes
Training and Education Provided:	No
Employee Job Title:	Equipment Operator
Age & Sex:	38-Male
Experience at this Type of Work:	11 Months
Time on Project:	1 Hour



BRIEF DESCRIPTION OF ACCIDENT

An employee was driving a front-end loader up a dirt ramp onto a lowboy trailer. The tractor tread began to slide off the trailer. As the tractor began to tip, the operator, who was not wearing a seat belt, jumped from the cab. As he hit the ground, the tractor's rollover protective structure fell on top of him, crushing him.

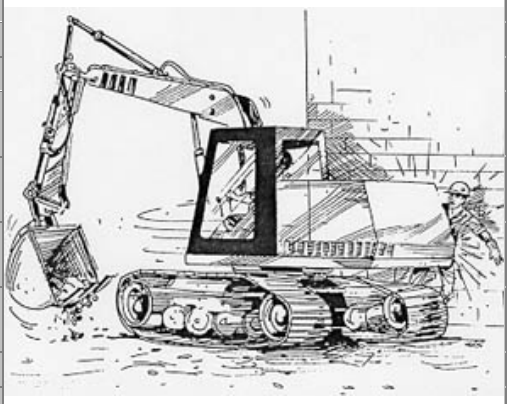
ACCIDENT PREVENTION RECOMMENDATIONS

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

ACCIDENT REPORT FATAL FACTS

ACCIDENT SUMMARY No. 50

Accident Type:	Caught between Backhoe Superstructure and Concrete Wall
Weather Conditions:	Clear/Cool
Type of Operation:	Excavation Contractor
Size of Work Crew:	9
Collective Bargaining	Yes
Competent Safety Monitor on Site:	No
Safety and Health Program in Effect:	No
Was the Worksite Inspected Regularly:	No
Training and Education Provided:	No
Employee Job Title:	Truck Driver
Age & Sex:	34-Male
Experience at this Type of Work:	Unknown
Time on Project:	4 Days



Picture used may not be representative of a backhoe as indicated in the report

BRIEF DESCRIPTION OF ACCIDENT

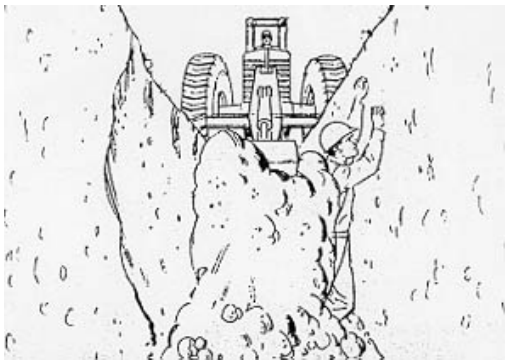
The contractor was operating a backhoe when an employee attempted to walk between the swinging superstructure of the backhoe and a concrete wall. As the employee approached the backhoe from the operator's blind side, the superstructure hit the victim crushing him against the wall.

ACCIDENT PREVENTION RECOMMENDATIONS

ACCIDENT REPORT FATAL FACTS

ACCIDENT SUMMARY No. 61

Accident Type:	Trench Collapse
Weather Conditions:	Fair
Type of Operation:	Excavation Work
Size of Work Crew:	2
Competent Safety Monitor on Site:	No
Safety and Health Program in Effect:	No
Was the Worksite Inspected Regularly:	No
Training and Education Provided:	Inadequate
Employee Job Title:	Laborer
Age & Sex:	51-Male
Experience at this Type of Work:	6 Months
Time on Project:	2 Days



BRIEF DESCRIPTION OF ACCIDENT

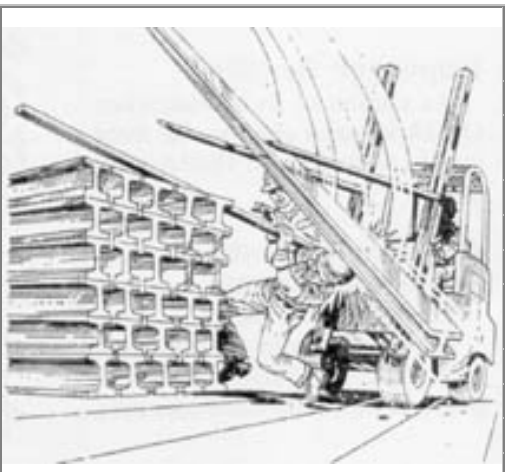
An employee was working in a trench 4 feet wide and 7 feet deep. About 30 feet away a backhoe was straddling the trench when the backhoe operator noticed a large chunk of dirt falling from the side wall behind the worker in the trench, he called out a warning. Before the worker could climb out, 6 to 8 feet of the trench wall had collapsed on him and covered his body up to his neck. He suffocated before the backhoe operator could dig him out. There were no exit ladders. No sloping, shoring or other protective system had been used in the trench.

ACCIDENT PREVENTION RECOMMENDATIONS

ACCIDENT REPORT FATAL FACTS

ACCIDENT SUMMARY No. 73

Accident Type:	Struck by/Caught between
Weather Conditions:	Clear/warm
Type of Operation:	Stacking Structural Steel
Size of Work Crew:	6
Competent Person on Site:	No
Safety and Health Program in Effect:	No
Was the Worksite Inspected Regularly by the Employer:	No
Training and Education Provided:	No
Employee Job Title:	Laborer
Age & Sex:	28-Male
Experience at this Type of Work:	4 Years
Time on Project:	5 Weeks



BRIEF DESCRIPTION OF ACCIDENT

Two laborers and a fork lift driver were staking 40-foot-long I-beams in preparation for structural steel erection. One laborer was placing a 2 X 4 inch wooden spacer on the last I-beam on the stack. The fork lift driver drove up to the stack with another I-beam that was not secured or blocked on the fork lift tines. The I-beam fell from the tines, pining the laborer between the fallen I beam and the stack of beams.

ACCIDENT PREVENTION RECOMMENDATIONS